

**Storm King Lighting Controls Narrative**

Space Type	LPD	Target Illuminance (fc)	Lighting Control Intent									Narrative	CCT	CRI
			Local Control	Restricted to manual ON	Restricted to partial automatic ON	Bilevel lighting control	Automatic Daylight Responsive Controls for sidelighting	Automatic Daylight Responsive Controls for toplighting	Automatic Partial Off	Automatic Full Off	Scheduled Shutoff			

**External Ligthing**

Space														
Pavilion	0.1 W/ft2	1 - 5	External Lighting shall be programmed to operate automatically under timeclock control at a centralized location, with access and permissions to be agreed with the client. Timing and programming sequences shall be determined together with the Client and Building Facilities Manager. The astronomical timeclock shall operate so that lighting switches ON during Storm King operating hours 15 minutes before sunset, and shall be programmed to switch OFF or dim to 50% a a curfew time of 8.30pm or such time as is determined appropriate by the Occupant.										3000K	80+
Building Entries	30 W/ft (main entry) 20 W/ft (secondary)	0.5 - 1											3000K	80+
Parking	0.1 W/ft2	0.1 - 0.5 (ADA)											3000K	80+
Walkways (≥10ft wide / plaza)	0.16 W/sq.ft	0.1 - 0.5											3000K	80+
Walkways (< 10ft wide)	0.8 W/ft	0.1 - 1											3000K	80+

**Welcome Pavilion**

Space														
Ground Floor Ticketing	1.1 W/ft2	15 (general) 30-50 (reading/writing tasks)	Y	Y	N	Y	Y	Y	N	Y	N	Local room controller with communication to control devices – a smart switch for dimming fixtures via 0-10v relay and motion sensors. Motion sensors shall be provided throughout the space for absence detection, to switch OFF luminaires when no movement is detected for a period of 30 minutes.	3000K	80+
Nursing Room	0.87 W/ft2	20	Y	N	N	Y	Y	Y	N	Y	N	Lighting shall be controlled from on-switch motion sensors integrated to local lighting switch. There shall be a motion detector to signal lights off 30 minutes after the last signal is detected. A room switch shall be provided for manual override – a smart switch for dimming fixtures via 0-10v relay and motion sensors.	3000K	80+
Bathrooms	0.98 W/ft2	5 (general) 15 (fixtures)	N	N	N	N	Y	Y	N	Y	N	Lighting shall be controlled from on-switch motion sensors integrated to local lighting switch. There shall be a motion detector to signal lights off 20 minutes after the last signal is detected. A room switch shall be provided for manual override. Cubicles will operate on motion sensors only.	3000K	90+

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<b>Administration Building</b>														
Space														
Food Prep	1.21 W/ft2	50	Y	Y	N	Y	Y	Y	N	Y	N	Local room controller with communication to control devices – a smart switch for dimming fixtures via 0-10v relay and motion sensors. Motion sensors shall be provided throughout the space for absence detection, to switch OFF luminaires when no movement is detected for a period of 20 minutes.	3000K	90+
Offices (Open Plan)	0.98 W/ft2	15 (general) 30-50 (reading/writing tasks)	Y	Y	N	Y	Y	Y	N	Y	N	Local room controller with communication to control devices – a smart switch for dimming fixtures via 0-10v relay and motion sensors. Motion sensors shall be provided throughout the space for absence detection, to switch OFF luminaires when no movement is detected for a period of 20 minutes.	3000K	80+
Offices (Enclosed)	1.1 W/ft2	15 (general) 30-50 (reading/writing tasks)	Y	Y	N	Y	Y	Y	N	Y	N	Local room controller with communication to control devices – a smart switch for dimming fixtures via 0-10v relay and motion sensors. Motion sensors shall be provided throughout the space for absence detection, to switch OFF luminaires when no movement is detected for a period of 20 minutes.	3000K	80+
Lobbies and Vestibules	0.9 W/ft2	10 (day) 5 (night)	Y	N	N	N	Y	Y	N	Y	N	PIR motion sensors will be provided in lobbies for presence detection. Lights will turn off when the lobbies have been unoccupied for 10 minutes.	3000K	80+
Meeting/Multipurpose/Conference Rooms	1.23 W/ft2 (+ up to 1 W/sq.ft. process load)	30	Y	Y	N	Y	Y	Y	N	Y	N	Local room controller with communication to control devices – a smart switch for dimming fixtures via 0-10v relay and motion sensors. Motion sensors shall be provided throughout the space for absence detection, to switch OFF luminaires when no movement is detected for a period of 20 minutes.	3000K	90+
Library	1.71 W/ft2	20 - 30	Y	Y	N	Y	Y	Y	N	Y	N	Local room controller with communication to control devices – a smart switch for dimming fixtures via 0-10v relay and motion sensors. Motion sensors shall be provided throughout the space for absence detection, to switch OFF luminaires when no movement is detected for a period of 20 minutes.	3000K	90+
Copy Room	0.72 W/ft2	10 (general) 30 (at machines)	Y	Y	N	Y	Y	Y	N	Y	N	Local room controller with communication to control devices – a smart switch for dimming fixtures via 0-10v relay and motion sensors. Motion sensors shall be provided throughout the space for absence detection, to switch OFF luminaires when no movement is detected for a period of 20 minutes.	3000K	80+
Reception Waiting Area	0.9 W/ft2	20	Y	Y	N	Y	Y	Y	N	Y	N	Local room controller with communication to control devices – a smart switch for dimming fixtures via 0-10v relay and motion sensors. Motion sensors shall be provided throughout the space for absence detection, to switch OFF luminaires when no movement is detected for a period of 20 minutes.	3000K	80+
Reception Desk Area	0.9 W/ft2	30 - 40	Y	Y	N	Y	Y	Y	N	Y	N	Local room controller with communication to control devices – a smart switch for dimming fixtures via 0-10v relay and motion sensors. Motion sensors shall be provided throughout the space for absence detection, to switch OFF luminaires when no movement is detected for a period of 20 minutes.	3000K	80+

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<b>Administration Building</b>														
Stairwell	0.69 W/ft2	5 (typical use) 10 (egress stairs)	N	N	N	Y	Y	Y	Y	Y	N	Lighting shall be controlled through motion sensors located in the stair cores dimming fixtures via 0-10v relay and motion sensors. Motion sensors located in the stair cores shall be programmed to switch ON lighting to stairs and landings one floor above and below the activated sensor. Motion sensors shall also have absence detection to switch OFF luminaires when the space is unoccupied.	3000K	80+
Nursing Room	0.87 W/ft2	10	Y	N	N	Y	Y	Y	N	Y	N	Lighting shall be controlled from on-switch motion sensors integrated to local lighting switch. There shall be a motion detector to signal lights off 30 minutes after the last signal is detected. A room switch shall be provided for manual override – a smart switch for dimming fixtures via 0-10v relay and motion sensors.	3000K	80+
Break/Pantry	0.723 W/ft2	10	Y	Y	N	Y	Y	Y	N	Y	N	Local room controller with communication to control devices – a smart switch for dimming fixtures via 0-10v relay and motion sensors. Motion sensors shall be provided throughout the space for absence detection, to switch OFF luminaires when no movement is detected for a period of 20 minutes.	3000K	80+
Bathrooms	0.98 W/ft2	5 (general) 15 (fixtures)	N	N	N	N	Y	Y	N	Y	N	Lighting shall be controlled from on-switch motion sensors integrated to local lighting switch. There shall be a motion detector to signal lights off 20 minutes after the last signal is detected. A room switch shall be provided for manual override. Cubicles will operate on motion sensors only.	3000K	90+
Circulation	0.66 W/ft2	5	Y	N	N	N	Y	Y	Y	Y	N	Lighting shall be controlled through motion sensors located in the lobbies and stair cores. Motion sensors located in the stair cores shall be programmed to switch ON lighting to stairs and landings, one floor above and below the activated sensor. Motion sensors shall also have absence detection to switch OFF luminaires when the space is unoccupied.	3000K	80+
<b>Pond Pavilion</b>														
<b>Space</b>														
Café	0.65 W/ft2	10	Y	Y	N	Y	Y	Y	N	Y	N	Local room controller with communication to control devices – a smart switch for dimming fixtures via 0-10v relay and motion sensors. Motion sensors shall be provided throughout the space for absence detection, to switch OFF luminaires when no movement is detected for a period of 20 minutes.	3000K	90+
Bathrooms	0.98 W/ft2	5 (general) 15 (fixtures)	N	N	N	N	Y	Y	N	Y	N	Lighting shall be controlled from on-switch motion sensors integrated to local lighting switch. There shall be a motion detector to signal lights off 20 minutes after the last signal is detected. A room switch shall be provided for manual override. Cubicles will operate on motion sensors only.	3000K	90+
Prep	1.21 W/ft2	50	Y	Y	N	Y	Y	Y	N	Optional given safety concerns	N	Lighting shall be controlled by daylight sensors with manual override for safety purposes. No occupancy sensors.	3000K	90+

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<b>Conservation &amp; Fabrication</b>														
Space														
Workshop	1.59 W/ft2	30 - 75	Y	Y	N	Y	Y	Y	N	Optional given safety concerns	N	Lighting shall be controlled by daylight sensors with manual override for safety purposes. No occupancy sensors.	4000K	90+
Offices (open plan)	0.98 W/ft2	15 (general) 30-50 (reading/writing tasks)	Y	Y	N	Y	Y	Y	N	Y	N	Local room controller with communication to control devices – a smart switch for dimming fixtures via 0-10v relay and motion sensors. Motion sensors shall be provided throughout the space for absence detection, to switch OFF luminaires when no movement is detected for a period of 20 minutes.	4000K	80+
Offices (enclosed)	1.1 W/ft2	15 (general) 30-50 (reading/writing tasks)	Y	Y	N	Y	Y	Y	N	Y	N	Local room controller with communication to control devices – a smart switch for dimming fixtures via 0-10v relay and motion sensors. Motion sensors shall be provided throughout the space for absence detection, to switch OFF luminaires when no movement is detected for a period of 20 minutes.	4000K	80+
Locker Room	0.75 W/ft2	5 - 10	Y	Y	N	Y	Y	Y	N	Y	N	Lighting shall be controlled from on-switch motion sensors integrated to local lighting switch a smart switch for dimming fixtures via 0-10v relay and motion sensors. There shall be a motion detector to signal lights off 20 minutes after the last signal is detected. A room switch shall be provided for manual override.	4000K	90+
Bathrooms	0.98 W/ft2	5 (general) 15 (fixtures)	N	N	N	N	Y	Y	N	Y	N	Lighting shall be controlled from on-switch motion sensors integrated to local lighting switch. There shall be a motion detector to signal lights off 20 minutes after the last signal is detected. A room switch shall be provided for manual override. Cubicles will operate on motion sensors only.	4000K	90+
Break/Pantry	0.72 W/ft2	10	Y	Y	N	Y	Y	Y	N	Y	N	Local room controller with communication to control devices – a smart switch for dimming fixtures via 0-10v relay and motion sensors. Motion sensors shall be provided throughout the space for absence detection, to switch OFF luminaires when no movement is detected for a period of 20 minutes.	4000K	80+