

SL4 Photobiological

Method:

Measurements were performed using the Optronics OL-750D spectroradiometer. The test unit was scanned for the location of maximum UV output per sections SL4.3 through section SL4.7 and radiometric scans performed at that location. The sample was powered directly by 277VAC input into the sample. Sample was measured assuming base of unit installed at 7ft mounting height, 5 degree alignment offset was utilized per SL4.1

Requirement:

Per section SL4.8 blue light hazard may not exceed risk group 1, May not exceed exempt group for all other risk hazards

Results:

UL1598CRD CLAUSE SL4.8

Wavelength (nm)	Hazard Type Description	Result	Units	Exempt	Group 1	Group 2	Hazard Group	Exposure Time (sec)
200 - 400	Weighted actinic UV skin and Eye (Es)	8.99E-04		0.001	0.003	0.03	Exempt	3.34E+04
315 - 400	Unweighted UVA (EUVA)	1.24E-04		10	33	100	Exempt	8.08E+07
300 - 700	Blue Light Hazard (LB)	1.54E-03		100	10000	4000000	Exempt	6.48E+08

UL1598CRD CLAUSE SL4.5

Irradiance Value at 50CM	8.50E-04	W/cm ²
Peak Wavelength	255	nm

Conclusion:

Complies

Tested By:	Chris Klein	Signature or initials:	<i>CK</i>
Reviewed By:	David Ellis	Signature or initials:	<i>David Ellis</i>
Test Equipment Used:	1-9		
Amb (°C):	24.8	RH%	32.9
		Completion Date:	10/27/20