### APPENDIX 9

New Private Primary Underground Service Installation –Rev. 12/1/2023-PFC

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#### **NEW PRIVATE PRIMARY UNDERGROUND SERVICE INSTALLATION SPECS**

#### **NYSEG** to provide:

- 1. Riser pole if pole is not available on customer side of street.
- 2. Construct entire riser installation with customer provided primary underground wire.
- 3. Primary connections at pole.
- 4. Primary and secondary connections at transformer.
- 5. Pad mounted transformer.

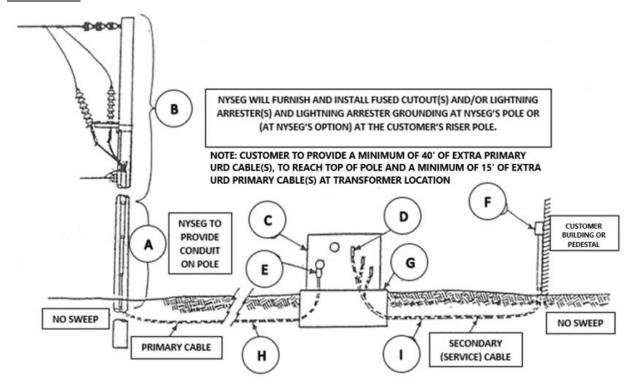
#### **CUSTOMER** to provide:

 Vault pad – Fiberglass or concrete can be used. Must be level with 6" of #2 crushed stone. See pages 7 through 16 for specs on fiberglass and concrete vault pad specs (single phase and three phase).

#### \*\*VAULT PAD MUST BE NO MORE THAN 10 FT OFF ROAD/DRIVEWAY\*\*

- 2. **Trench** 36" deep with clean back fill. Wire should be placed in 6" of sand on bottom then 6" on top or in conduit. Trench up to two feet from proposed riser pole/stake. See pages 22 & 24.
- 3. **Aluminum wire** (must be NYSEG approved) NYSEG prefers 15kV rated, 175 mils insulation with concentric neutral primary underground wire. Semi-conductive jacketing recommended. There should be enough wire for the length of the service and to reach the top of the riser pole plus an extra 15 ft at the vault pad per phase. See pages 21 through 26 for primary underground wire specs. Customer is required to submit a "Customer Primary Voltage Cable Acceptance" form to NYSEG engineering department before customer provided URD cable is purchased.
- 4. **Grounding at vault pad** #2 copper is to be used. See pages 9, 11, and 14 for grounding specs.
- 5. Bumper Protections See pages 19 and 20.
- 6. **Meter location** Consult meter location with NYSEG engineering department for approval. If a meter pedestal is to be installed, NYSEG requires a minimum of 10 ft from pad mounted transformer and no more 200 ft. See pages 3 through 6 for meter specs. For all meter pan specs/information, please see NYSEG's Electric Services & Meters manual PDF located on NYSEG's webpage (<a href="https://www.nyseg.com">www.nyseg.com</a>) under Account, Moving, Building and Remodeling.
- 7. **# of wires** Confirm with NYSEG engineering department for system voltage, to determine how many primary underground URD cables will be needed by customer. See below.
  - 4.8kV requires 2 wires see pages 20 through 25 for specs
  - 7.62kV requires 1 wire see pages 20 through 25 for specs
  - Three phase primary service will require 3 wires for either 13.2kV or 4.8Kv

#### **DRAWING 1**



On a Customer Owned Riser Pole – Items "A" and "B" to be furnished and installed by customer.

OR

On a NYSEG Owned Riser Pole – Items "A" and "B" to be furnished and installed by NYSEG.

**NOTE:** If proposed riser pole is located along a public road, rigid steel conduit is **HIGHLY** recommended

#### Items furnished and Installed by NYSEG:

"C" – Pad mount Transformer (single or three phase)

"D" - Secondary Connectors

"E" - Primary Cable Terminations

#### **Items Furnished and Installed by Customer:**

"F" - Meter pan

"G" – Vault Pad Foundation – See pages 9 through 13 for single phase and pages 14 through 16 for three phase pad foundation specifications. Clearances from fences, shrubs, and structures see pages 17 & 18.

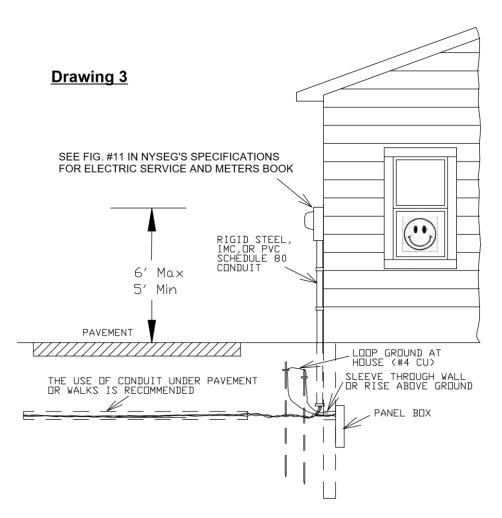
"H" – Trench, primary cable, and conduit (if used). <u>NOTE</u> – Customer to trench up to two feet from proposed NYSEG riser pole or stake. \*\*NO SWEEPS at riser pole\*\*

For direct buried cable installations, the bottom of the trench shall be 2" to 4" in depth. The first 6" of cover backfill shall be sand and or loam (with no stones larger than 1"). The remainder of the backfill shall be cleared of any rocks, stones, or other materials which could damage the cable. The minimum covering between the top of direct buried cables to the grade shall be 30" for 15kV and 36" for 35kV.

"I" – Trench, secondary (service) cable, and conduit (if used). Minimum depth of cable shall be 24" below grade when direct buried or 18" when in conduit.

#### UNDERGROUND SERVICE CONNECTIONS FROM OVERHEAD LINES SECT.4,PARA.18-26

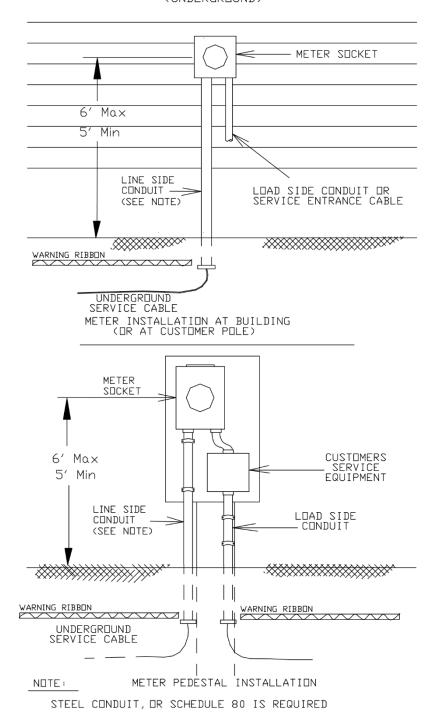
## IN NYSEG'S SPECIFICATIONS FOR ELECTRIC SERVICE AND METERS BOOK



WHERE NECESSARY TO PREVENT PHYSICAL DAMAGE TO DIRECT BURIED CONDUCTORS FROM ROCKS, SLATE, ETC., OR FROM VEHICULAR TRAFFIC ETC., DIRECT BURIED CONDUCTORS SHALL BE PROVIDED WITH SUPPLEMENTARY PROTECTION SUCH AS SAND, SAND AND SUITABLE RUNNING BOARDS, SUITABLE SLEEVES OR OTHER APPROVED MEANS.

#### **DRAWING 2**

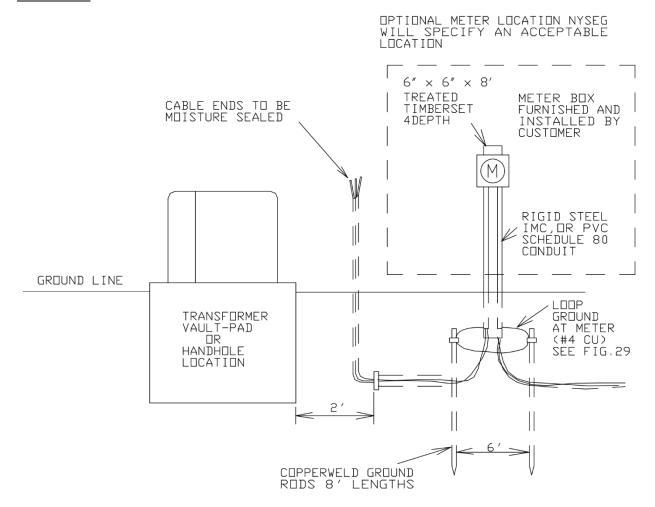
APPLICATION OF RIGID NON-METALLIC CONDUIT FOR LOW VOLTAGE SERVICE (UNDERGROUND)



# UNDERGROUND SERVICE CONNECTION FOR RESIDENTIAL DEVELOPMENTS SECT. 4, PARA. 34-36

THE SERVICE CABLE AND CONDUIT (IF USED) ARE NOT TO BE INSTALLED CLOSER THAN TWO (2) FEET FROM THE TRANSFORMER OR HANDHOLE LOCATION.

#### **DRAWING 4**

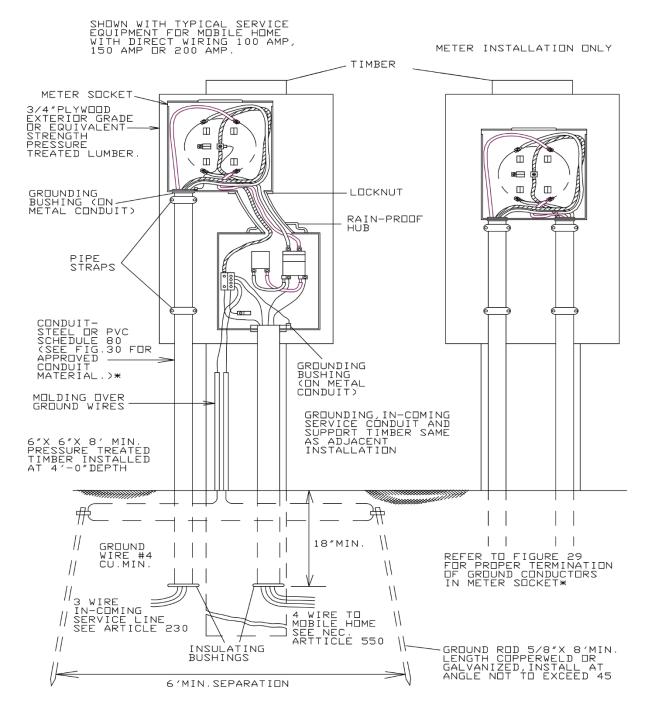


### Secondary (service URD cable between meter and building)

- Minimum of 15' extra cable is required at the transformer or hand hole location
- Minimum secondary cover requirements
  - 24" direct buried
  - 18" in PVC

#### **DRAWING 5**

#### INSTALLATION OF CUSTOMER CONSTRUCTED PEDESTAL



\*"SPECIFICATIONS FOR ELECTRIC INSTALLATIONS"

#### SIZES AND WEIGHTS OF SINGL

THE DIMENSIONS AND WEIGHTS SHOWN BELOW ARE BASED ON THE LARGEST AND HEAVIEST FOR THE RESPECTIVE KVA SIZE REPRESENTING THE FOLLOWING 1/2 MANUFACTURERS:

KUHLMAN COOPER HEVI-DUTY HOWARD GENERAL ELECTRIC ABB

#### 1Ø PADMOUNT TRANSFORMER

KVA	SIZE IN INCHES (A) (B) (C)	WEIGHT IN POUNDS (INCLUDES OIL)
	(SEE DWG "A" ON PAGE 8)	
25 50 100 167	34 X 36 X 32 34 X 36 X 34 34 X 36 X 38 34 X 36 X 46	1075 1287 1598 2200

THE DIMENSIONS AND WEIGHTS SHOWN BELOW ARE BASED ON THE LARGEST AND HEAVIEST FOR THE RESPECTIVE KVA SIZE REPRESENTING THE FOLLOWING 3/2 MANUFACTURERS:

PAUWELS COOPER
GENERAL ELECTRIC ABB
HOWARD

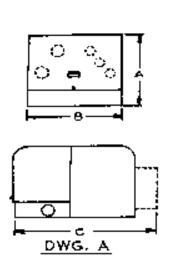
#### 3Ø PADMOUNT TRANSFORMERS (UP TO 35KV)

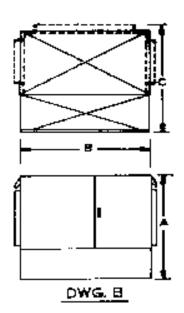
### JP TO 35KV) 3Ø PADMOUNT STEP TRANSFORMER

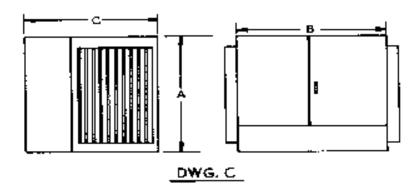
KVA	SI	ZE IN INC	WEIGHT POUNDS	
	(A)	(B)	(C)	(INCLUDES OIL)
(SE	E DWGS	B, C ON	PAGE 8)	
150 300	52 55	66 69	64 69	4700 5400
500	56	71	69	6700
750 1000	65 68	72 78	71 72	9400 11000
1500 2000	70 76	80 85	72 84	13000 15500
2500	80	95	92	18000

KVA	SI	SIZE IN INCHES						
	(A)	(B)	(C)	(INCLUDES OIL)				
	(SEE DW	GS B, C ON	N PAGE 8)					
500	60	76	62	8700				
750	69	82	66	11500				
1000	76	89	68	13600				
1500	80	95	70	17200				
2000	85	95	80	18000				
2500	89	95	86	22000				

# SIZES AND WEIGHTS OF SINGLE AND THREE-PHASE PADMOUNTED TRANFORMERS (CONTINUED)







**REFERENCE PAGE 7 FOR DIMENSIONS** 

#### TOP VIEW **DRAWING 6 EXCAVATION AREA** GROUND ROD PREFERRED LOCATION LEAVE SUFFICIENT LENGTH OF #2 STR COOPER GROUND WIRE FOR NYSEG TO 43 CONNECT TO TRANSFORMER GROUND, MINIMUM 3' 0 20" LENGTH ABOVE PAD PAD OPENING **OPENING** 0 TO FACE ROAD/DRIVEWAY **GROUND LOOP** #2 STR COOPER MIN 1' AWAY FROM TRANSFORMER 11111111111111 **DRAWING 6A GROUND LEAD** MIN 3' ABOVE FINAL GRADE OPENING 3" ABOVE FINAL GRADE **OPENING** FRONT 6" **GROUND RING** #2 BARE COOPER PREFERRED 2 MIN 1' AWAY FROM GROUND ROD TRANSFORMER LOCATION **EXCAVATION AREA** MIN 1' AWAY FROM TRANSFORMER

#### INSTALLATION OF FIBERGLASS BOXPAD FOR SINGLE PHASE TRANSFORMERS

#### Notes:

- 1. \*\*BOX PAD MUST BE NO MORE THAN 10 FT OFF ROAD/DRIVEWAY\*\*
  - Vault pad shall be located a minimum of 4 ft. from a building and 10 ft. from doors and windows

TAMP EARTH WELL AT

BOTTOM OF EXCAVATION

"OF #2 CRUSHED STONE

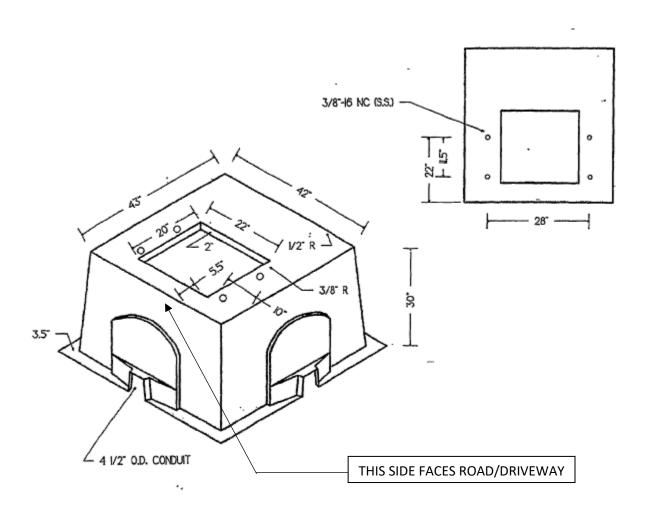
2. Vault pad shall be installed level and placed on #2 crushed stone (4" minimum depth)

SIDE VIEW

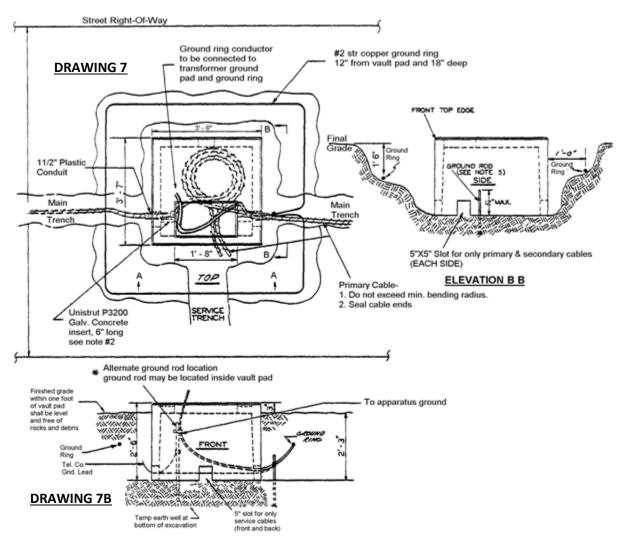
- 3. Grounding One ground rod is to be installed, 1' away from pad with #2 bare copper loop, 1' away all around from pad is required. See above drawings 6 & 6A and drawings 7 & 7B on page 11 for preferred ground rod locations.
- 4. The transformer shall be secured to the foundation by hold-down cleats with a galvanized 9/16" steel washer, a galvanized ½" steel lock washer and a 3/8" x 1½" long galvanized steel bolt

The vault pad will accommodate single phase pad mount transformers up to and including 100KVA transformers. For larger transformers, actual tank measurements must be verified with NYSEG before installation.

# INSTALLATION OF FIBERGLASS BOXPAD FOR SINGLE PHASE TRANSFORMERS (CONTINUED)



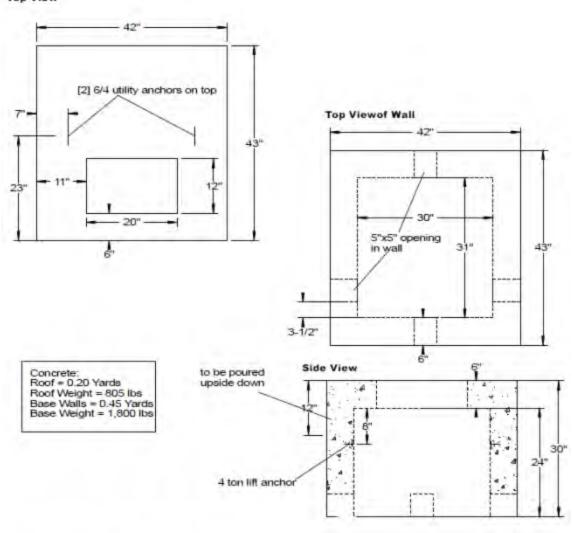
## INSTALLATION OF CONCRETE VAULTPADS FOR SINGLE PHASE TRANSFORMERS (CONTINUED)



### INSTALLATION OF CONCRETE VAULTPADS FOR SINGLE PHASE TRANSFORMERS (CONTINUED)

#### **DRAWING 8**

**Top View** 

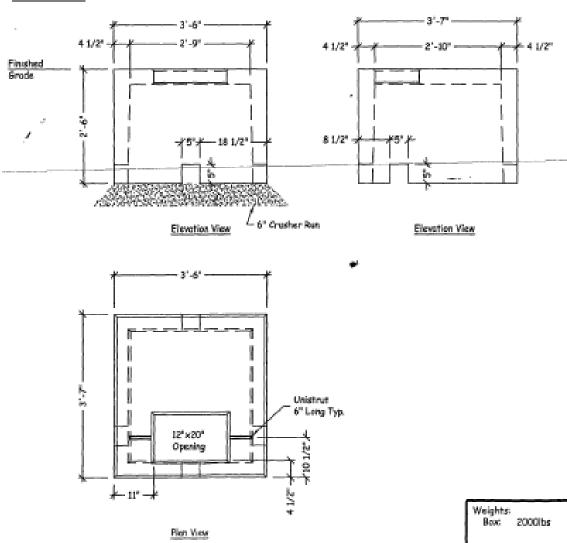


#### SPECIFICATIONS

Concrete Min. Strength: 4,000 psi at 28 days Reinforcement: #4 bar / ASTM A615 Air Entrainment: 6% Weight: 2,600 lbs

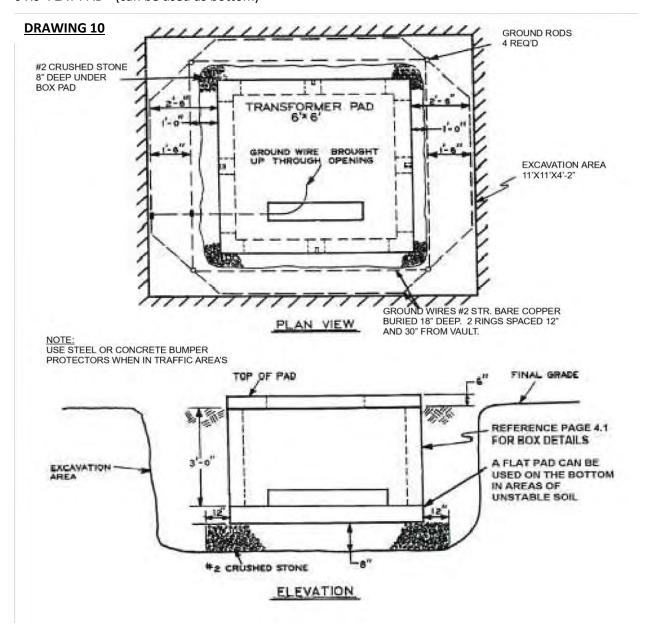
# INSTALLATION OF CONCRETE VAULT PADS FOR SINGLE PHASE TRANSFORMERS (CONTINUED)

#### **DRAWING 9**

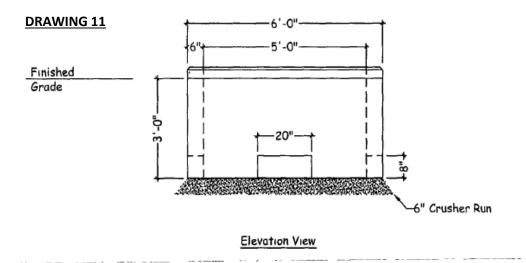


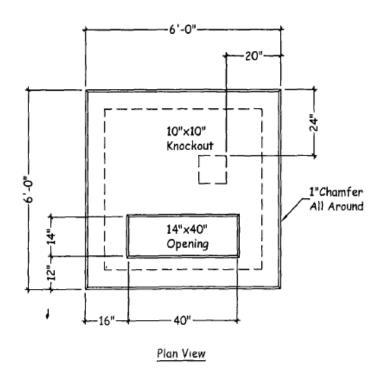
### INSTALLATION OF THREE PHASE PADMOUNTED TRANSFORMERS ON VAULT PAD (CONTINUED)

6'X6'X3' BOX PAD 6'X6' FLAT PAD - (can be used as bottom)



## INSTALLATION OF THREE PHASE PADMOUNTED TRANSFORMERS ON PRECAST FOUNDATIONS (CONTINUED)

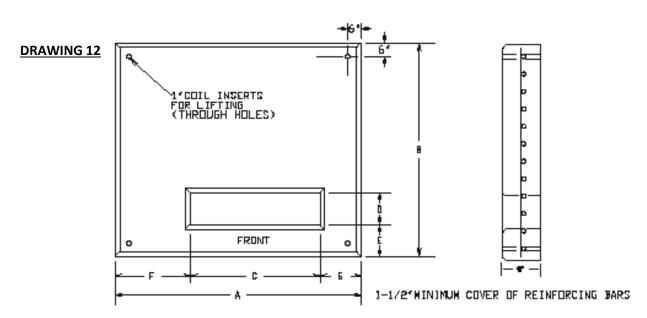




Weights.

Box: 4800lbs Cover: 2370lbs

## <u>DIMENSIONS OF POURED OR PRECAST CONCRETE PADS FOR THREE PHASE</u> <u>PADMOUNTED UTILIZATION TRANSFORMERS (CONTINUED)</u>



	DIMENSIONS OF POURED OR PRECAST CONCRETE PADS													
	TRAN	SFORMER	RATING		DIMENSIONS IN INCHES									
TYPE	KV	PHASE	KVA	A	В	U	D	E	F	G	WEIGHT	SS#		
Util	15/35	1	25-167*	50	50	24	12	7	13	13	750	262-803-00		
Util	15	3	75-500	72	72	40	16	12	16	16	2367	262-776-00		
Util	15	3	750-2500	89	75	50	17	14	21	18	3100	262-781-00		
Util	35		75-1500	89	75	50	17	14	21	18	3100	262-781-00		
Util	35	3	2500	96	96	60	24	12	24	12	4300	262-782-00		
Step		1/3	250-500	76	71	30	15	22.5	23	23	2600	262-790-00		
Step		3	500-1500	95	89	43	17	20	26	26	4100	262-791-00		
Step		3	1500-2500	96	96	62	17	20	17	17	4300	262-792-00		
Step		3	3750-5000	120	120	80	24	20	20	20	6500	262-793-00		

Used for conversion of a submanible transformer installation to a padmanated installation. This unit is 4" thick, not 6".

#### Notes

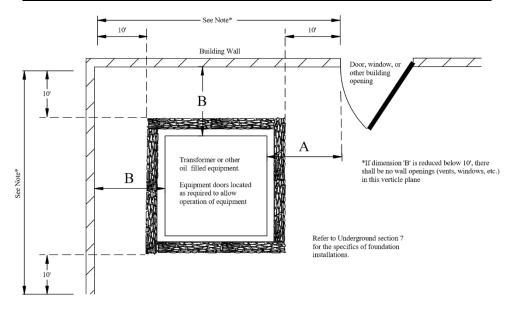
- 1. Reinforce with grade 60 f4 hers on 6" centers both ways
- 2. 4000 PSI concrete at 28 days
- 3. Top and Bottom to be smooth finish

FLAT PADS

#### **Clearance of Oil Filled Equipment from Structures**

The NESC recommends the minimizing of fire hazards when installing oil filled equipment by utilizing a less flammable liquid, space separation, absorption beds, fire resistant barriers, etc. The code does not provide specific minimum footages or the reductions that can be obtained by using these methods. Therefore, based on NYSEG's operating history, and NFPA and other industry references the following recommendations have been developed for the installation of oil filled pad mounted equipment.

Item	Description	Footage
А	Clearance from doors and windows	10'
В	Clearance from structure walls	10'
B (reduced)	Reduced Clearance from walls (*see notes below)	4'



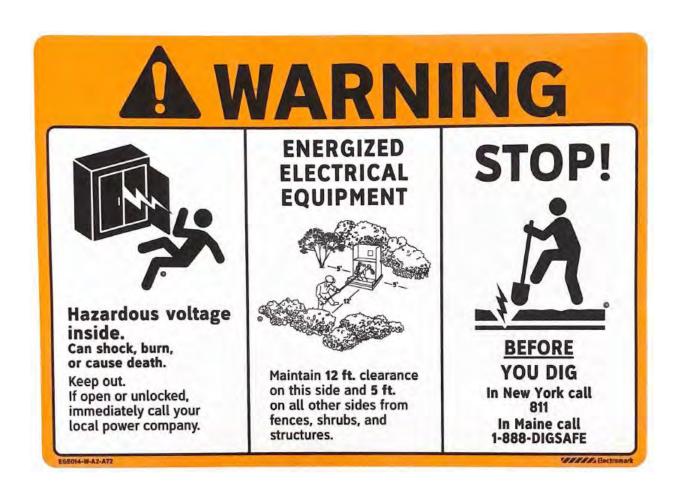
#### Notes:

- The reduced clearance on 'B' from 10' to 4' is based on the use of oil containment (using vaults under mini pads and gravel containment on larger units) to remove and capture oil in the event of rupture and fire. To provide sufficient volume for oil containment, the depth of gravel under a flat pad installation must be increased to 3'.
- NYSEG bases the above clearances on the following Standard mineral oil, 5 MVA maximum size to minimize oil capacity, all standard building materials are acceptable.
- The 'A' clearance from doors and windows of 10' should provide sufficient separation for access and egress.
- While not a standard NYSEG practice, clearances may also be reduced using fire walls or low flammability insulating fluid. These decisions would be made on a case-by-case basis.

#### Clearance of Oil Filled Equipment from Fences, Shrubs, and All Other Structures (Continued)

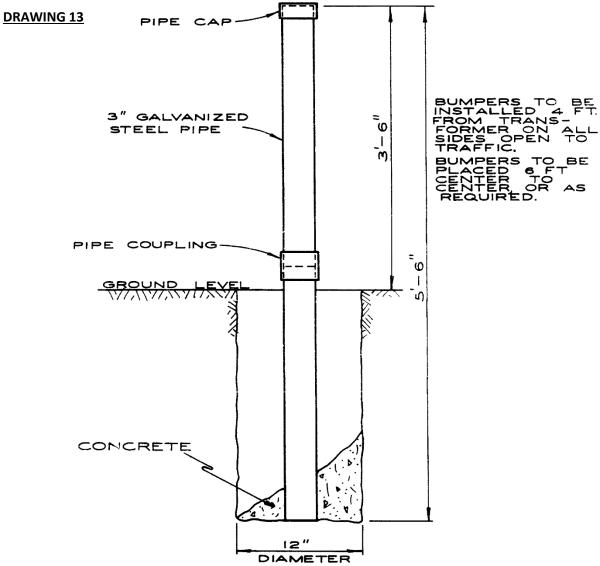
Maintain <u>12 ft.</u> clearance on front side of transformer and <u>5 ft.</u> on all other sides of transformer from fences, shrubs, and all other structures. See WARNING sticker below that is put on all NYSEG pad mounted transformers.

NOTE: ANY OBSTRUCTIONS MAY BE DAMAGED OR REMOVED AT NYSEG'S DISCRETION DURING SERVICE RETORATION OR MAINTENANCE



#### **BUMPER PROTECTIONS**

#### **DETAIL OF BUMPER PROTECTION**



MATERIAL REQ'D-2 PCS. 3" PIPE (OR RIGID CONDUIT)
WITH I-PIPE CAP AND COUPLING.
NOTE

3" STEEL BEAMS OR RAILROAD RAILS OF THE SAME HEIGHT ARE ACCEPTABLE.

FOR CUSTOMER INSTALLATIONS SEE SP-1099

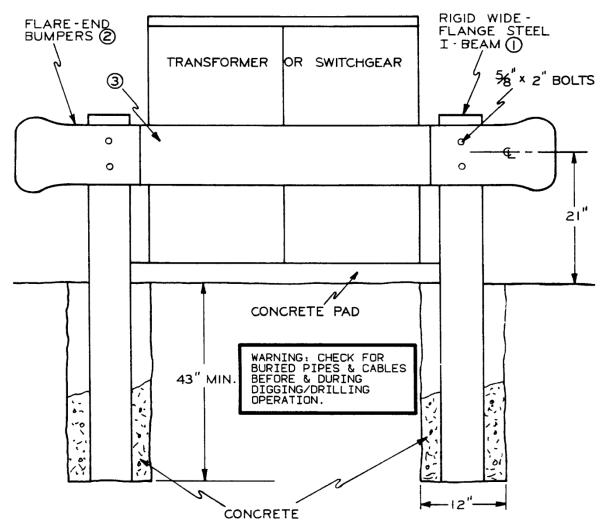
#### **BUMPER PROTECTIONS (CONTINUED)**

#### DETAIL OF BUMPER PROTECTION

### NOTES

- ₩ 6 x 8.5 I BEAM IN 5'-9" LENGTHS.
- 2 12 GAUGE FLARED-END IN 20" LENGTHS.
- 3 12 GAUGE GALVANIZED W-BFAM IN 12'-6" LENGTHS-MAY NEED TO CUT TO FIT APPLICATION.

#### **DRAWING 14**



NOTE: ALLOW ENOUGH DISTANCE BETWEEN BUMPER PROTECTION AND EQUIPMENT IN ORDER TO OPEN DOORS AND OPERATE EQUIPMENT.

Rev. 12/1/2023~PFC

#### **CUSTOMER OWNED MEDIUM VOLTAGE CABLES**

Customers that require 15kV and 35kV URD or medium voltage power cable, frequently have trouble in obtaining Kerite or Okanite cables and have had trouble in finding another manufacturer.

Prysmian, Kerite and Okonite are the major manufacturers supplied on our system; however, customers may purchase the other manufacturers listed for installation in their own private facilities.

These cable manufacturers are accepted by NYSEG at this time:

Alcoa*	Prysmian (form	erly Pirelli) Anaconda*
Reynolds*	Nehiring	Essex
Olex	Condumex	Gaon Cable ((formerly Heesung), fonnerly Kutje))
Kerite	Okonite	Southwire - Furakowa*
GPT	BICC	Nexans
Daewon	Daesung***	American Insulated Wire (EPR insulated)

<sup>\*</sup> These are former manufacturers of medium voltage cables

The cable manufacturers **NOT** accepted by NYSEG at this time:

Viakon	Hetna	Canada Wire
Cablec	Habirline	Crown Wire
Aetna	<b>Huston Wire</b>	Columbia Wire
Kew Cable (Ko	rean)	

This letter is not to be considered as a blanket acceptance. It is only a list of possible suppliers. We will want a sample of the proposed wire to determine identification markings, strip ability and conformance to industry standards. No sample is required from Kerite or Okonite, or if the cable has the same specifications that have been previously accepted from that manufacturer.

King Wire, Omnicable and Futronix are supply houses and not manufacturers. Be sure to determine the manufacturer of cable from either of these suppliers.

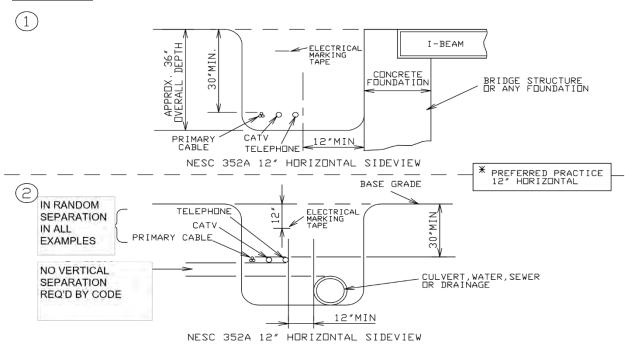
\*\*PLEASE NOTE THAT THE INSPECTION AGENCIES MAY REQUIRE A "UL" LABEL ON THE CABLE\*\*

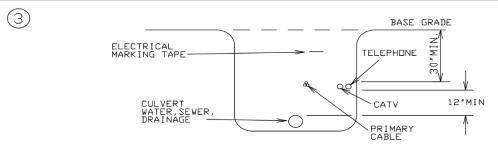
<sup>\*\*</sup> Confirm cable supplied by Daewon has compressed stranding, not compact stranding. NYSEG's normal connectors do not fit compact stranding. Do not accept compact stranded cable from any supplier without special arrangements.

<sup>\*\*\*</sup> Daesung offers semiconducting tape as an option for the conductor shield. This cable would not be acceptable with that option. Only extruded shields will be allowed for new installations.

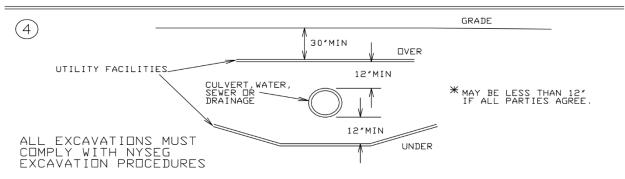
#### CONDUCTOR CLEARANCE FROM OTHER UNDERGROUND STRUCTURES

#### **DRAWING 15**









NESC 352B CROSSING 12" SIDEVIEW

#### PRIMARY CABLE - REQUIREMENTS AND CONSTRUCTION

NOTE: Only those cables meeting NYSEG current internal cable specification (SP4294) will be suitable for takeover by NYSEG at a future date. If the CUSTOMER will be retaining ownership of the cable, see the minimum requirements below.

The following is NYSEG's minimum requirements for solid dielectric insulated cable suitable for use on **CUSTOMER** electric power systems at voltages of 15kV or 35kV. The **CUSTOMER** supply NYSEG with the selected manufacturer's specifications and receive approval prior to ordering cable.

The cables <u>shall</u> be manufactured in accordance with the most recent applicable\_Insulated Cable Engineers Association (ICEA) and Association of Edison Illuminating Companies (AEIC) standards or be a NYSEG approved equivalent. AEIC <u>shall</u> take preference over ICEA in cases of conflicts

The voltage rating of the cable shall be as required by the system with the minimum acceptable voltage class being 15kV. The minimum required conductor size is, #2 AWG concentric or compressed stranded copper or aluminum for 15kV, and 1/0 AWG concentric or compressed stranded copper or aluminum for 35kV. All conductors shall be stranded, annealed copper or "EC" grade aluminum as per current ICEA and National Electric Manufacturers Association (NEMA) standards.

The cable shall have an extruded strand shield.

The Cable shall have an extruded insulation layer of cross-linked polyethylene (XLPE), tree retardant crosslinked polyethylene (TRXLPE), or an ethylene propylene rubber (EPR) based compound suitable for use at conductor temperatures listed in the current AE-IC standard CS6.

#### Insulation thickness shall be as follows:

Cable Voltage Rating	Minimum Average Thickness
15kV	175 mils
35kV	345 mils

The insulation shall be covered with an extruded insulation shield of a design as dictated by the appropriate current AEIC standard.

#### **Underground Construction:**

NOTE: In accordance with industrial code #53, the CUSTOMER shall notify NYSEG and other utilities prior to digging.

**CUSTOMERS** who will be installing the primary cable in a common trench with telephone or cable TV cables (commonly referred to as joint trench) should adhere to the requirements of the NESC article 354. To paraphrase, if bare concentric neutral or semiconducting jacketed cables are direct buried, they can be installed in the trench with no intentional separation from the other facilities (random-lay). If the primary cable is installed in conduit, or an insulating jacket is used, the NESC **may** require either a one-foot separation between the primary cable and the other facilities, or the addition of a bare grounding conductor adjacent to the primary cable. Contact NYSEG for additional details prior to installing cable under these circumstances.

The **CUSTOMER'S** privately-owned underground system will commence at a **CUSTOMER** owned riser on a NYSEG designated pole, or at a NYSEG furnished and installed enclosure. The **CUSTOMER** can extend the single phase or three phase primary system using either a direct buried, or a conduit and manhole underground system. The **CUSTOMER** will install all primary cable, trench, conduit, and manholes (if necessary) between the interface point and the NYSEG installed transformer. The voltage class of the cable shall be in accordance with the operating voltage of the area to be served with 15kV being the minimum acceptable. In those area's designated for future conversion to a higher voltage, NYSEG may have additional requirements. The **CUSTOMER'S** primary cable specifications must be submitted to and accepted by\_NYSEG prior to ordering. The **CUSTOMER** may be required to supply NYSEG with a primary cable sample to assist in reviewing the acceptance of the cable, and to provide sizing information for terminations. **CUSTOMERS** installing unacceptable cable may be charged for the installation of terminations.

For direct buried primary cable installations, the minimum depth of burial shall be 30 inches for 15,000-volt cable and 36 inches for 35,000-volt cable. Depth of burial may be reduced as per the National Electric Code article 710-4b. The cable shall be protected above and below with back-fill free from stones or other material that will damage the cable. The remainder of the trench will also be back filled with select fill. The ends of all CUSTOMER installed cable shall be sealed by the CUSTOMER to prevent contamination of the cable with dirt or moisture. NYSEG reserves the right to inspect a CUSTOMER'S primary cable installation prior to back filling. Where a CUSTOMER'S cable may be used to serve additional future CUSTOMERS, NYSEG may impose more stringent design and equipment requirements.

#### PRIMARY URD CABLE EXAMPLE



### Okoguard® URO-J

#### 15kV Underground Primary Distribution Cable-Jacketed Red Identification Stripes

Filled Strand Aluminum Conductor/105°C Rating 100% and 133% Insulation Levels



Okoguard is Okonite's registered trade name for its exclusive ethylene-propylene rubber (EPR) based, thermosetting compound, whose optimum balance of electrical and physical properties is unequaled in other solid dielectrics. Okoguard Insulation, with the distinctive red color and a totally integrated EPR system, provides the optimum balance of electrical and physical properties for long, problem free service.

The triple tandem extrusion of the screens with the insulation provides optimum electrical characteristics.

The compressed conductors are filled with a water swellable agent. This construction slows the migration of water through the strands in the event of a mechanical dig-in followed by external exposure to water.

An insulation screen of ethylene-propylene rubber is extruded over the insulation. The copper concentric wires are uniformly spaced around the insulation screen. The overall polyethylene jacket provides protection against mechanical damage and corrosion.

Product identification is provided through the use of three red stripes placed 120° apart in the black jacket, with an NESC lightning bolt.

Okoguard URO-J cables provide maximum circuit longevity in underground residential distribution systems. They can be buried directly or installed in underground ducts or conduits.

#### Specifications

Central Conductor: Aluminum per ASTM B-609, Class B stranded per B-231.

Filled Strand: Water swellable agent meets or exceeds ICEA T-31-610 water penetration resistance and ANSVNEMA dass A connectorability requirements.

Conductor Screen: Extruded semiconucting ethylene-propylene rubber meets or exceeds the requirements of ICEA S-94-649, AEIC CS8, and CSA C68.5.

Insulation: Extruded Okoguard meets or exceeds the requirements of ICEA S-94-649, AEIC CS8, and C68.5.

Insulation Screen: Extruded semiconducting ethylene-propylene rubber meets or exceeds the requirements of ICEA S-94-649, AEIC CS8, and CSA C68.5.

Concentric Conductor: Bare copper wires. Jacket: Black Okolene with red extruded stripes meets or exceeds the requirements of ICEA S-94-649, AEIC CS8, and CSA C68.5 for polyethylene jackets.

- Triple tandem extruded, all EPR system.
- Okoguard cables meet or exceed ICEA. standards.
- Meets RUS 1728 204 for cables with filled. strand or solid conductor and 133% insulation level.
- 105°C continuous operating temperature.
- 140°C emergency rating.
- 250°C short dircuit rating.
- Excellent corona resistance.
- Low dielectric constant and power factor.
- Screens are clean stripping.
- Exceptional resistance to "treeing".
- Filled strand conductor.
- Moisture resistant.
- Overall jacket provides extended life.
- Excellent resistance to most chemicals.
- Can be listed by UL as Type MV-90 on Special Orders.
- CSA C68.5 listed, LTGG (-40°C), SR.
- Design Options:

Additional conductor sizes

Copper central conductor

Copper flat strap concentric neutral

Product identification via colored jackets.

Semiconducting jackets.

Improved Temperature Rating.

Okoguard insulation system has been tested and qualified for operation at 105°C continuous and 140°C emergency operating

 Minimum installation temperature of -40°C



Semiconducting EPR

**Eightning** both

Concentric Conductor-Bare Corpor Wires
Enospsulating Jacket-Okdene
with Extruded ID Stripes & NESC

#### PRIMARY URD CABLE EXAMPLE (CONTINUED)

Okoguard URO-J 15kV Underground Primary Distribution Cable-Jacketed **Red Identification Stripes** 

Filled Strand Aluminum Conductor/105°C Rating 100% Insulation Level





Okoguard Insulation: 175 mils 100% Insulation Level **FULL NEUTRAL** ▲ 163-23-2060 0.99 NYSEG PREFFERED CABLE 2(7x) 0.68 30 0.75 10x14 517 626 170 125 185 135 163-23-2066 1(19x) 0.72 30 0.79 13x14 1.03 588 698 195 210 155 145 ▲ 163-23-2072 1/0(19x) 0.76 30 0.83 16x14 1.07 667 778 220 160 235 175 163-23-2075 2/0(19x) 0.80 30 0.87 13x12 1.14 793 910 250 270 163-23-2078 3/0(19x) 0.85 30 0.92 16x12 1.19 910 1029 210 310 230 4/0(19x) 0.90 30 0.98 250(37x) 0.97 30 1.04 163-23-2081 14x10 16x10 1.29 1131 1238 320 240 350 260 270 380 1270 1418 350 295 350(37x) 1.07 40 1.17 163-23-2090 18x.1078 1.50 1793 425 460 1603 340

### APPENDIX 10

Luminaire Schedule

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#### **Luminaire Schedule**

#### GENERAL NOTES:

- Provide luminaire shop drawings for Lighting Consultant, Architect, and Owner approval prior to fabrication. For all continuous run luminaires, including track, manufacturer shall submit a layout drawing for run lengths specified on architectural drawings during submittal review for Lighting Designer and Architect approval prior to fabrication.
- Architect shall verify all luminaire body, trim, flange, pole, track and any other visible accessories/hardware finishes. All visible conduit, junction boxes, canopy plates, hardware, gear containers, etc. shall be painted to match adjacent surfaces (Architect to verify).
- Refer to electrical drawings for voltage information. Electrical contractor shall verify all voltages with Electrical Engineer before placing any orders or proceeding with any work.
- Electrical contractor shall verify emergency operation of all luminaires with Electrical Engineer before placing any orders or proceeding with any work. Refer to electrical drawings for all emergency or code-related requirements.
- Contractor shall verify and coordinate recessed luminaire installation and mounting with architectural details, housing type, field conditions, and ceiling system details including grid type and flange requirements such that there are no light leaks between luminaire and ceiling system and luminaire can accommodate ceiling thickness.
- Contractor to verify and coordinate all other luminaire installation and mounting with architectural details and field conditions.
- Contractor shall verify mounting details with architect and/or architectural drawings and order all mounting components necessary for installation of luminaire at no additional cost, even if such components are not specifically called for in the contract documents.
- Provide adequate and sturdy support for each luminaire. Contractor shall be responsible for verifying weight and mounting method of all luminaires and furnish and install suitable supports. Luminaire mounting assemblies shall comply with all local seismic codes and regulations.
- Provide all luminaires as shown complete with all light sources, completely wired, controlled and securely attached to supports.
- Where both narrative and/or pictorial luminaire descriptions are provided, the written description shall take precedence and prevail. Contractor to confirm via RFI process with lighting designer and architect.
- Locations of luminaires are shown diagrammatically. Verify exact location and spacing with architectural drawings and designer at the site during installation. Notify Owner about field conditions at variance with Contract Documents before commencing installation.
- At the completion of construction, clean lenses and reflectors of all luminaires so as to render them free of any material, substance or film foreign to the luminaire. Blemished, damaged, or unsatisfactory luminaires shall be replaced in a satisfactory manner.

- When applicable, contractor shall review existing circuiting, verify new loads and panel capacity. Contractor shall notify Owner if a conflict between design documents and field conditions occur.
- Contractor shall refer to electrical drawings for information on controls and dimming requirements, and coordinate luminaire and control accessories required for a fully functioning system.
- Contractor to provide line item pricing at bid phase or earlier as requested by lighting designer or architect per type with labor and installation shown as separate line items.
- All 0-10V dimming gear provided shall be isolated to avoid AC interferance on the dimming line.
- All LED sources within the same luminaire Type shall be within two (2) MacAdam ellipses/steps of each other.
- For all adjustable luminaires provide labor and materials for final aiming and locking of all adjustable luminaires under the Architect's supervision. Aiming shall take place immediately before building
- is turned over to Owner, after regular working hours where required. Contractor shall coordinate necessary personnel and equipment
- All luminaires shall have a minimum 3-year warranty.
- All lighting systems shall be ordered with necessary gear, power feeds and mounting accessories as required for installation of a complete system.
- Locate remote gear in a secure, concealed, accessible and well-ventilated location in compliance with manufacturer's directions.
- All luminaires and workmanship shall be guaranteed free of defects and fully operational for a minimum of one year after the acceptance of the project by the Owner unless otherwise indicated in the specifications. Any luminaires or workmanship found to be defective during the warranty period shall either be fixed or replaced by the Contractor at no cost to the Owner.
- The luminaires and workmanship must be in accordance with and meet the standards and regulations of the following: Underwriters Laboratories, National Electric Code, & Local Building and Life Safety Code Agencies.
- Replace all burned-out or inoperative sources and gear in all luminaires before the building is accepted by the Owner so that all luminaires will be in first class operating condition.
- For pendant mounted luminaires provide adequate cord length to suspend luminaires at heights shown on architectural drawings or indicated in the lighting fixture schedule.
- Electrical contractor shall field-verify each run length of continuous fixtures prior to ordering.
- Provide luminaire samples per type as requested in the Fixture Schedule. Supply a completely operable luminaire with cord and plug for standard 120 Volt service.
- Code required accessories and controls such as but not limited to motion sensors, photocell controls, dimming controls, etc. to be specified and coordinated by Electrical Engineer.
   Contractor shall follow all manufacturer installation instructions and inform the Architect if there is a conflict with design documents.

ТҮРЕ	LOCATION	DESCRIPTION	FIXTURE FINISH	LAMPS/SOURCE	POWER SUPPLY/ DRIVER	INPUT WATTS	INPUT WATT UNITS	LISTING	MANUFACTURER	NOTES		
INTERIOR LUMI	FERIOR LUMINAIRES											
F1	Bedford House Throughout, Carriage Barn Exhibits 102	Ceiling mounted 2" aperture round adjustable LED monopoint with 2.75" diameter micro-canopy, 40-degree optic, 360-degree rotation, 90-degree tilt, black cross baffle, and 1100 delivered lumens. Fixture shall be line voltage with die-cast aluminum housing and powder-coated finish.  Dimensions:  Fixture: 2" Dia x 3 1/4" H  Canopy: 2 3/4" Dia x 2 3/8" H recessed (1/16" H visible)	White Architect shall verify	LED 3000K 80+ CRI L70 @ 50,000 Hours 1100 LM Delivered	Integral DIM ELV	14.0W	EA	UL Listed for Dry Location	Lumenture T50 Track Heads T50-30K-1100-40-W-MC + Accessories: T50-CB	- Fixture finish to be verified by Architect Contractor shall verify and coordinate luminaire installation and mounting with architectural details, housing type, field conditions, and ceiling system details including ceiling thickness, grid type, flange and insulation clearance requirements Electrical Engineer/Contractor to verify compatibility of light source, gear and dimming system Electrical Engineer shall confirm all EM requirements Fixture shall have a minimum 5-year warranty.		
F1A	Carriage Barn Exhibits 101, 101A, 102	Same as F1, except fixture shall be mounted to track.  Dimensions: 2" Dia x 3 1/4" H	White Architect shall verify	LED 3000K 80+ CRI L70 @ 50,000 Hours 1100 LM Delivered	Integral DIM ELV	14.0W	EA	UL Listed for Dry Location	Lumenture T50 Track Heads T50-30K-1100-40-W-J + Accessories: T50-CB	- Fixture finish to be verified by Architect F1B track and F1A luminaires shall be compatible. Contractor to provide all necessary lengths, feeds, connectors, supports, and other components for complete and code compliant installation Electrical Engineer/Contractor to verify compatibility of light source, gear and dimming system Electrical Engineer shall confirm all EM requirements Fixture shall have a minimum 5-year warranty.		
F1B	Carriage Barn Exhibits, Gift Shop 105B	Ceiling surface-mounted two-circuit J-type line voltage track system with 40 amp capacity, solid copper conductors with insulators in 14-gauge extruded field-cuttable aluminum channels. Track shall have power feeds and connection accessories constructed of polycarbonate with galvanized steel back plates.  Dimensions:  Length Per Drawing x 1 3/8" W x 13/16" H	Black Architect shall verify	N/A	N/A	N/A	N/A	UL Listed for Dry Location	Lumenture JT 2-Circuit Line Voltage Track JT-Length Per Drawing-B Mounting and Power Accessories as Required	- Fixture finish to be verified by Architect F1B track and F1A and F1C luminaires shall be compatible. Contractor to provide all necessary lengths, feeds, connectors, supports, and other components for complete and code compliant installation. Track shall be equipped with Wattage-limiting circuit breaker equipment for each run of track Track shall be equipped with wattage-limiting circuit breaker equipment for each run of track. Allow for twice the wattage of fixtures shown on the electrical drawings/maximum Wattage as allowed by code Electrical Engineer/Contractor to verify compatibility of light source, gear and dimming system Electrical Engineer shall confirm all EM requirements Fixture shall have a minimum 5-year warranty.		
F1C		NOT USED										
F1D	Bedford House Discovery Zone Kitchen (B-6)	Same as F1, except ceiling mounted with deep canopy collar over surface mounted j-box.  Dimensions: Fixture: 2" Dia x 3 1/4" H Canopy: 4 5/8" Dia x 2" H	White Architect shall verify	LED 3000K 80+ CRI L70 @ 50,000 Hours 1100 LM Delivered	Integral DIM ELV	14.0W	EA	UL Listed for Dry Location	Lumenture T50 Track Heads T50-30K-1100-40-W-SC-JA-18-JA-18-W-Cover + Accessories: T50-CB	- Fixture finish to be verified by Architect Luminaire shall be mounted over a surface-mounted junction box (by electrician) Electrical Engineer/Contractor to verify compatibility of light source, gear and dimming system Electrical Engineer shall confirm all EM requirements Fixture shall have a minimum 5-year warranty.		
F2		NOT USED										

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ТҮРЕ	LOCATION	DESCRIPTION	FIXTURE FINISH	LAMPS/SOURCE	POWER SUPPLY/ DRIVER	INPUT WATTS	INPUT WATT UNITS	LISTING	MANUFACTURER	NOTES
F3	Bedford House Ballroom, Porch	Recess mounted 2" aperture round adjustable LED downlight in die-cast aluminum housing with powder-coated finish and knife edge trim with 35-degree tilt. Fixture shall have 60-degree optic and 1600 delivered lumens.  Dimensions: Fixture: 3 3/4" Dia x 4 7/8" H Housing: 11" L x 8" W x 5" H	White Architect shall verify	LED 3000K 80+ CRI L70 @ 50,000 Hours 1600 LM Delivered	Integral DIM 0-10V	17.0W	EA	UL Listed for Damp Location	Lumenture DLA60 2" Adjustable Downlights DLA60-30K-60-W-W-R-Z-400-C	- Fixture finish to be verified by Architect Contractor shall verify and coordinate luminaire installation and mounting with architectural details, housing type, field conditions, and ceiling system details including ceiling thickness, grid type, flange and insulation clearance requirements If required based on existing field conditions, provide IC and/or Airtight housing as required for installation in an insulated ceiling. Contractor to provide as required based on ceiling type and local codes Electrical Engineer/Contractor to verify compatibility of light source, gear and dimming system Electrical Engineer shall confirm all EM requirements Fixture shall have a minimum 5-year warranty.
F3A	Carriage Barn Entrance, Ticketing, Gift Shop	Same as F3, except fixture shall have 950 delivered lumens.  Dimensions: Fixture: 3 3/4" Dia x 4 7/8" H Housing: 11" L x 8" W x 5" H	White Architect shall verify	LED 3000K 80+ CRI L70 @ 50,000 Hours 950 LM Delivered	Integral DIM 0-10V	8.5W	EA	UL Listed for Damp Location	Lumenture DLA60 2" Adjustable Downlights DLA60-30K-60-W-W-R-Z-200-C	- Fixture finish to be verified by Architect Contractor shall verify and coordinate luminaire installation and mounting with architectural details, housing type, field conditions, and ceiling system details including ceiling thickness, grid type, flange and insulation clearance requirements If required based on existing field conditions, provide IC and/or Airtight housing as required for installation in an insulated ceiling. Contractor to provide as required based on ceiling type and local codes Electrical Engineer/Contractor to verify compatibility of light source, gear and dimming system Electrical Engineer shall confirm all EM requirements Fixture shall have a minimum 5-year warranty.
F4	Mechanical 222, Stair 218	4'-0" L surface-mounted LED strip light with wraparound lens. Housing is die and brake-formed, cold gauge steel housing and ends with knockouts and frosted extruded micro-grooved round polycarbonate lens. Fixture shall have integrated occupancy sensor and 1948 delivered lumens.  Dimensions:  44 7/8" L x 2 1/16" W x 2 7/8" H	White Architect shall verify	LED 3000K 80+ CRI L80 @ 50,000 Hours 1948 LM Delivered	Integral DIM 0-10V	13.7W	EA	UL Listed for Damp Location	Visioneering LCOMN LCOMN48-LED830K020LUNV-B39-V68	- Fixture finish to be verified by Architect Luminaire shall be mounted over a recessed junction box (by electrician) Electrical Engineer/Contractor to verify compatibility of light source, gear and dimming system Electrical Engineer shall confirm all EM requirements Fixture shall have a minimum 5-year warranty.
F4A	Bedford House Stairs	Same as F4, except fixture shall be 2'-0" length with 1927 delivered lumens.  Dimensions:  22 7/8" L x 2 1/16" W x 2 7/8" H	White Architect shall verify	LED 3000K 80+ CRI L80 @ 50,000 Hours 1927 LM Delivered	Integral DIM 0-10V	14.4W	EA	UL Listed for Damp Location	Visioneering LCOMN LCOMN24-LED830K020LUNV-B39-V68	- Fixture finish to be verified by Architect Luminaire shall be mounted over a recessed junction box (by electrician) Electrical Engineer/Contractor to verify compatibility of light source, gear and dimming system Electrical Engineer shall confirm all EM requirements Fixture shall have a minimum 5-year warranty.
F4B		NOT USED								
F5		NOT USED								
F6	Bedford House Ballroom	Surface mounted linear LED cove light with asymmetrical 25-degree optic, 624 delivered lumens per foot and side feed and external mounting clip. Housing is one-piece extruded aluminum channel with cast aluminum end caps and powder coated finish, extruded high transmission optic lens, and 8% transmission loss.  Fixtures shall have CREE LEDs mounted on robust platform.  Dimensions:  Length Per Drawing x 1" W x 0.48" H	Matte Black Architect shall verify	LED 3000K 90+ CRI L70 @ 50,000 Hours 624 LM/FT Delivered	Remote DIM 0-10V	4.8W	LFT	UL Listed Rated IP20 for Dry Location	Scout Optic  SS-O-6-M-30-B-SFx-1-E-Y-Wire Length-S-Length Per Drawing + Driver: SDRVCC01075  Mounting and Power Accessories as Required	- Fixture finish to be verified by Architect Modular units to be installed for a continuous run condition as shown on drawing. Refer to architectural drawings for length of continuous runs, contractor shall provide an optimal combination of luminaire lengths to provide a continuous run as shown on architectural drawings. Luminaire shall stop from a minimum of 3" to a maximum of 8" from the corner or end of wall Luminaire shall be concealed in architectural cove. Refer to architectural drawings for details Electrical Engineer/Contractor to verify compatibility of light source, gear and dimming system Luminaire shall be ordered with necessary gear, control interfaces, power feed cables/terminators and mounting accessories as required for a complete system Locate remote gear in a secure, concealed, accessible and well-ventilated location in compliance with manufacturer's directions. Contractor/Manufacturer to coordinate remote gear size, location and wire gauge for <2% Voltage drop over entire length of run Provide manufacturer's dimensioned shop drawings showing all materials, finishes and components for Lighting Designer and Architect review prior to final fixture approval and fabrication Fixture shall have a minimum 5-year warranty.
F7	Bedford House Corridor 108	3" diameter pendant-mounted LED cylinder downlight with 50-degree optic and 1168 delivered lumens. Extruded aluminum house with machined aluminum canopy and powder-coated finish and high-efficiency textured diffuse lens. Fixture shall be mounted using 4'-0" field cuttable swivel rigid stem and have a ball-joint canopy for use in slopped ceiling installations where required.  Dimensions:  Fixture: 3 9/16" Dia x 8 5/8" H Canopy: 5" Dia x 1/4" H  Stem 1: 52 1/8" H  Stem 2: 26 9/16" H	White Architect shall verify	LED 3000K 80 CRI L70 @49,500 Hours 1168 LM Delivered	Integral DIM 0-10V	11.0W	EA	UL Listed for Damp Location	Alphabet Beta 3  BETA-3R-SW-10LM-30K-80-50HET-Accessory-NL-WH-WH RP-UNV-DIM10-Electrical Options	- Fixture finish to be verified by Architect.  - Refer to architectural drawings for mounting height AFF. Stem length to be cut in field to keep the bottom of the fixture height AFF constant at 11¹-2" for flat and sloped ceiling locations. Luminaire shall be mounted over a recessed junction box (by electrician).  - Electrical Engineer/Contractor to verify compatibility of light source, gear and dimming system  - Electrical Engineer shall confirm all EM requirements.  - Fixture shall have a minimum 5-year warranty.
F8		NOT USED								

26 51 13 A - 2

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ТҮРЕ	LOCATION	DESCRIPTION	FIXTURE FINISH	LAMPS/SOURCE	POWER SUPPLY/ DRIVER	INPUT WATTS	INPUT WATT UNITS	LISTING	MANUFACTURER	NOTES
F9		NOT USED								
F10	Carriage Barn Exhibits 103, 104, Gift Shop, Circulation	Track mounted 1.5" aperture round adjustable LED track head with 40-degree opticm 360-degree rotation, 90-degree tilt, Solite lens, and 600 delivered lumens. Fixture shall be line voltage with die-cast aluminum housing and powder-coated finish and be compatible with F1B track.  Dimensions:  1 5/8" Dia x 2 5/8" H		LED 3000K 90+ CRI L70 @ 50,000 Hours 600 LM Delivered	Integral DIM ELV	7.0W	EA	UL Listed for Dry Location	Lumenture T40 Track Heads T40-30H-600-40-W-J + Accessories: SOL-38	<ul> <li>- Fixture finish to be verified by Architect.</li> <li>- F1B track and F10 luminaires shall be compatible. Contractor to provide all necessary lengths, feeds, connectors, supports, and other components for complete and code compliant installation.</li> <li>- Electrical Engineer/Contractor to verify compatibility of light source, gear and dimming system.</li> <li>- Electrical Engineer shall confirm all EM requirements.</li> <li>- Fixture shall have a minimum 5-year warranty.</li> </ul>
F10A	Bedford House Circulation	Same as F10, except fixture shall be micro-canopy mounted with linear spread lens.  Dimensions: Fixture: 1 5/8" Dia x 2 5/8" H Canopy: 4 3/4" Dia x 3/8" H	White Architect shall verify	LED 3000K 90+ CRI L70 @ 50,000 Hours 600 LM Delivered	Integral DIM ELV	7.0W	EA	UL Listed for Dry Location	Lumenture T40 Track Heads T40-30H-600-40-W-MC + Accessories: LS-38	- Fixture finish to be verified by Architect Contractor shall verify and coordinate luminaire installation and mounting with architectural details, housing type, field conditions, and ceiling system details including ceiling thickness, grid type, flange and insulation clearance requirements Electrical Engineer/Contractor to verify compatibility of light source, gear and dimming system Electrical Engineer shall confirm all EM requirements Fixture shall have a minimum 5-year warranty.
F10B	Bedford House Exit Signs	Same as F10, except fixture shall be micro-canopy mounted with 22-degree beam spread and honeycomb louver.  Dimensions: Fixture: 1 5/8" Dia x 2 5/8" H Canopy: 4 3/4" Dia x 3/8" H	White Architect shall verify	LED 3000K 90+ CRI L70 @ 50,000 Hours 600 LM Delivered	Integral DIM ELV	7.0W	EA	UL Listed for Dry Location	Lumenture T40 Track Heads T40-30H-600-22-W-MC + Accessories: HL-38	- Fixture finish to be verified by Architect Fixture shall be mounted 1'-6" o.c. setback from the front face of the historic exit signs to the center of the j-box Contractor shall verify and coordinate luminaire installation and mounting with architectural details, housing type, field conditions, and ceiling system details including ceiling thickness, grid type, flange and insulation clearance requirements Electrical Engineer/Contractor to verify compatibility of light source, gear and dimming system Electrical Engineer shall confirm all EM requirements Fixture shall have a minimum 5-year warranty.
F10C		NOT USED								
F11	Bedford House Restrooms, Office, Elevator Vestibule, Corridor, Carriage Barn Restroom	Recess mounted 2" round aperture fixed LED downlight in die-cast aluminum housing with powder-coated finish and knife edge trim. Fixture shall be line voltage and have 60-degree optic and 950 delivered lumens.  Dimensions: Fixture: 3 3/4" Dia x 3 3/8" H Housing: 11" L x 8" W x 5" H	White Architect shall verify	LED 3000K 80+ CRI L70 @ 50,000 Hours 950 LM Delivered	Integral DIM 0-10V	8.5W	EA	UL Listed for Damp Location	Lumenture DLA60 2" Fixed Downlights DL60-30K-60-W-W-R-Z-200-C	- Fixture finish to be verified by Architect Contractor shall verify and coordinate luminaire installation and mounting with architectural details, housing type, field conditions, and ceiling system details including ceiling thickness, grid type, flange and insulation clearance requirements If required based on existing field conditions, provide IC and/or Airtight housing as required for installation in an insulated ceiling. Contractor to provide as required based on ceiling type and local codes Electrical Engineer/Contractor to verify compatibility of light source, gear and dimming system Electrical Engineer shall confirm all EM requirements Fixture shall have a minimum 5-year warranty.
F12		NOT USED								
F12A		NOT USED								
F13		NOT USED								
F14		NOT USED								
F15	Bedford House Staircase	Recess mounted 3" round aperture adjustable LED downlight in die-cast aluminum housing with powder-coated finish and knife edge trim with 35-degree tilt. Fixture shall be line voltage and have 25-degree optic and 1050 delivered lumens.  Dimensions: Fixture: 3 3/4" Dia x 5" H Housing: 11" L x 8" W x 5" H	White Architect shall verify	LED 3000K 90+ CRI L70 @ 50,000 Hours 1050 LM Delivered	Integral DIM 0-10V	11.0W	EA	UL Listed for Damp Location	Lumenture DLA75 3" Adjustable Downlights DLA75-30H-25-W-W-R-U-250-C	- Fixture finish to be verified by Architect Contractor shall verify and coordinate luminaire installation and mounting with architectural details, housing type, field conditions, and ceiling system details including ceiling thickness, grid type, flange and insulation clearance requirements - If required based on existing field conditions, provide IC and/or Airtight housing as required for installation in an insulated ceiling. Contractor to provide as required based on ceiling type and local codes Electrical Engineer/Contractor to verify compatibility of light source, gear and dimming system Electrical Engineer shall confirm all EM requirements Fixture shall have a minimum 5-year warranty.
F16	Bedford House Bedroom 3	Surface-mounted square LED backlit assembly, edge-lit from 2 sides delivering 260 lumens per square foot, with opal diode imaging-free PMMA diffuser. Fixture shall be magnet-mounted using manufacturer provided 18-gauge galvanized steel backplate. Fixture shall be provided with long whip to be located at the corner of the fixture and reach the remote driver connection. Fixture shall be mounted within architectural detail to appear flush with the adjacent wall surfaces.  Dimensions:  34" L x 21" W x 0.81" H (1.05" H total with magnetic mounting assembly)		LED 3000K 80+ CRI L70 @ 50,000 Hours 260 LM/SF Delivered	Remote DIM 0-10V	27.0W	EA	UL Listed for Dry/Damp Location	Nanometer Lighting NanoFloat Square  NFL-SQ-SU-M-S-30-8-MO-2-34"x21"-10-U-S-Options + Driver: HLG-60H-24  Mounting and Power Accessories as Required	Refer to architectural drawings/narrative for detail. Fixture to be concealed in recessed niche of faux window, no wiring to be visible. Provide manufacturer's dimensioned shop drawings showing all materials, finishes and components for Lighting Designer and Architect review prior to final approval and fabrication. Locate remote gear in a secure, concealed, accessible and well-ventilated location in compliance with manufacturer's directions. Contractor/Manufacturer to coordinate remote gear size, location and wire gauge for <2% Voltage drop over entire length of run. Electrical Engineer/Contractor to verify compatibility of light source, gear and dimming system. Fixture shall have a minimum 5-year warranty.

26 51 13 A - 3

### JOHN JAY HOMESTEAD SITE AND BUILDING ENHANCEMENTS

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ТҮРЕ	LOCATION	DESCRIPTION	FIXTURE FINISH	LAMPS/SOURCE	POWER SUPPLY/ DRIVER	INPUT WATTS	INPUT WATT UNITS	LISTING	MANUFACTURER	NOTES
F17	Carriage Barn Reception Desk	Surface mounted linear LED task light with 120-degree optic, 204 delivered lumens per foot and side/rear feed and external mounting clip. Housing is one-piece extruded aluminum channel with cast aluminum end caps and powder coated finish, extruded high transmission milky acrylic flat lens with no LED imaging and 50% transmission loss. Fixtures shall have CREE LEDs mounted on robust platform.  Dimensions:  Length Per Drawing x 0.63" W x 0.41" H	Architect to confirm finish and select from standard finishes	LED 3000K 90+ CRI L70 @ 50,000 Hours 204 LM/FT Delivered	Remote DIM 0-10V	2.8W	LFT	UL Listed Rated IP20 for Dry Location	Per Drawing + Driver: SDRVCC01075	- Fixture finish to be verified by Architect Fixture to be concealed in undercounter millwork, no wiring to be visible Electrical Engineer/Contractor to verify compatibility of light source, gear and dimming system Luminaire shall be ordered with necessary gear, control interfaces, power feed cables/terminators and mounting accessories as required for a complete system Locate remote gear in a secure, concealed, accessible and well-ventilated location in compliance with manufacturer's directions. Contractor/Manufacturer to coordinate remote gear size, location and wire gauge for <2% Voltage drop over entire length of run Provide manufacturer's dimensioned shop drawings showing all materials, finishes and components for Lighting Designer and Architect review prior to final fixture approval and fabrication Fixture shall have a minimum 5-year warranty.
DECORATIVE LI	UMINAIRES									
D1	Bedford House Conservatory	Surface-mounted semi-decorative linear LED wall sconce in elongated aluminum housing with white finish and hand-blown 3-ply opal glass. Fixture shall have 3311 lumen output.  Dimensions:  4" Dia x 5 3/8" W x 24" H	White Architect shall verify	LED 3000K 80+ CRI L70 @ 60,000 Hours 3311 LM Delivered	Integral DIM 0-10V	30.0W	EA	NRTL Listed for Dry Location	BEGA Limburg Opal Glass B19537-K3	- Fixture finish to be verified by Architect Luminaire shall be U.L. (or equivalent approved agency) listed Refer to architectural drawings for mounting height AFF. Luminaire shall be mounted over a recessed junction box (by electrician) Electrical Engineer/Contractor to verify compatibility of light source, gear and dimming system Fixture shall have a minimum 5-year warranty.
D2	Bedford House Restroom	Surface-mounted slim linear LED wall vanity light with a co-extrusion of clear and white acrylic diffuser, aluminum hardware, and line-voltage AC LED. Fixture shall include 1" slim junction box and have 4874 lumen output.  Dimensions:  97" L x 2" W x 1 1/4" H	Brushed Aluminum Architect shall verify	LED 3000K 90+ CRI L70 @ 54,000 Hours 4874 LM Delivered	Integral DIM ELV	88W	EA	ETL Listed for damp location	Modern forms Lightstick WS-47997-AL	- Fixture finish to be verified by Architect Luminaire shall be U.L. (or equivalent approved agency) listed Refer to architectural drawings for mounting height AFF. Luminaire shall be mounted over a recessed junction box (by electrician) Electrical Engineer/Contractor to verify compatibility of light source, gear and dimming system Fixture shall have a minimum 5-year warranty.
D3	Bedford House Conservatory	Existing decorative pendant to be taken down, refurbished, safely stored and reinstalled with retrofit LED lamps.		LED Retrofit		Allow 100W	EA	UL or Similar		- Luminaire shall be U.L. (or equivalent approved agency) listed. - Fixture shall have a minimum 5-year warranty.

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ТҮРЕ	LOCATION	DESCRIPTION	FIXTURE FINISH	LAMPS/SOURCE	POWER SUPPLY/ DRIVER	INPUT WATTS	INPUT WATT UNITS	LISTING	MANUFACTURER	NOTES	
EXTERIOR LUI	EXTERIOR LUMINAIRES										
FX1	Bedford House East Roadway, Security Gate	Pole Top Luminaire: Pole mounted LED pole top in two piece die-cast aluminum construction, slip fitting a 3" O.D. round pole top. Marine-grade, copper-free A360.0 aluminum alloy die casting. Clear acrylic diffuser with optical texture and reflector made of pure anodized aluminum held in place by die-cast aluminum frame and stainless steel rods. Fully gasketed for weather tight operation using a molded silicone rubber O-ring gasket. Powder coat finish with minimum 3 mil thickness. Asymmetric flat beam optic.  Pole: 12-feet extruded aluminum 4" diameter round non-tapered pole shaft with fixed A356 aluminum alloy anchor base heat treated to T6 temper, with anchor bolts conforming to ASTM F1554 Grade 55, with 2 hex nut anchor bots and 2 flat washers, aluminum nut covers, and covered handhole with hardware and grounding provisions, 3" welded tenon, with 0.125" wall thickness and 26 lbs of structural weight. Matte textured powder coat finish with minimum 3 mil thickness.  Dimensions:  Fixture: 10 1/4" Dia x 25 3/4" H Pole: 4" Dia x 12'-0" H (Base: 8 7/8" L x 8 7/8" W)	Architect to confirm finish and select from standard finishes	LED 3000K 80+ CRI L70 @ 60,000 Hours 3134 LM Delivered	Integral DIM 0-10V	36.0W	EA	CSA Listed IP65 Rated for Wet Location	Bega 77165 77165-K3 + Bega 12 RFNS1 B12RFNS1-AB-Color	- Fixture finish to be verified by Architect Provide 12'-0" tall aluminum round pole Refer to base and anchorage detail by Architect / Civil Engineer. Provided pole shall meet local and AASHTO requirements for EPA of luminaire configuration. Architect / Civil Engineer shall coordinate pole anchorage detail to concrete base Provide detailed shop drawings noting aiming configurations, fixture heights on pole, hand hole locations, base & anchorage detail and pole specifications conforming to all applicable codes, electrical requirements and photometric characteristics prior to final approval and fabrication Adequate drainage must be provided in concrete foundation for pole and pole base Code required accessories and controls such as but not limited to motion sensors, photocell controls, etc. to be specified and coordinated by Electrical Engineer Fixture shall have a minimum 5-year warranty.	
FX2	Parking Lots	Pole Top Luminaire: Pole mounted LED top in rectangular housing with integral fitter in extruded 6061 aluminum with T6 temper, invisible welds, and stainless steel hardware, mounted to tenon on pole and secured with four socket head cap screws to top of housing. LED arrays shall be four high-power LEDS mounted on field replaceable aluminum core PCBs enclosed in single-piece molded optical quality acrylic lens and sealed with one-piece weather-tight silicon gasket. Type II light distribution with B2-U0-G2 BUG Rating.  Pole: 15-feet rectangular pole shaft constructed from seamless 6061 aluminum tubing and heat treated with T6 temper, 0.236" wall thickness, with 1/8" radiused corners for the sides of the shaft. Flush mounted handhole cover plasma cut with kerf not to exceed 1/8" with triangular tamper-resistant locking device. Two-piece base cover in fabricated aluminum. Pole shall have finely textured matte finish and IP65 ingress protection rating.  Dimensions:  Fixture: 4.2" L x 4.2" W x 43.5" H Pole: 6.3" L x 3.9" W x 15-ft H		LED 3000K 80+ CRI L70 @ 50,000 Hours 3593 LM Delivered	Integral DIM 0-10V	36.0W	EA	CSA Listed IP65 Rated for Wet Location	Hess Linea 450 G2 LN450G-1-30K-DIM-UNV-T2-15-A-BC-MK-Finish-Option	- Fixture finish to be verified by Architect Provide 15'-0" tall aluminum round pole Refer to base and anchorage detail by Architect / Civil Engineer. Provided pole shall meet local and AASHTO requirements for EPA of luminaire configuration. Architect / Civil Engineer shall coordinate pole anchorage detail to concrete base Provide detailed shop drawings noting aiming configurations, fixture heights on pole, hand hole locations, base & anchorage detail and pole specifications conforming to all applicable codes, electrical requirements and photometric characteristics prior to final approval and fabrication Adequate drainage must be provided in concrete foundation for pole and pole base Code required accessories and controls such as but not limited to motion sensors, photocell controls, etc. to be specified and coordinated by Electrical Engineer Fixture shall have a minimum 5-year warranty.	
FX2A	Parking Lots	Same as FX2, except pole shall be modified with welded aluminum arm for mounting security camera by others.  Dimensions: Fixture: 4.2" L x 4.2" W x 43.5" H Pole: 6.3" L x 3.9" W x 15-ft H	Architect to confirm finish and select from standard finishes	LED 3000K 80+ CRI L70 @ 50,000 Hours 3593 LM Delivered	Integral DIM 0-10V	36.0W	EA	CSA Listed IP65 Rated for Wet Location	Hess Linea 450 G2 LN450G-2-30K-DIM-UNV-T2-S-15-A-BC-MK-Finish- MOD(CAM)	- Fixture finish to be verified by Architect Provide 15'-0" tall aluminum round pole Refer to base and anchorage detail by Architect / Civil Engineer. Provided pole shall meet local and AASHTO requirements for EPA of luminaire configuration. Architect / Civil Engineer shall coordinate pole anchorage detail to concrete base Custom camera mounting arm shall be mounted 13'-0" AFF, to be confirmed by Architect Security cameras provided by others Provide detailed shop drawings noting aiming configurations, fixture heights on pole, camera mounting arm location, hand hole locations, base & anchorage detail and pole specifications conforming to all applicable codes, electrical requirements and photometric characteristics prior to final approval and fabrication Adequate drainage must be provided in concrete foundation for pole and pole base Code required accessories and controls such as but not limited to motion sensors, photocell controls, etc. to be specified and coordinated by Electrical Engineer Fixture shall have a minimum 5-year warranty.	

26 51 13 A - 5

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ТҮРЕ	LOCATION	DESCRIPTION	FIXTURE FINISH	LAMPS/SOURCE	POWER SUPPLY/ DRIVER	INPUT WATTS	INPUT WATT UNITS	LISTING	MANUFACTURER	NOTES
FX3	Pedestrian Walkway	Slender shielded LED bollard in die-cast and extruded marine grade, copper-free A360.0 aluminum alloy housing, with clear safety glass, pure anodized aluminum reflector, high temperature silicone gasket, mechanically captive stainless steel fasteners, and mounting plate constructed of heavy cast aluminum. Fixture shall have asymmetric light distribution and be suitable for wet location with IP65 ingress protection rating, have textured polyester powder coat finish with minimum 3 mil thickness, and have 1475 lumen output.  Dimensions:  7 1/2" Dia x 39 3/8" H	Bronze Architect shall verify	LED 3000K 80+ CRI L70 @ 60,000 Hours 1475 LM Delivered	Integral DIM 0-10V	14.5W	EA	NRTL Listed IP65 Rated for Wet Location	Bega 99058 99058-K3 (EXPRESS)-BRZ-Mounting-Options	- Fixture finish to be verified by Architect.  - Luminaire shall be U.L. (or equivalent approved agency) listed and labeled "Suitable for wet locations."  - Refer to base and anchorage detail by Architect / Civil Engineer.  - Provide detailed shop drawings noting base & anchorage detail and bollard specifications conforming to all applicable codes, electrical requirements and photometric characteristics.  - Refer to base and anchorage detail by Architect / Civil Engineer.  - Fixture shall have a minimum 5-year warranty.
FX4		NOT USED								
FX5		NOT USED								
FXG	Carriage Barn Façade	Fixture: Stake-mounted landscape LED flood light with 111.8 x 83.8-degrees wall wash optic with adjustable barn door accessory in cylindrical copper-free 6061-T6 aluminum housing with water-proof enclosed wireway with machined end caps gasketed for water-tight seal, and shock-resistant, hermetically sealed tempered glass lens with StarGuard Class A TGIC polyester powder-coat finish. Fixture shall be adjustable 180-degrees via LOCK knuckle integral to body, with high temperature silicone O-ring, and 1/2" pipe thread for mounting, and have 485 lumen output.  Power Pipe: Stake shall be constructed from fully machined copper-free aluminum, with high temperature silicone O-ring seals, 60-degree angled bottom, stainless steel hardware, and polyester powder-coated finish, and have integral line voltage driver enclosed within the stake housing.  Dimensions:  Fixture: 2 5/8" Dia x 4 1/2" H Power Pipe: 3 1/4" Dia x 17 1/2" H	Satin Bronze Architect shall verify	LED 3000K 80+ CRI L70 @ 50,000 Hours 485 LM Delivered	Integral DIM 0-10V	10.0W	EA	UL Listed IP66 Rated for Wet Location	BK Lighting Saratoga LED  SA-LED-x53-WW-BZP-13-BD-360SL + Stake/Driver: PPII-512-010-BZP-B-MT-SF + Power and Mounting Accessories as Required	- Fixture finish to be verified by Architect.  - Luminaire shall be U.L. (or equivalent approved agency) listed and labeled "Suitable for wet locations."  - Contractor shall verify and coordinate fixture installation, mounting and conduit entry with landscape details, housing type and field conditions.  - Provide outdoor rated junction box.  - Fixture to be stake-mounted. Landscape Architect to review mounting details.  - Contractor to coordinate with the architect on the exact location for the stone wall facade.  - Electrical Engineer to confirm fixture voltage, circuits, dimming and emergency requirements.  - Fixtures require aiming by lighting consultant after installation. Contractor to coordinate personnel and equipment necessary for aiming session.  - See Landscape/Architect details for mounting information.  - Fixture shall have a minimum 5-year warranty.
FX6A	Bedford House Façade	Same as FX6, except location. Fixture shall be used for façade uplighting.  Dimensions: Fixture: 2 5/8" Dia x 4 1/2" H Power Pipe: 3 1/4" Dia x 17 1/2" H	Satin Bronze Architect shall verify	LED 3000K 80+ CRI L70 @ 50,000 Hours 485 LM Delivered	Integral DIM 0-10V	10.0W	EA	UL Listed IP66 Rated for Wet Location	BK Lighting Saratoga LED  SA-LED-x53-WW-BZP-13-BD-360SL + Stake/Driver: PPII-512-010-BZP-B-MT-SF + Power and Mounting Accessories as Required	- Fixture finish to be verified by Architect.  - Luminaire shall be U.L. (or equivalent approved agency) listed and labeled "Suitable for wet locations."  - Contractor shall verify and coordinate fixture installation, mounting and conduit entry with landscape details, housing type and field conditions.  - Provide outdoor rated junction box.  - Fixture to be stake-mounted. Landscape Architect to review mounting details.  - Contractor to coordinate with the architect on the exact location for the stone wall facade.  - Electrical Engineer to confirm fixture voltage, circuits, dimming and emergency requirements.  - Fixtures require aiming by lighting consultant after installation. Contractor to coordinate personnel and equipment necessary for aiming session.  - See Landscape/Architect details for mounting information.  - Fixture shall have a minimum 5-year warranty.
FX6B	Entry Signage	Same as FX6, except fixture shall have 50-degree wide flood optic, honeycomb baffle shielding, and rectilinear lens.  Dimensions: Fixture: 2 5/8" Dia x 4 1/2" H Power Pipe: 3 1/4" Dia x 17 1/2" H	Satin Bronze Architect shall verify	LED 3000K 80+ CRI L70 @ 50,000 Hours 1365 LM Delivered	Integral DIM 0-10V	10.0W	EA	UL Listed IP66 Rated for Wet Location	BK Lighting Saratoga LED  SA-LED-x53-WFL-BZP-13-11-BD-360SL + Stake/Driver: PPII-S12-010-BZP-B-MT-SF + Power and Mounting Accessories as Required	- Fixture finish to be verified by Architect.  - Luminaire shall be U.L. (or equivalent approved agency) listed and labeled "Suitable for wet locations."  - Contractor shall verify and coordinate fixture installation, mounting and conduit entry with landscape details, housing type and field conditions.  - Provide outdoor rated junction box.  - Fixture to be stake-mounted. Landscape Architect to review mounting details.  - Contractor to coordinate with the architect on the exact location for the stone wall facade.  - Electrical Engineer to confirm fixture voltage, circuits, dimming and emergency requirements.  - Fixtures require aiming by lighting consultant after installation. Contractor to coordinate personnel and equipment necessary for aiming session.  - See Landscape/Architect details for mounting information.  - Fixture shall have a minimum 5-year warranty.

26 51 13 A - 6

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ТҮРЕ	LOCATION	DESCRIPTION	FIXTURE FINISH	LAMPS/SOURCE	POWER SUPPLY/ DRIVER	INPUT WATTS	INPUT WATT UNITS	LISTING	MANUFACTURER	NOTES
FX6C	Entry Stone Pier	Same as FX6, except location. Fixture shall be used for entry stone wall uplighting.  Dimensions: Fixture: 2 5/8" Dia x 4 1/2" H Power Pipe: 3 1/4" Dia x 17 1/2" H	Satin Bronze Architect shall verify	LED 3000K 80+ CRI L70 @ 50,000 Hours 485 LM Delivered	Integral DIM 0-10V	10.0W	EA	UL Listed IP66 Rated for Wet Location	BK Lighting Saratoga LED  SA-LED-x53-WW-BZP-13-BD-360SL + Stake/Driver: PPII-S12-010-BZP-B-MT-SF + Power and Mounting Accessories as Required	- Fixture finish to be verified by Architect Luminaire shall be U.L. (or equivalent approved agency) listed and labeled "Suitable for wet locations." - Contractor shall verify and coordinate fixture installation, mounting and conduit entry with landscape details, housing type and field conditions Provide outdoor rated junction box Fixture to be stake-mounted. Landscape Architect to review mounting details Contractor to coordinate with the architect on the exact location for the stone wall facade Electrical Engineer to confirm fixture voltage, circuits, dimming and emergency requirements Fixture shall be programmed on site to a maximum of 50% output with further dimming in the field as required Fixtures require aiming by lighting consultant after installation. Contractor to coordinate personnel and equipment necessary for aiming session See Landscape/Architect details for mounting information Fixture shall have a minimum 5-year warranty.
FX6D	Entry Stone Wall	Same as FX6, except fixture shall have 20-degree spot optic, honeycomb baffle shielding, and rectilinear lens.  Dimensions: Fixture: 2 5/8" Dia x 4 1/2" H Power Pipe: 3 1/4" Dia x 17 1/2" H	Satin Bronze Architect shall verify	LED 3000K 80+ CRI L70 @ 50,000 Hours 946 LM Delivered	Integral DIM 0-10V	10.0W	EA	UL Listed IP66 Rated for Wet Location	BK Lighting Saratoga LED  SA-LED-x53-SP-BZP-13-11-BD-360SL + Stake/Driver: PPII-512-010-BZP-B-MT-SF + Power and Mounting Accessories as Required	- Fixture finish to be verified by Architect Luminaire shall be U.L. (or equivalent approved agency) listed and labeled "Suitable for wet locations." - Contractor shall verify and coordinate fixture installation, mounting and conduit entry with landscape details, housing type and field conditions Provide outdoor rated junction box Fixture to be stake-mounted. Landscape Architect to review mounting details Contractor to coordinate with the architect on the exact location for the stone wall facade Electrical Engineer to confirm fixture voltage, circuits, dimming and emergency requirements Fixture shall be programmed on site to a maximum of 50% output with further dimming in the field as required Fixtures require aiming by lighting consultant after installation. Contractor to coordinate personnel and equipment necessary for aiming session See Landscape/Architect details for mounting information Fixture shall have a minimum 5-year warranty.
FX7		NOT USED								
FX8	Bedford House Façade	Wall-mounted LED sconce in marine-grade copper-free A360.0 aluminum alloy housing with clear safety glass lens, captive stainless steel fasteners, and matte textured powder-coated finish with minimum 3 mil thickness in RAL color per Architect. Fixture shall be line voltage and include narrow opening wiring box and have 204 lumen output.  Dimensions:  2 1/8" L x 2 3/8" W x 7 7/8" H	White Architect shall verify	LED 3000K 80+ CRI L80 @ 60,000 Hours 204 LM Delivered	Integral DIM 0-10V	7.0W	EA	NRTL Listed IP64 Rated for Wet Location	Bega B33514 B33514-K3-WHT + Wiring Box: B19545	- Fixture finish to be verified by Architect Luminaire shall be U.L. (or equivalent approved agency) listed and labeled "Suitable for wet locations." - Refer to architectural drawings for mounting height AFF. Luminaire shall be mounted over a recessed junction box (by electrician) Electrical Engineer/Contractor to verify compatibility of light source, gear and dimming system Fixture shall have a minimum 5-year warranty.
FX9		Fixture: Stake-mounted adjustable LED monopoint. Unibody 6061-T6 copper-free aluminum housing with integral heat sink, adjustable 180-degrees vertical via LOCK Knuckle integral to the body and waterproof enclosed wireway, StarGuard Class A TGIC polyester powder coated finish and tamper-resistant stainless steel hardware and fully machined cap that can accommodate up to two lens or louver. Fixture shall have 25-degree medium flood optic, and interchangeable shock-resistant tempered 1/8" thick soda lime glass lens with soft focus and honeycomb baffle shielding. Fixture shall be provided with 5" diameter machined canopy with 1/2" pipe thread for mounting, and have 468 lumen output.  Power Pipe: Stake shall be constructed from fully machined copper-free aluminum, with high temperature silicone O-ring seals, 60-degree angled bottom, stainless steel hardware, and polyester powder-coated finish. Compatible remote 0-10V 12VDC dimming driver shall be provided.  Dimensions:  Fixture: 1-5/8" Dia x 4-1/2" H Power Pipe: 2 1/4" Dia x 19 5/8" H	Architect to confirm finish and select from standard finishes	LED 3000K 80 CRI L70 @50,000 Hours 468 LM Delivered	Remote DIM 0-10V	7.0W	EA	UL Listed for Wet Location	B-K Lighting Micro Night Star  MN-LED-e68-MFL-Finish-12-11-C-360SL + Stake: PP-A18-Finish-B + Driver: QTL QOM-eLED-PS-60W-UNV-12VDC-0-10V-BK + Power and Mounting Accessories as Required	- Fixture finish to be verified by Architect.  - Luminaire shall be U.L. (or equivalent approved agency) listed and labeled "Suitable for wet locations."  - Fixture to be stake-mounted, Landscape Architect to review mounting details. When installed under a tree, place landscape uplights nominally 3'-0" from base of trunk. Final mounting location to be field verified based on type of tree.  - Contractor shall verify and coordinate fixture installation, mounting and conduit entry with landscape details, housing type and field conditions.  - Provide outdoor rated junction box.  - Architect to confirm mounting requirements.  - Electrical Engineer to confirm fixture voltage, circuits, dimming and emergency requirements.  - Locate remote gear in a secure, concealed, accessible and well-ventilated location in compliance with manufacturer's directions. Contractor/Manufacturer to coordinate remote gear size, location and wire gauge for <2% Voltage drop over entire length of run.  - Fixtures require aiming by lighting consultant after installation. Contractor to coordinate personnel and equipment necessary for aiming session.  - See Landscape/Architect details for mounting information.  - Fixture shall have a minimum 5-year warranty.
FX10		NOT USED								
FX11	Bedford House Porch	Recess mounted 2" round aperture fixed LED downlight in die-cast aluminum housing with powder-coated finish and knife edge wet-rated trim. Fixture shall be line voltage and have 60-degree optic and 700 delivered lumens.  Dimensions:  Fixture: 3 3/4" Dia x 3 3/8" H  Housing: 11" L x 8" W x 5" H	White Architect shall verify	LED 3000K 80+ CRI L70 @ 50,000 Hours 700 LM Delivered	Integral DIM 0-10V	6.5W	EA	UL Listed for Wet Location	Lumenture DLA60 2" Fixed Downlights DL60-30K-60-W-W-RW-Z1-150-C	- Fixture finish to be verified by Architect Luminaire shall be U.L. (or equivalent approved agency) listed and labeled "Suitable for wet locations." - Contractor shall verify and coordinate luminaire installation and mounting with architectural details, housing type, field conditions, and ceiling system details including ceiling thickness, grid type, flange and insulation clearance requirements If required based on existing field conditions, provide IC and/or Airtight housing as required for installation in an insulated ceiling. Contractor to provide as required based on ceiling type and local codes Electrical Engineer/Contractor to verify compatibility of light source, gear and dimming system Fixture shall have a minimum 5-year warranty.

26 51 13 A - 7

# JOHN JAY HOMESTEAD SITE AND BUILDING ENHANCEMENTS

										TA-JJ-2 <u>023-001</u>
ТҮРЕ	LOCATION	DESCRIPTION	FIXTURE FINISH	LAMPS/SOURCE	POWER SUPPLY/ DRIVER	INPUT WATTS	INPUT WATT UNITS	LISTING	MANUFACTURER	NOTES
FX12	Bedford House Under Porch	Surface-mounted outdoor wet-rated cylindrical LED downlight in aluminum housing and lens diffuser. Fixture shall have integral driver concealed within the fixture and have 545 lumen output.  Dimensions: 5" Dia x 7 1/8" H	White Architect shall verify	LED 3000K 90 CRI L70 @50,000 Hours 545 LM Delivered	Integral DIM 0-10V	11.0W	EA	ETL Listed IP65 Rated for Wet Location	WAC Lighting Caliber FM-W36607-3000K-WT	<ul> <li>- Fixture finish to be verified by Architect.</li> <li>- Luminaire shall be U.L. (or equivalent approved agency) listed and labeled "Suitable for wet locations."</li> <li>- Luminaire shall be mounted over a recessed junction box (by electrician).</li> <li>- Electrical Engineer/Contractor to verify compatibility of light source, gear and dimming system.</li> <li>- Fixture shall have a minimum 5-year warranty.</li> </ul>
FX13		NOT USED								
FX14		NOT USED								
FX15		NOT USED								
FX16	Bedford House Façade	Wall-mounted LED sconce in marine grade copper free A360.0 aluminum alloy housing with clear safety glass lens with optical texture, captive stainless steel fasteners, and matte textured powder-coated finish with minimum 3 mil thickness. Fixture shall be line voltage, have asymmetric beam distribution, and have 618 lumen output  Dimensions:  4 3/8" L x 4 3/8" W x 7 1/2" H	Custom RAL # TBD Architect shall verify	LED 3000K 80+ CRI L80 @ 60,000 Hours 618 LM Delivered	Integral DIM 0-10V	11.0W	EA	NRTL Listed IP64 Rated for Wet Location	Bega B33815	- Fixture RAL finish to be verified by Architect. Contractor to coordinate with manufacturer to match color with Benjamin Moore Carrington Beige (HC-93) on wood substrate.  - Luminaire shall be U.L. (or equivalent approved agency) listed and labeled "Suitable for wet locations."  - Refer to architectural drawings for mounting height AFF. Bottom of luminaire shall be a minimum of 6'-8" AFF to comply with ADA Standards (ADAAG 4.4). Luminaire shall be mounted over a recessed junction box (by electrician).  - Electrical Engineer/Contractor to verify compatibility of light source, gear and dimming system.  - Fixture shall have a minimum 5-year warranty.
FX16A	Bedford House Façade	Same as F16, except finish shall be bronze.  Dimensions: 4 3/8" L x 4 3/8" W x 7 1/2" H	Bronze Architect shall verify	LED 3000K 80+ CRI L80 @ 60,000 Hours 618 LM Delivered	Integral DIM 0-10V	11.0W	EA	NRTL Listed IP64 Rated for Wet Location	B33815	- Fixture finish to be verified by Architect Luminaire shall be U.L. (or equivalent approved agency) listed and labeled "Suitable for wet locations." - Refer to architectural drawings for mounting height AFF. Bottom of luminaire shall be a minimum of 6'-8" AFF to comply with ADA Standards (ADAAG 4.4). Luminaire shall be mounted over a recessed junction box (by electrician) Electrical Engineer/Contractor to verify compatibility of light source, gear and dimming system Fixture shall have a minimum 5-year warranty.

# APPENDIX 11

Light Fixture Product Data Sheets

# Appendix

**Product Data Sheets** 

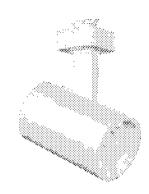


John Jay Homestead

230042.000 **BID Submission** 10 JULY, 2024

# **LUMENTURE**® **T50** TRACK HEADS

The T50 track cylinder is designed to blend seamlessly into a wide range of environments - including retail, commercial, restaurant and hospitality settings. Coming standard with Lumenture's patent-pending, low-profile Infinity Adapter\*\* - the T50 has the ability to rotate continuously for effortless aiming. Specification level details - including no exposed hardware, special attention to finish and the ability to integrate a number of accessories make the TSO one of the leading-edge track heads on the market.





DIMMING

Triac, ELV





1416



up to 1100lm

up to 79lm/W



120V AC



TYPE







MOVEMENT Infinite rotation, 90° tilt

# ORDERING



# JAB-TITLE 24

Available combinations indicated by shading in the chart below.

FIXTURE T50	CCYCR1 (4) 22H - 2200K, CR190+	LUMENS 1166	BEAM SPREAD 	FINISH W-White	MOUNTING TYPE  J - 1 Type (Standard)	ACCESSORIES *  SN - Standard Tapered Snoot
	Z7H - 2700K, CRE 90+		<b>2</b> 2 - 22°	8 - Black	G - GType/ 2C2N	SNC - Cylinder Snoot
	30H - 3000K, CR190+		<b>40 -</b> 40°	S - Silver	Н - НТуре	JA-38 - Standard Mone-Point
	308 - 3000K, CRI 95+			C - Custom	L - LType	JA-21 - Duo-Point Adapter
	30K - 3000K, CRI 80+				5C - Siim Canopy	JA-18-[Finish]-Cover - Deep Canopy Collar
	30D - 3000K, CRI 90+, Dim-tri-Warm				<b>МС</b> - Місто Сапору	
	35H 2500K CR1 90+					
	40H - 4000K, CRI 90+					

# NOTES

- 1. Custom options available. Please consult factory.
- 2. See page (3) and (4) for a full list of accessories and carropy accessories.
- 3. Not available with 300 Dim-to-Warm option. See page (2) for photometrics.

# CHECKSTAIN EXAMPLE.

# LISTINGS

Certified to UL standard 1574 and CSA C22.2 No. 9.0 for dry locations







T50 Track Head Specifications p. 1/4 Custom options waitable, please consult factory Products specifications are subject to change more turned out P. 203,864,3332

**L**UMENTURE www.furnenture.com



John Jay Homestead

Type:

F1 Series

230042.000 **BID Submission** 10 JULY, 2024

Page Lof 119

# **T50 TRACK HEADS**

# **PHOTOMETRICS**

## LUPIEN OUTPUT

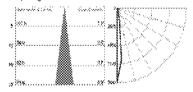
Values facturate based on CCT/CRI. To estimate delivered lumen output of the various CCT/CRI options, multiply nominal lumens (1100 lumens) by the multiplier below.

				*****
COOK CC	CB2 844	TELEPHOCHES SERVICE	15 22 .	
				200000000000
22H 2200K	90+ 60+	Standard	0.75 0.75 C	1.75
<b>27</b> H 2700K	90+ 50+	Standard	085 9.85 0	185
30H 3000K	90+ 60+	Standard	0.90 0.90 0	199
<b>308</b> 3000k	95+ 60+	Standard	0.80 0.80 0	LESO .
<b>30</b> K 3009K	89+ 0+	Standard	100 100 1	.00.
30D 3000K	90+ 60+	Dim-ra-Warm <sup>12</sup>	N/A <sup>(i)</sup> 0.80 <sup>(i)</sup> 0.	80%
35H 3500K	90+ 60+	Standard	0.95 0.95 0	198
<b>40H</b> 4060K	90+ 60+	Standard	095 095 0	195

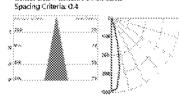
#### NOTES

Lumenture maintains a lumen output tolerance of 4/-7.5% 1. Dim-to-Warm dims from 3000K to 1800K

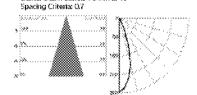
YSO - 15 Degree Delivered Light Output: 1083 tumens Total Warts 9120V; 14; tumens Per Watt: 77 Center Beam Candle Power: 9434 Spacing Criteria: 0.3



T50 - 22 Degree Delivered Light Curput: 1097 Lumens Total Watts @1209; 14; Lumens Per Wattr 78 Center Beam Candle Powen 5142

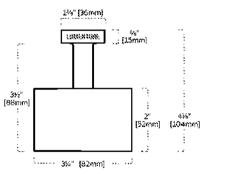


TSO - 40 Degree Delivered Light Curput: 1132 tumens Total Watts @120V: 14: tumens Per Watt B1 Center Ream Cantile Privace 2749



# **DIMENSIONS**

# Standard option shown with our 3-Type InfinityAdapter $^{\rm IM}$





T50 Track Hearl Specifications p. 3/4
Custom options available, please consult factory
Product specifications are subject to change
info@timenturs.com P. 203.864.3333





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230042.000 **BID Submission** 10 JULY, 2024 Type:

F1 Series

Page 2 of 119

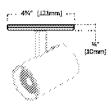
# **T50** TRACK HEADS

# INTEGRAL CANOPY (Factory Installed)

#### 5C

(Stim Canopy)

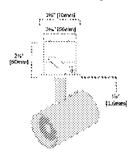
The slim canopy mounts directly over a standard junction box - resulting in an elegant and clean install of Lumenture's award-winning T-Series twick fintures. Philase A.S. W.



#### MC

(Micro Canopy)

With a minimal 2.75° trim, the Lumanture micro-canopy virtually "disappears" into the celling - offering an even more refined look for the most high-end applications. Finish: B. S. W. T. Max celling thickness: '%'

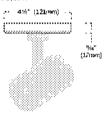


# STANDARD CANOPY & ACCESSORIES (Ordered Separately)

#### 3A-18

(Standard Mono-Point)

The 18-18 canopy mounts directly over a standard junction box and includes a "fernale" connector that works with Lumenture and other ")-Type" track fixtures. Finish: B, S, W



# JA-21

(Dup-point Adapter)

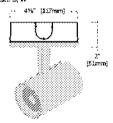
Accepts two line voltage track heads to mount to a single outlet box. Compatible with Eumenture and other "1-Type" track fixtures.



# JA-18-[Finish]-Cover

(Deep Canopy Collar)

The JA-18 Cover helps shield unsightly surface mount I-Boxes and blends seamlessly with the Lumenture JA-18 or 5C Slim Canopy (solid separately). Firest: B, W



Ordering Example: IA-18-B-Cover

# Finish Codes:

8 – Slack 3 – Silver

W - White

TSO Track Head Specifications p. 3/4
Custom options available, please consult factory
Product specifications are subject to change
info@lumentus.com P. 203,864,3333





John Jay Homestead

**BID Submission** 

10 JULY, 2024

230042.000

Type:

F1 Series

Page 3 of 119

# **T50** TRACK HEADS

# DIMMING

Dimming is standard and allows for smooth illumination below 1% with certain dimmers. Compatible with most Triac (forward phase) and ELV (reverse phase) dimmers. For dimmer compatibility, refer to the Fixture Dimming Compatibility document on our website.

# TRACK COMPATIBILITY

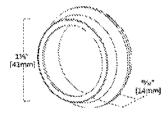
Lumenture 3-Type track adapters are designed for use with Lumenture's track systems, as well as Junio® & Contech® track. Our H-Type adapter is compatible with Global Trac 20/2N track and L-Type adapter is compatible with Elightoiler® one-circuit track. Registered trademarks are property of their respective owners.

# **ACCESSORIES**

# T50-\$N-x

(Standard Tapered Shoot)

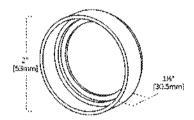
Will accept up to two (2) accessories. Finish: W. B. S. The inside surface is black.



# TSO-SNC-X

(Cylinder Snoct)

Will accept up to two (2) accessories.
Finish: W. B., S. The inside surface is black.



#### TSO-X Lens Arressnies

Lens Accessones











# NOTES

Field replaceable optics and accessories available. Please consult factory.

1. Accessory requires a smoot.

T50 Track Head Specifications p. 4/4 Custom options available, please consult factory Product specifications are subject to change info@tumentus.com. R. 203.864.3333





John Jay Homestead

Type:

F1 Series

230042.000 **BID Submission** 10 JULY, 2024

Page 4 of II9

# **LUMENTURE**®

# JT 2-CIRCUIT LINE VOLTAGE TRACK

# SPECIFICATIONS/FEATURES

#### Track

Many configurations are possible with this two-circuit, 120V rated commercial grade track section. 40 amp capacity; 20 amps per circuit. Two hot conductors and one common neutral. Adjust lighting effects by applying fixtures to desired circuits and utilize separate switching.

Track has solid copper conductors with insulators placed in heavy 14 ga, extruded aluminum channels.

Mechanical polarity with a visual indicator simplifies installation and mounting of fixtures while assuring proper electrical connections.

Toggle bolts are supplied for sImple surface installation. Track sultable for suspension mount via cable or threaded rod.

Nominal length track sections can be cut in the field for exact fit. All track sections are supplied with two insulated end caps. Replacement caps available.

# **Power Feeds and Connection Accessories**

Power feeds and connection accessories are constructed of polycarbonate with galvanized steel back plates. Every electrical component is polarized and has a grounding capability to ensure safe usage. Visual polarity indicators simplify proper electrical installation. Twelve gauge insulated wire is used for internal connections. Solid copper track contacts provide good electrical conductivity for years of trouble free operation.

Maximum power rating is 2400 Watts per circuit (4800W total); 20A per circuit (40A total capacity) at 120V, 60Hz, NEC allows 80% of full capacity or 1920 Watts per circuit (3840W total).

#### Warranty

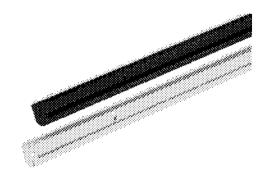
This fixture is covered by Lumenture's full one (1) year replacement guarantee after date of purchase.

#### Listino

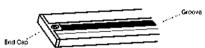
All track and track components are cULus listed. Installations are suitable for dry locations only.

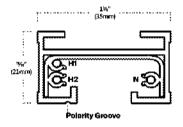


PPOJECT.



Track Section End View





# **ORDERING**

14-213 and can are supplied with 46 hack sections and may be ordered to paralety a needed 4' to down topplied with (2) togger both. B' sections supplied with 3' supplied both.

## 2-Circuit Line Voltage Track Specifications p. 1/3 Product specifications are subject to change into@lumenture.com P. 203.864.3333





John Jay Homestead

Туре:

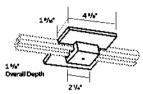
F1B

230042.000 **BID Submission** 10 JULY, 2024

Page 5 of 119

# JT 2-CIRCUIT LINE VOLTAGE TRACK

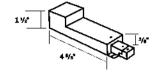
# POWER FEEDS, STEMS & EXTENSIONS



## Floating Feed Point

# JA-207 🛊

Can be installed anywhere along track. Kit indudes square 1-Box Canopy Cover, 1-Box Mounting Bracket, Track Adapter, and one JA-11 Series End Cap. Finish: B, W



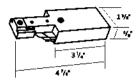
## **Surface Conduit End Feed**

# JA-208 🔓

End Feed. (1) 1/2" top K.O. and (1) 1/2" end K.O. for surface conduit. Finish: B, W

# JA-208A 🥻

Reverse Polarity End Feed. (1) ½" top K.O. and (1)½" end K.O. for surface conduit. Finish: B, W



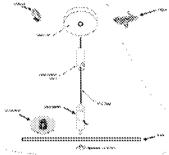
## **Top Access End Feed**

## JA-210 🔓

Power Feed. (1) 1/2" top K.O. for standard electrical conduit. Finish: B, W

# JA-210A 🕽

Reverse Polarity Power Feed. (1) ½" top K.O. for standard electrical conduit. Finish: B, W



## **Cable Mounting Kit**

150" galvanized aircraft cable, ¼"-20 internally threaded socket cup. Combination wood/ machine anchor post. T-Grid dip-standard ceiling. Toggle/loop ferrule plate. 2" diameter trim canopy. Side exit cable glider with nut. 11/4" Diameter backing/button plate.

12 kis penali back semica. Daas pariti tradi carbina



# Line Voltage Fixture Extensions

# JA-1012

12" stem length. Finish: B, W, S

# JA-1018

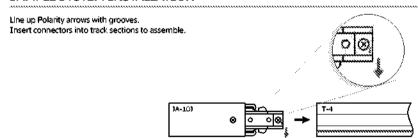
18" stem length. Finish: B, W, S



# Finish Codes:

- B Black
- W White
- S Silver

# SAMPLE SYSTEM INSTALLATION



TT2-Circuit Line Voltage Track Specifications p. 2/3 Product specifications are subject to change into@kimenture.com P. 203.864.3333





John Jay Homestead

230042.000

**BID Submission** 

10 JULY, 2024

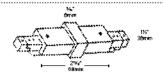
Type:

F1B

Page 6 of 119

# JT 2-CIRCUIT LINE VOLTAGE TRACK

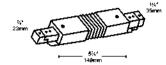
# 2-CIRCUIT TRACK POWER FEEDS



## Mini-Connectors

# JA-202

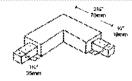
Conductive end-to-end connector. Finish: B, W



## Flexible Connector

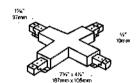
# JA-203

Versatile connector allows wall to ceiling or pitched ceiling applications, 35°-325°. Finish: B, W



# 3-Way Joiner

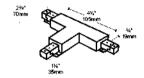
Use as standard or reverse polarity "L". Includes optional straight cover. May be used as power feed, Finish: B. W.



# "X" Connector

JA-215

Wired as two separate "L" sections. Finish: B, W



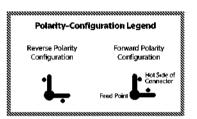
## "T" Connectors

# JA-213

May be used as feed point. Finish: B, W

# JA-214

Reverse polarity "T" Connector, May be used as feed point. Finish: B, W

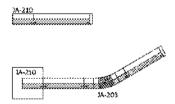


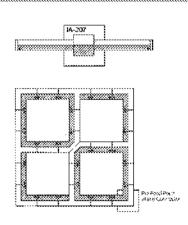
# SAMPLE LAYOUTS WITH POLARITY

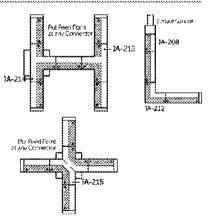
Hoor view of track on ceiling, All straight sections are IT Series Track.

**Dot =** Connector Polarity Arrow Location

Shaded Area = Hot Side of Connection / Track Section







IT 2-Circuit Line Voltage Track Specifications p. 3/3 Product specifications are subject to change into@iumenture.com P. 203.864.3333

**LUMENTURE** 



John Jay Homestead

Type:

F1B

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Page 7 of 119

# Not Used



John Jay Homestead

230042.000 **BID Submission** 10 JULY, 2024 Type:

F1C

Page 8 of 119

# Not Used



John Jay Homestead

Type: F2

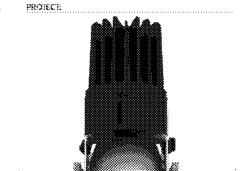
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Page IX of CXIX

# **LUMENTURE**®

**DLAGO** 2" ADJUSTABLE DOWNLIGHTS

With a discreet 2" aperture, knife-edge trim and excellent visual cutoff - Lumenture's DLA60 blends discreetly in any environment. These recessed modules offer 35 degrees of tilt and deliver high lumens without glare. The result is superior brightness and quality from an unobtrusive fixture. DLA60 is available both in remodel with an attached junction box or with optional rough-in housings to fit any construction needs.







11 cz. (module only)



8.5W-17W







120-277V











MOVEMENT 352116

**ORDERING** 



Available combinations indicated by shading in the chart below.

FIXTURE	CCVCRI *	BEAM SPREAD **	CONE COLOR	TRIM COLOR	TRIM TYP <del>E</del>	DRIVER*	OUTPUT (mA)	Mosterp Availability (** 5. Se * * 1934)	HOUSING
DLAGO	2224 - 2200K, CRI 90+	15 - 15"	₩ - Wilte	₩ - White	R - Round		200 - 8.5\\	4444	€ · Cosed
	37M - 27GEN, CHI 904	<b>25</b> 25°	8 - Black	8 - Black	S Square	T - That/SEV	225 - 12W	<b>*</b> * * * <b>*</b>	N Open
	30H - 3000K, CRI 90#	40 - 40"	5 - Sliver	S - Sliver			350 - 15W	<b>%</b> / <b>%</b>	P - Pan
	308 - 30000k, CR1 954	60 60°	€ - Gistom	€ - Gistom			250 - 11W		R - Remodel
	30K - 3000K, CRI 60+						273 - 12W		CP - Chicago
	30D 3000K, CRI 90+ (Dim-to-Warts)					U - Universal Dimming Oriver (Triac, EU/ & 0-10V)	300 - 12.5W		Plenom
	35H - 3500K CR3 50+					Alara (lian) and is to not i	350 - 15W	<b>%</b> -/ <b>%</b>	
	#0#1 - #000K, CR1 90+						400 - 17W	7	
							250 - 11W	<b>* * * * * *</b>	
						Z - 0-10V	300 - 125W	<b>%</b> , <b>%</b>	
							350 - 15W	<b>%</b> / <b>%</b>	

# NOTES

- 1. Custom options available. Please consult factory.
- 2. EM battery backup option available. Please consult factory.
- Check marks represent Housing and availability. All IA-8 Title 24 options are IC-Rated. All other options are Non-IC-Rated. Housing availability chart is for informational purposes only. Do not include in ordering.

THENEX THE EXMUNTS:			
84.48 - 84 85.	- 600	 	

# LISTINGS

Certified to UL standard 1598 and CSA C22.2 No. 250.0-08 for damp locations.



DLA60 Zin Adjustable Downlight Specifications p. 1/4

Custom options available, please consult factory. Product specifications are subject to change. info@kimenture.com Pt 203/864.3333





John Jay Homestead

230042.000 **BID Submission** 10 JULY, 2024

F3 Series

Page 10 of 119

# **DLA60** 2" ADJUSTABLE DOWNLIGHTS

# **PHOTOMETRICS**

## **LUMEN OUTPUT**

Values fluctuate based on CCT and CRI. To estimate delivered lumen output of various CCT/CRI options, multiply nominal lumens by the multiplier below.

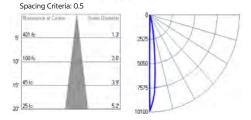
OUTPUT (mA)	WATTAGE	NOMINAL LUMENS
200	8.5W	950
250	11W	1050
275	12W	1150
300	12.5W	1200
350	15W	1450
400	17W	1600

CODE	сст	CRI	TECHNOLOGY	15°	25°	40°	60°
22H	2200K	90+	Standard	0.65	0.70	0.70	0.65
27H	2700K	90+	Standard	0.75	0.85	0.85	0.80
30H	3000K	90+	Standard	0.80	0.90	0.90	0.85
30B	3000K	95+	Standard	0.75	0.80	0.80	0.75
30K	3000K	+08	Standard	0.95	1.05	1.05	1.00
30D	3000K	90+	Dim-to-Warm	N/A	0.80	0.80	0.75
35H	3500K	90+	Standard	0.85	0.95	0.95	0.90
40H	4000K	90+	Standard	0.85	0.95	0.95	0.90

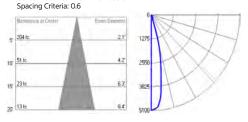
Lumenture maintains a lumen output tolerance of +/-7.5%

\*\*Dim-to-Warm dims from 3000K to 1800K

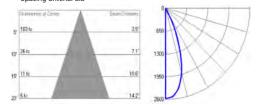
# DLA60 - 15 Degree Delivered Light Output: 1037 Lumens Total Watts @120V: 12; Lumens Per Watt: 86 Center Beam Candle Power: 10029





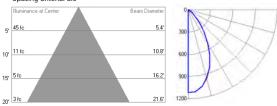


# **DLA60 - 40 Degree**Delivered Light Output: 1179 Lumens Total Watts @120V: 12; Lumens Per Watt: 98 Center Beam Candle Power: 2581 Spacing Criteria: 0.8



# **DLA60 - 60 Degree**Delivered Light Output: 1120 Lumens Total Watts @120V: 12; Lumens Per Watt: 93

Center Beam Candle Power: 1121 Spacing Criteria: 0.9



**DLA60 2in Adjustable Downlight Specifications** p. 2/4 Custom options available, please consult factory Product specifications are subject to change info@lumenture.com **P.** 203.864.3333

**LUMENTURE** version 20231106



John Jay Homestead

Туре:

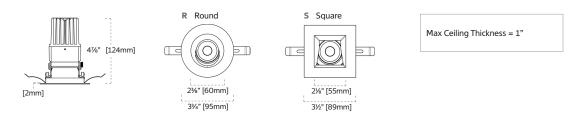
F3 Series

230042.000 **BID Submission** 10 JULY, 2024

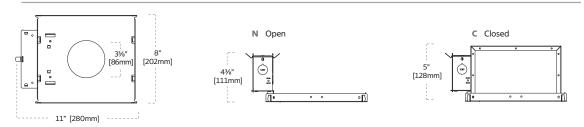
Page 11 of 119

# **DLA60** 2" ADJUSTABLE DOWNLIGHTS

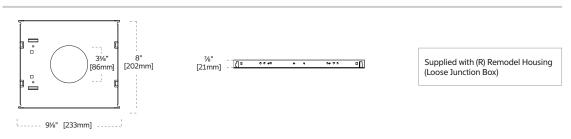
# **DIMENSIONS**



# OPEN AND CLOSED HOUSING DIMENSIONS



# PAN HOUSING DIMENSIONS



# REMODEL DIMENSIONS (Loose Junction Box)



DLA60 2in Adjustable Downlight Specifications p. 3/4 Custom options available, please consult factory Product specifications are subject to change info@lumenture.com P. 203.864.3333





John Jay Homestead

Type:

230042.000 **BID Submission** 10 JULY, 2024

F3 Series

Page 12 of 119

# **DLAGO 2" ADJUSTABLE DOWNLIGHTS**

# DIMMING

Dimming is standard and allows for smooth illumination below 1% with certain dimmer/driver combinations. The "U" (Universal) driver accepts 120-277V AC Input and is compatible with 0-10V, Triac (forward phase) and ELV (reverse phase) dimmers. The "T" (Triac/ELV) driver is 120V AC Input only and compatible with Triac and ELV dimmers. The "Z" (0-10V) driver accepts 120-277V AC Input and is compatible with 0-10V dimmers. For dimmer compatibility, refer to the Fixture Dimming Compatibility document on our website.

# **ACCESSORIES**

#### 

Field replaceable optics, accessories, and emergency teackup options available. Please consult factory.

DLA60 Zin Adjustable Downlight Specifications p. 4/4 Custom options available please consult factory Product specifications are subject to change into humanitariscom P. 203.064.3333





John Jay Homestead

Type:

F3 Series

230042.000 **BID Submission** 10 JULY, 2024

Page 13 of 119

# LCOMN

LED - Commercial Luminaire Type N



Project:	Catalogue e:	Түре:
Notes:		
(		

## Product Description

Commercial grade, LED strip luminorie, ideal for many applications requiring a law cost, small profile, lighting solution

## Accessors

Coves, unclosed parking garages, Petal, Shelving, Industrial Packs, Utility Areas



# Festures

- Shallow design
- · Surface or suspension mountable
- Available in nominal length of 24, 48, & 96 inches
- · Continuous raceway and row-mounting capability
- Standard low voltage damming (9-10v)

# Features Options

- Speedy hangers
- Aircraft cable set
- · Emergency lighting battery pack

## Getik ali System

Standard units are supplied with frosted extruded micro-grooved round polycarbonate tens.

# Mounthee

Mounting holes are provided. This product can be surface or suspension mounted.

# Construction

Die and brake-formed, code gauge, steer housing and ends. Knockouts are provided for conduit attachment.

# Finns

White, pre-painted housing.

# Electrical

Long life LEDs coupled with high efficiency drivers provide quality illumination. Rated to deliver LSO performance > 50,000 hours. Supplied with dimensible drivers (0-18v).

# Warranty

5 year limited warranty, for complete warranty, click here:



#### Approvate

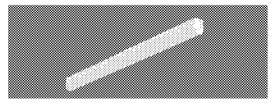
- Approved to CSA and UL standards.
- Tested in accordance to IESMA LM-79.
- Suitable for damp locations.
- DesignLights Consortium® Qualified.

All configurations may not be DLC qualified. Check www.designlephs.org/DR, for qualified configurations.

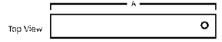








Dimensions



End View



241	38.7/81	93716T	3.7/6;
-181	44. <b>7</b> /81	21/161	27/8"
961	59 1/47	21/16"	2.7/61

Consust installation guide for exact dimensions.

Phanes graft 045-730a a recoverance construction is Specifications, and data-subgreat baselines without notice as of vita/250 a

zosobila confinitionpoliy



John Jay Homestead

230042.000 **BID Submission** 10 JULY, 2024

F4 Series

Page 14 of 119



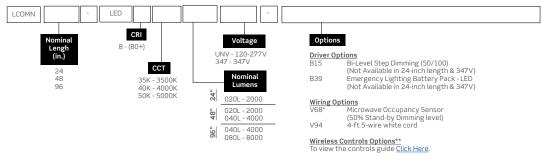
LED - Commercial Luminaire Type N



Project:	Catalogue #:	Туре:
Notes:		

# **Order Key**

# EXAMPLE: LCOMN96-LED835K040LUNV



 $^{\ast}$  Not to be used with step dimming (B15). Integrated sensor adds 2.5 inches to standalone fixture length.

 $^{\star\star}$  Some controls may impact on standalone fixture length. Consult factory for exact dimensions.

Other options may be available, consult factory. Specifications and data subject to change without notice.

## Performance Data

LED Performance Data								
Size	Nominal Lumens	Watts	Lumens per Watt					
24	2000	2037	14.4	141.2				
48	2000	2059	13.7	150.8				
40	4000	4274	30.5	140.2				
96	4000	4407	29.4	150.1				
90	8000	7982	56.4	150.1				

Values based on 840K with standard lens at 25C

Dorf	ormon	ce Sca	lina E	actor
reiii	uman	ce sca	uns r	actor

	50K	40K	35K	30K
80CRI	1.000	1.000	0.960	0.946
90CRI	0.875	0.875	0.836	0.809

	Mounted Accessories (Ordered Seperately)
KIT00001	Chain Set (2) 4ft w/ S-hooks.M10
KIT00002	Speedy Hangers (2).M23
KIT00003	Stem & Canopy Set 3/8"IP (2) 4ft.M26
KIT00043	Aircraft Cable & Canopy Set (2) 4ft.M48 (Cord not included with the kit)
KIT00044	Stem & Canopy Set Sloped Ceilings (2) 3ft.M29
KIT00045	Stem & Canopy Set Sloped Ceilings (2) 4ft.M29
KIT00046	Stem & Canopy Set Sloped Ceilings (2) 6ft.M29
KIT00047	Stem & Canopy Set 3/8"IP (2) 2ft.M26
KIT00048	Stem & Canopy Set 3/8"IP (2) 1ft.M26
KIT00050	Stem & Canopy Set 3/8"IP (2) 3ft.M26
KIT00053	Stem & Canopy Set 3/8"IP (2) 6ft.M26

Phone: (416) 245-7991 | www.viscor.com | Specifications and data subject to change without notice. | 07/10/2023

Viscor I a Leviton company



John Jay Homestead

F4 Series

Туре:

230042.000 **BID Submission** 10 JULY, 2024

Page 15 of 119





Project:	Catalogue #:	Туре:
Notes:		

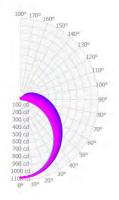
# **Photometrics**

 IES File:
 LCOMN48-LED840K040LUNV

 Lumens:
 4179

 Wattage:
 31

 Eff cacy:
 135



Zonal Lu	men Sun	ımary
Zone	Lumens	%Fixture
0.0° - 30.0°	827	19.8%
0.00 - 40.00	1364	32.6%
0.0° - 60.0°	2488	59.5%
0.0° - 90.0°	3641	87.1%
0.0° - 110.0°	3989	95.5%
0.0° - 130.0°	4137	99.0%
0.0° - 150.0°	4166	99.7%
0.0° - 170.0°	4177	100.0%
0.0° - 180.0°	4179	100.0%

		l/m2) ummary	
	0.000	45.00°	90.00°
0.000	18257	18257	18257
45.00°	16045	13336	13218
55.00°	14944	12320	12531
65.00°	13292	11448	12054
75.00°	10377	10871	11884
85.00°	4558	10900	12249

**Average Luminance Table** 

# **Coefficients of Utilization**

pc		80%			70%			50%	
ρw	70%	50%	30%	70%	50%	30%	70%	50%	30%
0	116	116	116	112	112	112	104	104	104
1	103	97	92	99	94	89	91	87	83
2	93	84	76	89	81	73	82	75	69
3	84	73	64	81	70	62	74	65	58
4	77	64	55	73	62	53	67	58	50
5	70	57	47	67	55	46	62	51	44
6	65	51	42	62	49	41	57	46	39
7	60	46	37	58	45	36	53	42	34
8	56	42	33	54	41	32	49	38	31
9	52	38	30	50	37	29	46	35	28
10	49	35	27	47	34	27	43	32	26

Effective Floor Cavity Reflectance: 20%

Phone: (416) 245-7991 | www.viscor.com | Specifications and data subject to change without notice. | 07/10/2023

Viscor I a Leviton company



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F4 Series

230042.000 **BID Submission** 10 JULY, 2024

Page 16 of 119

Type:

# Not Used



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Type: F5

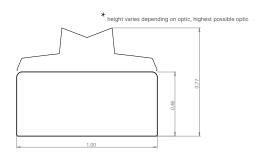
230042.000 **BID Submission** 10 JULY, 2024

Page 17 of 119

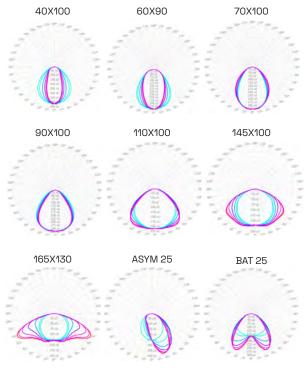
SCOUT Optic







# **Optics**



# Spec Lock

- LED specially binned through forward voltage within a 3-step MacAdam ellipse for increased CCT fidelity and smooth lower end dimming.
- Mechanically fastened Rigid PCB set within an extruded aluminum channel for simple installation and total serviceability.
- Pressure fit metal pin connection for solderless in-field connection between LED boards for a seamless appearance.
- Flexible power feed injections maintain LED pitch consistency for a plethora of mounting options.
- Never a shadow, hotspot nor break in light no matter the output and run length.
- No double-sided adhesion (tape) or soldering during installation.











S

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Page 1 of 4



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Туре:

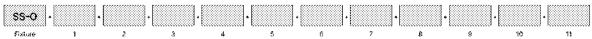
F6

230042.000 **BID Submission** 10 JULY, 2024

Page 18 of 119

Optic SCOUT

# Part # Builder



Fixture	1: Lets	2 : Intensity <sup>1</sup>	3 : Color Temp
\$9-0 : Optic	1:50 × 90 2:110 × 100 3:40 × 100 4:70 × 100 5:6AT 25 6:ASYM 25 7:145 × 100 8:90 = 100 9:165 × 130	SL: Super Low (212/m/Lów per ft) L: Low (376/m/2 3w per ft) M: Medium 1624/m/48w per ft) H: High (1055/m/8 3w per ft) SH: Super High (1232/m/98w per ft) LO: LumenDiai (Consult Factory)	22: 2200K 27: 2700K 30: 3600K 35: 3500K 40: 4900K 50: 5600K TW2235: 22K-35K TW2750: 27K-50K
4 : Finish <sup>2</sup>	5: Feed °	6 : Control	7 : Mounting
M : Mill Finish W : Gloss White (Cost Adder) 8 : Marte Black (Cost Adder) C : Custom RAL# (Cost Adder - Consult Factory)	EF End Feed RF : Rear Feed SF1 : Side Feed 1 SF2 : Side Feed 2	6: None 1: 0-10-1% Dimming 2: 0-10 - 0.1% Dimming 3: DMX/DAU 4: PCE 5:ELY / MLV / Phase 6: 0-10 Tuneable White 7: 0-10 Warm Dim 8: Lutron Hi-Lume 1% Ecosystem W/ SO-FT8 9: Lutron Hi-Lume 1% 5 Wire + 6 10: Lutron Athena Wireless Node - RF Only 11: Casambi 12: nityte 13: Enlighted 14: Other - Consult Factory	N. None E: External EM: External Magnetic T1: Tilitable Stand ELV: Esevated Mounting Ofip W: Wall Clip Custom: Consult Factory
8 : Blind Core *	9: Wire Length	10: Shape	11 : Fixture Length
Y:Yes N:No	12" 24" 48" 96" Custom - (Consult Factory)	S - Straight U - U Shape L - I, Shape R - Rectangle P - Pattern (Consult Factory)	X* Y*

# Optic Lens - Visible Diodes - 8% Light Loss

Lumens/Foot	212	376	824	1058	1232
Watts/ Foot	1.6	2.8	4.8	8.3	9,8
Lumens/Watt	135	133	131	127	125





Stress Ma

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Page 2 of 4



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Туре:

F6

230042.000 **BID Submission** 10 JULY, 2024

Page 19 of 119

Optic SCOUT

# Specification Details

	LENS	LIGHT LOSS	VISIBLE DIODES	SUPER LOW	LOW	MEDIUM	HIGH	SUPER HIGH
Watts / Foot	N/A 1.6			1.6	2.8	4.8	8.3	9.8
mA / Foot		N/A		50	89	149	256	300
Optic Lens: Lumens / Foot	Optic	8%	Yes	212	376	624	1058	1232
Optic Lens: Lumens / Watt <sup>1</sup>	Optic	8%	Yes	135	133	131	127	125
0-10 / Lutron Athena Node	Ma	ax Output 2000r	nA	40 Feet	20 Feet	12 Feet	6 Feet	4 Feet
Phase	N	Max Output 700mA 14 Feet			7 Feet	4 Feet	2 Feet	1 Foot
DMX/DALI		Consult Factory						
POE				Consult	Factory			
Lutron Drivers	LDE1  Hi-Lume 1% EcoSystem. Soft On							
Color Temperatures (K) + Flux		2200 (8	2%), 2700 (100%	%), 3000 (100%),	3500 (115%) , 40	000 (118%), 5000	(106%)	
CRI				90	)+			
R9				50	)+			
MacAdams Ellipses				3 St	eps			
Beam Angle <sup>2</sup>	120 Degrees							
IP Rating	IP20 - Dry Location							
Lamp Life	50,000 Hours							
Dimming / Control <sup>3</sup>	0-10 / POE / DMX / DALI / PHASE / LUTRON / LUTRON WIRELESS							
Operating Temperature				-13°F to	o 122°F			

# FINISH

Standard Mill Aluminum Finish.

Powder Coating to any RAL# available upon specification Increased pricing for powder coating.

# Warranty

2 Year Limited Warranty - Covers all Scout manufactured products.
Default to manufactures warranty for all 3rd party components. Does not cover labor.

# ORDER DETAILS

- All fixtures come standard with starter end cap feed unless otherwise specified.
- All Scout Select Fixtures come preassembled up to 8 feet long with 8" power feed.
- Any Fixture length under 8 feet long will be made as a complete fixture.
   Any Fixture length over 8 feet long will broken into 6 foot lengths +
- Any Fixture length over 8 feet long will broken into 6 foot lengths + the balance length. A 10 Foot Fixture will be broken into 1 length @ 6 Feet and 1 @ 4 Feet.
- Fixtures daisy chain together with Scout\_LockTM Technology.
- In situations where fixtures are longer then the maximum wattage load new power will be injected from either the side or rear. Standard Injection is side Feed 1.
- All orders come with an approval drawing. Fabrication will not begin until drawing has been signed off or waived.

\*\*Lumens / Watt accounts nominal driver efficacy at full load
\*\*Finish: Mill\*Finish comes standard. Cost Adder for Power Coating. Contact Factory for Custom RAL#
\*\*Feed: See Feed Details on page 4

S

# LED SYSTEM

Proprietary linear LED Scout Engine incorporates premium Cree LEDs on a robust platform to achieve excellent thermal management. LEDs are placed to promote a uniform appearance.

Available in 2200K, 2700K, 3000K, 3500K, 4000K or 5000K in 90+ CRI. LED modules and drivers are replaceable.

Color accuracy <3 SDCM

# CONSTRUCTION

One piece extruded aluminum housing. Cast aluminum end caps.

# OPTICS

Extruded High Transmission Milky Acrylic Lens with No LED imaging. Extruded High Transmission Frosted Acrylic Lens with LED imaging.

# FLECTRICAL

Fixture comes reassembled with 8" whip. All Drivers are installed in remote location.

All drivers are Universal input 120-277 VAC.

Standard Constant Current drivers include 0-10V dimming preinstalled in enclosure.

# LABELS

Conforms To UL STD 2108Certified To CSA STD C22.2 # 250.0 Suitable for Dry or Damp Locations, indoor use only. ETL Control # 5011600

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Page 3 of 4



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Type:

F6

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Page 20 of 119

# Optic SCOUT

# **Mounting Clips** Feed Points External Clip (100%) ..... External Magnetic Side Feed 1 End Feed Rear Feed Side Feed 2 ...... (1986.) . 1986 Watt Clip Patterns Tiitable Stand (155g) Coplanar surfaces Changing alevations

Page 4 of 4



S

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Туре:

info@scouttighting.com | www.scoutlighting.com | 646-350-5025 Updated 4/23/24

**Oustom patterns** 

F6

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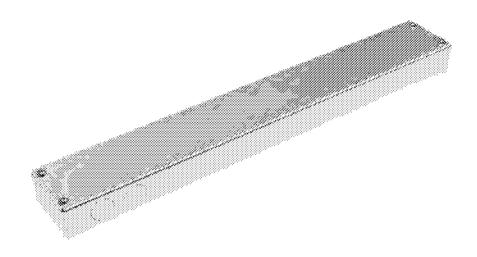
Elevated Clip

Page 21 of 119



# 75 WATT 0-10 LED DRIVER PART #SDRVCC01075

Project :	Firm:	Type :	Quantity:



# Quick Specs

Driver Type	Constant Current
Dimming Control	0-10 : 1%
# of Channels	1
DC Voltage Range	27-54 VDC
AC Input Valtage	120 - 277
Class	2
mA	2000
Wattage	<i>7</i> 5
Warranty	5 years

Efficency

# Max Load (2000mA)

Super Low (50mA)	40 Feet
Low (89mA)	22 Fe <i>e</i> t
Medium [149mA]	13 Feet
High (250mA)	8 Feet
Super High (300mA)	5 Feet

# Max Distance

20 AWG	20 Feet
18 AWG	40 Feet
lo AWC	60 feel
14 AWG	100 Feet
12 AWG	150 Feet

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New York, Nit 1.8305/COUTLD www.Scoutlighting.com hfos/Scoutlighting.com





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>90%

Type:

F6

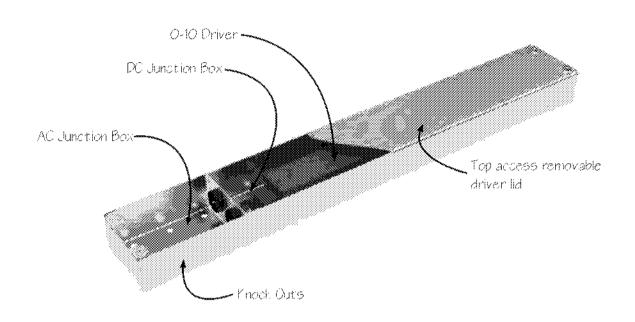
230042.000 **BID Submission** 10 JULY, 2024

Page 22 of 119

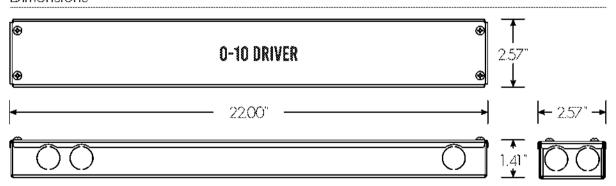


# 75 WATT 0-10 LED DRIVER PART #SDRVCC01075

# Driver Anatomy



# Dimensions



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Type:

F6

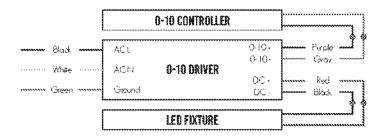
230042.000 **BID Submission** 10 JULY, 2024

Page 23 of 119

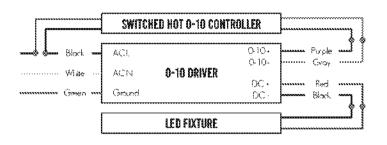


# 75 WATT 0-10 LED DRIVER PART #SDRVCC01075

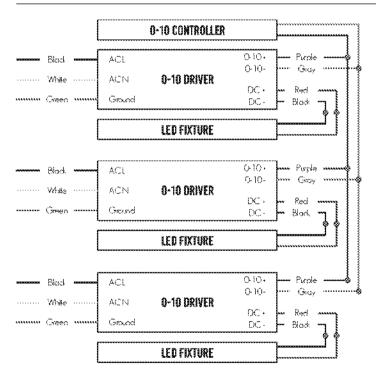
# Wiring



Single 0-10 wiring



Switched Hot 0-10 Wiring

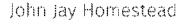


Multiple fixture wiring to single 0-10 Dimmer

> New York, MY 1.830.5450000.0 www.fooulbglibng.com Info-vScoult/ghling.com



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Type:

F<sub>6</sub>



230042.000 **BID Submission** 10 JULY, 2024

Page 24 of 119

# alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

# BETA 3

# 3" Cylinder Standard White



15° - 60° BEAM (Note: Specifications are subject to change without notice)			
14mm COB PERFORMANCE DATA  LED LIGHT NOMINAL DELIVERED SYSTEM ENGINE LUMENS WATTAGE			
10LM	1180LM @30K/80CRI	11W	
15LM	1370LM @30K/80CRI	13W	
20LM	1770LM @30K/80CRI	17W	
10LM	1180LM @30K/90CRI	11W	
15LM	1370LM @30K/90CRI	13W	
20LM	1770LM @30K/90CRI	17W	
Notes Delivered lumens based on 40C, 3000K (see page 2)			



**CAS**MBI

#### FEATURES

- Seamless extrusion with powder coated finish for clean aesthetics
- Thermally optimized for longevity
- 15° 60° beam spread
- UGR < 19
- Micro slim canopy options at 1/4"-3/8" depth plus 1/2" diameter stem.
- Multiple mounting, glare control options, trims and finishes available

# LED

- $\bullet$  90 CRI: SDCM = 2-step MacAdam Ellipse, Lumen Maintenance:  $L_{70}$  > 66,000 hrs
- $\blacksquare$  80 CRI: SDCM = 2-step MacAdam Ellipse, Lumen Maintenance:  $L_{70}$  > 66,000 hrs

#### **DIMMING AND CONTROLS**

- Flicker free 0-10V dimming to 1%
- Leading & trailing edge (Triac/ELV) dimming to 1%
- Lutron Hi-lume 2-Wire (Eco System) dimming to 0.1%
- Casambi bluetooth dimming to 1%

#### CONSTRUCTION

- Extruded aluminum housing
- Lexan™ (PC) Optimal connectivity for wireless control signal
- Machined aluminum canopy
- SVT pendant cord

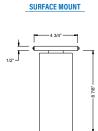
# LISTIN

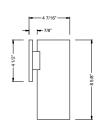
- ULus Listed to UL1598 & UL2108; cUL Listed to CSA C22.2 #250.0
- Suitable for dry and damp locations
- 5 Year Limited warranty

# ELECTRICAL

- = 120V-277V, 120 only Triac / ELV
- Power factory ≥ 0.9
- 2kV driver input surge protection
- Remote emergency test switch
- •7 W, 10W (T20 CEC) and 12W EM 90min battery

# PENDANT





WALL MOUNT



Alphabet by Ledra Brands, Inc. | 88 Maxwell Irvine, CA 92618 | PH: 714.259.9959 FAX: 714.259.9969 | AlphabetLighting.com

In a continuing effort to offer the best product possible we reserve the right to change, without notice, specifications or materials that in our opinion will not alter the function of the product

v.10.18.23

Beta3R

Page 1 of 7



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Type:

-7

230042.000 **BID Submission** 10 JULY, 2024

Page 25 of 119

# alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

ORDERING CODE				
SERIES	BETA BETA			
TYPE	3R	3" round		
LED	SW	standard white		
	10LM	1180 lm		
	15LM	1370 lm		
DELIVERED	20LM	1770 lm		
LUMENS		Configuration: 3000K 80CRI 40C NL d Delivered Lumens = [Delivered Lumen Value] x [CCT Multiplier] x [Reflecto ]		
	27K	2700K   CCT   2700K   3000K   3500K   4000K		
ССТ	30K	3000K CRI 80+ 90+ 80+ 90+ 80+ 90+ 80+ 90	+	
CCI	35K	3500K   CCT MULTIPLIER   0.96   0.81   1   0.84   1.01   0.85   1.03   0.8	37	
	40K	4000K OUTPUT		
CRI	80	80 CRI		
Cni	90	90 CRI		
	15C1	15° reflector with clear lens	(0.95)	
	20C	20° reflector with clear lens	(0.97)	
	25C	25° reflector with clear lens	(0.97)	
	40C	40° reflector with clear lens	(0.96)	
	55C	55° reflector with clear lens	(0.95)	
	40D	40° reflector with diffused lens	(0.93)	
OPTIC & LM Multiplier	45D	45° reflector with diffused lens	(0.92)	
SEE PAGE 3	50D	50° reflector with diffused lens	(0.92)	
	60D	60° reflector with diffused lens	(0.93)	
	20HET <sup>1</sup>	20° high efficiency textured lens, similar to Solite™	(0.94)	
	25HET	25° high efficiency textured lens, similar to Solite™	(0.98)	
	30HET	30° high efficiency textured lens, similar to Solite™	(0.95)	
	40HET	40° high efficiency textured lens, similar to Solite™	(0.99)	
	50HET	50° high efficiency textured lens, similar to Solite™	(0.99)	
ACCESSORY	HCL <sup>2</sup>	honeycomb louver		
DETEL LENG	Attached to b			
BEZEL LENS	NL <sup>3</sup>	no lens	(1.00)	
FINISH	BK	black		
SEE PAGE 3	WH	white		
	MC	matte chrome	(0.00)	
	BK	black	(0.98)	
BEZEL	WH	white	(1.00)	
COLOR SEE PAGE 3	MC	matte chrome	(0.99)	
JELINGE 3	BZ	bronze	(0.98)	
	WT	wheat	(0.99)	

ORDERING CODE			
W		wall mount	
	S	surface mount	
	JCOV-S	conduit junction box cover with knockouts, surface	
	P	pendant, 108" flexible cord	
	RP	rigid pendant 4' stem with swivel stem/canopy	
	RP5	rigid pendant 5' stem with swivel stem/canopy	
MOUNTING	RP6	rigid pendant 6' stem with swivel stem/canopy	
OPTIONS	RP8	rigid pendant 8' stem with swivel stem/canopy	
SEE PAGE 6	RP10	rigid pendant 10' stem with swivel stem/canopy	
	RPF2	rigid pendant 2' with fixed stem/canopy	
	RPF3	rigid pendant 3' with fixed stem/canopy	
	RPF4	rigid pendant 4' with fixed stem/canopy	
	RPF6	rigid pendant 6' with fixed stem/canopy	
JCOV-XX <sup>4</sup>		conduit junction box cover with knockouts, complete XX code with desired pendant mount	
VOLTAGE 120 UNV		120V	
		120V-277V	
	DIM10	0-10V dimming to 1%	
LUTP		Lutron Hi-lume Premier Ecosystem dimming to 0.1%, Soft-on & Fade-to-Black	
	ELV1 <sup>5</sup>	leading & trailing edge (Triac/ELV) dimming to 1%	
	CAS	Casambi Bluetooth control with flicker free 1% dimming	
	EM7	remote emergency battery backup, 90 minutes at 7 watts to LED	
ELECTRICAL OPTIONS	EM12	remote emergency battery backup, 90 minutes at 12 watts to LED	
	EM10CA20	remote emergency battery backup, 90 minutes at 10W to LED, CA title 20	

YOUR COMPLETED ORDERING CODE		
Follow the steps to specify your fixture, example:		
BETA - 3R - SW - 15LM - 35K - 80 - 20C - WH - WH - P - UNV - DIM10 - EM7		

- 1. 15C and HET20 available in 10LM/15LM.
- 2. HCL not available with lens. Multiplier: Delivered Lumens (0.80) / Beam Spread (0.80).
- 3. NL option available for 15C/20C/25C/40C/55C.
- 4. JCOV not available with RP mounting.
- 5. ELV1 available in 120V.

"Slim canopy with rigid stem connection shall be used in jurisdictions that DO NOT require light fixtures to freely swing in lateral directions, complying with local and national building codes.

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230042.000 **BID Submission** 10 JULY, 2024

Page 26 of 119



PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

# BEZEL OPTIONS

# **BEZEL COLORS**





MC





ΒZ



# OPTICAL OPTIONS

- UGR calculation based on CIE 117-1995; room size: 4H X 8H, reflectance: 70/50/20;
- UGR calculation based on 15LM fixtures.



OPTIC	BEAM ANGLE	UGR
15C	16.2	17.1
20C	20.6	17.3
25C	23.5	17.5
40C	37.4	18
55C	55.8	18.6



OPTIC	BEAM ANGLE	UGR
40D	42.6	21.9
45D	45.2	22.2
50D	52.4	22.9
60D	58.9	23.6



OPTIC	BEAM ANGLE	UGR
20HET	19.5	17.7
25HET	24.4	18
30HET	27	18.6
40HET	38.5	19.1
50HET	49.5	19.4



OPTIC	BEAM ANGLE	UGR
15C	14	17.2
20C	21	16.6
25C	25	16.8
40C	39	17.7
55C	55	18



OPTIC	BEAM ANGLE	UGR
15C	12	≤5
20C	16	≤5
25C	20	≤5
40C	32	≤5
55C	44	≤5

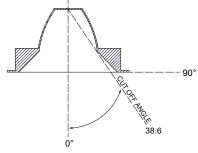
# GLARE CONTROL

# **CUT-OFF ANGLE**

Visual comfort is achieved with a lower cut-off angle due to improved glare control. The smaller the cut-off angle, the easier it is on the eye.

Alphabet downlights have been thoughtfully engineered to eliminate glare while still delivering functional illumination.

• Cutoff angle of CL is 38.6 degrees;



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Beta3R

Page 3 of 7



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Type:

F7

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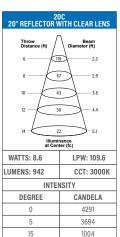
Page 27 of 119



PROJECT INFORMATION				
	JOB NAME		TYPE	
	ORDERING CODE			

# PHOTOMETRIC DATA

10LM CCT MULTIPLIERS		
	80CRI	90CRI
2700K	0.96	0.81
3000K	1	0.85
3500K	1.03	0.88
4000K	1.06	0.91
EC Formula - CPCB / Distance <sup>2</sup>		

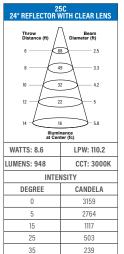


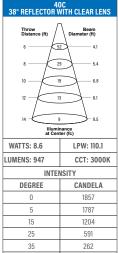
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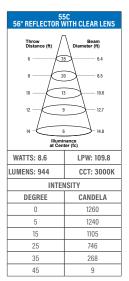
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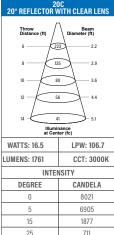
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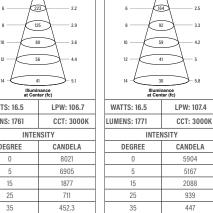


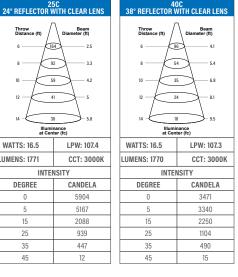




20LM CCT MULTIPLIERS		
	80CRI	90CRI
2700K	0.96	0.81
3000K	1	0.85
3500K	1.03	0.88
4000K	1.06	0.91
FC Formula - CRCP / Distance <sup>2</sup>		







55C 56° REFLECTOR WITH CLEAR LENS		
Throw Distance (ft)	Beam Diameter (ft)	
6	6.4	
8 - 3	7 8.5	
102	10.6	
12 11	12.7	
14 — 12 — 14.8		
at Center (fc)		
WATTS: 16.5	LPW: 107	
LUMENS: 1765	CCT: 3000K	
INTENSITY		
DEGREE	CANDELA	
0	2356	
5	2318	
15	2065	
25	1394	
35	501	
45	17	

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12

In a continuing effort to offer the best product possible we reserve the right to change, without notice, specifications or materials that in our opinion will not alter the function of the product.

45

v.10.18.23

Beta3R

Page 4 of 7



John Jay Homestead

45

Туре:

230042.000 **BID Submission** 10 JULY, 2024

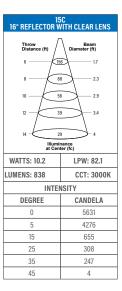
Page 28 of 119



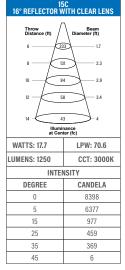
PROJECT INFORMATION				
	JOB NAME		TYPE	
	ORDERING CODE			

# PHOTOMETRIC DATA

10LM CCT MULTIPLIERS		
	80CRI	90CRI
2700K	0.96	0.81
3000K	1	0.85
3500K	1.03	0.88
4000K	1.06	0.91
EC Formula - CPCB / Distance <sup>2</sup>		



15LM CCT MULTIPLIERS		
	80CRI	90CRI
2700K	0.96	0.81
3000K	1	0.85
3500K	1.03	0.88
4000K	1.06	0.91
FC Formula = CBCP / Distance <sup>2</sup>		



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Page 5 of 7



John Jay Homestead

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230042.000 **BID Submission** 10 JULY, 2024

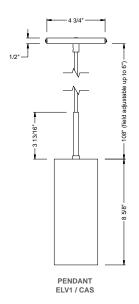
Page 29 of 119

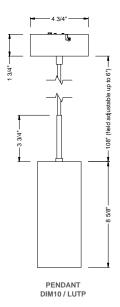
Туре:

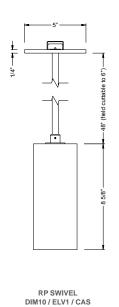


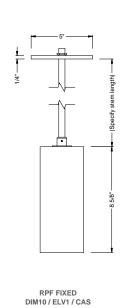
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

# MOUNTING OPTIONS

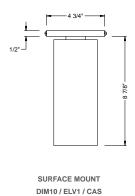


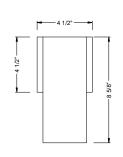


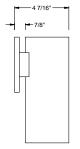


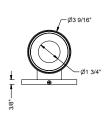












WALL MOUNT DIM10 / ELV1 / CAS

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v.10.18.23

Beta3R

Page 6 of 7



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Type:

-7

230042.000 **BID Submission** 10 JULY, 2024

Page 30 of 119



PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

# **BATTERY OPTIONS**

# **EMERGENCY BATTERY**

IOTA's ILB battery backups are UL Listed LED emergency drivers that allow the same LED fixture to be used for both normal and emergency operation. In the event of a power failure, the ILB switches to the emergency mode and operates the existing fixture for 90 minutes. The unit contains a battery, charger, and converter circuit in a single can. The constant power design of the ILB maintains the output wattage to the LED array even as the system voltage diminishes. UL 924 Listed for U.S. and Canada. UL 1310 Certified, output class 2 compliant. Includes single-piece TBTS test switch and charge indicator accessory kit. For use with switched and unswitched fixtures, and includes two-wire universal AC input. Meets or exceeds all National Electric Code and Life Safety Code Emergency Lighting requirements. Rated for use in plenum, damp location, recessed type IC, and enclosed and gasketed luminares.

# REMOTE TEST SWITCH

The remote test switch may be mounted adjacent to the LED Fixture by others.

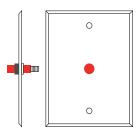
## **EMERGENCY BATTERY ACCESS**

Above ceiling access is recommended for ease of service.

# REMOTE LOCATION

Maximum remote mounting distance of the emergency driver shall be 50 feet.

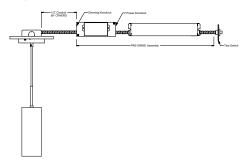
Remote location wiring provided by others. Follow all local and national electric/
building codes.

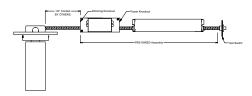


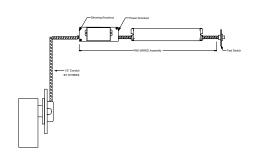
Remote Test Switch

EM MODE OUTPUT (DELIVERED LUMENS)			
LUMEN ORDERING CODE	EM7	EM10	EM12
ALL OPTIONS (10LM TO 20LM)	880LM	1280LM	1480LM
Notes: Based on 30K, 80CRI			

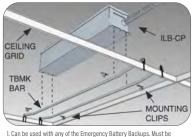
# **REMOTE BATTERY**







Accessory 76066 Optional T-Grid Mounting Kit<sup>1</sup>



ordered as a separate line item.

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Beta3R Page 7 of 7

Туре:

v.10.18.23

F7



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230042.000 **BID Submission** 10 JULY, 2024

Page 31 of 119

# Not Used



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Type: F8

230042.000 **BID Submission** 10 JULY, 2024

Page 32 of 119



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Туре:

230042.000 **BID Submission** 10 JULY, 2024

Page 33 of 119

# **LUMENTURE**® **T40** TRACK HEADS

The T40 track cylinder is designed to blend seamlessly into a wide range of environments - including retail, commercial, restaurant and hospitality settings. The T40 comes standard with Lumenture's patent-pending, low-profile mini track adapter and is available in both round and square designs. Specification level details - including no exposed hardware, special attention to finish and the ability to integrate a number of accessories - make the T40 one of the leading-edge track heads on the market.

PROJECT:			
and the second second	<b>*</b> *	7 <b>7 100</b> 00	
			4400
.20	dila.		
		<b>4</b> 00.	

















DIMMING Toac, ELV

WEIGHT

WATTAGE

**EFFICACY** up to 6000m up to Bālm/W INPUT 120V AC

Cold forged aluminum hausing. Powdercoax

**ACCESSORIES** Field replaceable option & accesMOVEMENT 90° till 366° rotetion

#### **ORDERING**

FIXTURE T40 - Round	22H-2200K, CRI 90+	LUMENS 600	BEAM SPREAD®	FINISH W-White	MOUNTING TYPE III  J - J Type (Standard)	ACCESSORIES **  SN - Standard Tapered Snoot **
<b>T408</b> - Square	27H - 2700K, CR190+		40 40°	8 - Black	६ - LType	SNC - Cylinder Snoot ©
	30H - 3000K, CRI 90+			<b>5</b> - Silver	MC - Micro Canopy	JA-18-[Ferish)-Cover - Deep
	308 - 3000K, CRI 95+				SC - Stim Canopy	Canopy Collar
	300 - 3000K, CRI 90+ (Dim-to-Warm)					
	35M - 3500K, CR: 90+					
	40H - 4000K, CRI 90+					

## NOTES

- Custom options available. Please consult factory.
- Mini Adapter is for single-circuit only.
- 3. See page (3) for a full list of accessories and canopy accessories.
- 4. Available for T4OS (square) only.
- 5. Available for T40 (round) only.

### ORDERING EXAMPLE:

380 - 931 - 800

#### LISTINGS

Certifled to UL standard 1574 and CSA C22.2 No. 9.0 for dry locations



T40 Track Head Specifications p. 1/4 Custom options available, plasse consult factory Product specifications are subject to change into Numeriore.com R 2033643333

**L**UMENTURE



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230042.000 **BID Submission** 

10 JULY, 2024

F10 Series

Page 34 of 119

# **T40** TRACK HEADS

## **PHOTOMETRICS**

#### LUMEN OUTPUT

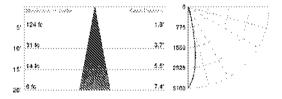
Values fluctuate based on CCT/CRI. To estimate delivered lumen output of the various CCT/CRI options, multiply nominal lumens (600 lumens) by the multiplier below.

5564	444	.98	(UCHPOLISH)	4.5	6.0
2211	2200K	904	Standard	0.75	0.75
2714	2700K	904	Standard	0.85	0.85
30H	3000K	90+	Standard	3,00	1.00
308	3006K	95+	Standard	0.80	080
30D	3006K	90+	Dim-to-Warm*	0.80*	0.80*
36H	3500K	90+	Standard	1.05	3,05
4014	4000K	904	Standard	105	wa

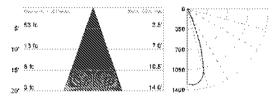
#### NOTES

Lumeriture maintains a lumen output tolerance of +/-75% 1. Dim-to-Warm dims from 3000K to 1800K

T40 - 22 Degree
Delivered Light Output: 590 Lumene
Total Worts 9/20/4. 7;
Lumene Per Watt: 84
Center Beam Centile Power; 3442
Spacing Criteria: 0.4

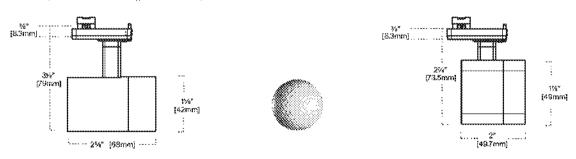


T40 - 40 Degree Delivered Light Output 610 Lumens Total Watte @120V: 7: Cumens Per Welt; 87 Center Beam Candie Power 1375 Spacing Criteria: 0.6



# DIMENSIONS

Standard option shown with our J-Type mini track adapter.



T40 Track Head Specifications p. 2/4
Custom options available, please consult factory
Product specifications are subject to change
mo@himenbire.com P. 203,864,3333





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230042.000 **BID Submission** 10 JULY, 2024

Type:

F10 Series

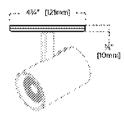
Page 35 of 119

# **T40** TRACK HEADS

# **INTEGRAL CANOPY (Factory Installed)**

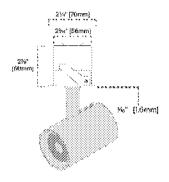
## SC (Slim Canopy)

The slim canopy mounts directly over a standard junction box resulting in an elegant and clean install of Lumenture's award-winning T-Series track fixtures. Finish: B, S, W



#### MC (Micro Canopy)

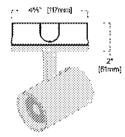
With a minimal 2.75" trim, the Lumenture micro-canopy virtually "disappears" into the ceiling - offering an even more refined look for the most high-end applications. Finish: B, S, W



# **CANOPY ACCESSORIES (Ordered Separately)**

## JA-18-[Finish]-Cover (Deep Canopy Collar)

The JA-18 Cover helps shield unsightly surface mount J-Boxes and blends seamlessly with the Lumenture JA-18 or SC Slim Canopy (sold separately). Finish: B, W



Ordering Example: JA-18-B-Cover

Finish Codes:

B -- Black

S - Saver W - White

T40 Track Head Specifications p. 3/4
Custom options available, please consult factory
Product specifications are subject to change
mo@himenbire.com P. 203,864,3333





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230042.000

**BID Submission** 

10 JULY, 2024

Type:

F10 Series

Page 36 of 119

# **T40** TRACK HEADS

## DIMMING

Dimming is standard and allows for smooth illumination below 1% with certain dimmers. Compatible with most Triac (forward phase) and ELV (reverse phase) dimmers. For dimmer competibility, refer to the Fixture Dimming Compatibility document on our website.

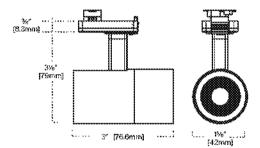
## TRACK COMPATIBILITY

Lumenture J-Type Mini Adapters are designed for use with Lumenture's track systems, as well as Juno® & Contech® track. Our L-Type adapter is compatible with Lightolier® track. Due to it's patent-pending small form factor, the Mini Adapter is single circuit only.

## **ACCESSORIES**

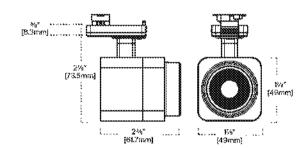
#### SMC (Cylinder Shoot)

Will accept up to two (2) accessories. Finism W, B, S. The inside surface is black. Available for T40 Round only.



### SM (Standard Tapered Shoot)

Will accept up to two (2) accessories. Finish: W, B, S. The inside surface is black. Available with T40S Square only.



#### LENS ACCESSORIES

Field replaceable optics available. Please consult fectory.







(Soute)

#### NOTES

Field replaceable optics and accessories available. Please consult factory.

1. Accessory regulies a shoot.

T40 Track Head Specifications p. 4/4 Custom options available, please consult factory Product specifications are subject to change mobblemerbire.com P. 203,864,3/33





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Туре

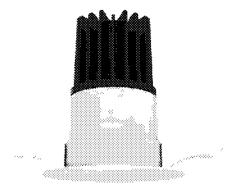
F10 Series

230042.000 **BID Submission** 10 JULY, 2024

Page 37 of 119

# **LUMENTURE**® **DL60** 2" FIXED DOWNLIGHTS

PROTECT



With a 2" aperture, knife-edge trim and excellent visual cutoff -Lumenture's DL60 blends discreetly in any environment. These recessed modules deliver high lumens without glare. The result is superior brightness and quality from an unobtrusive fixture. The DL60 is available both in remodel with an attached junction box or with optional rough-in housings to fit any construction needs.







WEIGHT 13.5 oz. (module onty)



WATTAGE 8.5W-15W



EFFICACY up to 3450km up to 331km/W



AC DRIVER INPUT 120-2771



HOUSING Open, Closed, Remodel, Pan



FINISH Alumnum module & trim, Powde or anodized



ACCESSORIES Field replaceable polics & accessories

# **ORDERING**





#### IAS-TITLE 24

Available combinations indicated by shading in the chart below.

FIXTURE	CEPCRI®	BEAM SPREAD®	CONE COLOR	TRIM COLOR	TRIM TYPE "	DRIVER®	OUTPUT (mA)	Mangang Acadatologi CBDBQP	HOUSING
D150	228 2200K, CRI 90+	<b>15</b> - 15°	₩ · White	₩ · white	R - Round		200 - 8.5W	11117	C - Clased
	2714 - 2700K, CR1-904	<b>25</b> - 25°	B - Black	B - Black	RF - Round Hangeless	T - Yriac/ELV	275 - 1294	<b>*</b> / / / <b>*</b>	₩ - Open
	30N 3000K, CR1904	40 - 40°	5 - Silver	5 - Silver	我快 - Round Wat		350 · 15W	<b>%</b> / <b>%</b>	<b>9</b> - 9an
	308 - 3000K, CRI 95+	<b>50</b> - 60°	C - Custom	C - Custom	RPW - Round Rangeless Wet		250 - 11W	<b>2</b> 000	R - Remodal
	30K - 3000K, CRI 80+				5 - Square	U - Uraversal Demmang	275 - 12W		CP - Chicago
	300 - WHO: (RE904				5F - Square Flangeless	Oriver (Triac, ELV & O-10V)	300 - 12.5W	<b>*</b> / <b>*</b>	Plenum
	(Cion-ro-Merro)				S₩ - Square Wet		350 - 15W	<b>*</b> / <b>*</b>	
	36H - 3000K, CRI 904				SFW - Square Rangeless Wet		250 - 1399	<b>*</b> /// <b>*</b>	
	4004 - 4000K ( P1.90+					Z - 0-10V	306 17.5W	<b>%</b> / <b>%</b>	
							350 - 15W	<b>2</b> 2 <b>3</b> 8	

#### NOTES

- 1. Custom options available. Please consult factory.
- 2. When "wet" trim is added, the fixtures are Wet Location Rated
- EM battery backup option available. Please consult factory.
   Check marks represent Housing/mA availability. All IA-B Title 24 options are IC-Rated. All other options are Non-IC-Rated. Housing availability chart is for informational purposes only. Do not include in ordering.

### ORDERING EXAMPLE:

3630 - 338 - 15

Certified to UL standard 1598 and CSA C22.2 No. 250.0-08 for damp locations. Airtight (AT) certified less than 2 cfm leakage @ 1.57PSI per ASTM E283.













DL60 Zin Fixed Downlight Specifications p. 1/4

Custom options available, please consult factory Product specifications are subject to mange info@kimenture.com Pt 203/864.3333



John Jay Homestead

Type:

F11

230042.000 **BID Submission** 10 JULY, 2024

Page 38 of 119

# **DL60** 2" FIXED DOWNLIGHTS

# **PHOTOMETRICS**

#### **LUMEN OUTPUT**

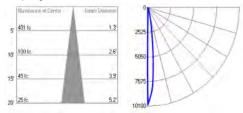
Values fluctuate based on CCT and CRI. To estimate delivered lumen output of various CCT/CRI options, multiply nominal lumens by the multiplier below.

OUTPUT (mA)	WATTAGE	NOMINAL LUMENS
200	8.5W	950
250	11W	1050
275	12W	1150
300	12.5W	1200
350	15W	1450

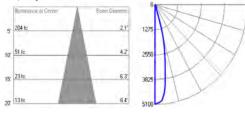
CODE	сст	CRI	TECHNOLOGY	15°	25°	40°	60°
22H	2200K	90+	Standard	0.65	0.70	0.70	0.65
27H	2700K	90+	Standard	0.75	0.85	0.85	0.80
30H	3000K	90+	Standard	0.80	0.90	0.90	0.85
30B	3000K	95+	Standard	0.75	0.80	0.80	0.75
30K	3000K	+08	Standard	0.95	1.05	1.05	1.00
30D	3000K	90+	Dim-to-Warm	N/A	0.80	0.80	0.75
35H	3500K	90+	Standard	0.85	0.95	0.95	0.90
40H	4000K	90+	Standard	0.85	0.95	0.95	0.90

Lumenture maintains a lumen output tolerance of +/-7.5%\*\*Dim-to-Warm dims from 3000K to 1800K

DL60 - 15 Degree Delivered Light Output: 1037 Lumens Total Watts @120V: 12; Lumens Per Watt: 86 Center Beam Candle Power: 10029 Spacing Criteria: 0.5

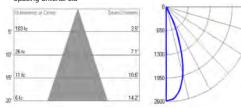


DL60 - 25 Degree Delivered Light Output: 1173 Lumens Total Watts @120V: 12; Lumens Per Watt: 98 Center Beam Candle Power: 5090 Spacing Criteria: 0.6



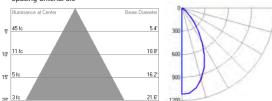
## DL60 - 40 Degree

Delivered Light Output: 1179 Lumens Total Watts @120V: 12; Lumens Per Watt: 98 Center Beam Candle Power: 2581 Spacing Criteria: 0.8



## DL60 - 60 Degree

Delivered Light Output: 1120 Lumens Total Watts @120V: 12; Lumens Per Watt: 93 Center Beam Candle Power: 1121 Spacing Criteria: 0.9



**DL60 2in Fixed Downlight Specifications** p. 2/4 Custom options available, please consult factory Product specifications are subject to change info@lumenture.com **P.** 203.864.3333

**LUMENTURE**\* version 20231012



John Jay Homestead

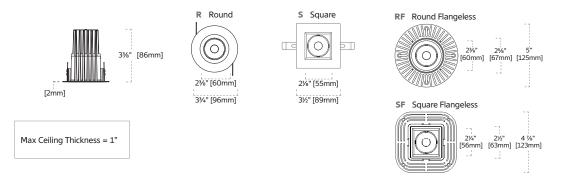
Туре:

230042.000 **BID Submission** 10 JULY, 2024

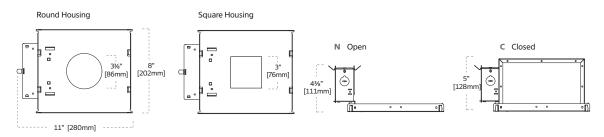
Page 39 of 119

# **DL60** 2" FIXED DOWNLIGHTS

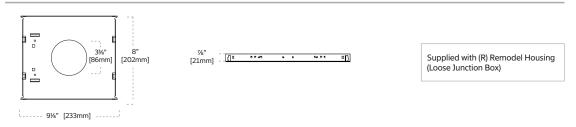
# **DIMENSIONS**



# OPEN AND CLOSED HOUSING DIMENSIONS



# PAN HOUSING DIMENSIONS



# REMODEL DIMENSIONS (Loose Junction Box)



**DL60 2in Fixed Downlight Specifications** p. 3/4 Custom options available, please consult factory Product specifications are subject to change info@lumenture.com **P.** 203.864.3333





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Type:

F11

230042.000 **BID Submission** 10 JULY, 2024

Page 40 of 119

# **DL60** 2" FIXED DOWNLIGHTS

# DIMMING

RO (Rose)

Dimming is standard and allows for smooth illumination below 1% with certain dimmer/driver combinations. The "U" (Universal) driver accepts 120-277V AC Input and is compatible with 0-10V, Triac (forward phase) and ELV (reverse phase) dimmers. The "T" (Triac/ELV) driver is 120V AC Input only and compatible with Triac and ELV dimmers. The "Z" (0-10V) driver accepts 120-277V AC Input and is compatible with 0-10V dimmers. For dimmer compatibility, refer to the Fixture Dimming Compatibility document on our website.

## 

Ht. (Black Honeycomb Louver) # LS (Linear Spread)

Field replaceable optics, accessories, and envergency backup options available. Please consult factory, for well location, only US (Linear Spread) and SOL (Solite) films can be added.

Ot 60 2n Fixed Downlight Specifications p. 4/4 Custom options available, please consult factory Roduct specifications are subject to change intoflumenture.com R 2013/164-3333



SOL (Solite)



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Type:

F11

230042.000 **BID Submission** 10 JULY, 2024

Page 41 of 119



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Type: F12

230042.000 **BID Submission** 10 JULY, 2024

Page 42 of 119



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230042.000 **BID Submission** 10 JULY, 2024 Туре:

F12A

Page 43 of 119



John Jay Homestead

Type: F13

230042.000 **BID Submission** 10 JULY, 2024

Page 44 of 119



John Jay Homestead

F14

Туре:

230042.000 **BID Submission** 10 JULY, 2024

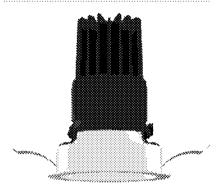
Page 45 of 119

# **LUMENTURE**\* **DLA75** 3" ADJUSTABLE DOWNLIGHTS

YPE:	

PROJECTE

With a discreet 3" aperture, knife-edge trim and excellent visual cutoff - Lumenture's DLA75 blends discreetly into any environment. These recessed modules offer 35 degrees of tilt and deliver high lumens without glare. The result is superior brightness and quality from an unobtrusive fixture. DLA75 is available both in remodel with an attached junction box or with optional rough-in housings to fit any construction needs.















FINISH



ACCESSORIES Field replaceable





DISTMING Trusc Fit

WEIGHT (module only) WATTAGE 6.5W-17W

EFFICACY unto iscinim up to thim/W

INPUT 120-277V Closed, Open, Pan, Remodel, Chicago Plenum

Aluminum module

#### MOVEMENT 35510

# **ORDERING**

FIXTURE DLA75	22H - 2700K CR 90+ 27H - 2700K CR 90+ 27H - 2700K CR 90- 40H - ROOK CRI90A	<b>25 -</b> 25° <b>40 -</b> 40°	CONSECUTION IN THE COLOR IN THE	TRIM COLOR III W - White B - Stack S - Steer	<b>R8F -</b> Round Plangeless <b>S</b> - Square	DHIVER D  U - Universal Dimming Driver (frac EU & GAOM)  D1 - Blood On ULE Doode (1996 dimmina)	200 - 8.5W 200 - 8.5W 250 - 11W 200 - 8	HOUSING/ J-BOX C - Closed N - Open P - Pan
	308 - 3000K, GRI 95 F	<b>60 -</b> 60°			SF - Square Flangeless	Erras awaladi	3GO - 12.5W 38 2	R - Remodel
	200 - 2000K CR-904 (201-10-West) 25H - 3500K CR-904 40H - 4500K CR-904					III- EideLED 0-10v (0.1% demourg)	350 - 15w	<b>CP -</b> Chicago Plenum

# NOTES

- 1. Custom options available. Please consult factory.
- 2. EM battery backup option available. See page (4).
- 3. Housing availability chart is for informational purposes only. Do not include in ordering.
- Optional butterfly brackets available. See accessories on page (4). Butterfly brackets and factory installed brackets are required for acoustical celling tile (ACT) cellings.

# Available, Non-IC Rasid Availatiks, C. Ralest, Toto: 24 Control Available, C-Kaked

#### ORDERING EXAMPLE:

#### LISTINGS

Certifled to UE standard 1598 and CSA C22.2 No. 250.0-98 for damp locations



DLA75 3in Adjustable Downlight Specifications p. 1/4 Custom options available, please consult factory. Product specifications are subject to change

info@furrenture.com P. 203,864,9333





John Jay Homestead

Type:

F15

230042.000 **BID Submission** 10 JULY, 2024

Page 46 of TI9

# **DLA75** 3" ADJUSTABLE DOWNLIGHTS

## **PHOTOMETRICS**

#### LUMEN OUTPUT

Values fluctuate based on CCT and CRI. To estimate delivered luman output of various CCT/CRI options, multiply nominal lumans by the multiplier below.

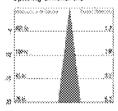
10000	SSSTEACH T	
156	6.6W	700
200	ă,5W	950
	1PW	1050
300	12.510	1200
350	16 <b>V</b> V	1469
400	17W	1600

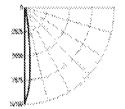
0.00	COST	180201401002		•	**	***
22H 22001	K 90 <b></b> ₩	Standard	070	675	0.75	0.70
27H 27GO	¢ 90+	Stendard	ORO	0.90	60,900	0.615
<b>30H</b> 3000	K 90+	Standard	0.86	0.96	0.96	080
3000 3000	K 95+	Standard	0.80	asa	0.85	030
30D 3000	K 90+	Dim-ta-Warm	N/A	0.85	COST	0.00
<b>35H</b> 3590I	K 90+	Standard	999	100	100	0.95
40H 4000	K 90+	Stendard	0.90	1000	1.00	0.95

Eurnemente materiales e lumen corput toterance or 47-75%

#### DLA75 - 15 Degree

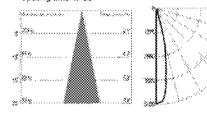
Delivered Light Output: 1037 Lumens Total Warrs @120V: 12.5: Lumens Per Wett: 86 Center Beam Candie Po Spacing Criteria: 0.5 wer: 10029





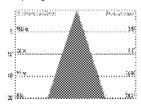
#### DLA75 - 25 Degree

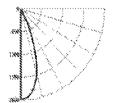
Delivered Light Output: 1173 Lumens Total Watts @120V: 12.5; Lumens Per Watt: 98 Center Beam Candle Power: 5090 Spacing Criteria: 0.6



#### DLA75 - 40 Degree

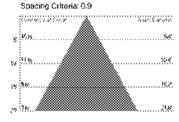
Delivered Light Output: 1179 Lumens Total Watts @120V: 12.5; Lumens Por Watt: 98 Center Bearn Candle Power: 2581 Spacing Criteria: 0.8

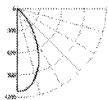




# DLA76 - 60 Degree

Delivered Light Output: 1120 Lumens Total Walts @120V: 12.5 Lumons Por Watt: 93 Center Beam Candle Power: 1121





CLATS Sin Adjustable Downlight Specifications p. 2/4 Custom options available, please consult factory Product specifications are subject to change info@bunerture.com P. 203.764.3333





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F15

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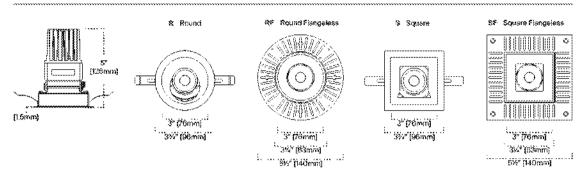
Page 47 of 119

<sup>11</sup>Dian-to-Woom disce from 2000K to 1800Y

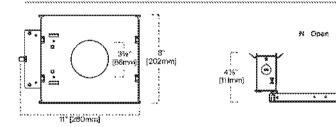
# **DLA75** 3" ADJUSTABLE DOWNLIGHTS

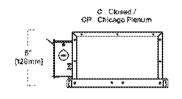
# DIMENSIONS

Max Celling Thickness = 1"
Please consult factory for thicker ceiling options

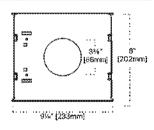


# OPEN (N), CLOSED (C), AND CHICAGO PLENUM (CP) HOUSING DIMENSIONS





## PAN (P) HOUSING DIMENSIONS





Supplied with (2) 24\* adjustable hanger bare with nails. Butterfly brackets for C-Channel available upon request.

Supplied with (R) Remodel Housing (Loose Junction Box)

# REMODEL (R) DIMENSIONS (Loose Junction Box)



DLATS Sin Adjustable Downlight Specifications p. 3/4 Custom options a saliable, please consult factory Product specifications are subject to change infollumenture.com. P. 203.194.3333





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Type:

F15

230042.000 **BID Submission** 10 JULY, 2024

Page 48 of 119

# **DLA75** 3" ADJUSTABLE DOWNLIGHTS

## DIMMING

Dimming is standard and allows for smooth illumination below 0.1% with certain dimmer/driver combinations. The "U" (Universal) driver dims to 1%. accepts 120-277V AC Input and is compatible with 0-10V, Triac (forward phase) and EUV (reverse phase) dimmers. The "Z1" (0-10V) driver dims to 0.7%, accepts 120-277V AC input and is compatible with 0-10V dimmers. The "O1" (DALI) driver dims to 0.1%, accepts 120-277V AC input and is compatible with DALI dimmers. For dimmer compatibility, refer to the Dimming Compatibility document on our website.

#### **ACCESSORIES**

#### LENS ACCESSORIES

Lens-Yellow-38

Lens-Green-38

Lens-Blue-38 (Light Blue) LS-38

Lens-Red-36

Lens-Rose-38

HL-38 (Slack Heneycomb Leuver) (Linear Spread)

SOL-38 (Schle)

Field replaceable optics and accessories available. Please consult factory. Lens accessories can not be combined with any title Trim.



# BUTTERFLY BRACKET KIT

Contains two (2) butterfly brackets and two (2) wing nuts Butterfly brackets and factory installed brackets are required for acoustical ceiling tille (ACT) ceilings.

#### **EMERGENCY BACKUP**

Curput Power: 6W (bitts)  Emergaticy Operation: 90 minutes Battery Type: mckel-cadmium Input Voltage: 20-50 VDC  Class 2 Output: Ves  Diagnostic Type: Manual  Title-20 Compilant: Yes  Life Expectancy: 7:10 years  Damensions: 13.4 x 2.4 x 1.8°  Mounting Type: Remote inline (metal conduit)  Maximum Distance: 25 ft  Weight: 2.8 fts  Coeff: 53		
Emergency Operation: 90 minutes  Battery Type: nickel-cadmium Input Voltage: 120-277 VAC  Output Voltage: 20-50 VDC  Class 2 Output: Ves  Diagnostic Type: Manual  Title-20 Compilant: Yes  Life Expectancy: 7-10 years  Dimensions: 134 x 24 x 18*  Mounting Type: Remote inline (metal condult)  Maximum Distance: 25 %  Weight: 2.8 Rss		1.140.0
Emergency Operation: 90 minutes  Battery Type: nickel-cadmium Input Voltage: 120-277 VAC  Output Voltage: 20-50 VDC  Class 2 Output: Ves  Diagnostic Type: Manual  Title-20 Compilant: Yes  Life Expectancy: 7-10 years  Dimensions: 134 x 24 x 18*  Mounting Type: Remote inline (metal condult)  Maximum Distance: 25 %  Weight: 2.8 Rss		
Battery Type: neckel-cadmium Input Voltage: 120-277 VAC Output Voltage: 20-50 VDC Class 2 Output: Yes Diagnostic Type: Manual Title-20 Compilant: Yes Life Expectancy: 7:10 years Dimensions: 13.4 x 2.4 x 1.8° Mounting Type: Remote inline (metal conduit) Maximum Distance: 25 % Weight: 2.8 fbs	Cutput Power:	EW (mital)
Input Voltage: (20-277 VAC Output Voltage: 20-50 VDC Class 2 Output: Yes Diagnostic Type: Menual Title-20 Compilant: Yes Life Expectancy: 7-10 years Dimensions: 13.4 x 2.4 x 1.6* Mounting Type: Remote Inline (metal conduit) Maximum Distance: 25 ft Weight: 2.8 fbs	Emergency Operation:	90 minutes
Output Voltage: 20-50 VDC Class 2 Output: Yes Diagnostic Type: Manual Title-20 Compilant: Yes Life Expectancy: 7-10 years Dimensions: 19.4 x 2.4 x 1.6* Mounting Type: Remote Inline (metal conduit) Maximum Distance: 25 ft Weight: 2.8 fts	Battery Type:	mekel-cadmium
Class 2 Output: Yes Diagnostic Type: Manual Title-20 Compilant: Yes Life Expectancy: 7:10 years Dimensions: 13.4 x 2.4 x 1.6* Mounting Type: Remote Inline (metal condult) Maximum Distance: 25 % Weight: 2.8 fbs	Input Voltage:	120-277 V&C
Diagnostic Type: Manual Title-20 Compilant: Yes Life Expectancy: 7:10 years Dimensions: 13.4 x 2.4 x 1.6* Mounting Type: Remote inline (metal conduit) Maximum Distance: 25 % Weight: 2.5 fbs	Output Voltage:	20-50 VDC
Title-20 Compliant Yes Life Expectancy: 7:10 years Dimensions: 13.4 x 2.4 x 1.6* Mounting Type: Remote inline (metal conduit) Maximum Distance: 25 % Weight: 2.5 fbs	Class 2 Output:	Yes
Life Expectancy:     7.10 years       Dimensions:     13.4 x 2.4 x 1.6*       Mounting Type:     Remote inline (metal condult)       Maximum Distance:     25 π       Weight:     2.8 fts	Diagnostic Type:	Manual
Dimensions: 13.4 x 2.4 x 1.6*  Mounting Type: Remote inline (metal condult)  Maximum Distance: 25 ft  Weight: 2.5 fts	Title-20 Compliant	Yes
Mounting Type: Remote Inline (metal conduit) Maximum Distance: 25 ft Weight: 2.8 lbs	Life Expectancy:	7-10 years
Maximum Distance: 25 tt Weight: 2.8 Rzs	Dimensions:	184×24×16*
Weight: 2.8 lbs	Mounting Type:	Remote Inline (metal condult)
<del>-</del>	Maximum Distance:	25 ti
Cost: 3E	Weight:	2.5 tbs
	Costi	53

#### NOTES

Access panel is required for service of remote emergency backup battery.

CLATS Sin Adjustable Downlight Specifications p. 4/4 Custom options available, please consult factory Product specifications are subject to change info@bunerture.com P. 203.764.3333





John Jay Homestead

Type:

F15

230042.000 **BID Submission** 10 JULY, 2024

Page 49 of 119

# **PROJECT NAME**





# NanoFloat Square

The NanoFloat Square, available in multiple dimensions and with a minimum depth of 0.81" is an elegant, edgelit lighting solution for any space, from corporate to commercial to hospitality. In addition to size options, a broad range of kelvin temperatures and 80+ or 90+ CRI are available, and the opal PMMA diffusor ensures uniform, even lighting free of LED imaging. Multiple dimming options are available.



# CONFIGURATION SAMPLE ORDER CODE: NFL-SQ-SU-M-S-40-9-M0-4-3x3-DA-U-S-IP-EC

CATALOG NUMBER	MOUNTING	MOUNTING OPTIONS	LED TYPE	ССТ	CRI	OUTPUT/WATTAGE Initial output by linear foot. See lumen calculators for adjusted output (pages 2-3)
NFL-SQ-	SU SURFACE  P RIGID STEM	C SURFACE CLIP M MAGNETIC  48 SHORT 48" 96 LONG 96"	S STATIC	<ul><li>27 2700K</li><li>30 3000K</li><li>35 3500K</li><li>40 4000K</li></ul>	8 80+ 9 90+ Leave blank if color-changing	SO STANDARD 2.8 W/FT. MO MEDIUM
	AC CABLE	48 SHORT 48" 96 LONG 96"	T TUNABLE WHITE	50 5000K 27-40 2700-4000K others available		4.5 W/FT. <b>HO</b> HIGH 6.1 W/FT.
	R RECESSED DRYWALL TM TRIMLESS MUD-IN		C3 RGB			
		T-GRID TC T-GRID CLIP	C4 RGBW	40 RGBW, 4000K WHITE		

	LUMINATED	SIZE (in.)	DIMMING	VOLTAGE	PROFILE SIZE	OPTIONS
2	2 SIDES 4 SIDES	LENGTH x	10 0-10V for Static only  DX DMX  DA DALI  10X DUAL 0-10V for Tunable only. Apply 0.5 light toss factor for tuning algorithm.  WD WARM-DIM	U 120V-277V 2 347V 3 220V, 50HZ	S SLIM FRAME P PLUS FRAME IP IP67	EC EMERGENCY CIRCUIT  EI REMOTE EMERGENCY INVERTER  CS CUSTOM SHIELD See diagram (page 7) for details.
		WIDTH	For Tunable only  EV PHASE for Static only  POE POE  LAT LUTRON ATHENA Static and Tunable only  OTHER Contact manufacturer for more options			AEB or AEW ARCHITECTURAL ENCLOSURE Available with surface magnetic, rigid stem, or aircraft table mounting, Available in black (AEB) or white (AEW) finish. Contact factory for more finish options.  AEB-DL or AEW-DL ARCHITECTURAL ENCLOSURE WITH DROPPED LENS Available with surface magnetic, rigid stem, or aircraft table mounting, Available with surface magnetic, rigid stem, or aircraft table mounting, Available in black (AEB) or white (AEW) finish. Contact factory for more finish options.

# nanometer

lighting 57-10 49th place, maspeth, ny,11378 | 718.497.0394 | nanoltg.com 10/23/2023



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Туре:

F16

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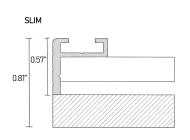
Page 50 of 119

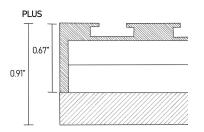


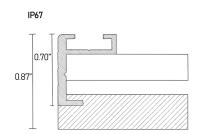
# **TECHNICAL SPECS**

Weight	5 lbs / sq ft
Luminous Output	80-1400 LM/sq ft
Input Voltage	120 to 277VAC
Min/Max Operating Temperature	-10°F to 110°F

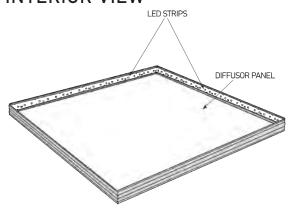
# PROFILE DEPTH







# INTERIOR VIEW



nanometer lighting 57-10 49th place, maspeth, ny,11378 | 718.497.0394 | nanoltg.com



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Туре:

10/23/2023

F16

230042.000 **BID Submission** 10 JULY, 2024

Page 51 of 119



# **DELIVERED LUMENS BY SIZE**

# STANDARD OUTPUT (2.8 W)

- 1	2.8				1	2							- 3	24				
П			2.5	ides.		-	All S	Sides			2.5	ides		77	All Sides			
		W/Fixture	LM/Fixture	W/SF	LM/SF	W/Fixture	Lm/Fixture	W/SF	LM/SF	W/Fixture	Lm/Fixture	W/SF	LM/SF	W/Fixture	LM/Fixture	W/SF	LM/SF	
	12	5.6	323	5.6	323	11.2	646	1	646	5.6	323	1	162	16.8	968		8 4	
1	24	11.2	646	5.6	323	16.8	968	8	484	11.2	646	1	162	22.4	1291		6 3	
اء	36	16.8	968	5.6	323	22.4	1291		431	16.8	968	- 4	162	28	1613		5 2	
ength	48	48	2765	12	1482	28	1613	1	404	22.4	1291	- 3	162	33.6	1936		4 2	
ادّ	60	28	1613	5.6	323	33.6	1936		388	28	1613	03	162	39.2	2258		4 3	
	72	33.6	1936	5.6	323	39.2	2258	1	377	33.6	1936	3	162	44.8	2581		4	
	84	39.2	2258	5.6	323	44.8	2581	1	369	39.2	2258	3	162	50.4	2904		4 2	
- 1	96	44.8	2581	5.6	323	50.4	2904		363	44.8	2581	33	162	56	3226		4 2	
	108	50.4	2904	5.6	323	56	3226		359	50.4	2904	- 2	162	61.6	3549		3	
	120	56	3226	5.6	323	61,6	3549	- 6	355									
-	1			_		36			_	1								
П		-	2.5	ides	- 4	16	All S	Sides		2 Sides			48 All Sides					
		W/Fixture	LM/Fixture	W/SF	LM/SF	W/Fixture	LM/Fixture	W/SF	LM/SF	W/Fixture	LM/Fixture	W/SF	LM/SF	W/Fixture	LM/Fixture	W/SF	LM/SF	
П	12	5.6	323	2	108	22.4	1291	1	431	5.6	323		1 8	25.01333	1441		6	
П	24	11.2		2	108				269	11.2			1 8	27.62667	1592		3	
=	36	16.8	968	2	108	33.6	1936	- 4	216	16.8	968		1 8	30.24	1742		3	
angth	48	22.4	1291	2	108	39.2	2258	1	189	22.4	1291		8				3	

# MEDIUM OUTPUT (4.5 W)

1	4.5				1	2							24							
T			2 51	des			All S	ides			2 Sic	les			AU S	Sides				
F		W/Fixture	LM/Fixture	W/SF	LM/SF	W/Fixture	Lm/Fixture	W/SF	LM/SF	W/Fixture	Lm/Fixture	W/SF	LM/SF	W/Fixture	LM/Fixture	W/SF	- 1	LM/SF		
Ε	12	9	519		9 519	18	1037	18	1037	9	519		260	27	1556		14	77		
Γ	24	18			9 519	27		.14	778	18	1037		260		2074		9	51		
I	36	27	1556		9 519	36	2074	12	692	27	1556		260	45	2592		8	43		
ŀ	48	48	2765		2 922	45	2592	- 11	648	36	2074	- 1	260	54	3111		7	38		
E	60	45			9 519	54	3111			.45	2592		260				6	36		
L	72	54	3111		9 519	63	3629	- 11	605	54	3111		260	72	4148		6	34		
E	84	63			9 519	72	4148	10	593	63	3629		260	81	4666		6	33		
Г	96	72	4148		9 519	81	4666	10	584	72	4148		260	90	5184		6	32		
t											1.542		260	99	5703			31		
t	108	81			9 519	90		10			4666		200	79	3703		0	31		
-	108 120	90			9 519						4000		200	79	3703		0	31		
-					9 519	99					4000		260	79	5703		0	31		
-					9 519		5703	10			4000			8	5703		0	31		
-	120	90	5184 2 Si		9 519	99	5703	10 Sides	571		2.5(0					Sides	0	31		
-	120	90	2 Si		9 519 3 LM/SF	6 W/Fixture	All S	ides W/SF	571 LM/SF		2 Sic	tes	LM/SF	8 W/Fixture	All S	ides W/SF	0	LM/SF		
-	120	90	2 Si LM/Fixture 519		9 519 3 LM/SF 3 173	99	All S	ides W/SF	571 LM/SF 692	W/Fixture	2 Sic LM/Fixture 519	des W/SF	LM/SF	8 W/Fixture 42.75	All S	ides W/SF	11	LM/SF		
-	120	90 W/Fixture 9	2 Sil LM/Fixture 519 1037		9 519 3 LM/SF 3 173 3 173	99 6 W/Fixture 36 45	5703 All S LM/Fixture 2074 2592	5ides W/SF	571 LM/SF 692 432	W/Fixture 9	2 Sid LM/Fixture 1 519 1037	des W/SF	LM/SF 2 130 2 130	W/Fixture 42.75 49.5	All S LM/Fixture 2463 2852	ides W/SF	11 6	LM/SF 61/ 35		
	120	90 W/Fixture 9 18 27	2 Sil LM/Fixture 519 1037		9 519 3 LM/SF 3 173 3 173 3 173	99 6 W/Fixture 36 45	All S LM/Fixture 2074 2592 3111	10 Sides W/SF 12 8	571 LM/SF 692 432 346	W/Fixture 9 18 27	2 Sid LM/Fixture 519 1037 1556	des W/SF	LM/SF 2 130 2 130 2 130	W/Fixture 42.75 49.5 56.25	All S LM/Fixture 2463 2852 3240	w/sF	11	LM/SF 61 35 27		
	120	90 W/Fixture 9	2 Si LM/Fixture 519 1037 1556 2074		9 519 3 LM/SF 3 173 3 173 3 173 3 173 3 173	99 6 W/Fixture 36 45 54 63	5703 All S LM/Fixture 2074 2592 3111 3629	10 Sides W/SF 12 8	571 LM/SF 692 432 346 303	W/Fixture 9 18 27 36	2 Sid LM/Fixture 519 1037 1556 2074	des W/SF	LM/SF 2 130 2 130 2 130 2 130	W/Fixture 42.75 49.5 56.25	All 5 LM/Fixture 2463 2852 3240 4148	w/sF	11	LM/SF 61 35 27 26		
	12 24 36	90 W/Fixture 9 18 27	2 Si LM/Fixture 519 1037 1556 2074		9 519 3 LM/SF 3 173 3 173 3 173 3 173 3 173 3 173	99 6 W/Fixture 36 45	5703 All S LM/Fixture 2074 2592 3111 3629	10 Sides W/SF 12 8 6	571 LM/SF 692 432 346	W/Fixture 9 18 27	2 Sid LM/Fixture 519 1037 1556 2074	des W/SF	LM/SF 2 130 2 130 2 130 2 130 2 130	W/Fixture 42.75 49.5 56.25 72 69.75	All 5 LM/Fixture 2463 2852 3240 4148	Sides W/SF	11 6 5	LM/SF 61: 35: 27: 26: 20		
-	12 24 36 48	90 W/Fixture 9 18 27 36	2 Si LM/Fixture 519 1037 1556 2074 2592		9 519 3 LM/SF 3 173 3 173 3 173 3 173 3 173	99 6 W/Fixture 36 45 54 63	5703 All S LM/Fixture 2074 2592 3111 3629	10 Sides W/SF 12 8 6 5	571 LM/SF 692 432 346 303	W/Fixture 9 18 27 36	2 Sio LM/Fixture 519 1037 1556 2074 2592	des W/SF	LM/SF 2 130 2 130 2 130 2 130	W/Fixture 42.75 49.5 56.25 72 69.75	All S LM/Fixture 2463 2852 3240 4148 4018	Sides W/SF	11 6 5			
	12 24 36 48 60	90 W/Fixture 9 18 27 36 45	2 Si LM/Fixture 519 1037 1556 2074 2592 3111 3629		9 519 3 LM/SF 3 173 3 173 3 173 3 173 3 173 3 173	99 6 W/Fixture 36 45 54 63 72 81	All S LM/Fixture 2074 2592 3111 3629 4148 4666 5184	10 Sides W/SF 12 8 6 5 5 5	571 LM/SF 692 432 346 303 277	W/Fixture 9 18 27 36 45 54	2 Sio LM/Fixture 519 1037 1556 2074 2592 3111	des W/SF	LM/SF 2 130 2 130 2 130 2 130 2 130	W/Fixture 42.75 49.5 56.25 72 69.75 76.5	All S LM/Fixture 2463 2852 3240 4148 4018	Sides W/SF	11 6 5 5 3	LM/SF 61 35 27 26 20		

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Page 52 of 119



# **DELIVERED LUMENS BY SIZE**

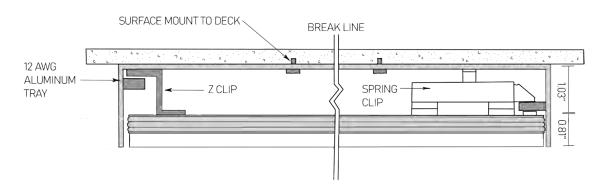
HIGH OUTPUT (6.1 W)

	6.1				1	2							1	24			7	
	-		25	ides			All S	Sides			2 Si	des			All S	ides		
		W/Fixture	LM/Fixture	W/SF	LM/SF	W/Fixture	Lm/Fixture	W/SF	LM/SF	W/Fixture	Lm/Fixture	W/SF	LM/SF	W/Fixture	LM/Fixture	W/SF	L	M/SF
	12	12.2	703	12.2	703	24.4	1406	24	1406	12.2	703		6 352	36.6	2109		18	1055
	24	24.4	1406	12.2	703	36.6	2109	18	1055	24.4	1406		6 352	48.8	2811		12	703
<b>=</b> [	36	36,6	2109	12.2	703	48,8	2811	16	937	36.6	2109		6 352	61	3514		10	586
engru	48	48	2765	12	680	- 61	3514	15	879	48.8	2811		6 352	73.2	4217	11	9	528
5[	60	61	3514	12.2	703	73.2	4217	15	844	61	3514		6 352	85.4	4920	-	9	492
	72	73.2	4217	12.2	703	85.4	4920	14	820	73.2	4217		6 352	97.6	5622		8	469
П	84	85.4	4920	12.2	703	97.6	5622	14	804	85.4	4920		6 352	109.8	6325		8	452
	96	97.6	5622	12.2	703	109.8	6325	14	791	97.6	5622		6 352	122	7028		8	440
- 1																		
	108	109.8	6325	12.2	703	122	7028	14	781	109.8	6325		6 352	134.2	7730		7	430
I			6325 7028	5,000		122 134.2					6325		6 352	134.2	7730		7	430
	108	109.8		5,000							6325		6 352	134.2	7730		7	430
I	108	109.8	7028	12.2		134.2					6325			134.2	7730		7]	430
I	108	109.8	7028	5,000	703	134.2	7730	13 Sides	773		6325 2.Si			8	All S	oides	7	430
	108 120	109.8 122 W/Fixture	7028 2 S LM/Fixture	12.2 ides	703 3 LM/SF	134.2 6 W/Fixture	7730 All S LM/Fixture	Sides W/SF	773	W/Fixture	2 Si LM/Fixture	des W/SF	LM/SF	8 W/Fixture	All S	W/SF		M/SF
	108 120	109.8 122 W/Fixture 12.2	7028 2 S LM/Fixture 703	des W/SF	703 3 LM/SF 235	134.2 6 W/Fixture 48.8	All S LM/Fixture 2811	Sides W/SF	773 LM/SF 937	W/Fixture	2 Si LM/Fixture 703	des W/SF	LM/SF 3 176	8 W/Fixture 61.20333	All S LM/Fixture 3526	W/SF	15	M/SF 882
I	108 120	109.8 122 W/Fixture	7028 2 S LM/Fixture 703	des W/SF	703 3 LM/SF 235 235	134.2 6 W/Fixture 48.8 61	7730 All S LM/Fixture 2811 3514	13 Sides W/SF 16	773	W/Fixture	2 Si LM/Fixture 703 1406	des W/SF	LM/SF 3 176 3 176	8 W/Fixture	All S	W/SF		M/SF 882 530
1	108 120	109.8 122 W/Fixture 12.2 24.4 36.6	7028 2 S LM/Fixture 703 1406 2109	des W/SF	703 3 LM/SF 235 235	134.2 6 W/Fixture 48.8	7730 All S LM/Fixture 2811 3514	13 Sides W/SF 16	773 LM/SF 937	W/Fixture 12.2 24.4	2 SI LM/Fixture 703 1406 2109	des W/SF	LM/SF 3 176 3 176 3 176	8 W/Fixture 61.20333 73.60667 86.01	All 5 LM/Fixture 3526 4240 4955	W/SF	15	M/SF 882 530 413
1	108 120 12 24	109.8 122 W/Fixture 12.2 24.4	7028 2 S LM/Fixture 703 1406 2109	12.2 des W/SF 4 4	703 3 LM/SF 235 235	134.2 6 W/Fixture 48.8 61	7730 All S LM/Fixture 2811 3514	13 Sides W/SF 16	773 LM/SF 937 586	W/Fixture 12.2 24.4 36.6	2 Si LM/Fixture 703 1406	des W/SF	LM/SF 3 176 3 176	W/Fixture 61.20333 73.60667	All 5 LM/Fixture 3526 4240 4955	W/SF	15	M/SF 882 530 413
I	120 120 12 24 36	109.8 122 W/Fixture 12.2 24.4 36.6	7028 2 S LM/Fixture 703 1406 2109	12.2 des W/SF 4 4	703 3 LM/SF 235 235 235 235 235	134.2 6 W/Fixture 48.8 61 73.2	7730 All S LM/Fixture 2811 3514 4217	13 Sides W/SF 16 10 8	773 LM/SF 937 586 469	W/Fixture 12.2 24.4 36.6	2 SI LM/Fixture 703 1406 2109	des W/SF	LM/SF 3 176 3 176 3 176	8 W/Fixture 61.20333 73.60667 86.01	All 5 LM/Fixture 3526 4240 4955	W/SF	15 9 7	M/SF 882
1	120 120 12 24 36 48	109.8 122 W/Fixture 12.2 24.4 36.6 48.8	7028 2 S LM/Fixture 703 1406 2109 2811 3514	12.2 des W/SF 4 4	703 3 LM/SF 235 235 235 235 235 235	134.2 6 W/Fixture 48.8 61 73.2 85.4	7730 All 5 LM/Fixture 2811 3514 4217 4920 5622	Sides W/SF 16 10 8 7	773 LM/SF 937 586 469 410	W/Fixture 12.2 24.4 36.6 48.8	2 Si LM/Fixture 703 1406 2109 2811	des W/SF	LM/SF 3 176 3 176 3 176 3 176	W/Fixture 61.20333 73.60667 86.01 97.6	All S LM/Fixture 3526 4240 4955 5622 6384	W/SF	15 9 7	M/SF 882 530 413 352 320 296
1	12 12 24 36 48 60	109.8 122 W/Fixture 12.2 24.4 36.6 48.8 61	7028 2 S LM/Fixture 703 1406 2109 2811 3514 4217	12.2 des W/SF 4 4 4 4	703 3 LM/SF 235 235 235 235 235 235 235	134.2 6 W/Fixture 48.8 61 73.2 85.4 97.6	7730 All S LM/Fixture 2811 3514 4217 4920 5622	Sides W/SF 16 10 8 7 7	773 LM/SF 937 586 469 410 375	W/Fixture 12.2 24.4 36.6 48.8 61 73.2	2 Si LM/Fixture 703 1406 2109 2811 3514	des W/SF	LM/SF 3 176 3 176 3 176 3 176 3 176	8 W/Fixture 61.20333 73.60667 86.01 97.6 110.8167 123.22	All S LM/Fixture 3526 4240 4955 5622 6384 7098	W/SF	15 9 7 6 6	M/SF 882 530 413 352 320

# MOUNTING OPTIONS

# **SURFACE**

SURFACE CLIP



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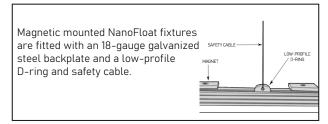
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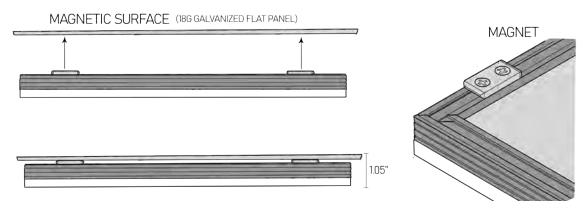
Page 53 of 119



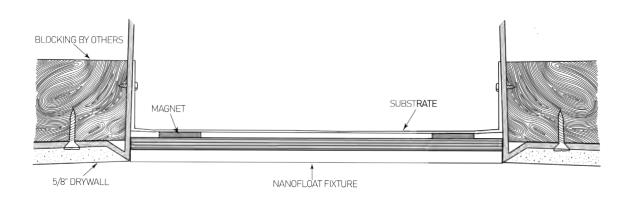
# MOUNTING OPTIONS, CONT'D

**MAGNETIC** 





# RECESSED TRIMLESS MUD-IN



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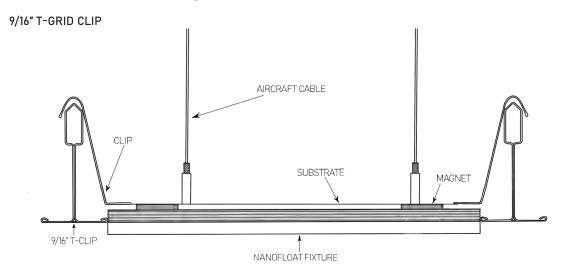
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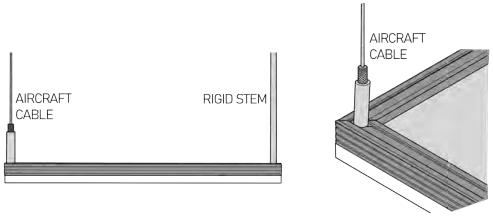
Page 54 of 119



# MOUNTING OPTIONS, CONT'D



## PENDANT (RIGID STEM OR AIRCRAFT CABLE



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F16

230042.000 **BID Submission** 10 JULY, 2024

Page 55 of 119

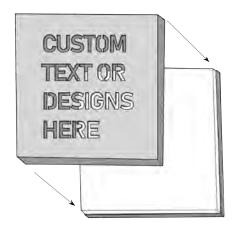


# **OPTIONAL ADDITIONS**

#### **CUSTOM SHIELD**

The Custom Shield is a bespoke metal shield crafted for the NanoFloat, and includes the option for custom etched text or graphics, making it perfect for unique, backlit signage. It fits snugly and securely over the fixture, and can be removed for easy maintenance.

Please attach image details and specifications.



#### ARCHITECTURAL ENCLOSURE

The Architectural Enclosure, shown here with a pendant mount sample, provides a seamless exterior for the NanoFloat fixture. It is available with Rigid Stem, Adjustable Aircraft, or Surface Magnetic mounting options. The Dropped Lens Architectural Enclosure does not obstruct the side of the PMMA.



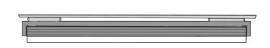


PENDANT/AAC MOUNTING

MAGNETIC MOUNTING

#### ARCHITECTURAL ENCLOSURE WITH DROPPED LENS





PENDANT/AAC MOUNTING

MAGNETIC MOUNTING

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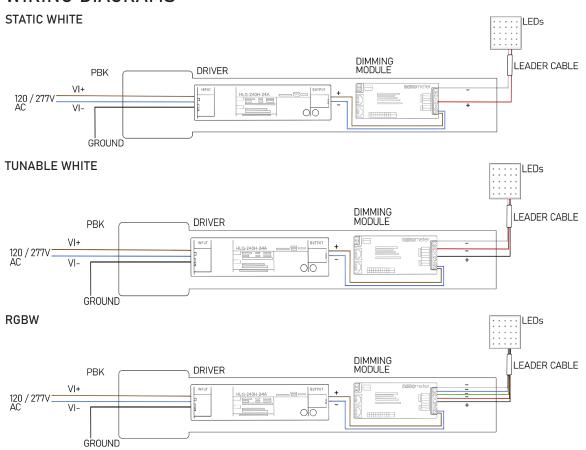
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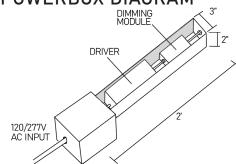
Page 56 of 119



# WIRING DIAGRAMS







١	Wire Size (AWG)	Distance (ft.)
1	8	25
1	14	50
1	10	100

Data based on a Class 2 load.

Provided standard 10' 18 AWG leader. Driver can be remoted at various maximum distance.
Distance will vary with load; please verify before release.



Learn more about the NanoFloat product family at nanoltg.com.

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Type:

F16

230042.000 **BID Submission** 10 JULY, 2024

Page 57 of 119









#### Features

- · Constant Voltage + Constant Current mode output
- $^{ullet}$  Metal housing with class I design
- · Built-in active PFC function
- · Class 2 power unit
- IP67 / IP65 rating for indoor or outdoor installations
- Function options: output adjustable via potentiometer;
   3 in 1 dimming; Timer dimming
- Typical lifetime > 62000 hours
- 7 years warranty

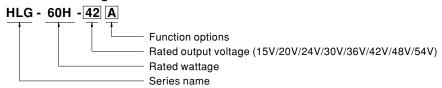
# Applications

- LED street lighting
- · LED high-bay lighting
- · Parking space lighting
- · LED fishing lamp
- · LED greenhouse lighting
- Type "HL" for use in Class I, Division 2 hazardous (Classified) location.

## Description

HLG-60H series is a 60W AC/DC LED driver featuring the dual mode constant voltage and constant current output. HLG-60H operates from 90 ~305VAC and offers models with different rated voltage ranging between 15V and 54V. Thanks to the high efficiency up to 90.5%, with the fanless design, the entire series is able to operate for -40  $^{\circ}\text{C}$  ~ +80  $^{\circ}\text{C}$  case temperature under free air convection. The design of metal housing and IP67/IP65 ingress protection level allows this series to fit both indoor and outdoor applications. HLG-60H is equipped with various function options, such as dimming methodologies, so as to provide the optimal design flexibility for LED lighting system.

## ■ Model Encoding



Type	IP Level	Function	Note
Blank	IP67	Io and Vo fixed	In Stock
Α	IP65	Io and Vo adjustable through built-in potentiometer	In Stock
В	IP67	3 in 1 dimming function (1~10VDC, 10V PWM signal and resistance)	In Stock
AB	IP65	Io and Vo adjustable through built-in potentiometer & 3 in 1 dimming function (1~10Vdc, 10V PWM signal and resistance)	In Stock
D	IP67	Timer dimming function, contact MEAN WELL for details(safety pending).	By request

File Name:HLG-60H-SPEC 2018-05-29



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Type:

F16

230042.000 **BID Submission** 10 JULY, 2024

Page 58 of 119



SPECIFICATION

MODEL	CATION	HLG-60H-15	III C 40⊓ 30 □	HLG-60H-24	П С № 20	III C 40U 34□	III C 40⊔ 42	III C KULI 40	HIC 40H F4								
WUDEL	DC VOLTACE				30V	HLG-60H-36		48V	HLG-60H-54 54V								
	DC VOLTAGE	15V	20V	24V			42V		1								
	CONSTANT CURRENT REGION Note.4		12 ~ 20V	14.4 ~ 24V	18 ~ 30V	21.6 ~ 36V	25.2 ~ 42V	28.8 ~ 48V	32.4 ~ 54V								
	RATED CURRENT	4A	3A	2.5A	2A	1.7A	1.45A	1.3A	1.15A								
	RATED POWER	60W	60W	60W	60W	61.2W	60.9W	62.4W	62.1W								
	RIPPLE & NOISE (max.) Note.2		150mVp-p	150mVp-p	200mVp-p	200mVp-p	300mVp-p	300mVp-p	300mVp-p								
	VOLTAGE ADJ. RANGE			(via built-in pote		100 1011		T	T								
OUTPUT		13.5 ~ 17V	17 ~ 22V	22 ~ 27V	27 ~ 33V	33 ~ 40V	40 ~ 46V	44 ~ 53V	49 ~ 58V								
	CURRENT ADJ. RANGE			(via built-in pote			1										
		2.4 ~ 4A	1.8 ~ 3A	1.5 ~ 2.5A	1.2 ~ 2A	1 ~ 1.7A	0.87 ~ 1.45A	0.78 ~ 1.3A	0.69 ~ 1.15A								
	VOLTAGE TOLERANCE Note.3	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%								
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%								
	LOAD REGULATION	±1.5%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%								
	SETUP, RISE TIME Note.6	500ms,80ms/1	15VAC 500m	s,80ms/230VAC	:												
	HOLD UP TIME (Typ.)	16ms / 115VAC	, 230VAC														
	VOLTACE DANCE No. 1	90 ~ 305VAC	127 ~ 431VE	C													
	VOLTAGE RANGE Note.5	(Please refer to	"STATIC CHAR	ACTERISTIC" se	ection)												
	FREQUENCY RANGE	47 ~ 63Hz															
	DOWED EACTOR (T)	PF≧0.98/115\	AC, PF≥0.95/2	30VAC, PF≥0.9	2/277VAC @ full	load											
	POWER FACTOR (Typ.)	(Please refer to	"POWER FACT	OR (PF) CHARAG	CTERISTIC" sect	ion)											
		-		5VAC,230VAC;													
INPUT	TOTAL HARMONIC DISTORTION			MONIC DISTOR													
	EFFICIENCY (Typ.)	87.5%	89%	89.5%	90%	90%	90%	90.5%	90.5%								
	AC CURRENT (Typ.)	0.64A / 115VA	0.32A/23		/ 277VAC	12.0											
	INRUSH CURRENT(Typ.)			measured at 50%		: Per NFMA 410											
	MAX. No. of PSUs on 16A		·														
	CIRCUIT BREAKER	9 units (circuit	breaker of type E	3) / 16 units (circ	uit breaker of typ	e C) at 230VAC											
	LEAKAGE CURRENT	<0.75mA / 277	VAC														
	LEARAGE CORRENT	95 ~ 108%	VAC														
	OVER CURRENT Note.4		- A 12 142		6 6 11	Man In account											
	SHORT CIRCUIT			ers automatically tically after fault													
PROTECTION	SHUKT CIRCUIT	18 ~ 24V	23 ~ 30V	28 ~ 35V	35 ~ 43V	41 ~ 49V	48 ~ 58V	54 ~ 65V	59 ~ 68V								
	OVER VOLTAGE				35 ~ 43V	41~490	40 ~ 30 V	34 ~ 63 V	39 ~ 00 V								
	OVER TEMPERATURE		voltage, re-powe														
	OVER TEMPERATURE		voltage, re-powe		104D TEMP	EDATUDE	U \										
	WORKING TEMP.		80 C (Please re	erer to "OUTPUT	LUAD VS TEMP	ERATURE" sect	lion)										
	MAX. CASE TEMP.	Tcase= +80°C															
ENVIRONMENT	WORKING HUMIDITY	20 ~ 95% RH n															
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 1															
	TEMP. COEFFICIENT	±0.03%/°C (0	~60°C)														
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes															
	SAFETY STANDARDS Note.8	UL8750(type"HL	"), CSA C22.2 No.	250.0-08, EN/AS/N	NZS 61347-1,EN/A	S/NZS 61347-2-13	independent,GB1	9510.1,GB19510.	14,EAC TP TC 0								
	SALETT STANDARDS Note:0	IP65 or IP67 a	pproved ;option	al models for J6	1347-1, J61347	-2-13 ; design re	efer to UL60950	-1, TUV EN6095	0-1, EN60335								
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75K	VAC I/P-FG:2	KVAC O/P-FO	G:1.5KVAC												
EMC	ISOLATION RESISTANCE	/P-O/P:3.75KVAC  /P-FG:2KVAC O/P-FG:1.5KVAC															
	EMC EMISSION Note.8	Compliance to	EN55015, EN61	000-3-2 Class C	(@ load≥60%)	; EN61000-3-3,0	GB17743 and GE	17625.1, EAC T	P TC 020								
	EMC IMMUNITY	Compliance to I	N61000-4-2,3,4,	,5,6,8,11; EN6154	7, light industry le	evel (surge immun	ity Line-Earth 4K	V, Line-Line 2KV	), EAC TP TC 0								
	MTBF	1132K hrs min.	Telcordia SR	-332 (Bellcore);	338K hrs min.	MIL-HDBK-217F	F (25°C)										
OTHERS	DIMENSION	171*61.5*36.8	nm (L*W*H)	, , , ,													
	PACKING	0.73Kg; 20pcs/	15.6Kg/0.9CUF1	Г													
	All parameters NOT special	_ • .			ited current and	25°C of ambient	t temperature.										
NOTE	2. Ripple & noise are measure							capacitor.									
	3. Tolerance : includes set up	tolerance, line r	egulation and lo	ad regulation.													
	4. Please refer to "DRIVING N																
	5. De-rating may be needed u																
		nder low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.  asured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time.															
	6. Length of set up time is me	asured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time.  a component that will be operated in combination with final equipment. Since EMC performance will be affected by the															
	6. Length of set up time is me 7. The driver is considered as	a component th	at will be operat	ted in combination				will be affected	al equipment manufacturers must re-qualify EMC Directive on the complete installation again.								
	Ength of set up time is me     The driver is considered as complete installation, the fin	a component that all equipment m	at will be operat	ted in combinationstitus ted in combinations in the combination in the	C Directive on the	ne complete insta	allation again.		by the								
	Ength of set up time is me     The driver is considered as complete installation, the fin     To fulfill requirements of the	a component that all equipment m	at will be operat	ted in combinationstitus ted in combinations in the combination in the	C Directive on the	ne complete insta	allation again.		by the								
	Length of set up time is me     The driver is considered as complete installation, the fin     To fulfill requirements of the connected to the mains.	a component the all equipment me latest ErP regu	at will be operate anufacturers mu lation for lighting	ted in combination list re-qualify EM g fixtures, this LE	C Directive on the D driver can on	ne complete insta ly be used behin	allation again. d a switch witho	ut permanently									
	Ength of set up time is me     The driver is considered as complete installation, the fin     To fulfill requirements of the	a component the latest ErP regulated at life expectance	at will be operate anufacturers mu lation for lighting of >62,000 hou	ted in combination ist re-qualify EM grixtures, this LE curs of operation of the curs of the c	C Directive on the Directive can only when Tcase, parts	ne complete insta ly be used behin rticularly (tc) poin	allation again. d a switch witho	ut permanently									

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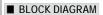


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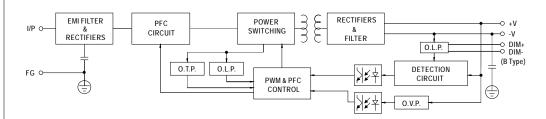
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F16

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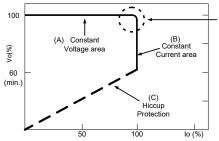


Fosc: 100KHz



## ■ DRIVING METHODS OF LED MODULE

This series is able to work in either Constant Current mode (a direct drive way) or
 Constant Voltage mode (usually through additional DC/DC driver) to drive the LEDs.



In the constant current region, the highest voltage at the output of the driver depends on the configuration of the end systems.

Should there be any compatibility issues, please contact MEAN WELL.

Typical output current normalized by rated current (%)

File Name:HLG-60H-SPEC 2018-05-29



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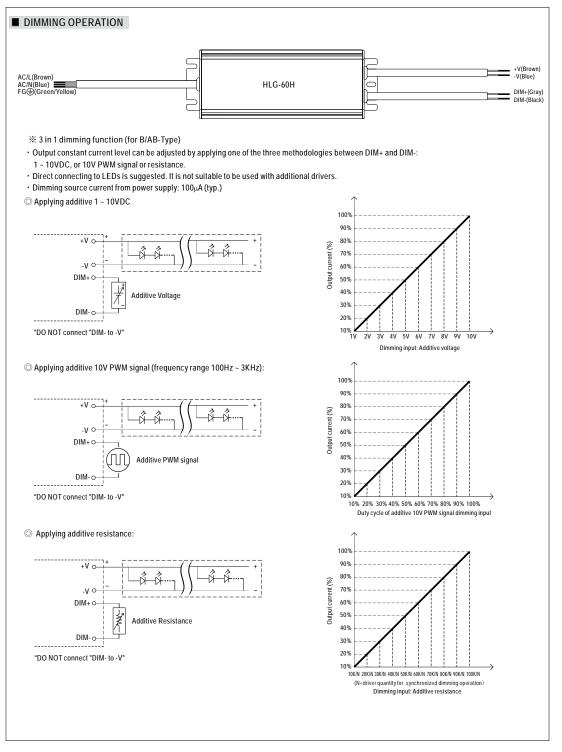
Туре:

F16

230042.000 **BID Submission** 10 JULY, 2024

Page 60 of 119







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Туре:

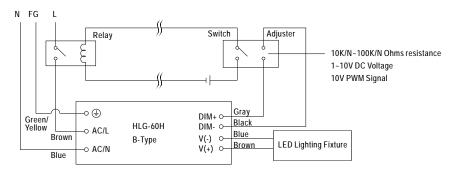
F16

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Page 61 of 119



Note: In the case of turning the lighting fixture down to 0% brightness, please refer to the configuration as follow, or please contact MEAN WELL for other options.



Using a switch and relay can turn ON/OFF the lighting fixture.

File Name:HLG-60H-SPEC 2018-05-29



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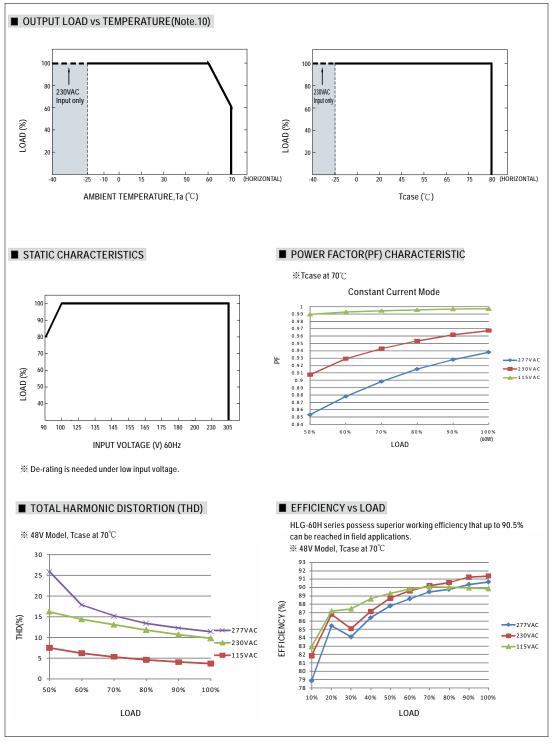
Type:

F16

230042.000 **BID Submission** 10 JULY, 2024

Page 62 of 119







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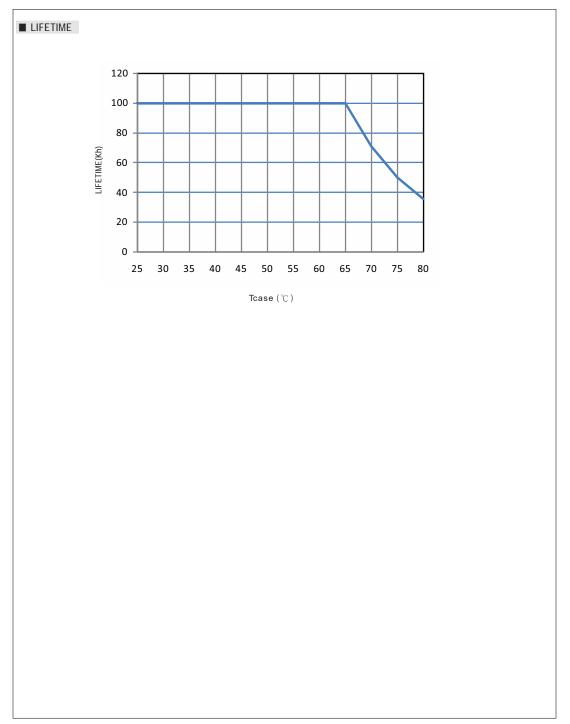
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F16

230042.000 **BID Submission** 10 JULY, 2024

Page 63 of 119



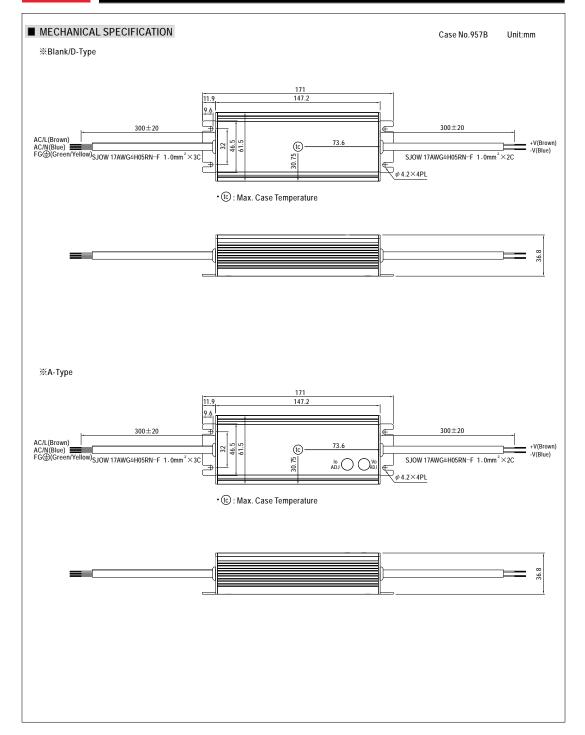




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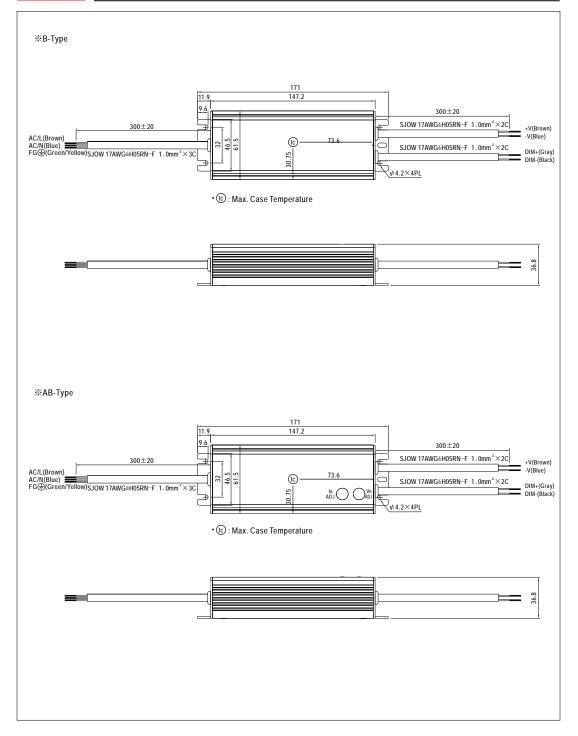
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Page 65 of 119





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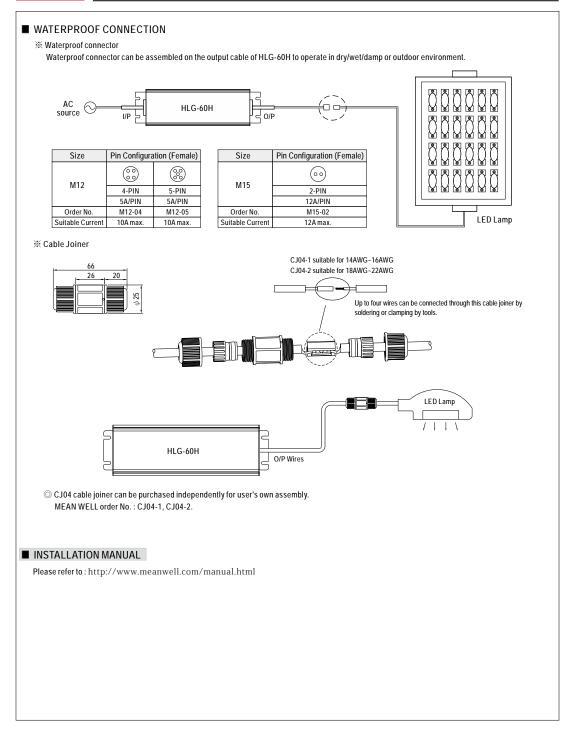
Type:

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Page 66 of 119





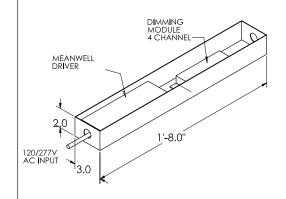


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F16

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# PBK-MW6024-DM4

POWER BOX ENCLOSURE, 120/27V AC INPUT WITH 60W DRIVER 24V DC OUTPUT.

# PBK-MW10024-DM4

POWER BOX ENCLOSURE, 120/27V AC INPUT WITH 100W DRIVER 24V DC OUTPUT.

## PBK-MW15024-DM4

POWER BOX ENCLOSURE, 120/27V AC INPUT WITH 150W DRIVER 24V DC OUTPUT.

# PBK-MW24024-DM4

POWER BOX ENCLOSURE, 120/27V AC INPUT WITH 240W DRIVER 24V DC OUTPUT.

	NOTES:	UNLESS OTHERWISE SPECIFIED:		NAME	DATE	nanometer	57-10 49th place r p.718.497.0394	maspeth, ny 11378
		DIMENSIONS ARE IN INCHES	DRAWN	CS	11/06/2017	lighting	1.718.821.9316	
		TOLERANCES: FRACTIONAL±	CHECKED			TITLE:		
		ANGULAR: MACHBEND ± TWO PLACE DECIMAL ±	ENG APPR.			D D	Day DMC	$\sim$
		THREE PLACE DECIMAL ±	MFG APPR.			Power B	OX DVV	G
	1	INTERPRET GEOMETRIC	Q.A.					
PROPRIETARY AND CONFIDENTIAL  This print is the property of Nanometer Lighting and is		TOLERANCING PER:	COMMENTS:					
is plint is the property of nontriener agring and is sued upon the condition that it will not be used directly or indirectly. In any way detremental to our interests, and		MATERIAL				SIZE . DWG. NO		REV
that it will not be used to our interests, and that it will not be disclosed to a third party without the prior written consent of Nanometer Lighting, 57-10 49th Place, Maspeth,		FINISH				<b>A</b>		
NY 11378 Phone (718) 497-0394 Fax(718) 821-9316		DO NOT SCALE DRAWING				SCALE:1:1	SHE	ET 3 OF 3



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Type:

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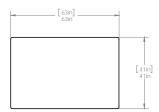
Page 68 of 119

# FlexDuo Straight

# SCOUT

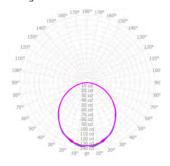


# **Dimensions**



# **Optics**

# Flat Milky



# Spec Lock

- LED specially binned through forward voltage within a 3-step MacAdam ellipse for increased CCT fidelity and smooth lower end dimming.
- Mechanically fastened Rigid PCB set within an extruded aluminum channel for simple installation and total serviceability.
- Pressure fit metal pin connection for solderless in-field connection between LED boards for a seamless appearance.
- Flexible power feed injections maintain LED pitch consistency for a plethora of mounting options.
- Never a shadow, hotspot nor break in light no matter the output and run length
- No double-sided adhesion (tape) or soldering during installation.











S

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Page 1 of 4



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Type: F17

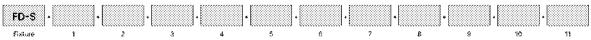
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Page 69 of 119

# FlexDuo Straight

# SCOUT

# Part # Builder



Fixture	1: Less	2 : Intensity <sup>1</sup>	a : Color Temp
FD-S : Zip Straight	FM : Flat Milky	L : <b>Low</b> (388m/2.8w per ft) H : <b>High</b> (1990m/8.3w per ft)	27 : 2700K 36 : 3500K 25 : 3500K
4 : Finish <sup>3</sup>	5 · Feed <sup>s</sup>	6 : Contra	7: Mounting
M : Mili W : Gioss White B : Matte Black C : Custom BAL	EF : End Feed RF : Rear Feed SFI : Side Feed 1	0: None 1: 0-10-1% Dimming 2: 0-10-0.1% Dimming 3: DMX/ DALi 4: POE 5: ELV / MLV / Phase 6: 0-10 Tuneable White 7: 0-10 Warm Dim 8: Lutron Hi-Lume 1% Ecosystem W/ SO-FTB 9: Lutron Athena Wireless Node - RF Only 13: Casambi 12: ntyte 13: Enlighted 14: Other - Consult Factory	N : None E :External
8 Bind Cove *	9 : Wire Length	10 : Shape	13 : Fixture Length
N:No	12" 24" 45" 96" Custom - (Consult Factory)	S - Straight U - U Shape L - L Shape R - Rectangle P - Pattern (Consult Factory)	<b>χ</b> Υ <sup>ω</sup>

# Flat Milky: No Imaging - 50% Light Loss

Lumens/Foot	115	204	339	575	670
Watts/ Foot	1,6	2.8	4.B	8.3	9.8
Lumens/Watt	73	72	71	69	68





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Page 2 of 4



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Type:

F17

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Page 70 of 119

# FlexDuo Straight

# SCOUT

# Specification Details

	LENS	LIGHT LOSS	VISIBLE DIODES		LOW	High		
Watts / Foot	N/A				2.2	4.4		
mA / Foot		N/A			92	184		
Lumens / Watt		N/A			136	136		
No Lens: Lumens / Foot	None 0% No		No		288	576		
0-10 / Lutron Athena Node	Ма	x Load @ 96 Wa	atts		40 Feet	20 Feet		
DMX / DALI	Max Load @ 96 Watts				40 Feet	20 Feet		
Phase	Max Load @ 96 Watts				40 Feet	20 Feet		
POE		Consult Factory						
Lutron Drivers	LDE1 Hi-Lume 1% EcoSystem. Soft On Fade to Black			L3D. Hi-Lume 19	A3W 6 3 WIRE+G			
Color Temperatures (K) + Flux	2700 (100%), 3000 (100%), 3500 (115%)							
Max Run Length		20 Feet						
CRI				90	)+			
R9				50	)+			
MacAdams Ellipses				3 St	eps			
Beam Angle <sup>2</sup>				120 De	egrees			
IP Rating				IP20 - Dry	Location			
Lamp Life				50,000	Hours			
Dimming / Control <sup>3</sup>			0-10 / POE / DM	X / DALI / PHASE	/ LUTRON / LUT	RON WIRELESS		
Operating Temperature				-13°F to	122°F			

# FINISH

Standard Mill Aluminum Finish.

Powder Coating to any RAL# available upon specification Increased pricing for powder coating.

2 Year Limited Warranty - Covers all Scout manufactured products.

Default to manufactures warranty for all 3rd party components. Does not cover labor.

- All fixtures come standard with starter end cap feed unless
- otherwise specified. All Scout Select Fixtures come preassembled up to 8 feet long with
- Any Fixture length under 8 feet long will be made as a complete fixture.
- Any Fixture length over 8 feet long will broken into 6 foot lengths + the balance length. A 10 Foot Fixture will be broken into 1 length @ 6 Feet and 1@ 4 Feet.
- Fixtures daisy chain together with Scout\_LockTM Technology.
- In situations where fixtures are longer then the maximum wattage load new power will be injected from either the side or rear. Standard Injection is
- All orders come with an approval drawing. Fabrication will not begin until drawing has been signed off or waived.

# S

# LED SYSTEM

Proprietary linear LED Scout Engine incorporates premium Cree LEDs on a robust platform to achieve excellent thermal management. LEDs are placed to promote a

Available in 2200K, 2700K, 3000K, 3500K, 4000K or 5000K in 90+ CRI. LED modules and drivers are replaceable.

Color accuracy <3 SDCM

# CONSTRUCTION

One piece extruded aluminum housing. Cast aluminum end caps.

Extruded High Transmission Milky Acrylic Lens with No LED imaging. Extruded High Transmission Frosted Acrylic Lens with LED imaging.

# **ELECTRICAL**

Fixture comes reassembled with 8" whip.

All Drivers are installed in remote location

All drivers are Universal input 120-277 VAC. Standard Constant Voltage drivers include 0-10V dimming preinstalled in enclosure.

Conforms To UL STD 2108Certified To CSA STD C22.2 # 250.0 Suitable for Dry or Damp Locations, indoor use only. ETL Control # 5011600

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Page 3 of 4



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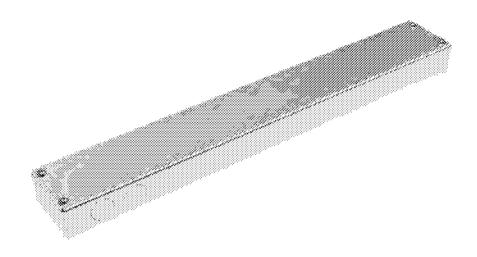
Page 71 of 119

<sup>&</sup>lt;sup>1</sup>Lumens / Watt accounts nominal driver efficacy at full load
<sup>2</sup> Finish: Mill Finish comes standard. Cost Adder for Power Coating. Contact Factory for Custom RAL#
<sup>2</sup> Feed: See Feed Details on page 4



# 75 WATT 0-10 LED DRIVER PART #SDRVCC01075

Project :	Firm:	Type :	Quantity:



# Quick Specs

Driver Type	Constant Current
Dimming Control	0-10 : 1%
# of Channels	1
DC Voltage Range	27-54 VDC
AC Input Voltage	120 - 277
Class	2
mΑ	2000
Wattage	<i>7</i> 5
Warranty	5 years

Efficency

# Max Load (2000mA)

Super Low (50mA)	40 Fee
Low (89mA)	22 Feet
Medium (149mA)	l3 F <del>ee</del> t
High (250mA)	8 Feet
Super High (300mA)	5 Feet

# Max Distance

20 AWG	20 Feet
18 AWG	40 Feet
16 AWC	ó0 feel
14 AWG	100 Feet
12 AWG	150 Feet

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New York, Nit 1.8305/COUTLD www.Scoutlighting.com hfos/Scoutlighting.com





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>90%

Туре:

F17

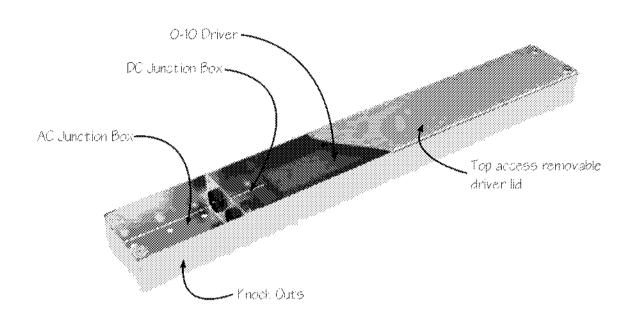
230042.000 **BID Submission** 10 JULY, 2024

Page 72 of 119

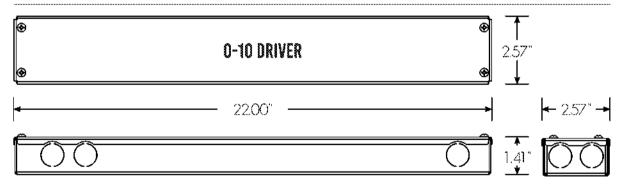


# 75 WATT 0-10 LED DRIVER PART #SDRVCC01075

# Driver Anatomy



# Dimensions



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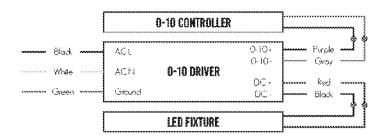
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Page 73 of 119

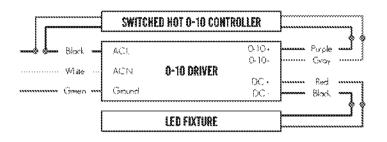


# 75 WATT 0-10 LED DRIVER PART #SDRVCC01075

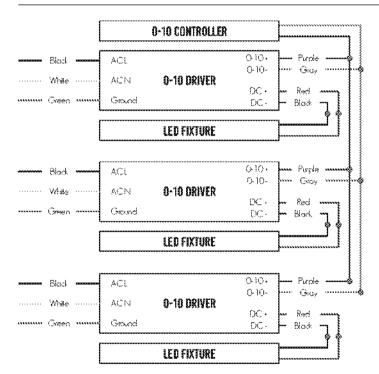
# Wiring



Single 0-10 wiring



Switched Hot 0-10 Wiring

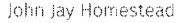


Multiple fixture wiring to single 0-10 Dimmer

New York, PTY 1.888355.00FID www.fooollogbling.com Infooollogbling.com



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Type:

F17



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Page 74 of 119

Application
Open wall luminaires with a high level of efficiency, characterized by an elongated design. As solid and reliable lighting tools with modern lamp technology and high-quality workmanship, they will provide very cost-effective service over long operating periods.

# Materials

Hand-blown three-ply opal glass Aluminum housing

NRTL listed to North American Standards, for interior use only

Weight: 6.6 lbs.

# Electrical

Operating voltage Minimum start temperature 120-277VAC -20° C 30.0 W 35.6 W LED module wattage System wattage

Controllability 0-10V dimming down to 0.1%

Color rendering index Luminaire lumens LED service life (L70) Ra > 80 3311 lm 60000 hrs

LED color temperature
□ 4000K (K4)
□ 3500K (K35)

□ 3000K (K3) □ 2700K (K27)

**BEGA** can supply you with suitable LED replacement modules for up to 20 years after the purchase of LED luminaires - see website for details

White finish. Custom colors not available.

Type:

BEGA Product:

Project:

Modified:

Included (available for pre-shipment)

□ B19537 Narrow opening wiring box





Linear v	wall luminai	re · Opal glass			
	LED	А	В	С	
B50084	30.0W	4	24	53/8	

BEGA 1000 BEGA Way, Carpinteria, CA 93013 (805) 684-0533 info@bega-us.com

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230042.000

**BID Submission** 

10 JULY, 2024

Type:

Project:	
Location:	
Fixture Type:	
Catalog Number:	

### **AVAILABLE FINISHES**



# Lightstick

WS-47997

# PRODUCT DESCRIPTION

Modern and ultra-minimal. Lightstick is a slim LED vanity luminaire designed perfectly for residential, hospitality and commercial powder rooms. A slender bar of light constructed from a co-extrusion of clear and white acrylic affords the luxurious dimensional look of cased glass but durable enough for its dramatic proportions. The versatile design allows it to beplaced horizontally or vertically or even at angles on walls and ceilings.

# FEATURES

- ACLED driverless technology
- Co-extruded acrylic diffuser
- 1" slim junction box included and can be ordered separately (model# JB-0501)
- 0-10V dimming option available (special order), unit dimensions:  $3.4^\circ \times 1.2^\circ \times 0.5^\circ$  (model#LDS065M010AFE-LO1)
- · Conversion plate included for 4" junction box
- Trimless spackle cover available for 4" square junction box recessed in drywall thicknesses of 1/2", 5/8", 1", and 1-1/4"; accessory not included and can be ordered separately (model# MKCP-3040-WT)

# SPECIFICATIONS

Rated Life 54000 Hours

Standards ETL, cETL,Damp Location Listed,Title 24 JA8: 2019 Compliant,ADA

Input 120 VAC,50/60Hz Dimming ELV

Mounting Can be mounted on ceiling or wall in all orientations

Color Temp 3000K

Construction Aluminum hardware, co-extruded acrylic diffuser

# REPLACEMENT PARTS

JB-0501 - 1" Slim Junction Box

### 

WS-1799.

Example: WS-47997-WT

For custom requests please contact customs@modernforms.com

ModernForms.com | Phone: (866) 810-6615 | Fax (800) 526-2585 Central Distribution Center: 1600 Distribution Ct, Lithia Springs, GA 30122 Western Distribution Center: 1750 Archibald Avenue, Ontario, CA 91760

MODERN FORMS



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Type:

)2

230042.000 **BID Submission** 10 JULY, 2024

Page 76 of 119

# Pole top luminaires with asymmetric flat beam light distribution

**Housing/fitter:** Two piece die-cast aluminum construction. The fixture slip fits a 3" 0.D. pole top or tenon and is secured by six (6) socket head stainless steel set screws threaded into stainless steel inserts. Die castings are marine grade, copper free ( $\le 0.3\%$  copper content) A360.0 aluminum alloy.

**Enclosure:** Clear acrylic diffuser with optical texture and reflector made of pure anodized aluminum held in place by die-cast aluminum frame and stainless steel rods. Fully gasketed for weather tight operation using a molded silicone rubber O-ring gasket.

Electrical: 31.0W LED luminaire, 36.0 total system watts, -30°C start temperature. Integral 120V through 277V electronic LED driver, 0-10V dimming. LED module(s) are available from factory for easy replacement. Standard LED color temperature is 4000K with a >80 CRI. Available in 3000K (>80 CRI); add suffix K3 to order.

**Note:** LEDs supplied with luminaire. Due to the dynamic nature of LED technology, LED luminaire data on this sheet is subject to change at the discretion of BEGA-US. For the most current technical data, please refer to www.bega-us.com.

Finish: All BEGA standard finishes are polyester powder coat with minimum 3 mil thickness. Available in four standard BEGA colors: Black (BLK); White (WHT); Bronze (BRZ); Silver (SLV). To specify, add appropriate suffix to catalog number. Custom colors supplied on special order.

CSA certified to U.S. and Canadian standards, suitable for wet locations. Protection class IP65

Weight: 11.0 lbs.

EPA (Effective projection area): 1.1 sq. ft.

Luminaire Lumens: 3134



Pole-to	p luminaires · asymmetric	flat bear	n
	Lamp	Α	В
77 165	31.0W LED	101/4	25¾

<sup>\*</sup> recommended for use with 12' to 18' poles

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Туре:

-X1

Page 77 of 119

A round, non-tapered, aluminum pole with a fixed base. Useful for mounting pole-top luminaires, floodlights, banners, or other accessories. Consult a licensed structural engineer when specifying. Poles must be unwrapped when delivered and should not be allowed to sit in their packaging.

# Materials & Specifications

Extruded aluminum pole shaft

A356 aluminum alloy anchor base heat-treated to T6 temper Anchor bolts conform to ASTM F1554 Grade 55 with L bend on one end and galvanized minimum 12" on threaded end

Anchor bolts provided with (2) hex nuts and (2) flat washers

Aluminum nut covers
Covered handhole with hardware and grounding provisions provided 3" welded tenon

Wall thickness: 0.125" Structural weight: 26 lbs

### Maximum Luminaire Weight: 62 lbs

# Finish

All BEGA standard finishes are a matte, textured powder coat with a minimum 3 mil thickness. BEGA Unidure® finish, a fluoropolymer technology, provides superior fade protection in Black, Bronze, and Silver. BEGA standard White, as well as optionally available RAL and custom colors, are a polyester powder.

Available colors	□ Black (BLK)	☐ White (WHT)	□ RAL
	☐ Bronze (BRZ)	☐ Silver (SLV)	

# Disclaimer

BEGA North America warrants the specific anchor bolts and pole combination according to the product number(s) and description(s) indicated on the submittal sheet. Structural changes to the pole requested by the customer, including changes to pole length, may affect the compatibility of the anchor bolts and corresponding poles. BEGA North America is not responsible for the incompatibility of the anchor bolts and poles resulting from such structural changes without review by the BEGA North America engineering department. This includes, but is not limited to, any labor charges, charges for replacement materials and shipping. For safety reasons, do not mount more than 50 lbs. to hinged poles and more than 62 lbs. to fixed poles. Pole capacities are based upon the provisions of AASHTO 2013 (LTS-6) and assume a max vertical eccentricity to the fixture of 2'-0" above the pole top. Adequate drainage must be provided in concrete foundation or grout. Do not seal the base of the pole. Due to structural reasons, do not install pole without fixture or other appropriate weight on the top.



Aluminum <sub>I</sub>	oole · Ro	und fixe	d non-ta	apered				
	Α	B.	С	D	Е		And	horage
12 RFNS1	3"	12'	8 1/8"	4"	4"	В	12RFNS	S1-AB
Pole wind lo	ad rating	9						
MPH	85	90	100	110	120	130	140	150
FPA"	5.1	4.4	3.2	2.4	1.8	1.4	1.2	1.0

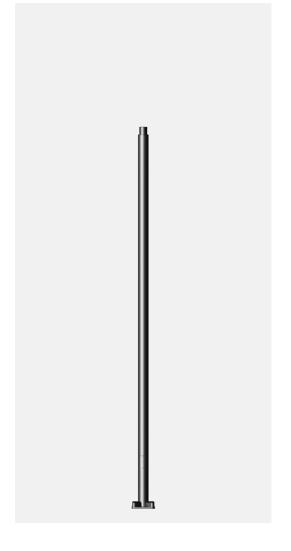
Height is rounded to the nearest foot, for precise measurements see submittal drawing. "Data above assumes grade level installation and a maximum luminaire weight of 62 lbs

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Type:





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Туре:

# Accessories BEGA

# Base Cover

Standard pole is provided with nut covers. See alternate base cover options below.

☐ Round

☐ Square



# **Options**

# Power Receptacle - Standard Location

GFCI covers provided are intended for portable tools or other portable equipment connected to the outlet when attended. Wet location listed when cover is closed. Handhole must be 18" from GFCI.

☐ GFCI at default location

Orientation: 180°; Height: 36" A.F.G.

☐ In-use cover



# Modifications

Any changes or additions to BEGA North America's standard pole offering that are not listed as accessories or options are considered modifications. Should a modification be required, the below section is intended to help streamline the process during the initial design and specification. All modifications will need to be quoted and approved by BEGA North America prior to order placement.

## Modified Pole Height:

# Power Receptacle - Nonstandard Location

☐ GFCI at custom location

Orientation:

Height (min. 18" A.F.G.):

☐ In-use cover

# Handhole

Unless otherwise specified handhole will be located 18" A.F.G. between two anchor bolts.

☐ Handhole at custom location

Orientation:

Height:

# Vibration Dampener

☐ Vibration dampener

Solution provided will vary depending on needs.

Still not finding what you need? Additional modifications may be available. Please contact your local BEGA representative to learn more about our modification capabilities.

**Note:** Accessories, options, and modifications may require additional lead-time and increase cost. All details must be quoted and approved by BEGA North America prior to order placement.

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Туре:

-X1

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Page 79 of 119

# DESCRIPTION

The LINEA 62° leverages the latest in LED technology with distinctive design and exceptional versatility to perceptively capture today's minimalist design philosophy. The well-proportioned reduced form continues retain its validity far into the future. Available in single or twin mounting configurations, the pedestrian-scale model is 15' tall, with complementary models in intermediate and taller heights of 20' and 26' for proper scale in a variety of applications. A selection of LED illuminating bollards for performance or ambience complements the product family. All hardware is stainless steel. CSA Listed for Wet Locations.

PROTEC	SED BY	•	_			
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Date:Type:	Catalog Number:
Project Name:	

# ORDERING INFORMATION

MODEL	LED MODULE	CCT	CONTROL	VOLT	DISTRIBUTION	MOUNTING	POLE HEIGHT	POLE MATERIAL	BASE COVER	MOUNTING KIT	HZINIA	OPTION
LN450G	1 1 Module	<b>30K</b> 3000K	OIM 0-10v Dimming	UNV 120-277v	12 Type (1	<b>S</b> Single	15 15' Straight Rectangular	A Alimenom	BC Base Cover	MK Mounting Ká (Anchor bolis → Tempiate)	BL Black	3PR 3-pin NEMA Photocontrol Reneptante
	<b>2</b> 2 Modules	<b>40K</b> 4000K			13 type til	<b>D</b> Double	XX*	S Steel			<b>D8</b> Dark Bionze	7PR 7-pin NEMA Photonontrol Receptable
					<b>74</b> Type IV						<b>DG</b> Dark Grey	GFCI GFCI Receptacie
					<b>YS</b> Type V						<b>GG</b> Graphite Grey	H <b>SS</b> House Side Shield
							fOther (Specify in feet)				SG Silver Grey	MS Motion Sensor
											CC Custom RAL Color	TVSS20 20KV Surge Suppressor

EANNER ARM TYPE	BANNER WEDTH	BANNER LENGTH	ORIENT?	HEIGHT TOP OF BANNER
BA-S	18	30	0	XX;
Single Banner Arm Set	18 inches	30 inches	0"	
8A-D	24	48	90	
Dauble Banner Ann Set	24 (0056)	48 inches	90*	
		60	180	
		80 moties	120°	
		72	270	
		72 inches	270"	



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Rev 20231004

1/6



John Jay Homestead

Type:

FX2 Series

230042.000 **BID Submission** 10 JULY, 2024

Page 80 of 119



# SPECIFICATIONS

# HOUSING

Rectangular luminaire housing with integral fitter is extruded 6061 aluminium with 15 temper and shows no visible welds. Individual LED arrays are sealed by the lens and a one-piece salkone gasket making a weather tight modular assembly. Luminaire mounts to terion on pole and secured with four socket head cap screws on rop of the housing. Europaine is available in single or twin back-ro-back mounting configurations. All hardware is srainless sreet.

# OPTICS

Optics consist of 1 or 2 LED light engines, Each light engine consists of a field replaceable aluminum core PCB with four high-power LEDs and a single piece lens molded from optical quality acrylic. Eight distributions include a choice of Type II, III, or IV optics. Luminaire emits zero uplight at 90 degrees horizontal and above and is suitable for use in all LEED lighting zones. Optional house side shields for the individual modules are available on request.

# LED DELIVERED LUMEN OUTPUT / BUG RATING

# 2 Modules: 72 watts

Type II -	3000k	7(85 lins / 82-U0-62	Type II -	4000kr	7789 lms / 82-U0-G2
Type III -	3000k	7/96 lms / 82-1/0-62	Type III •	4000k:	7800 los / 82-U0-62
Type IV -	3000k.	6813 lins / 82-U0-G2	Type M -	4000kc	7405 lms / 82-00-G2

### 2 Modules w/ House Side Shield: 72 watts

Type 4 -	3000k	6814 tms / 81-U0-G1	Type I; •	4000k:	7386	lms / 81-00-62
Type III -	3000k:	6805 lms / <b>8</b> 2-U0-G1	Type III -	4000kr	7377	lms / B2-U0-G1
Type M	3000k	6407 lms / B1-U0-62	Type IV -	4000kc	6945	inis / 81-00-62

NOTE: Due to rapid and continuous advances in LED technology, LED luminaire data is subject to change without notice and at the discretion of HessAmerica. Consult factory for current technical data.

### FLECTRICAL

Each LED module is driven by an independent electronic driver. Input voltage range is 120y through 277v at 50/60Hz. Each driver supplies 700mA drive current to its respective LED module. Power consumption for single driver is 36 waits and 72 waits for models with two LED light engines. Optional 0-10v DC dimming is available on request.

# LUMINAIRE WEIGHT: 22 lbs

LUMINAIRE EPA: 1,3 sq. ft

# ALUMINUM:

Straight rectangular pole is 6.3" x 3.9" nominal and manufactured from seamless 6061 aluminum tubing and heat treated to produce a 16 temper. Nominal wall thickness is 0.236". Sides of the shaft are flat with 1/8" radiused corners. Flush mounted hand hole cover is plasma cut with kerf not to exceed 1/8" and includes triangular temper-resistant locking device. Two-piece base cover is fabricated aluminum. Nominal pole height is 15'.

Straight rectangular pole is 6.3" x 3.5" nominal and manufactured from cold drawn over mandrel, electric weld, mechanical steel tubing with nominal wall thickness of 0.197. Sides of shaft are flat with 3/8" radiused corners. Pole shaft show no seam along the shaft. Flush mounted hand hole cover is plasma cut with kerf not to exceed W16" and includes triangular temper-resistant locking device. Pole is hot-dip galvanized with coating inside and out, then lightly sanded prior ro painting. Two-piece base cover is tabricated aluminum. Nominal pole height is 15'.

Standard finishes are finely textured matte silver grey metallic, dark grey, graphite grey, matte black, or dark bronze. Special colors available on request.

CERTIFICATION: CSA Certified for Wet Locations

**INGRESS PROTECTION: IP65** 

# WARRANTY

Limited product warranty period including LEDs is five years. Driver shall carry the manufacturer's limited warranty



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**FX2 Series** 

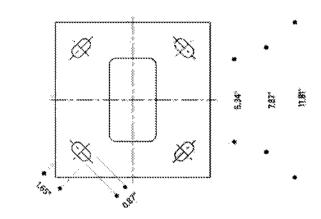
230042.000 **BID Submission** 10 JULY, 2024

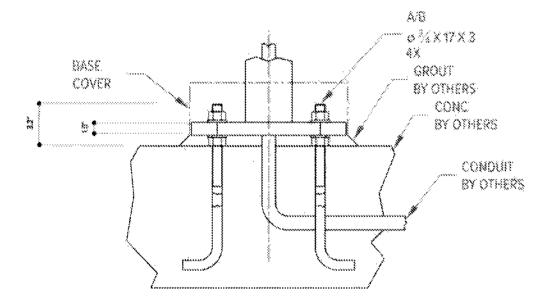
Page St of 119

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# MOUNTING DETAILS

All dimensions are shown in inches unless otherwise noted.







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Type:

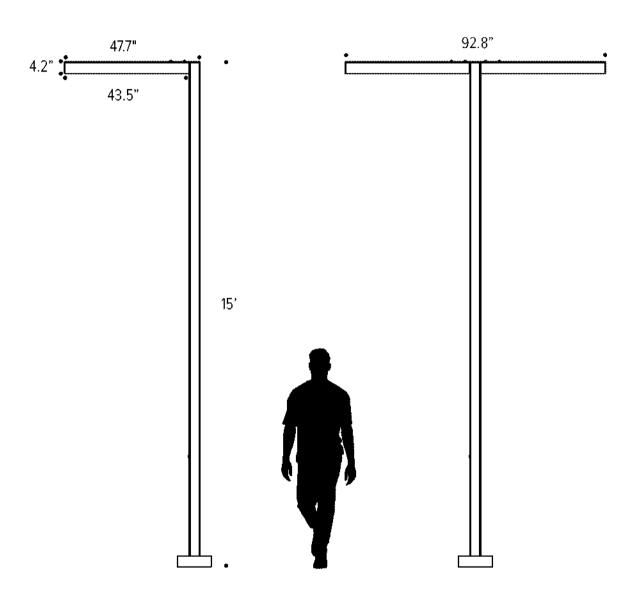
FX2 Series

230042.000 **BID Submission** 10 JULY, 2024

Page 82 of 119

# DIMENSIONS

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Type:

FX2 Series

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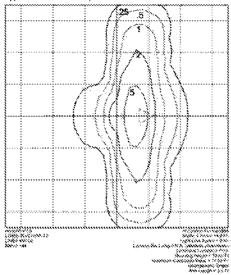
Page 83 of 119

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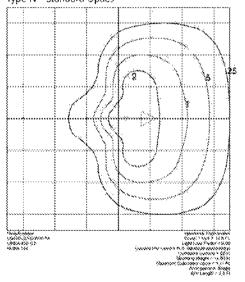
# PHOTOMETRICS (3000K)

Mounting Height: 1" / Scale: Each square = 14.8"

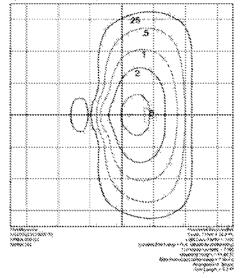
Type II - Standard Optics



Type IV - Standard Optics



# Type III - Standard Optics



# ISOLINES LEGEND:

Black = 0.25 FC Red = 0.50 FC Green = 1.0 FC Blue = 2.0 FC Purple = 5.0 FC



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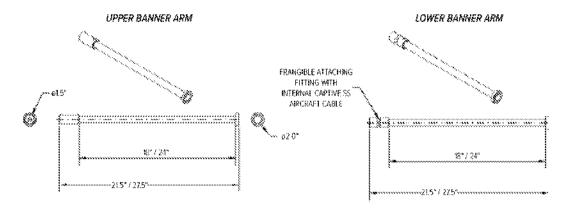
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Page 84 of 119

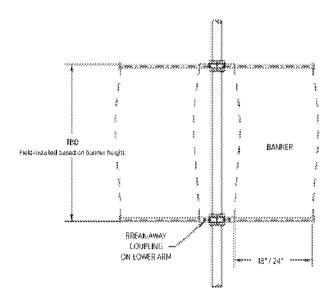
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# **BANNER ARM DETAILS**

All dimensions are shown in inches unless otherwise noted.



NOTE: Frangible attachments for banner arms are designed to break at 60% to 70% of the rated load of the pole.





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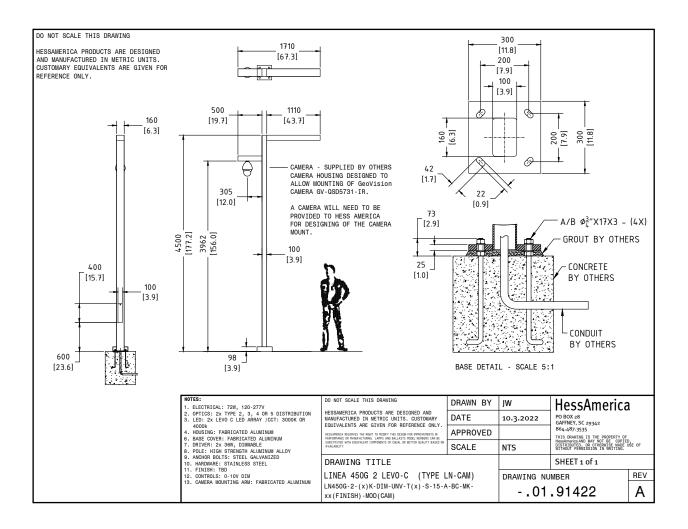


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Page 85 of 119





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Type:

FX2A

230042.000 **BID Submission** 10 JULY, 2024

### Application

An LED bollard with shielded asymmetric light distribution. Designed for effective lighting of landscapes, pathways, and open spaces. The fully shielded design provides visual comfort while illuminating ground surfaces. Provided with mounting system that allows the luminaire to be adjusted independent of anchor bolt orientation.

### Materials

Luminaire housing constructed of die-cast and extruded marine grade, copper free (≤0.3% copper content) A360.0 aluminum alloy

Clear safety glass

Reflector made of pure anodized aluminum

High temperature silicone gasket

Mechanically captive stainless steel fasteners

Mounting plate constructed of heavy cast aluminum

NRTL listed to North American Standards, suitable for wet locations

Protection class IP65 Weight: 14.5lbs

Electrical

Operating voltage 120-277VAC -30°C Minimum start temperature 90°C Maximum ambient temperature LED module wattage 11.6W System wattage 14.5 W Controllability 0-10V

Color rendering index Luminaire lumens Ra > 80 1475 lumens (4000K) LED service life (L70) 60,000 hours

LED color temperature

□ 4000K - Product number + **K4** (*EXPRESS*)
□ 3500K - Product number + **K35**□ 3000K - Product number + **K3** (*EXPRESS*)
□ 2700K - Product number + **K27** 

Wildlife friendly amber LED - Optional

Luminaire is optionally available with a narrow bandwidth, amber LED source (585-600nm) approved by the FWC. This light output is suggested for use within close proximity to sea turtle nesting and hatching habitats. Electrical and control information may vary from standard luminaire.

LED module wattage 17.6 W (Amber) System wattage Luminaire lumens 22.0W (Amber) 574 lumens (Amber)

BEGA can supply you with suitable LED replacement modules for up to 20 years after the purchase of LED luminaires - see website for details

All BEGA standard finishes are matte, textured polyester poywder coat with minimum 3 mil thickness.

☐ White (WHT) □ RAL: ☐ Bronze (BRZ) ☐ Silver (SLV) □ CUS:



	11.6W			
	LED	Α	В	Anchorage
Shielded LED	D bollard · asymme	etric		

Type:

BEGA Product:

Project: Modified:

**Mounting Accessories** 

□ 79817 Anchorage Kit □ 70895 Direct burial anchorage

Available options

□ FSC Fusing □ AMB

Amber LED ☐ FPRO

Factory Programmed Reduced output Integral Emergency Battery Pack □ EMPK

Asymmetric Wide Beam  $\square$  AWB

See individual accessory spec sheet for details.



BEGA 1000 BEGA Way, Carpinteria, CA 93013 (805) 684-0533 info@bega-us.com

Due to the dynamic nature of lighting products and the associated technologies, luminaire data on this sheet is subject to change at the discretion of BEGA North America. For the most current technical data, please refer to bega-us.com



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230042.000 **BID Submission** 

10 JULY, 2024

Page 87 of 119

# Not Used



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230042.000 **BID Submission** 10 JULY, 2024 Туре:

FX4

Page 88 of 119

# Not Used



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230042.000 **BID Submission** 10 JULY, 2024 Туре:

FX5

Page 89 of 119

DATE:

PROJECT:

nojeon.

CATALOG NUMBER LOGIC:



# **Driver housing required. Configure separately.**

\*Standard with Wall Wash Optic.

\*\*Not available with Wall Wash Optic.

\*\*\*The 360SL cost is already included in the price of UPM, UPM dual, and Power Canopy.

# **CATALOG NUMBER LOGIC**

Example: SA - LED - x52 - WW - BLP - 9 - 11 - CV - 360SL

TYPE:

# MATERIAL

Aluminum

# SERIES

SA - Saratoga

# SOURCE

LED - Chip on Board Technology

### I ED TYPE

x52 - 10W LED/2700K x53 - 10W LED/3000K x54 - 10W LED/4000K

# OPTICS

SP - Spot (20°) WFL - Wide Flood (50°)

WW - Wall Wash

# FINISH (See page 2 for full-color swatches)

Standard Finishes (BZP, BZW, BLP, BLW, WHP, WHW, SAP, VER)

Premium Finish (ABP, AMG, AQW, BCM, BGE, BPP, CAP, CMG, CRM, HUG, NBP, OCP, RMG, SDS, SMG, TXF, WCP, WIR)

Also available in RAL Finishes

# LENS TYPE

9 - Clear (Standard)

13 - Rectilinear\*

# SHIELDING

11 - Honeycomb Baffle\*\*

# ACCESSORIES

CV - Cutoff Visor

CS - Cutoff Snoot

BD - Adjustable Barn Doors

## **OPTIONS**

360SL - Knuckle Mounting System\*\*\*

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12/06/2022 SKU-1313 SUB-2784-00



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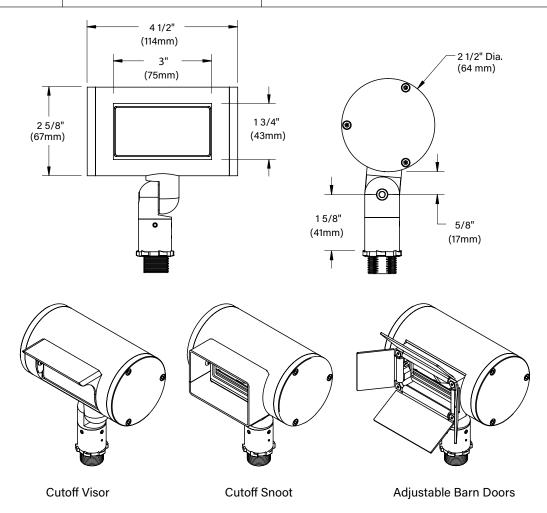
Туре:

FX6 Series

230042.000 **BID Submission** 10 JULY, 2024

Page 90 of 119

PROJECT: TYPE: DATE:



# STANDARD FINISHES



Click Here to view larger, full-color swatches of all available finishes on our website.

# PREMIUM FINISHES



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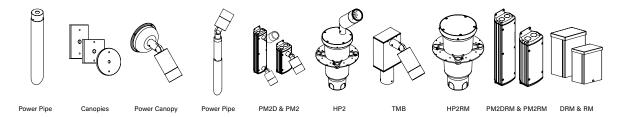
230042.000 **BID Submission** 10 JULY, 2024

DATE:

PROJECT:

TYPE:

Accessories (Configure separately)



# **SPECIFICATIONS**

WATTAGE	10WLED
	10W LED
WIRING	18GA, Stranded, XLPE, 300V, 150° C rated.
REMOTE DRIVER	For use with remote LED driver. See remote driver submittal to determine remote distance and wiring requirements prior to detailing field installation of any remote wiring.
MATERIALS	Furnished in copper-free aluminum (6061-T6).
BODY	Enclosed, water-proof wireway with machined end caps gasketed to create a water-tight seal for optical compartment.
KNUCKLE	LOCK Knuckle is integral to the body and features an interior taper machined from solid billet and a second, reverse angle taper allowing full 180° vertical adjustment without the use of aim-limiting serrated teeth. High temperature, silicone 'O' Ring provides water-tight seal and compressive resistance to maintain fixture position. Design withstands 73 lbs. static load prior to movement for optical alignment with a ½" pipe thread for mounting. Optional 360SL provides biaxial source control with 360° horizontal rotation in addition to vertical adjustment.
LENS	Shock-resistant, tempered glass lens is factory adhered to fixture cap and provides hermetically sealed optical compartment.
LED	Integrated solid state system and modular design with electrical disconnects allow for easy field upgrade and maintenance. LM-80 certified. Minimum 50,000 hour rated life at 70% of initial lumens (L70). LED technology provides long life, significant energy reduction and exceptional thermal management.
COLOR MANAGEMENT	Chip on board technology delivers natural white light. Exact color point conformity exceeds ANSI C78.377 standard. Module exceeds 80 CRI (RA>80, R9.16). Color point uniformity 2 SDCM color control for 2700K-4000K CCT.
OPTICS	Interchangeable optics permit optical field changes.
ACCESSORIES	Three (3) accessory options for optimum lighting control.
HARDWARE	Tamper-resistant, stainless steel hardware. LOCK hardware is black oxide treated for additional corrosion resistance.
FINISH	StarGuard, our 15-stage chromate-free process cleans and conversion coats aluminum components prior to application of Class 'A' TGIC polyester powder coating and is RoHS compliant.
WARRANTY	5-year limited warranty.
CERTIFICATION & LISTING	ITL tested to IESNA LM-79. UL Listed. Certified to CAN/CSA/ANSI Standards. RoHS compliant. Suitable for indoor or outdoor use, in wet locations, and for installation within 4' of the ground. IP66 Rated. Made in the USA with sustainable processes.
	REMOTE DRIVER  MATERIALS BODY  KNUCKLE  LENS LED  COLOR MANAGEMENT  OPTICS ACCESSORIES HARDWARE FINISH  WARRANTY

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Type:

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Page 92 of 119

# **LAMP & DRIVER DATA (x52, x53, x54)**

DATE: PROJECT: TYPE:

# **DRIVER ELECTRICAL DATA**

Туре	AC Input Range	Frequency Hz	Power Factor At Full Load (Efficiency)	THD	InRush Current	Operating Current	Operation Ambient Temperature	Dimmer Type	Dimmer Range
INC	120-277VAC	50/60	> 0.9	<20%	n/a	350mA	-30° C ~ 90°C	TRIAC/ELV (120V)	1-100%
0-10	120-277VAC	50/60	> 0.9	<20%	n/a	350mA	-30° C ~ 90°C	0-10V Dimming	1-100%

	LM79 DATA					
BK No.	ССТ (Тур.)	CRI (Typ.)	Input Watts (Typ.)			
	2700K	80	10W			
x52	2700K	80	10W			
•	2700K	80	10W			
	3000K	80	10W			
x53	3000K	80	10W			
	3000K	80	10W			
	4000K	80	10W			
x54	4000K	80	10W			
	4000K	80	10W			

L70 DATA
Minimum Rated Life (hrs.) 70% of initial lumens (L <sub>70</sub> )
50,000
50,000
50,000
50,000
50,000
50,000
50,000
50,000
50,000
<u> </u>

OPTICAL DATA				
Angle	Delivered Lumens			
20°	904.9			
50°	1306.1			
111.8 x 83.8	479.4			
20°	945.5			
50°	1364.8			
111.8 x 83.8	484.8			
20°	1016.7			
50°	1467.5			
111.8 x 83.8	538.7			

OPTICS				
Optic	Angle			
Spot	20°			
Flood	50°			
Wall Wash	111.8 x 83.8			

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04/22/2020 SUB-2783-01



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Туре:

FX6 Series

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Page 93 of 119

# SARATOGA - POWER PIPE II INTEGRAL DRIVER HOUSING (10W)

ORDER FIXTURE SEPARATELY.

DATE: PROJECT: TYPE:

CATALOG NUMBER LOGIC:



\*For use with incandescent dimmer. 120V only for dimming.

# **CATALOG NUMBER LOGIC**

Example: PPII - S12 - 010 - BZW - B - MT - SF

# MATERIAL

Aluminum

# SERIES

PPII - Power Pipe II System

# TYPE\*

S12 - 12" Stake

S18 - 18" Stake

J12 - 12" Junction Box

J18 - 18" Junction Box

### CONTROL TYPE

INC - 10W TRIAC/ELV Dimming 1-100%, 120V Only

010 - 10W Dimming Driver 0-10V Dimming 1-100%

### FINISH

Standard Finishes (BZP, BZW, BLP, BLW, WHP, WHW, SAP, VER)

Premium Finish (ABP, AMG, AQW, BCM, BGE, BPP, CAP, CMG, CRM, HUG, NBP, OCP, RMG, SDS, SMG, TXF, WCP, WIR)

(Also available in RAL Finishes. See submittal SUB-1439-00)

# CAP STYLE

B - Single Hole Cap

# INPUT VOLTAGE

MT - 120-277 VAC

# **OPTIONS**

SF - Stability Flange

**B-K LIGHTING** 

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12/06/2022 SKU-1317



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Type:

FX6 Series

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Page 94 of 119

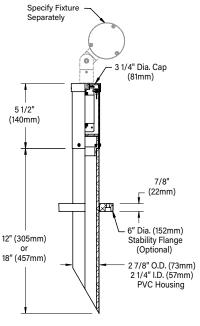
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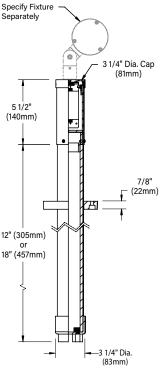
PROJECT:

TYPE:

JUNCTION (J)

# STAKE (S)





# **CAP STYLE**

# 'B' Cap (Single Hole)





# Bottom View of "J"



# STANDARD FINISHES



Click Here to view larger, full-color swatches of all available finishes on our website.

# PREMIUM FINISHES



Weathered Sonoran Desert Sandstone (SDS)

Antique White

(AQW)

Sierra Mtn Granite (SMG) Copper (WCP)

Aleutian Mtn Granite (AMG) Old Copper (OCP)

Weathered Iron Powder (CAP)

(TXF) Hunter Green (HUG) Clear Anodized

Textured Forest

**MADE IN THE USA** 

Cream

(CRM)

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Natural Brass

Powder (NBP)

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Page 95 of 119

# SARATOGA - POWER PIPE II INTEGRAL DRIVER HOUSING (10W)

ORDER FIXTURE SEPARATELY.

DATE: PROJECT: TYPE:

Accessories (Configure separately)

# **SPECIFICATIONS**

Electrical	WIRING / CONNECTORS DRIVER	18GA, Stranded, XLPVC, 300V, 150° C rated. Pre-wired and labeled terminal strip(s).  One (1) 350mA, Class A, constant current driver. 120-277VAC (nominal) primary input voltage. 50/60Hz. >0.9 Power Factor, 0.25A input current, .20%THD (nominal at 120VAC full load). Output over-voltage, over-current, and short circuit protection with auto recovery. INC Driver - For use with Incandescent Standard TRIAC or ELV dimmers. 1-100% range, 120V Only. 010 Driver - For use with 0-10V dimmers. 1-100% range, external controls by others.
PHYSICAL	INSTALLATION  STAKE (TYPE S)  JUNCTION BOX (TYPE J)  STABILITY FLANGE  CAP STYLE  DRIVER HOUSING  HARDWARE  FINISH  WARRANTY  CERTIFICATION & LISTING	Provides a clean, architectural transition from wiring system to fixture. 2" Schedule 80 PVC pipe. For direct burial in soil or concrete. Available in 12" and 18" lengths. Available in three installation types: 60° angled bottom designed for use with conduit or direct burial low voltage cable.  Includes two (2) 3/4" PVC slip connectors for branch circuit wiring.  Optional 6" diameter, molded stability flange simplifies installation and projects into substrate to simplify installation and reinforce housing stability.  Machined from copper-free aluminum.  Fully machined from copper-free aluminum. Stainless steel hardware. High temperature, silicone 'O' Ring provides watertight seal.  Tamper-resistant, stainless steel hardware.  StarGuard, our 15-stage, chromate-free process cleans and conversion coats aluminum components prior to application of Class 'A' TGIC polyester powder coating and is RoHS compliant.  5-year limited warranty.  Certified to CAN/CSA/ANSI Standards. UL Listed. RoHS compliant. Made in USA with sustainable processes.
ROHS		

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John Jay Homestead

Туре:

FX6 Series

230042.000 **BID Submission** 10 JULY, 2024

Page 96 of 119

# Not Used



John Jay Homestead

230042.000 **BID Submission** 10 JULY, 2024 Type:

FX7

Page 97 of 119

# Application

As an individual luminaire with low mounting heights, it can be used for marking danger areas or in rows for illuminating corridors and passageways. With high mounting heights it can be used as a wall luminaire next to doors or for lighting small wall areas.

# Materials

Clear safety glass with matte finish Marine grade, copper free (≤0.3% copper content) A360.0 aluminum alloy High temperature silicone gasket

Mechanically captive stainless steel fasteners

NRTL listed to North American Standards, suitable for wet locations Protection class IP 64

Weight: 1.1 lbs.

# Electrical

120-277VAC -30°C Operating voltage Minimum start temperature LED module wattage 3.0W System wattage Controllability 7.0 W 0-10V dimmable Color rendering index Ra > 80 Luminaire lumens 204 lm LED service life (L70)

LED color temperature

□ 4000K (K4)
□ 3500K (K35)
□ 3000K (K3)

□ 2700K (K27)

BEGA can supply you with suitable LED replacement modules for up to 20 years after the purchase of LED luminaires - see website for details

60000 hrs

### Finish

All BEGA standard finishes are matte, textured powder coat with minimum 3 mil thickness. BEGA Unidure® finish, a fluoropolymer technology, provides superior fade protection in Black, Bronze, and Silver. BEGA standard White is a super durable polyester powder. Optionally available RAL and custom color finishes provided in either polyester powder or liquid paint.

# Available colors

☐ Black (BLK)
☐ Silver (SLV) ☐ Bronze (BRZ) ☐ White (WHT) □ RAL: ☐ CUS:

Type:

**BEGA Product:** 

Project:

Modified:

# Available options

□ CUS □ FSC Custom finish

Fusing Marine grade undercoat ☐ MGU

□RAL RAL finish

# Included (available for pre-shipment)

□ B19545 Narrow opening wiring box





Wall luminaire · Directed light							
		LED	Α	В	С		
B33514	ADA	3.0W	21/8	7 <sup>7</sup> / <sub>8</sub>	23/8		

BEGA 1000 BEGA Way, Carpinteria, CA 93013 (805) 684-0533 info@bega-us.com

Due to the dynamic nature of lighting products and the associated technologies, luminaire data on this sheet is subject to change at the discretion of BEGA North America. For the most current technical data, please refer to bega-us.com © copyright BEGA 2024



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230042.000

**BID Submission** 

10 JULY, 2024

Type:

Page 98 of 119

DATE: PROJECT:

CATALOG NILIMBER LOGIC



\*Designed for use with LED transformer. Requires magnetic low voltage dimmer.

\*\*The 360SL cost is already included in the price of UPM, UPM dual, and Power Canopy.

# **CATALOG NUMBER LOGIC**

Example: B - MN - LED - e68 - SP - WHP - 12 - 11 - A - 360SL

TYPE:

# MATERIAL

(Blank) - Aluminum B - Brass

# **SERIES**

MN - Micro Nite Star

# SOURCE

LED - with Integral Dimming Driver (25W min. load when dimmed)\*

# LED TYPE

e75 - 7W LED/Amber

### OPTICS

SP - Spot (17°) MFL - Medium Flood (25°) FL - Flood (30°)

# FINISH (See page 2 for full-color swatches)

Standard Finishes (BZP, BZW, BLP, BLW, WHP, WHW, SAP, VER)

Premium Finish (ABP, AMG, AQW, BCM, BGE, BPP, CAP, CMG, CRM, HUG, NBP, OCP, RMG, SDS, SMG, TXF, WCP, WIR)

Also available in RAL Finishes

Brass Finishes (MAC, POL, MIT)

### LENS TYPE

12 - Soft Focus 13 - Rectilinear

# SHIELDING

11 - Honeycomb Baffle

# CAP STYLE

A - 45°

B - 90°

C - Flush Lens

D - 45° Less Weephole (Interior use only)

E - 90° Less Weephole (Interior use only)

# OPTIONS

360SL - Knuckle Mounting System\*\*

# MOD OPTIONS

5 - 5 Ft Leads

25 - 25 Ft Leads

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12/06/2022 SKU-737 SUB000927

**IP66 RATED** 



John Jay Homestead

Туре:

-X9

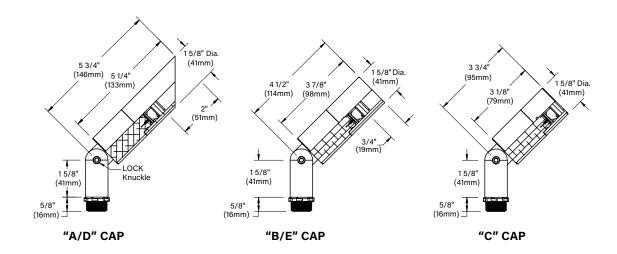
230042.000 **BID Submission** 10 JULY, 2024

Page 99 of 119

DATE:

PROJECT:

TYPE:



# STANDARD FINISHES



<u>Click Here</u> to view larger, full-color swatches of all available finishes on our website.

# PREMIUM FINISHES



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Type:

FX9

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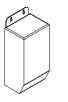
Page 100 of 119

DATE:

PROJECT:

TYPE:

Accessories (Configure separately)









Power Pipe

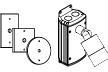


Power Canopy



Tree Strap





# **SPECIFICATIONS**

ELECTRICAL	WATTAGE	7W LED
	WIRING	XLPE, 18GA,150C, 600V, rated and certified to UL3321.
	REMOTE TRANSFORMER	For use with 12VAC remote transformer or magnetic transformers only. B-K Lighting cannot guarantee performance with third party manufacturers' transformers.
PHYSICAL	MATERIALS	Furnished in copper-free aluminum (6061-T6) or brass (360).
	BODY	Unibody design with enclosed, water-proof wireway and integral heat sink is fully machined from solid billet.
	KNUCKLE	LOCK Knuckle is integral to the body and features an interior taper machined from solid billet and a second, reverse angle taper allowing full 180° vertical adjustment without the use of aim-limiting serrated teeth. High temperature, silicone 'O' Ring provides water-tight seal and compressive resistance to maintain fixture position. Design withstands 73 lbs. static load prior to movement for optical alignment with a ½" pipe thread for mounting. Optional 360SL provides biaxial source control with 360° horizontal rotation in addition to vertical adjustment.
	CAP	Fully machined and accommodates two (2) lens or louver media.
	LENS	Shock-resistant, tempered glass lens is factory adhered to fixture cap and provides hermetically sealed optical compartment.
	LED	Integrated solid state system and modular design with electrical disconnects allow for easy field upgrade and maintenance. High power, forward throw source complies with ANSI C78.377 binning requirements and exceeds ENERGY STAR* lumen maintenance requirements. LM-80 certified components. Integral, constant current driver. 12VAC/VDC input. 50/60Hz. Proprietary input control scheme achieves power factor correction and eliminates inrush current (limited to <250mA non-dimming). Output, overvoltage, opencircuit, and short circuit protected. Conforms to Safety Std. C22.2 No. 250.13-12.
	DIMMING	Line voltage dimmable via magnetic low voltage dimmer with dedicated neutral conductor. Remote magnetic transformer with LED loads should be loaded to 25% of the transformer VA (watts) rated value.
	OPTICS	Interchangeable OPTIKIT modules permit optical field changes. Color-code: Narrow Spot (NSP) = red; Spot (SP) = green; Medium Flood (MFL) = yellow; Wide Flood (WFL) = blue.
	HARDWARE	Tamper-resistant, stainless steel hardware. LOCK aiming screw is black oxide treated for additional corrosion resistance.
	FINISH	StarGuard, our 15-stage chromate-free process cleans and conversion coats aluminum components prior to application of Class 'A' TGIC polyester powder coating and is RoHS compliant. Powder coat or metal finish options available for brass material.
	WARRANTY	5-year limited warranty.
	CERTIFICATION & LISTING	ITL tested to IESNA LM-79. UL Listed. Certified to CAN/CSA/ANSI Standards. RoHS compliant. Suitable for indoor or outdoor use, in wet locations, and for installation within 4' of the ground. IP66 Rated. Made in the USA with sustainable processes.
c∭us LISTED RoHS∜		
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USA		

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Type:



230042.000 **BID Submission** 10 JULY, 2024

Page 101 of 119

# LAMP & DRIVER DATA (e67, e68, e69, e75)

DATE: PROJECT: TYPE:

DRIVER	Input Volts	InRush Current	Operating	Dimmable	Operation Ambient Temperature
DATA	12VAC/DC 50/60Hz	<250mA (non-dimmed)	500mA	Magnetic Low Voltage Dimmer	-22°F-194°F (-30°C - 90°C)

LM79 DATA			Ά	L70 DATA	OPTICAL DATA		
BK No.	CCT (Typ.)	CRI (Typ.)	Input Watts (Typ.)	Minimum Rated Life (hrs.) 70% of initial lumens (L <sub>70</sub> )	Angle	СВСР	Delivered Lumens
	2700K	80	7	50,000	17°	3632	459
e67	2700K	80	7	50,000	25°	1708	435
	2700K	80	7	50,000	30°	1337	438
	3000K	80	7	50,000	17°	3871	489
e68	3000K	80	7	50,000	25°	1821	464
	3000K	80	7	50,000	30°	1425	467
	4000K	80	7	50,000	17°	3991	504
e69	4000K	80	7	50,000	25°	1877	478
	4000K	80	7	50,000	30°	1469	481
e75	Amber (590nm)	~	7	50,000	~	~	~

OPTICS			
Optic	Angle	_	
SP - Spot	17°	_	
MFL - Medium Flood	25°	_	
FL - Flood	30°	_	

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John Jay Homestead

Type:

FX9

230042.000 **BID Submission** 10 JULY, 2024

Page 102 of 119

DATE:

PROJECT:

TYPE:

CATALOG NUMBER LOGIC:



\*Includes stake, not available with Junction Box or transformer. Not compatible with fixtures that has 360HD knuckle.

\*\*For use with MR16 LED Lamps and Halogen Lamps.

\*\*\*For use with 3W-7W LED fixtures. 105-300 VAC. 50/60 Hz. non-dimming.

\*\*\*\*Non-dimming

# **CATALOG NUMBER LOGIC**

Example: PP - S12 - TRSS75 - BZW - B - 120 -SF

# MATERIAL

(Blank) - Aluminum B - Brass S - Stainless Steel

# **SERIES**

PP - Power Pipe System

# TYPE

S12 - 12" Stake

S18 - 18" Stake

J12 - 12" Junction Box

J18 - 18" Junction Box

A18 - 18" Adjustable Stem\*

# TRANSFORMER HOUSING

(Blank) - Less Transformer Housing

TRSS75 - 75VA Electronic Transformer with Housing\*\*

TRe20 - TRe20 Electronic Transformer with Housing\*\*\*

# FINISH (See page 2 for full-color swatches)

Standard Finishes (BZP, BZW, BLP, BLW, WHP, WHW, SAP, VER)

Premium Finish (ABP, AMG, AQW, BCM, BGE, BPP, CAP, CMG, CRM, HUG, NBP, OCP, RMG, SDS, SMG, TXF, WCP, WIR)

(Also available in RAL Finishes. See submittal SUB-1439-00)

Brass Finishes (MAC, POL, MIT)

Stainless Steel Finishes (MAC, POL)

## **CAP STYLE**

(Blank) - Less Cap (Adjustable stem only)

B - Single Hole Cap

C- Solid Cap

# INPUT VOLTAGE

(Blank) - For use with TRe20 Electronic Transformer\*\*\*

 $\ensuremath{\text{120}}$  -  $\ensuremath{\text{120}}$  VAC (For use with TRSS75)

230 - 230 VAC\*\*\*\* (Electronic only, for use with TRSS75)

277 - 277 VAC\*\*\*\* (For use with TRSS75)

# OPTIONS

SF - Stability Flange

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John Jay Homestead

Type:

-X9

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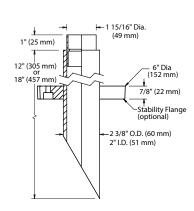
Page 103 of 119

DATE:

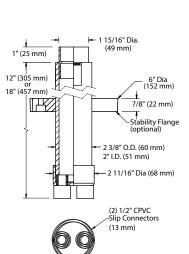
PROJECT

TYPE:

# STAKE (S)



# JUNCTION (J)



# ADJUSTABLE STEM (A) Specify Fixture 1" Dia (25 mm) 7/8" (22 mm) -Stability Flange (optional) 12" (305 mm) or 18" (457 mm) 2 3/8" O.D. (60 mm) 2" I.D. (51 mm)

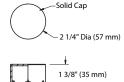


# 'B' Cap (Single Hole)

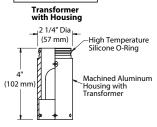


# 1 3/8" (35 mm)

# 'C' Cap (Solid Cap)



# **TRANSFORMER**



# STANDARD FINISHES

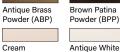


Click Here to view larger, full-color swatches of all available finishes on our website.

# PREMIUM FINISHES



(AQW)













(TXF)

Textured Forest

(WIR)

Clear Anodized Powder (CAP)

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(CRM)

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Powder (NBP)

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Туре:

230042.000 **BID Submission** 10 JULY, 2024

Page 104 of 119

POWER PIPE		ORDER FIXTURE SEPARATELY.
DATE:	PROJECT:	TYPE:
Accessories (Configure	separately)	

### **SPECIFICATIONS**

Electrical	WIDING	Tellant ageted using 19 AWC 600V 250°C exted and partified to III 1650 standard Administration and activities to the control of the control o
Electrical	WIRING	Teflon® coated wire, 18AWG, 600V, 250° C rated and certified to UL 1659 standard. Adjustable stem mount additionally includes 24" or 36" 12/2 direct burial low voltage cable.
	TRANSFORMER HOUSING	Fully machined from copper-free aluminum, solid machined brass or stainless steel. Stainless steel hardware. High temperature, silicone 'O' Ring provides watertight seal.
	ELECTRONIC TRANSFORMER	For use with halogen lamps. 120V, 230V, and 277V primary voltage. 120V is fully dimmable (40W minimum load). 50/60Hz. 11.6V secondary voltage. 10W minimum load (halogen) non-dimmed. 75 watt maximum load >0.93 Power Factor. <20% THD. Operating frequency >10kHz. Soft start circuitry to extend lamp life.
	TRe20 ELECTRONIC TRANSFORMER	For use with solid state 12V systems. 105-300VAC primary voltage. 50/60Hz. Non-dimming. 20VA maximum load.
PHYSICAL	INSTALLATION	Provides a clean, architectural transition from wiring system to fixture. 2" Schedule 80 PVC pipe. For direct burial in soil or concrete. Available in 12" and 18" lengths. Available in three installation types:
	STAKE (TYPE S)	60° angled bottom designed for use with conduit or direct burial low voltage cable.
	JUNCTION BOX (TYPE J)	Includes two (2) 1/2" PVC slip connectors for branch circuit wiring.
	ADJUSTABLE STEM (TYPE A18)	18" field adjustable stem accommodates future landscape growth. Unused stem length remains hidden inside housing. Delrin bushing and stainless steel set screws lock mounting height.
	STABILITY FLANGE	Optional 6" diameter, molded stability flange simplifies installation and projects into substrate to simplify installation and reinforce housing stability.
	CAP STYLE	Machined from copper-free aluminum or machined brass.
	HARDWARE	Tamper-resistant, stainless steel hardware.
	FINISH	StarGuard, our 15-stage, chromate-free process cleans and conversion coats aluminum components prior to application of Class 'A' TGIC polyester powder coating and is RoHS compliant.
	WARRANTY	5-year limited warranty.
	CERTIFICATION & LISTING	Certified to CAN/CSA/ANSI Standards. UL Listed. RoHS compliant. Made in USA with sustainable processes.
c∰us LISTED RoHS∜		
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USA		

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Type:



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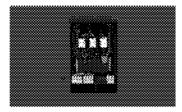
Page 105 of 119



# QOM-eLED+0-10V-PS LED POWER SUPPLY 60W-300W





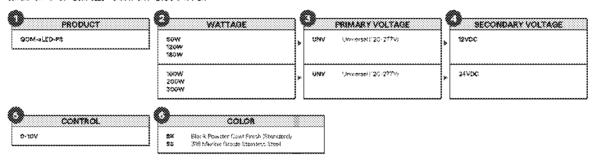


- Sustane report autenomisterii. 50 novem sunciv pentar

- Suctions majorit, extension relief (ED) power is pay center. Linkbee Advance Manning invests each optional Q-104 cambing modules. Designed for powering 12VDC or 24VDC carefunt voltage products. Suctoble for 0-10V damming or an Aufl explications. 0-40V dimming provides PWA to the Nurse for smooth dimming. EL listed anothering carefular in a procommodate 1-3 drivers and 1-3 drimming modules.

(1) \$40,00K*1	(2) MATTAGE	(3) PRIMARY VALTO SE	4 SEXTHEREST VOLTAGE	eostical	(6) 81658
QOM-eLED-PS		UNV		0-10V	

Sample Part Number: QCM-9LED-FS-50W-UNV-12VDC-0-10V-BK



#### PRODUCT INFORMATION

- Limited output veltage and current, plus isolation for safe operation.
- Dimmable 0.1% IOC% w/ additional 0-10V dimming module
- · Fully potted driver(s) for moisture resistance
- · Suitable for dry, damp, and wet locations
- Surface mount only
- . Suitable for use with submersible luminaire
- · Suitable for pool and spa application
- Primary voltage universal (120-277V)
- Wide operating temperature range, -40°F to 104°F.
- Fits up to (3) 60W 12VDC or (3: 100W 24VDC driver(s) and
- (1: 0-10V dimming module)
- 5 year warranty
- Driver has Class A sound rating
- Class 2 output.
- CSA #239924
- Low Voltage Lighting Systems
  - CSA Class 3425-15 and Class 3425-95
  - CSA Standard C22/2 No. 250/0708 Luminaires
  - ANSI/ UL Standard 2108 Low Voltage Lighting System

- ANSI/ UL Standard 8750 Light Emitting Diode (LED) Equipment for Use in Lighting Products
- CSA Std C22 2 No 250 13-14 Light Emitting Diode (LED) Equipment for Lighting Applications
- · Landscape Lighting Systems
  - CSA Class 3402-15 and Class 3402-95
  - CSA Standard C22.2 No. 250.7-C7 Extra-Low-Voltage Landscape Lighting Systems
  - ANSI/ UL Standard 1838 Low Voltage Landscape Lighting Systems - ANSI/ UL Standard 8750 - Light Emitting Glode (LED) Equipment for Use in Lighting Products
  - CSA Std C22 2 No 250 13-14 Light Emitting Diode (LED) Equipment for Lighting Applications
- Hydromassage (Pool and Spa)
  - CSA Class 3425-46 and class 3425-96
  - UL Standard 379 Power Unit for Fourcain, Swimming Pool and Spa Luminares
  - CSA STD C22.2 NO.89-15-Swimming Pool Luminaire, Submersible Luminaires and Accessories

15 2024 GTL All mahts reserved (155 Hill St. Milford, CT 66460 (203-367-0777) issles/5/07 Lilianting www.OTL/Jamming

Specification subject to change, Rev-03-12-24



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Туре:

230042.000 **BID Submission** 

10 JULY, 2024

Page 106 of 119



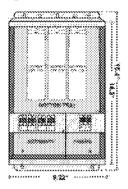
## QOM-eLED+0-10V-PS LED POWER SUPPLY 60W-300W

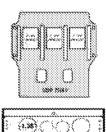
#### **VOLTAGE DROP CHART**

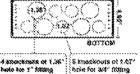
This product must be ristalled in accordance with the applicable installation code by a person familiar with the construction and operation of the product and the hazards involved. If diministy with optional 0-10V damning modula, use a damner rated for 0-10.

	Logo			150.00	nche ficani	P\$ 189 \$9	. Venam	0		
MDXC	Waters (W)	IG AWS	12 AWG	AWG.	16 978-3	AVVC	US QVVA	32° AYY3	2A 2NAC	26 2002
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	17	8577	\$64	§5.™	\$23	:40)	58.	\$87	\$8	72
	25.	567	856	894	121	881	36	351	28"	14
26	48	3089	1941	3,52	7.7	48	347	340	12	77
	-883	# RK	87	31	32	2.	13'	8.	N.	3r
	105.	0.8	\$0:	33	à5"	3,2	8	19	\$	

# PRODUCT - DIMENSIONS







## TECHNICAL INFORMATION

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18056	.998Yp90.	8× <b>0</b> 8	5.88%	0.878
NYSW	3×13×12.	26400	38864	0.49%
25225	\$20000M	:88683:	.0994	. \$89 <b>≱</b> .
355290	75,255,55	Sáras	2364	3.25 <b>2</b> .

#### **HOUSING**

- 18 gauge welded steel enclosure: 15.4°L x 9.22°W x 4.90°D.
- Door: 14.5"L x 9.27"W
- Knockouts: 9
- Built-in support bracket incorporated to secure housing for surface mounting

#### **PERFORMANCE**

- Rated for surface mount or outdoor use
- Fully rated to operate low voltage load at listed wattage (No derating required).
- Voltage regulation to 2% or less of rated output voltage.
- The ability to be dimmed using 0-IOV dimming.
- Universal input range of 120-277 Vrms
- Low Voltage Lighting Systems
   CSA Class 3425-15 and Class 3425-95
- LED Landscape Lighting System Components
  - CSA Class 3402-15 and Class 3402-95
- Hydromassage (Pool & Spa)
  - CSA Class 3425-46 and Class 3425-96
  - Short circuit protection (SCP)
  - Over voltage protection (OVP)
  - Over current protection (OCP)
- Live tested by the manufacturer to ensure proper operation
- · Terminal blocks are made of tin plated copper with a voltage rating of 300V and a current rating of 40A

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Specification subject to change, Rev-03-12-24



John Jay Homestead

Type:

FX9

230042.000 **BID Submission** 10 JULY, 2024

Page 107 of 119



## GOM-eLED+0-10V-PS LED POWER SUPPLY 60W-300W

#### **SPECIFICATIONS**

9686		18 <b>48</b> 83			2000 C	
(nghat vedlagja (vinno)	\$20	2,85	2277	83%	5,85	227
pspak Cumant, tosz (Auro)	0058	55,350	9,385	035	9,88	4,69
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legaca Hearipidensky (MRZ).		55,680	*****************		25883	
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duese	9990	W9.
Control Voltages, none(V)	₩.	Żκ
Quipost (Consent (A)	5,0	હ્યું
Colput Process(Wester)	330	300
Genman) (F.18k), Helse	ž.	æ.

Emerocinaente	6805	N/N	886	880	No.	SAN.
\$9\$0 (%)			30			287
PE (%)	-0.00			4000		
Cope From (18)	· .		90			43C

S. Spinites speaked

#### **PROTECTIONS**

 Short Circuit Protection (SCP)Over Voltage Protection (OVP)Over Current Protection (OCP)Class 2 Output

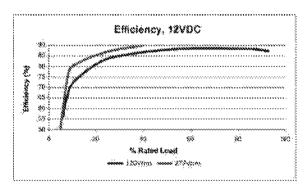


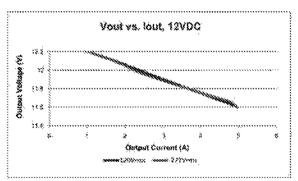


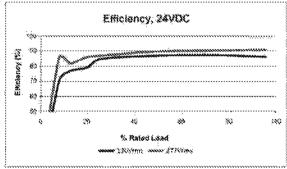
Black Powder Cost Finish (Standardl 316 Marine Grade Stanless Steel

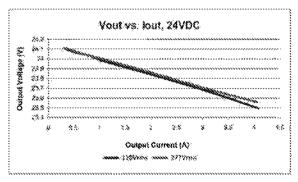
#### COMPLIANCE

- EMI Speci
  - FCC 47 Part 15
- EN61000-3-2
- CSA Certified
  - UL-2108
  - UL-1838
- -- UL-8750
- UL 379
- CSA C22.2 No 250.7-07
- CSA C22.2 No 250 0-08 CSA C22.2 No 250.13-14
- CSA C22.2 No 89-15









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Specification subject to change, Rev-03-12-24



John Jay Homestead

Type:

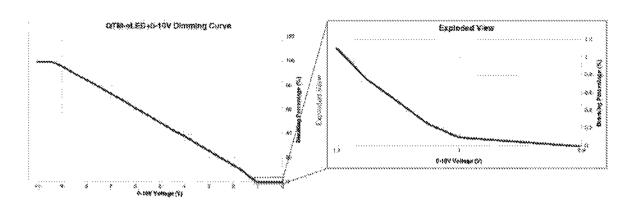
FX9

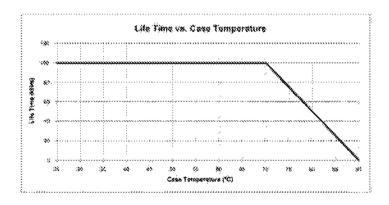
230042.000 **BID Submission** 10 JULY, 2024

Page 108 of 119



# QOM-eLED+0-10V-PS LED POWER SUPPLY 60W-300W





## COMPATIBLE WIRING ACCESSORIES



\$5,55555 modelin Sections and

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Specification subject to change, fiev-03-12-24



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Туре:

FX9

230042.000 **BID Submission** 10 JULY, 2024

Page 109 of 119



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230042.000 **BID Submission** 10 JULY, 2024 Type:

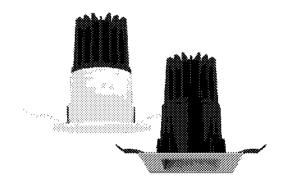
FX10

Page 110 of 119

# **LUMENTURE**® **DL60** 2" FIXED DOWNLIGHTS

Y																																

PROJECTS



With a 2" aperture, knife-edge trim and excellent visual cutoff -Lumenture's DL60 blends discreetly in any environment. These recessed modules deliver high lumens without glare. The result is superior brightness and quality from an unobtrusive fixture. The DL60 is available both in remodel with an attached junction box or with optional rough-in housings to fit any construction needs.







WEIGHT 11 02. (module only)



6.6W-17W

(1)EFFICACY up to 1600km up to 181m/W



AC DRIVER INPUT 120-277V



HOUSING Closed, Open, Pan. Remodel, Chicago Plenum



Alumnum moduse & trim. Powdercost



ACCESSORIES Rield replaceable polics & accessories

#### **ORDERING**

FIXTURE	CCT/CRI <sup>®</sup>	BEAM SPREAD	CONE COLDR	TRIM COLOR 51	TRIMTYPE <sup>12</sup>	DRIVER (4)	CHIPPIT Andrea (mA) <sup>18</sup> Andrea (m.)	HOUSING/ J-BOX
								-
DL60	224 - 7200K, OR190+	<b>15</b> - 15°	₩ - White	🗱 - White	R - Reyard	U - Universal Dimming Driver	150-65W	C - Closed
	2711 - 2500K, C8/904	<b>25 -</b> 26°	8 - Black	₽ - Black	RF - Round Flangeless	(frac, EU/ & 0=f0V)	200 - 85W X X X X	N - Open
	<b>30H</b> - 3000K CR 99+	40 - 40	S - Silver	S - Silver	RP - Round Pinhole	D1 - EttoLEO DALI/LEDrode	250 - 11W 2000 V 2	<b>p</b> 12 <sub>d∩</sub>
	308 - 3000K, CRI 95+	<b>60 -</b> 60°			RW - Round Wet	(01% dimming)	300 - 12.5W at a 2	R - Remodei
	300 • 3000K, CRI 305				RIPIN - Round Flangeless Wei		85G - 15W 98 / W	
	(Dinso-Warri)	:			S - Square	(0.1% dimming)	400 - 17W 3 2 3 3 4	Plenum
	35H+3530K-07830+				SF - Square Flangeless			
	40H 4000K 08904				SW - Square Wet			
					SFW - Square Flangeless Wer			

#### NOTES

- 1. Custom options available. Please consult factory.
- When "wet" frim is added, the fixtures are Wet Location Rated.
   Above ceiling access is required for Flangeless Trim options.
   Flangeless Trim options are only available with C (Closed), N (Open), and CP (Chicago Plenum).
- 3. EM battery backup option available. See page (4)
- 4. Housing availability chart is for informational purposes only. Do not include in ordering.
- Optional butterfly brackets available. See accessories on page (4).
   Butterfly brackets and factory installed brackets are required for accustical ceiling tile (ACT) ceilings.

#### ORDERING EXAMPLE:

#### LISTINGS

Certified to UE, standard 1598 and CSA C22.2 No. 250.0-98 for damp locations. Airtight (AT) certified less than 2 cfm leakage @1 57PSI per ASTM E283.









DLSG 2m Fixed Downlight Specifications p. 94 Custom options available, please consult factory. Product specifications are subject to change info@furrenture.com P. 203,864,9333

**C**LUMENTURE www.tumentore.com

MEY

Available, Non-IC-Rated

Available, IC-Rated, Title-24 Contribut Available, IC-Rated

Nox available



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**FX11** 

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Page III of III9

# **DL60** 2" FIXED DOWNLIGHTS

#### **PHOTOMETRICS**

#### LUMEN OUTPUT

Values fluctuate based on CCT and CRI. To estimate delivered lumen output of various CCT/CRI options, multiply nominal tumens by the multiplier below

12574.1	PATTAGE 1	a seed to the seed of
150	6.5W	700
200	8.6W	950
250	11W	1050
300	12.5 <b>W</b>	1200
260	TŠW	1450
400	17W	1600

era.	000	138	Total edition of the	290	***	447	447
<b>22H</b>	2200K	90+	Standard	0.65	61,70	020	0.62
7 <b>9</b> 1	2700K	90+	Standard	975	0.85	0.86	080
он	3000K	90+	Stendard	0.00	0.90	6.90	0.65
GB .	3600K	95+	Standard	0.75	323	0.80	0.75
QD.	3000K	90+	Dim-to-Warm	N/A	989	0.80	9.75
5 <b>H</b>	3500K	90#	Stendard	OMS	0.95	0.95	0.90
<b>0</b> H	4000K	9D+	Standard	935	0.98	0.95	0.90

Lumeriture maintains a lumen output tolerance of 47-7.5%

Geneu Etanasia

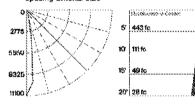
2.7

4.0

6.3

#### DL60 - 15 Degree

Delivered Light Output: 1159 Lumens Total Watts @120V: 13.5; Lumens Per Watt: 88 Center Seam Candle Power: 10993 Spacing Criteria: 0.26



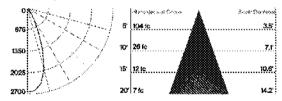
#### DL80 - 25 Degree

Delivered Light Output: 1248 Lumens Total Watts @120V: 12.5; Lumens Per Watt: 100 Center Beam Candle Power: 5480 Spacing Criteria, 0.42



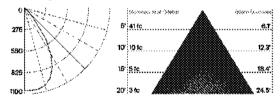
#### DL60 - 40 Degree

Delivered Light Output: 1225 Lumens Total Watts @120V; 12.5: Lumens Per Watt: 98 Center Beam Candie Power, 2597 Spacing Criteria: 0.62



#### DL60 - 60 Degree

Delivered Light Output: n00 Lumens Total Warts 6120V: 12.5; Lumens Per Watt: 68 Center Beam Candle Power 1029 Spacing Criteria: 0.92



# DL 60 2in Fixed Downlight Specifications p. 2/4 Custom options available, please consult factory Product specifications are subject to change info@bamearture.com P. 203.764.3333





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Page II2 of II9

<sup>&</sup>quot;Dim-to-Warm dims from BUDDY to 1600Y.

# **DL60** 2" FIXED DOWNLIGHTS

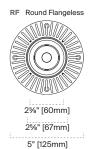
# DIMENSIONS

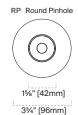
Max Ceiling Thickness = 1"

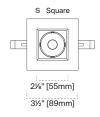
Please consult factory for thicker ceiling options

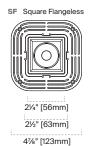




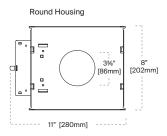


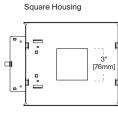


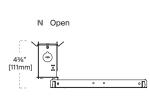


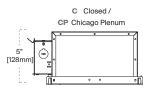


#### OPEN (N), CLOSED (C) AND CHICAGO PLENUM (CP) HOUSING DIMENSIONS

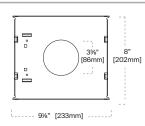








#### PAN (P) HOUSING DIMENSIONS





Supplied with (2) 24" adjustable hanger bars with nails. Butterfly brackets for C-Channel available upon request.

Supplied with (R) Remodel Housing (Loose Junction Box)

#### REMODEL (R) DIMENSIONS (Loose Junction Box)



DL60 2in Fixed Downlight Specifications p. 3/4 Custom options available, please consult factory Product specifications are subject to change info@lumenture.com P. 203.864.3333





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230042.000 **BID Submission** 10 JULY, 2024

Page 113 of 119

# **DL60** 2" FIXED DOWNLIGHTS

#### DIMMING

Demming is standard and attows for smooth illumination below 0.1% with certain dimmer/driver combinations. The "U" (Universal) driver dime to 1%, accepts 120-277V AC Input and is compatible with 0-10V, Triac (forward phase) and ELV (reverse phase) dimmers. The "Z1" (0-10V) driver dims to 0.1%, accepts 120-277V AC input and is compatible with 0-10V dimmers. The "D1" (DALI) driver dims to 0.1%, accepts 120-277V AC input and is compatible with DAU dimmers. For dimmer compatibility, refer to the Dimming Compatibility document on our website.

#### **ACCESSORIES**

#### LENS ACCESSORIES

Lens-Yellow-50

Lens-Green-50

Lens-Blue-50 (Light Blue)

Lens-Red-50

Lens-Rose-50

HL-60 (Black Honeycomb Louver) LS-50 (Linear Spread) SQL-50 (Solke)

#### NOTES

Field repraceable optics and accessories available. Please consult factory, Lens accessories can not be combined with any Wet Trim.



# BUTTERFLY BRACKET KIT

Contains two (2) bufferfly brackets and two (2) wing nuts Butterfly brackets and factory installed brackets are required for acoustical ceiling tile (ACT) cellings.

#### **EMERGENCY BACKUP**

	CONTROL PROPERTY
***************************************	
Output Power:	8W Britial)
Emergency Operation:	90 minutes
Battery Type:	nickel-cadmium
Input Voltage:	120-277 VAC
Output Voltage:	20-50 VDC
Class 2 Output:	Yos
Diagnostic Type:	Manual
Title-20 Compliant:	Yes
Life Expectancy:	7-10 years
Dimensions:	13.4×2.4×16*
Mounting Type:	Romoto in line (motal conduit)
Maximum Distance:	25 ft
Weight:	2.8 lbs
Cost	38

#### MOTES

Access panel is required for service of remote emergency backup battery

DLGO 2in Fixed Downlight Specifications p. 4/4 Custom options available, please consult factory Product specifications are subject to change info@binnenture.com P. 2031/64/3333





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230042.000 **BID Submission** 10 JULY, 2024

Page 114 of 119

# **WAC LIGHTING**

### Caliber

### **Outdoor Ceiling Mount**

Catalog Number:	
Project:	
Location:	

Fixture Type:

Model & Size	Color Temp	Finish	LED Watts	LED Lumens	<b>Delivered Lumens</b>
○ FM-W36607 7"	3000K	O AL Brushed Aluminum O BK Black O BZ Bronze O WT White	11W	855	545

Example: FM-W36607-WT

For custom requests please contact customs@waclighting.com

#### DESCRIPTION

Light projection tuned with precision.

#### **FEATURES**

- Driver concealed within the fixture
- 5 year warranty

#### SPECIFICATIONS

Color Temp: 3000K

Input: 120-277V,50/60Hz

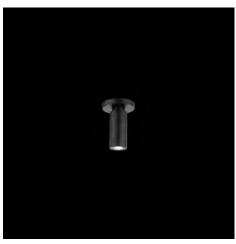
CRI: 90

Dimming: ELV: 100-5%, 0-10V: 100-5%, TRIAC: 100-10%

Rated Life: 50000 Hours
Standards: ETL, cETL,IP65

Wet Location Listed

Construction: Aluminum hardware with lens diffuser



#### FINISHES:



#### LINE DRAWING:



waclighting.com | Phone (800) 526.2588 | Fax (800) 526.2585 | Headquarters/Eastern Distribution Center 44 Harbor Park Drive Port Washington, NY 11050

WAC Lighting retains the right to modify the design of our products at any time as part of the company's continuous improvement program. January 2024



John Jay Homestead

Type:

FX12

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Page 115 of 119



John Jay Homestead

230042.000 **BID Submission** 10 JULY, 2024 Туре:

FX13

Page 116 of 119



John Jay Homestead

230042.000 **BID Submission** 10 JULY, 2024 Туре:

FX14

Page 117 of 119



John Jay Homestead

230042.000 **BID Submission** 10 JULY, 2024 Туре:

FX15

Page 118 of 119

#### Application

This wall mounted luminaire features a forward throw light distribution and is designed for the general illumination of pathways and walkways from various mounting heights. Downlight applications only.

#### Materials

Clear safety glass with optical texture

Marine grade, copper free (≤0.3% copper content) A360.0 aluminum alloy High temperature silicone gasket

Mechanically captive stainless steel fasteners

NRTL listed to North American Standards, suitable for wet locations

Protection class IP 64 Weight: 2.7 lbs.

#### Electrical

Operating voltage 120-277VAC
Minimum start temperature -30°C
LED module wattage 7.9W
System wattage 11.0W

Controllability 0-10V, TRIAC, and ELV dimmable Color rendering index Ra > 80

Color rendering index Ra > 80 Luminaire lumens 618 lm LED service life (L70) 60000 hrs

#### LED color temperature

☐ 4000K (K4) ☐ 3500K (K35) ☐ 3000K (K3) ☐ 2700K (K27)

**BEGA** can supply you with suitable LED replacement modules for up to 20 years after the purchase of LED luminaires - see website for details

#### Finish

All BEGA standard finishes are matte, textured powder coat with minimum 3 mil thickness. BEGA Unidure® finish, a fluoropolymer technology, provides superior fade protection in Black, Bronze, and Silver. BEGA standard White is a super durable polyester powder. Optionally available RAL and custom color finishes provided in either polyester powder or liquid paint.

#### Available colors

 □ Black (BLK)
 □ Bronze (BRZ)

 □ Silver (SLV)
 □ White (WHT)

 □ RAL:
 □ CUS:

Type:

**BEGA Product:** 

Project:

Modified:

Available options

□ CUS Custom finish □ FSC Fusing

☐ MGU Marine grade undercoat

☐ RAL RAL finish





Wall luminaire · Asymmetric							
	LED	А	В	С			
B33815	7.9W	43/8	71/2	43/8			

**BEGA** 1000 BEGA Way, Carpinteria, CA 93013 (805) 684-0533 info@bega-us.com

Due to the dynamic nature of lighting products and the associated technologies, luminaire data on this sheet is subject to change at the discretion of BEGA North America. For the most current technical data, please refer to bega-us.com © copyright BEGA 2024



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230042.000

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10 JULY, 2024

Туре

FX16 Series

Page 119 of 119

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# APPENDIX 12

Control Narrative

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#### APPENDIX C – LIGHTING CONTROL NARRATIVE

#### 1.1 GENERAL

- A. Lighting Control Systems: John Jay Homestead Site and Building Enhancements is following 2020 Energy Conservation Construction Code of New York State which is based on IECC 2018 and requires interior lighting be dimmable and controlled by automated photocell, timeclock, and/or occupancy sensing controls. Exterior lighting will be dimmable per lighting fixture schedule and controlled by automated photocell, astronomical timeclock, and/or occupancy sensing controls. Lighting will be connected to the building energy management system for timeclock activation. Localized control stations will be designed for areas where individual usage and occupant controls are desired.
- B. For John Jay Homestead Site and Building Enhancements, the lighting controls will be designed to meet the energy code requirements and project standards. The electrical engineer will provide those compliant systems and HLB will coordinate with them to ensure the luminaires will be controlled by those systems. The spaces described below are those requiring lighting controls above and beyond these standard requirements. The enhanced lighting control will provide improved functionality of the spaces.

#### 1.2 ENHANCED LIGHTING CONTROLS

#### A. BEDFORD HOUSE / Exhibit Spaces

- 1. Automatic Controls
  - a. Architect and Owner shall confirm hours of operation.
  - b. Engineer shall confirm emergency requirements.
  - c. Allow for up to (3) recorded presets to be controlled by timeclock.

#### 2. Manual Controls

a. Allow for manual dimming override via wireless tablet(s) or phone(s). Tablet(s) to be located in back of house location(s).

#### 3. Zones

a. The minimum requirement is to allow one zone of dimming control per fixture type in each location.

#### 4. Sequence

- a. All lighting shall be triggered to Full On scene via timeclock at sunrise/or opening of facility.
- b. All lighting shall be triggered to Closed scene via timeclock at preset time (by Owner).
- c. Allow for up to (3) scenes to be determined by Owner.
- d. Cleaning (100% on) and Closed scenes shall be triggered manually by staff.

TA-JJ-2023-001

#### B. BEDFORD HOUSE / Event Spaces (Ballroom, Porch, Conservatory)

#### 1. Automatic Controls

- a. Architect and Owner shall confirm hours of operation.
- b. Allow for up to (4) recorded presets.

#### 2. Manual Controls

- a. Allow for manual dimming override via wireless tablet(s) or phone(s). Tablet(s) to be located in back of house location(s).
- b. Override local preset station shall be located at the ballroom entrances and other areas as designated by the Architect and Owner.

#### 3. Zones

a. The minimum requirement is to allow one zone of dimming control per fixture type in each location.

## 4. Sequence

- a. All lighting shall be triggered to Full On scene via timeclock at sunrise.
- b. All lighting shall be triggered to Closed scene via timeclock at preset time (by Owner).
- c. Allow for up to (4) scenes to be determined by Owner.
- a. Cleaning (100% on) and Closed scenes shall be triggered manually by staff.

#### C. BEDFORD HOUSE / Office Spaces

#### 1. Automatic Controls

- a. Vacancy sensors.
- b. Engineer shall confirm emergency requirements.

#### 2. Manual Controls

a. Allow for manual override by staff via switch at room entrance. Location to be determined by the Architect and Owner.

#### 3. Zones

a. The minimum requirement is to allow one zone of dimming control per fixture type in each location.

#### 4. Sequence

a. Vacancy sensors will turn lights off automatically when 20 minutes if no occupancy has been detected. Wall-mounted sensors integrated into switches may be used for small rooms where coverage of device is sufficient.

#### D. BEDFORD HOUSE / Storage

#### 1. Automatic Controls

- a. Occupancy Sensors.
- b. Engineer shall confirm emergency requirements.

#### 2. Manual Controls

a. Allow for manual override by staff via switch at room entrance. Location to be determined by the Architect and Owner.

#### 3. Zones

a. The minimum requirement is to allow one zone of dimming control per fixture type in each location.

#### 4. Sequence

- a. Allow for manual All-ON override by switch.
- b. During regular operation, occupancy sensor shall switch lighting in the following sequence:
  - 1) Lighting shall turn on to preset level if motion is detected.
  - 2) Lighting shall turn off if no motion is detected after 20 minutes or the code-required maximum delay time, whichever is longer.

## E. BEDFORD HOUSE / Egress Staircase

- 1. Automatic Controls
  - a. Occupancy Sensors.
  - b. Engineer shall confirm emergency requirements.

#### 2. Zones

a. The minimum requirement is to allow one zone of dimming control per fixture type in each location.

#### 3. Sequence

- a. During regular operation, occupancy sensor shall switch lighting in the following sequence:
  - 1) Lighting shall turn on to preset level if motion is detected.

#### F. CARRIAGE BARN / Entrance, Ticketing, Gift Shop

- 1. Automatic Controls
  - a. Architect and Owner shall confirm hours of operation.
  - b. Engineer shall confirm emergency requirements.
  - c. Allow for up to (3) recorded presets to be controlled by timeclock.

#### 2. Manual Controls

a. Allow for manual dimming override via wireless tablet(s) or phone(s). Tablet(s) to be located in back of house location(s).

#### 3. Zones

a. The minimum requirement is to allow one zone of dimming control per fixture type in each location.

#### 4. Sequence

- a. All lighting shall be triggered to Full On scene via timeclock at sunrise.
- b. All lighting shall be triggered to Closed scene via timeclock at preset time (by Owner).
- c. Allow for up to (3) scenes to be determined by Owner.
- d. Cleaning (100% on) and Closed scenes shall be triggered manually by staff.

#### G. CARRIAGE BARN / Exhibits

#### 1. Automatic Controls

- a. Architect and Owner shall confirm hours of operation.
- b. Engineer shall confirm emergency requirements.
- c. Allow for up to (4) recorded presets to be controlled by timeclock.

#### 2. Manual Controls

a. Allow for manual dimming override via wireless tablet(s) or phone(s). Tablet(s) to be located in back of house location(s).

#### 3. Zones

a. The minimum requirement is to allow one zone of dimming control per fixture type in each location.

#### 4. Sequence

- a. All lighting shall be triggered to Full On scene via timeclock at sunrise.
- b. All lighting shall be triggered to Closed scene via timeclock at preset time (by Owner).
- c. Allow for up to (4) scenes to be determined by Owner.
- d. Cleaning (100% on) and Closed scenes shall be triggered manually by staff.

### H. BEDFORD HOUSE & CARRIAGE BARN / Façade

#### 1. Automatic Controls

- a. Astronomical Timeclock
- b. Architect and Owner shall confirm hours of operation.

#### 2. Manual Controls

- a. Allow for manual dimming override via wireless tablet and touchscreen(s). Touchscreen(s) to be located in back of house location(s).
- b. c

#### 3. Zones

- a. Bedford House South Porch (FX11)
- b. Bedford House South Façade (FX16)
- c. Bedford House East Entry (FX16A)
- d. Bedford House Ballroom Porch Entry (FX16A)
- e. Bedford House Conservatory Entry (FX8)
- f. Bedford House Stone Wall (FX6A)

g. Carriage Barn Stone Wall (FX6)

#### 4. Sequence

a. Provide manual override control to turn on/off fixtures per zone.

#### I. BEDFORD HOUSE & CARRIAGE BARN / Restrooms

#### 1. Automatic Controls

- a. Occupancy Sensors.
- b. Engineer shall confirm emergency requirements.

#### 2. Manual Controls

a. Allow for manual override by staff via switch at room entrance. Location to be determined by the Architect and Owner.

#### 3. Zones

a. The minimum requirement is to allow one zone of dimming control per fixture type in each location.

#### 4. Sequence

- a. Allow for manual All-ON override by switch.
- b. During regular operation, occupancy sensor shall switch lighting in the following sequence:
  - 1) Lighting shall turn on to preset level if motion is detected.
  - 2) Lighting shall turn off if no motion is detected after 20 minutes or the code-required maximum delay time, whichever is longer.

## J. BEDFORD HOUSE & CARRIAGE BARN / Circulation, Breezeway, Elevator Lobby

#### 1. Automatic Controls

- a. Occupancy Sensors.
- b. Engineer shall confirm emergency requirements.

#### 2. Manual Controls

a. Allow for manual override by staff via switch at room entrance. Location to be determined by the Architect and Owner.

#### 3. Zones

a. The minimum requirement is to allow one zone of dimming control per fixture type in each location.

#### 4. Sequence

- a. Allow for manual All-ON override by switch.
- b. During regular operation, occupancy sensor shall switch lighting in the following sequence:
  - 1) Lighting shall turn on to preset level if motion is detected.

Lighting shall dim to 50% if no motion is detected after 15 minutes or 2) the code-required maximum delay time, whichever is longer.

#### SITE / Site Entrance Piers and Wall K.

- 1. **Automatic Controls** 
  - Astronomical Timeclock a.
  - b. Photocell override for inclement weather
  - Architect and Owner shall confirm hours of operation. c.
  - Allow for up to (4) recorded presets to be triggered by timeclock. d.
- 2. Manual Controls
  - Allow for manual dimming override via wireless tablet and touchscreen(s). a. Touchscreen(s) to be located in back of house location(s).
- 3. Zones
  - a. Entrance Piers (FX6D)
  - Left Wall (FX6C) b.
  - Right Wall (FX6C) c.
- 4. Sequence
  - Allow for up to (4) recorded presets to be triggered by timeclock during Owner-identified times of day. Provide manual override control to select different presets, and/or turn off fixtures per zone.

#### L. SITE / Entrance Signage

- 1. **Automatic Controls** 
  - Astronomical Timeclock a.
  - Photocell override for inclement weather b.
  - Architect and Owner shall confirm hours of operation. c.
  - Allow for up to (3) recorded presets to be triggered by timeclock. d.
- 2. **Manual Controls** 
  - Allow for manual dimming override via wireless tablet and touchscreen(s). Touchscreen(s) to be located in back of house location(s).
- 3. Zones
  - Entrance Signage (FX6B) a.
- 4. Sequence
  - Allow for up to (3) recorded presets to be triggered by timeclock during Owner-identified times of day. Provide manual override control to select different presets, and/or turn off fixtures per zone.

#### M. SITE / Pathways

- 1. Automatic Controls
  - a. Astronomical Timeclock
- 2. Manual Controls
  - a. Allow for manual switch override via wireless tablet and touchscreen(s). Touchscreen(s) to be located in back of house location(s).
- 3. Zones
  - a. Garden Pathway (FX3)
  - b. Parking Lot to Bedford House Pathway (FX3)
  - c. Bedford House Pathway (FX3)
  - d. Entrance to Laundry Building, Coachman's Cottage, Brick Cottage (FX3)
- 4. Sequence
  - a. Provide manual override control to turn on/off fixtures per zone.
- N. SITE / Parking Lots, Security Gate
  - 1. Automatic Controls
    - a. Astronomical Timeclock
    - b. Photocell override for inclement weather
    - c. Architect and Owner shall confirm hours of operation.
    - d. Allow for up to (3) recorded presets to be triggered by timeclock.
  - 2. Manual Controls
    - a. Allow for manual switch override via wireless tablet and touchscreen(s). Touchscreen(s) to be located in back of house location(s).
  - 3. Zones
    - a. Main Parking Lot (FX2, FX2A)
    - b. Bedford House Gravel Parking (FX1)
    - c. Security Gate (FX1)
  - 4. Sequence
    - a. Provide manual override control to turn on/off fixtures per zone.
- O. SITE / Trees
  - 1. Automatic Controls
    - a. Astronomical Timeclock
    - b. Photocell override for inclement weather
  - 2. Manual Controls
    - a. Allow for manual dimming override via wireless tablet and touchscreen(s). Touchscreen(s) to be located in back of house location(s).

### 3. Zones

- a. Bedford House West 60" Linden Tree (FX9)
- b. Bedford House West 24" Tree (FX9)
- c. Bedford House East 60" Linden Tree (FX9)
- d. Carriage Barn 60" Magnolia Tree (FX9)

### 4. Sequence

a. Allow for up to (3) recorded presets to be triggered by timeclock during Owner-identified times of day. Provide manual override control to select different presets, and/or turn off fixtures per zone.

# APPENDIX 13

IT Cable and Conduit Guidelines

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#### Section 1 – Inside Data and Voice Network Cabling Guidelines

#### Overview

This document is intended as a reference for specifying, designing, and installing individual inside cabling for data network and phone connections including, but not limited to:

- PCs
- Printers
- Telephones
- Wi-Fi Access Points

It can also be referenced to plan and budget for network cabling.

#### **Using the Guidelines**

- Determine the size of the cabling effort using the <u>Equipment Location (typical)</u> and <u>Cable Qty.</u> columns in <u>Table 1 Data Network Equipment Sizing Reference</u>. If the number of cables in the <u>Cable Qty.</u> column exceeds the maximum number of cables for the <u>Equipment Location</u>, use the row for the appropriate <u>Cable Qty.</u>
- 2. The data network equipment will require:
  - a. Power
  - b. UPS power backup for short term outages
  - c. Data network equipment rack for mounting cables and equipment(see <u>Illustration 1 Example of Utility</u> Room Data Network Equipment Rack)
  - d. Patch panels for terminating individual cables
  - e. Modular data jack inserts for terminating cables in the patch panels

These elements are listed in each row of <u>Table 1 – Data Network Equipment Sizing Reference</u> according to <u>Equipment Location</u> and <u>Cable Qty</u>.

- 3. Endpoint device types have differing cable and cabling component type requirements. PCs, printers, and phones typically require CAT6 cable and cabling components. Wi-Fi access points require CAT6A cable and cabling components noted in <a href="Table 1 Data Network Equipment Sizing Reference">Table 1 Data Network Equipment Sizing Reference</a> in the <a href="CAT6A Jack Insert">CAT6A Jack Insert</a> column and in <a href="Table 2 Data Cable and Jack Reference">Table 2 Data Cable and Jack Reference</a> in the <a href="Endpoint Device">Endpoint Device</a> row labeled "Wi-Fi Access Point".
- 4. <u>Table 1 Data Network Equipment Sizing Reference</u> and <u>Table 2 Data Cable and Jack Reference</u> contain hyperlinks to products and components that are representative of actual products and components that are required for inside cable and data rack installations. Price and availability subject to change.
- 5. All cabling listed and referenced in hyperlinks contained in <u>Tables 1 & 2</u> below are for standard PVC jacketed cable. Other cable compositions may be required depending on application such as plenum rated cable for placement in plenum ceilings or wall assemblies and direct burial cable for outdoor installations. Verify cabling application requirements prior to purchase and installation.
- 6. See Section 2 Generalized Local Area Network Cabling Specifications and Illustration 2 Example of Network Equipment Room size Data network equipment Rack for additional cabling and electrical instruction and specifications.
- 7. Other communication cabling types, not covered in this document, include, but not limited to fiber optic, outside cable, copper distribution cabling, and backbone cabling.

Table 1 – Data Network Equipment Sizing Reference

Equipment Location (typical)	Size	Cable Qty.	Power	UPS	Equipment Rack	Patch Panel	CAT6 Jack Insert	CAT6A Jack Insert
Tollbooth	Small	1 to 24	120V, 15-amp dedicated, single duplex	<u>600W</u>	4U Enclosed Wall Rack	One 24-Port Blank Patch Panel	CAT6 RJ-45 Module	CAT6A RJ-45 Module
Park Office	Medium	25 to 48	120V, 15-amp dedicated, single duplex	900W	6U Enclosed Wall Rack	Two 24-Port Blank Patch Panels	CAT6 RJ-45 Module	CAT6A RJ-45 Module
Utility Room	Large	49 to 96	120V, 20-amp dedicated, NEMA L5-20R	<u>1600W</u>	12U Wall Rack	Four 24- Port Blank Patch Panels	CAT6 RJ-45 Module	CAT6A RJ-45 Module
Network Equipment Room	Extra Large	> 96	Custom Design Required	Custom Design Required	7' x 19" Free- standing Rack	Custom Design Required	Custom Design Required	Custom Design Required

Table 2 – Data Cable and Jack Reference

		Surface			Patch	Patch
<b>Endpoint Device</b>	Cable Type	Jack	Wall Jack	Jack Insert	Cables - 1'	Cables - 3'
				CAT6 RJ-45		
				Module (2		
	CAT6 Cable		2-port Wall	required per	CAT6 1' -	CAT6 3' -
PC/Printer/Phone	- Green	2-port Jack	<u>Plate</u>	wall plate)	Green	Green
				CAT6A RJ-		
	CAT6A			45 Module (2		
Wi-Fi Access	Cable -		1-port Wall	required per	CAT6A 1' -	CAT6A 3' -
Point	Green	1-port Jack	Plate	wall plate)	Green	Green

Illustration 1 – Example of <u>Utility Room</u> size Data Network Equipment Rack



#### **Section 2 - Generalized Local Area Network Cabling Specifications**

#### **Structured Copper Cabling**

- All structured cabling should be installed to meet <u>EIA/TIA Category 6 and 6A industry standard</u>.
- Green sheath cable should be utilized for new installations. When adding to existing infrastructure the existing cable manufacturer should be matched for consistency wherever possible.
- All data network equipment locations should have uniform lighting throughout, consistent air exchange or cooling to maintain 72-degree ambient temperature.
- All Wireless Access Points should be cabled with category 6A cable, jacks, and patch panels. A modular RJ-45 jack should be installed at the access point end of the cable.
- Modular RJ-45 wall, or face plates should match the wall or modular furniture opening.
- Overhead cables should be supported by J-hooks or cable saddles spaced at 48" intervals above the dropped ceiling. Cable support apparatus may be connected to building steel or connected to wall structures.
- Cabling shall be routed to run along established walkways, where feasible to do so, to avoid working over desks.
- All cables will be labeled at both ends with a corresponding cable identification number.
- Patch panels and data jacks should be machine labeled with a cable ID number that meets <u>EIA/TIA Category 6</u> and 6A industry standard.
- All LAN cables should be tested to the established <u>EIA/TIA Category 6 and 6A industry standard</u>. Test reports should be generated (paper or electronic) and include, but not limited to:
  - o Cable ID number
  - Near end and far end cross talk attenuation
  - o Wire mapping
  - o Cable length

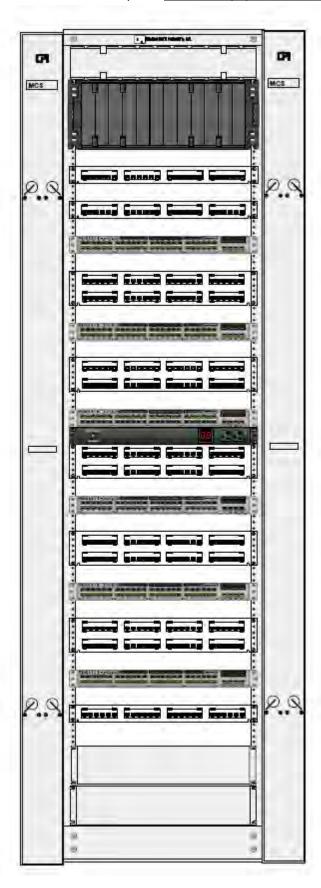
#### **Network Equipment Room Layout** (where applicable)

- Network equipment rooms to be sized with a minimum of 36" clearance between equipment and any other fixed part of the building structure (I.E. walls, door swing, support columns).
- Provide and install Telco-Style Cable Runway and all associated hardware to attach to the wall, within all Tel/Data closets. Runway is required to properly route the cable entering the closets over to the network racks.
   The cable runway should be installed over the network racks and be positioned in a manner as to provide 36 – 48 inches of space behind the network rack
- Provide and install network racks and wire management. Racks should be positively secured to the floor and the ladder rack to prevent any lateral movement.
- Fire rated, painted, plywood should be used to accommodate the securing of ladder rack, wall mounted equipment, and vendor needs. It is generally recommended to cover (3) walls of the room to provide for multiple possibilities.

• No equipment, panels, or wall fields should be installed immediately behind data racks. This area should remain clear of obstructions to access racked equipment.

# **Network Room Electrical** (where applicable)

- In addition to electrical receptacles placed along walls, according to the current version of the National Electrical Code (NEC), dedicated electrical service shall be installed for network equipment where specified.
- All network rack assemblies shall be grounded to building steel or other ground source, as specified in the current version of the National Electrical Code (NEC), with a #6 AWG copper ground wire.



# **Recommended Network/Data Rack Layout**

(design can accommodate 288 cables divided between workstations and wireless access points)

Data Rack: standard 7' tall, 19" wide (Black)

Dual sided vertical wire managers on either side to allow for easy cable management in front and rear of rack.

2U Horizontal Manager at the top of each rack to allow protected transition from rack to rack and from side to side.

Fiber connector housing. Size determined by need. located only in the primary rack.

CAT6a patch panel for wireless access points located near the top. Wireless access point connections to be distributed equally among the network switches to share the load. (WAPs not to be consolidated to only one switch)

Cabling distribution to start with a 24-port CAT6 patch panel followed by a standard 1U gap, 48-port network switch, standard 1U gap, 48-port CAT6 patch panel, standard 1U gap, 48-port network switch, etc.

These 1U gaps allow for easier maintenance down the road and allows for a clean 1' patch cord distribution.

\*patch panels should have unpopulated ports distributed throughout to accommodate WAP cables from above. The corresponding ports on the switch will be connected to the ports on the CAT6a panel.

Optional power distribution units can be incorporated to provide convenient access to power. Alternatively placing quad box, 20A circuits at the top of the rack (attached to ladder rack or nearby wall) can provide direct access.

It is recommended to leave roughly 6U+ of space along the bottom of the rack and opt for an additional rack if more patch panels are needed. Recommend placing the same horizontal wire manager at the top of subsequent racks to allow for easy cable transitions and adding a vertical wire manager at the end for additional cable management support.

#### ITS Physical Plant underground conduit guideline overview

Telecommunications pathways shall be specified to support the initial and anticipated wireline telecommunications needs of the total area served. Accommodation should be made for diverse Access Points.

In determining the total number of pathways required, the planner shall consider:

- a) type and use of building.
- b) growth.
- c) difficulty of adding pathways in the future.
- d) alternate entrance; and
- e) type and size of cables likely to be installed.

Note: ITS requests a minimum size of 2" conduit placed with a minimum of two (2) installed in all OSP excavations for redundancy. This is based on a 70% new construction fill capacity and increases nominally with the size and number of installed cables.

Examples of conduit types include:

- a) EB-20 For encasement in concrete.
- b) EB-35 For encasement in concrete.
- c) DB-60 For direct burial or encasement in concrete.
- d) DB-100 For direct burial or encasement in concrete.
- e) DB-120 For direct burial or encasement in concrete.
- f) Rigid Nonmetallic Conduit Schedule 40 For direct burial or encasement in concrete; Note: ITS Preferred
- g) Rigid Nonmetallic Conduit Schedule 80 For direct burial or encasement in concrete; Note: ITS Preferred
- h) Multiple Plastic Duct (MPD) For direct burial or installation in conduit.
- i) Rigid Metal Conduit (RMC) For direct burial or encasement in concrete.
- j) Intermediate Metal Conduit (IMC) For direct burial or encasement in concrete.
- k) Fiberglass Duct For direct burial or encasement in concrete.
- I) Innerduct Polyethylene (PE) For direct burial or installation in conduit.
- m) Innerduct Polyvinyl Chloride (PVC) For direct burial or installation in conduit.
- n) PVC coated steel conduit (PSC), NEMA RN-1; galvanized rigid steel conduit with factory applied external 40 mil PVC coating and urethane interior coating.

Non-metallic conduits shall be encased in concrete of minimum 17225 kPa (2500 lb./in²) compressive strength where vehicular traffic (i.e., automotive, railway) is above the pathway, or where a bend or sweep in excess of 15 degrees is placed.

The section length of conduit shall not exceed 183 m (600 ft.) between pulling points on a straight pathway.

Where bends are required, manufactured bends should be used whenever possible. Bends made manually shall not reduce the internal diameter of the conduit. All bends shall be sweeps with a minimum radius of six times the internal diameter for conduits up to 2 inch and ten times the internal diameter for all conduits larger than 2 inches. Bend types include:

- a) 90-Degree Bend: any radius bend in a piece of pipe that changes direction of the pipe 90-degrees.
- b) **Kick**: a bend in a piece of pipe, usually less than 45-degrees, made to change the direction of the pipe.
- c) Offset: two bends, usually having the same degree of bend, made to avoid an obstruction blocking the run of the pipe.

No section of conduit shall contain more than two 90-degree bends, or equivalent between pull points (e.g. handholes, maintenance holes, and vaults). Back-to-back 90-degree bends shall be avoided. Underground conduit should be installed such that a slope exists at all points of the run to allow drainage and prevent the accumulation of water. A drain slope of no less than 10 mm per meter (.125 in per foot) is desirable when extending conduit away from building structures. Where conduit extends between maintenance holes, a slope of 10 mm per meter (.125 in per foot) should extend from the middle of the span to each maintenance hole.

All excavations for ITS require a minimum depth of 30 inches (below winter frost line) unless conditions simply do not accommodate such burial depth. When installing non-metallic cabling (i.e. Fiber Optic), ITS requires a tracer wire be placed in all conduit runs for future locating situations. Ducts shall be sealed to resist liquid and gas infiltration at all maintenance holes and building entrance point locations.

#### ITS Physical Plant underground conduit guideline overview -continued

For an installation consisting of twin 2" Schedule 40 conduits (recommended), direct buried, we recommend a standard open bottom 24" w x 36" I x 30" d pull box. The box should be installed in accordance with the manufacturer's instructions and the cover of the box shall be flush with the ground surface to facilitate safe mowing without damaging the structure. The cover should be a tier 22 rated for 22,500 lbs. to protect the structure in the case of incidental drive over by vehicle traffic. The Quazite structure should not be placed in a roadway or sidewalk where consistent vehicle traffic is expected. Extensions for the box can be purchased as needed to achieve certain depths. The area where the box is located should have adequate drainage. We recommend excavating 12" deeper than the box and placing a bed of #2 stone to facilitate drainage. This following link will take you to the Hubble web site and the specification page for this structure. Hex head bolts should be utilized to maintain security on the structures and a tool for opening the boxes should be maintained by the Parks Office for future access. Conduits shall be brought into the structure through the mouse holes provided with the box. http://www.hubbellpowersystems.com/enclosures/below-ground/straight/24x36/pg-quazite.asp

Conduits running under roadways should be at a depth of 30" or more and it is recommended that they be encased in a flowable fill concrete with installation no less than 6" above, below and on either side of the conduits. The attached link will take you to a page detailing what flowable fill is. <a href="http://www.nrmca.org/aboutconcrete/cips/17p.pdf">http://www.nrmca.org/aboutconcrete/cips/17p.pdf</a>. The duct bank shall have a marker tape installed 12" above the conduit to denote the duct bank location to future excavators. An economy grade tape indicating telephone cable below will suffice. The link to a manufacturer us listed below. <a href="http://www.terram.com/products/underground-tapes/utilitape-underground-warning-tape.html">http://www.terram.com/products/underground-tapes/utilitape-underground-warning-tape.html</a>

#12 Tracer wire can follow the conduit run and can be taped to a conduit. 4-6 'of tracer wire shall be coiled in each pull box and it shall extend into the buildings where the conduits terminate. This cable will help future locaters mark out the location of the conduit. The following link specifies a brand of tracer wire that can be used. <a href="http://www.southwire.com/products/tracer-wire-water-well.htm">http://www.southwire.com/products/tracer-wire-water-well.htm</a>

All conduits must be threaded with a poly rope or mule tape to facilitate the installation of cable facilities.

NOTE: Fiber optic cable should have at least 40 feet coiled in every other handhole to provide additional length for future expansion/splicing. Additionally, each fiber cable should have a 15 foot service loop at each termination location.

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## APPENDIX 14

John Jay Homestead - Bedford House Fireplaces
Site Survey and Historic Photos

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JOHN JAY HOMESTEAD -BEDFORD HOUSE **FIREPLACES** SITE SURVEY PHOTOS BBB PROJECT #3003



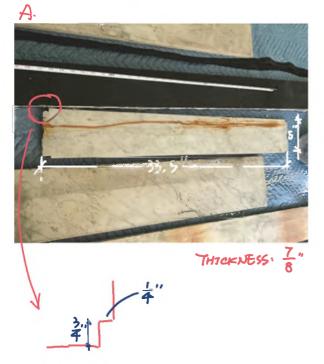


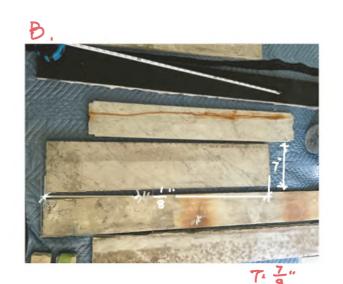




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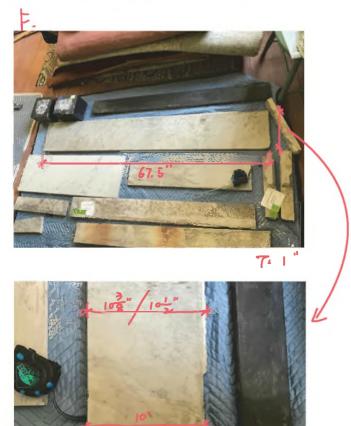


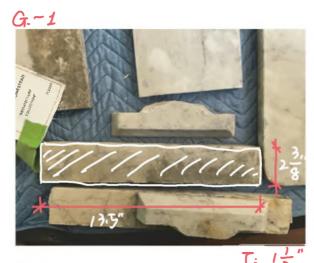


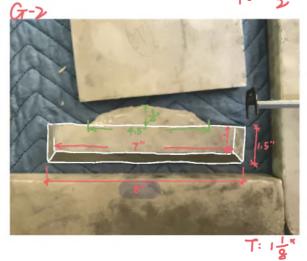
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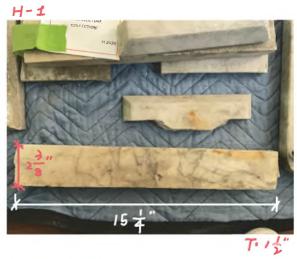
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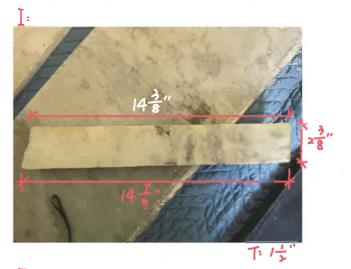


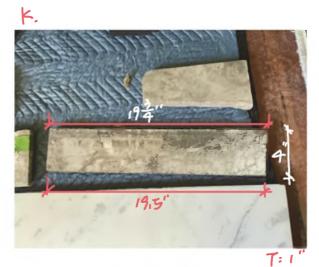




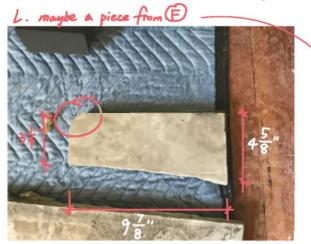
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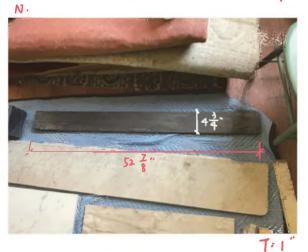
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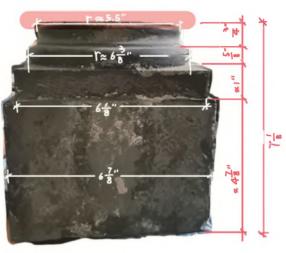




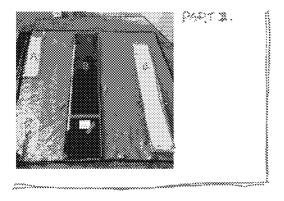


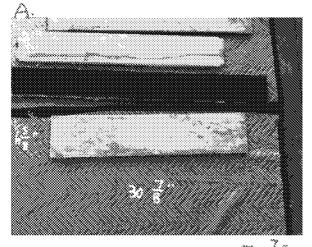


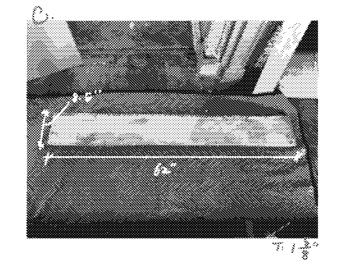


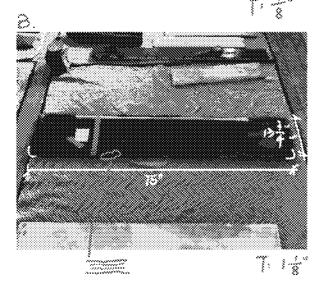


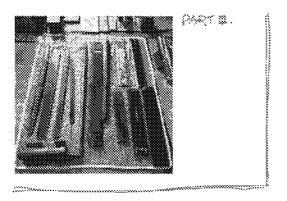


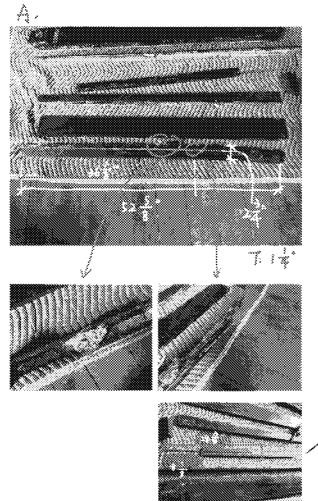


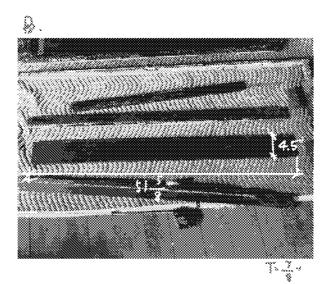


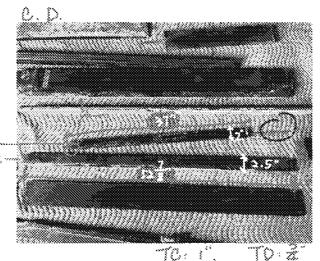


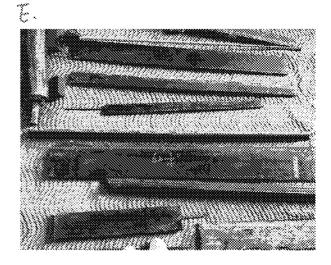


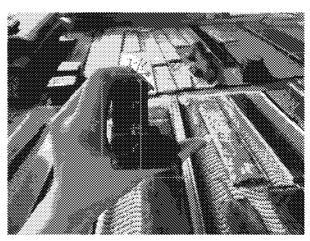




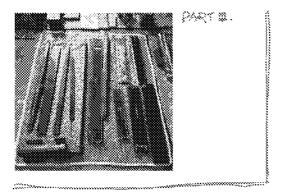


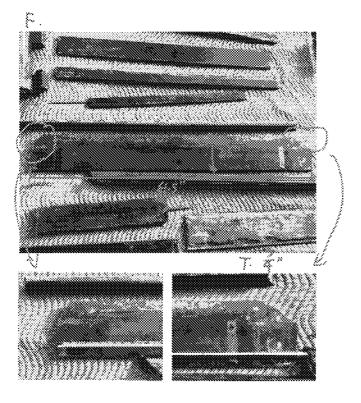


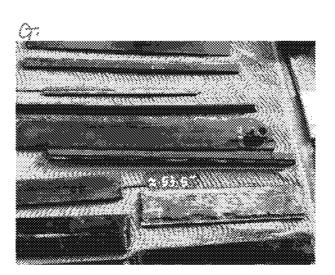


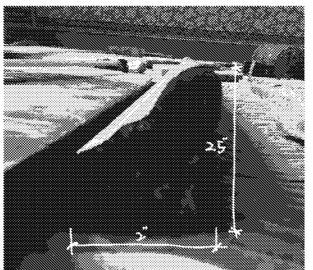


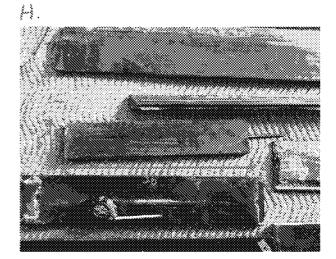
PAGE 8

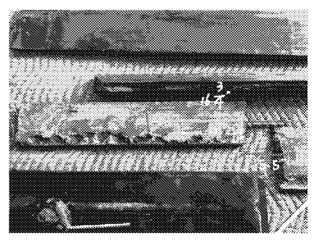




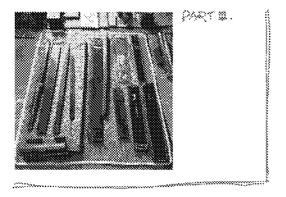


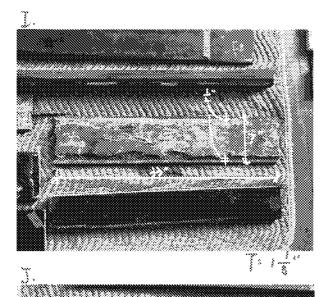


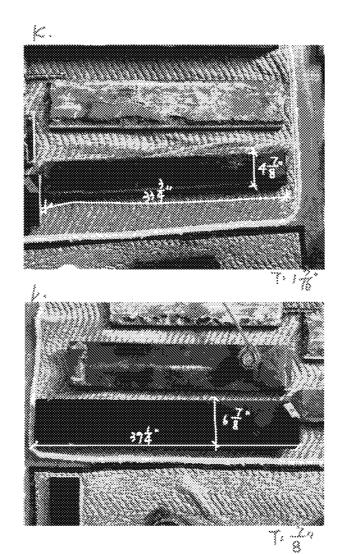


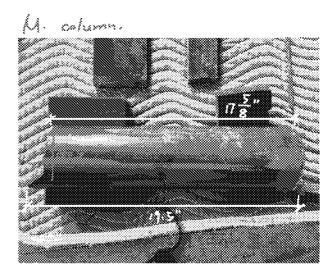


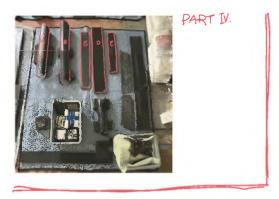
PAGE 9



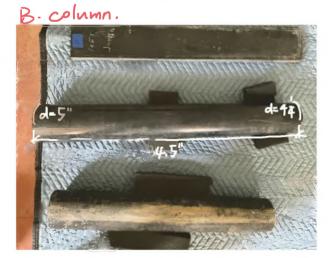


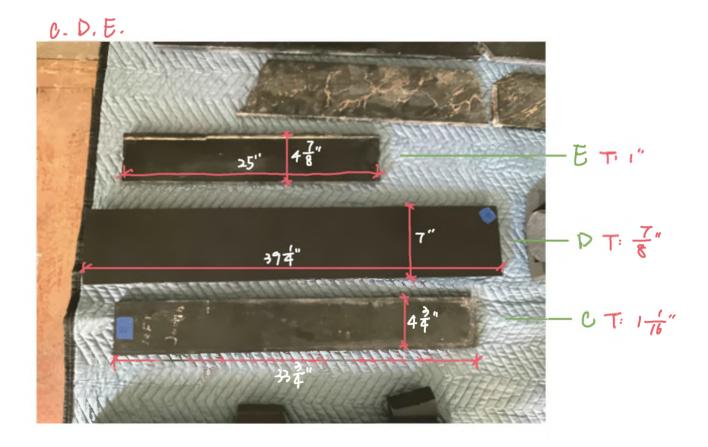




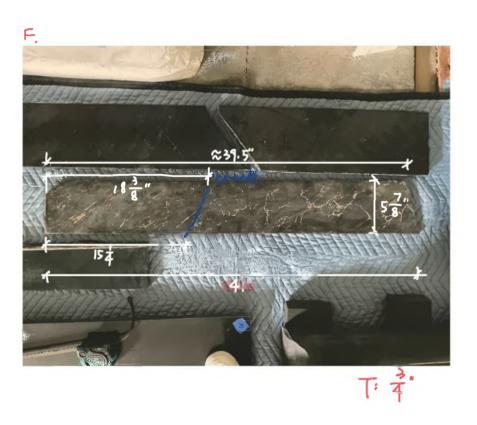


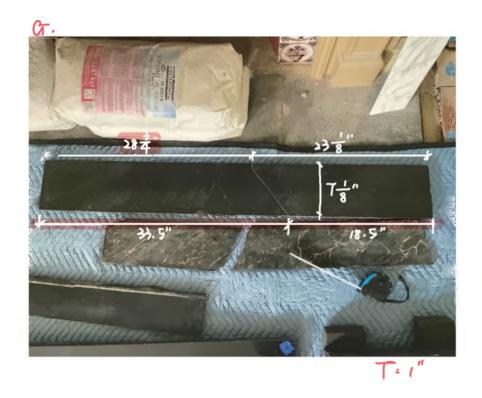


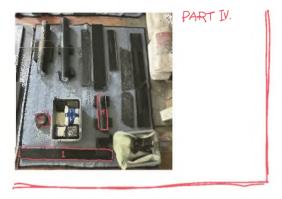










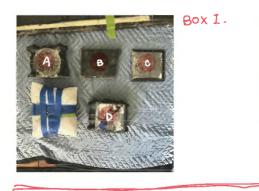




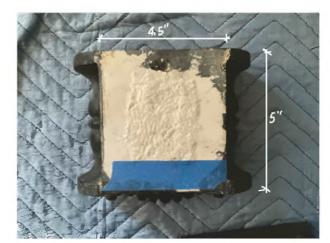






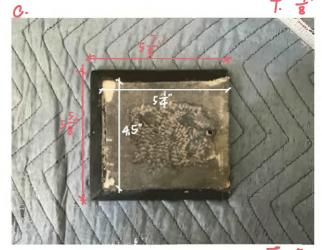


















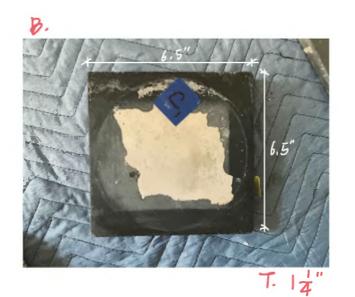
Box I.

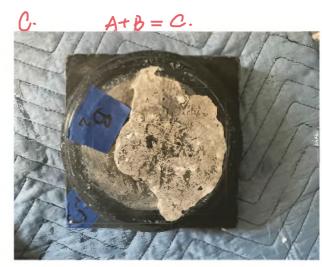
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JOHN JAY HOMESTEAD - BEDFORD HOUSE FIREPLACES SITE SURVEY PHOTOS BBB PROJECT #3003









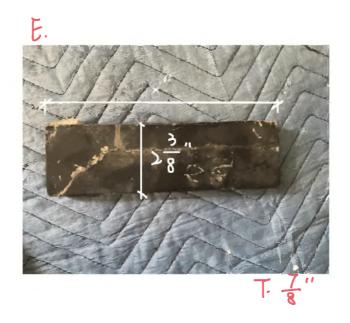


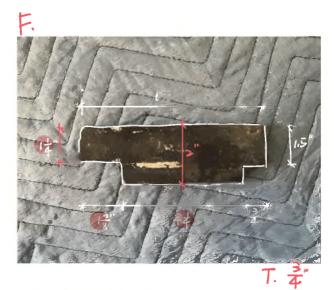


PAGE 16





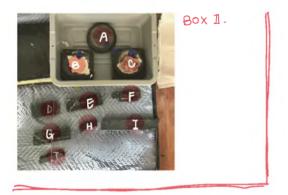






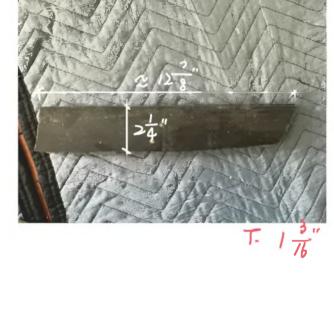


PAGE 17



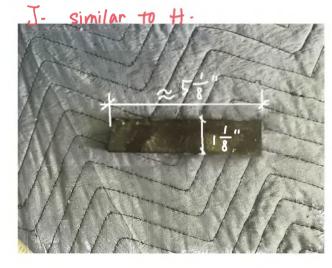


















EAST PARLOR (110) FIREPLACE, CIRCA 1960



DINING ROOM (104) FIREPLACE, CIRCA 1960

## APPENDIX 15

Climbing Inspection

Basswood Trees 111 and 112

JOHN JAY HOMESTEAD SITE AND BUILDING ENHANCEMENTS TA-JJ-2023-001

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185 Van Brunt St Brooklyn, NY 11231 718-522-0612

20 June 2024

Jeff Dragan RHI RE: John Hay Homestead 400 Jay Street Katonah, NY BY EMAIL: jeffd@rhiplaces.com

Dear Jeff:

We performed climbing inspections on Trees 111 and 112 – the two large basswoods that flank the house – to perform risk assessments. Both trees are, overall, in very good condition, though there are issues in each. Some pruning needs to be done, and some features that we observed should be regularly monitored. Details are in the detailed reports for each tree that appear in this letter. The numbers in the report are keyed to the numbered photos of the trees also included in this report.

Let me give you an overview of each tree.

Tree 111 is the very large basswood located east of the main house. On one leader is a neutral plane crack that is open and could in theory suffer decay as time goes by. There is little decay in that location at present. The defect should be monitored regularly to check on wound closure and potential decay. This problem is on a limb that would not strike the house or the new path, were it to fail.

The issue that requires prompt action is the branch that contains the readings numbered 5 and 6. This lateral, were it to fail, could impact the planned new path to the house. The strength loss at these sites suggest strongly that this lateral should be removed.

Tree 112 is the very large basswood located west of the main house. The limbs over the house are in moderately good condition. The chief issue —located at site #2 on the numbered plan — is an open hollow with significant strength loss. An existing cable meets this stem just above the open hollow, and it is possible that the open hollow extends into the area where the cable is attached. For this reason, and to supply an additional point of protection, we believe that a heavy-duty dynamic cable should be placed at a higher point between this leader and another sound leader. In addition, the wounded leader should have its crown reduced to reduce the amount of end weight and wind sail that the leader now presents.



Reinspections from the ground should occur on the schedule noted in the Excel report tables. We should re-climb and re-inspect the trees every other year.

Here is the detailed tabular report:

Tree #	Species	Site#	Assessment	Strength Loss	Action
111	Basswood				
		1	On Northeast leader, high aloft, Shear plane crack closing well	2" wide, 1' long	Monitor twice annually to assure continued closing. This stem is not over house or path.
		2	Principal leader emergence near base. Apparent incipient crack		No action. No crack found.
		3	On South leader, high aloft, recent storm damage. Hanging branch.		Branch pruned on inspection.
		4	On Southeast leader, diameter 18", hollow 3.75" wide and 7" deep	12%	Well within tolerances. Monitor twice anually
		5	On Southeast leader, lateral below #4, at base, diameter 20", hollow 2.5" wide and 12" deep	24%	Significant strength loss and on compression side.
		6	On southeast leader, on lateral below #4, midway out lateral on compresion side, diameter 5.5", hollow 2" wide and 4" deep	46%	Readings 5 and 6 together are cause for serious concern. Remove this lateral.
		7	Tight codominant stems over roof. No crack or incipient crack noted.		No action.



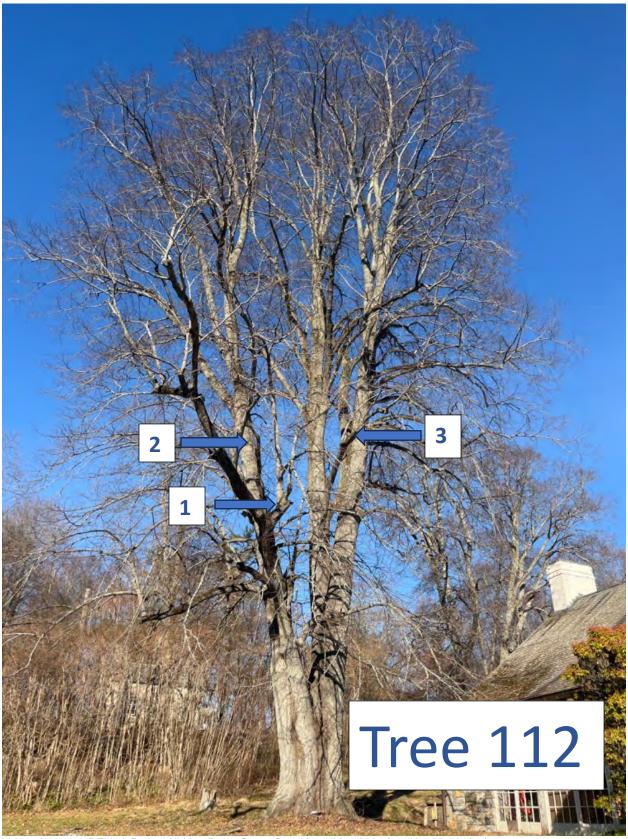
112	Basswood				
		1	Small cavity located on northwest leader on 6" diameter limb, 2.5" height, 3" wide and 4" depth in hollow.	26%	Reduce weight of limb. Possibly take back to lateral. Monitor once anually
		2	Larger cavity located on northwest stem. 20" stem, 5" wide, 11" depth of cavity.	30%	Significant strength loss. Reaction wood is being put on. Reduce weight above wound by pruning. Steel cable located above cavity, possile dynamic cable installed above steel cable to reduce stress. Monitor twice anually.
		3	Small cavity located on southeast leader. 19" diameter, hollow is 2.5", 6" depth	7%	Well winthin tolerance. Monitor once anually

The numbered plans are below:









Urban Arborists BTH LLC | 185 Van Brunt Street Brooklyn NY 11231 | 718.522.0612 | www.urbanarb.com



Please feel free to contact us with questions and comments.

Sincerely,

Urban Arborists BTH LLC



by:\_\_\_\_\_

Bill Logan – Founder and Consulting Arborist

by:\_\_\_\_

Tyler Cook- Climbing Arborist