



Spectral Data Report

The included file covers Spectral Distribution data:

- * Correlated Color Temperature (CCT)
- * Color Rendering Index (CRI)
- * Chromaticity Coordinates
- * R Values
- * Melanopic Ratios

This data is representative for the following product family:

BRAND: Mark Architectural Lighting

SERIES: Slot 1 - S1LD, S1LID, S1LI, S1LS, S1LWD, S1LWID, S1LWI, SL1L, SL1LW, S1LDP, S1LIDP, S1LIP, S1LSP, S1LWDP, S1LWIDP, S1LWIP, SL1LP, SL1LWP

CCT: 4000K

CRI: 90CRI

SIZE: 2 - 8 Foot Luminaire, Corners, X's, and T's.

LUMENS: All standard lumen packages for sizes noted above

LM-79-08 TEST REPORT: ISF 211059S

CATALOG: S1LID 90CRI 40K



LM-79-08 Test

Test #: ISF 211059S

Test Date: 2/8/2021

Catalog: S1LID 90CRI 40K

Photometric Data

Luminous Flux(LU):	2920.18
SP Ratio:	1.76
CCT:	4020
CRI:	88.97
Chroma x:	0.3786
Chroma y:	0.3725
Chroma u:	0.2256
Chroma v:	0.3329
Chroma u':	0.2256
Chroma v':	0.4994
Duv Value:	-0.0015

Electrical

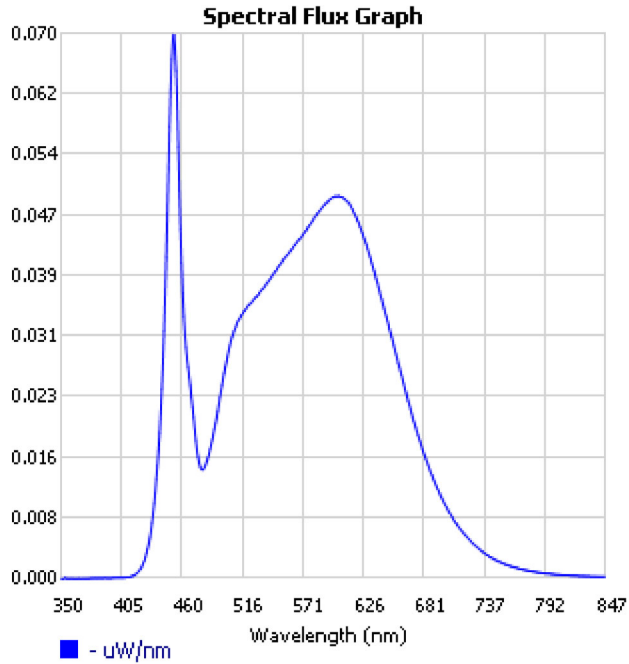
Input Power(Watts):	29.13
Input Volts(Volts AC):	57.11
Input Current(Amps):	0.51
Frequency(Hertz):	0
Power Factor:	1
THD:	0

Calculated

Efficacy(LU/Watts):	100.25
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R Values

Ra:	88.97
R1:	88.9144
R2:	93.5608
R3:	95.782
R4:	88.702
R5:	88.369
R6:	89.714
R7:	90.1545
R8:	76.5636
R9:	40.9884
R10:	83.9021
R11:	88.8973
R12:	65.3181
R13:	90.3834
R14:	97.7643



M/P Ratio

	Melanopic	Photopic	M/P Ratio
Method 1:	10666.814	2919.615	3.653
Method 2:	2530.679	2919.615	0.867
Method 3:	2.89E-02	4.00E-02	0.722
Method 4:	2.64E-04	4.05E-04	0.654

Melanopic Calculation Methods

Method 1:

Photopic function scaled to a maximum of 683 lm/W
 Melanopic function scaled to a maximum of 4215 lm/W

Method 2:

Photopic and Melanopic functions normalized to a maximum of 1. When evaluating light source SPD Photopic results are multiplied by 683 lm/W and Melanopic results are multiplied by 1000.

Method 3:

WELL Building Standard v2

Photopic and Melanopic functions normalized to equal area under curve when evaluating the Equal-Energy spectrum

Method 4:

CIE S026-2018 System for Metrology of Optical Radiation for ipRGC-Influenced Responses to Light

Photopic and Melanopic functions normalized to equal area under curve when evaluating the CIE D65 Daylight spectrum

TM-30 Color Vector Graphic

The Color Vector Graphic (CVG) shows a normalized version of the average change in (a', b') coordinates of CAM02-UCS for the CES within each hue-angle bin.

