

Dark Sky Lighting Compliance

Project: Davis Square Lab Building at 231-249 Elm Str. 6-8 & 12 Grove St. Somerville MA
Architect: Utile Design
Date: 1-Mar-22
Report: Site Lighting Analysis for Light Trespass compliance with City of Somerville Dark Sky Policy

Permitted Lumens Table	Reference	Proposed Product								
	RA & RB	Shrouded Flood within top structure Type G2	Shrouded Low Voltage Step Light Type G3	Shrouded Wall Mounted Cylinder Type G5	Down lights Front of Building Type R1	Wall Mount shrouded unit Type W1	Decorative Linear Wall Mounted Type W2	Full cut off wall mount exterior Type W3	Wall mount shielded UP/Down Type W4	Wall mount Low voltage UP/Down Type W5
Unshielded luminaires at principal entrances	630 lm	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Unshielded luminaires , any other locations	315 lm	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Fully Shielded Luminaires	1,260 lm			410 lm	1,000 lm			500 lm	837 lm	
Landscape Lighting (total)	1,050 lm		60 lm							
Landscape Lighting Low Voltage (total)	525 lm					240 lm				325 lm
Shielded Directional Flood Lighting	1,260 lm	950 lm								
Lumens/sf Impervious Surface Area (per sqft of illuminated area)	2.5 lm	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
Building Entrance/Exits (per door, installed within twenty (20) feet of the door)	2,000 lm	n/a	n/a	n/a	1,000 lm	n/a	1,400 lm	n/a	n/a	
Building Facades (per square foot of Illuminated Façade, for luminaires aimed at the façade)	8 / sf	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
Outdoor Cafes (per square foot of café area, within two (2) mounting heights of luminaries)	5 /sf	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
Outdoor Displays(per square foot of outdoor sales area, withing two (2) mounting heights of the luminaires)	8 /sf	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	