

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P595243

Luminaire Tested: **IST-PA1D-827-U-5WQ**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595243
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: IST-PA1D-827-U-5WQ
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 80 CRI, 2700K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6242 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B3 - U0 - G2

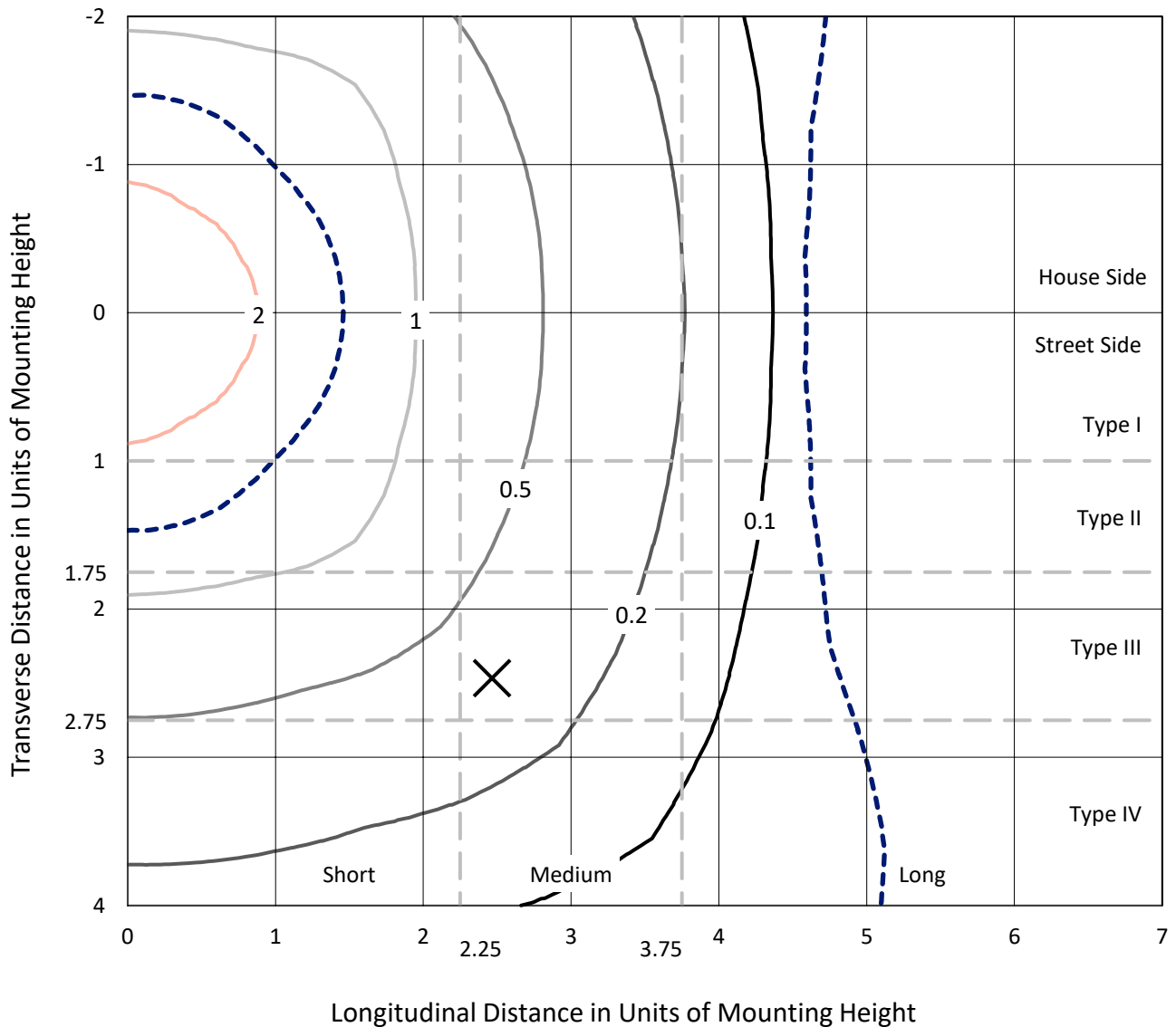
Input Watts (W): 62.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

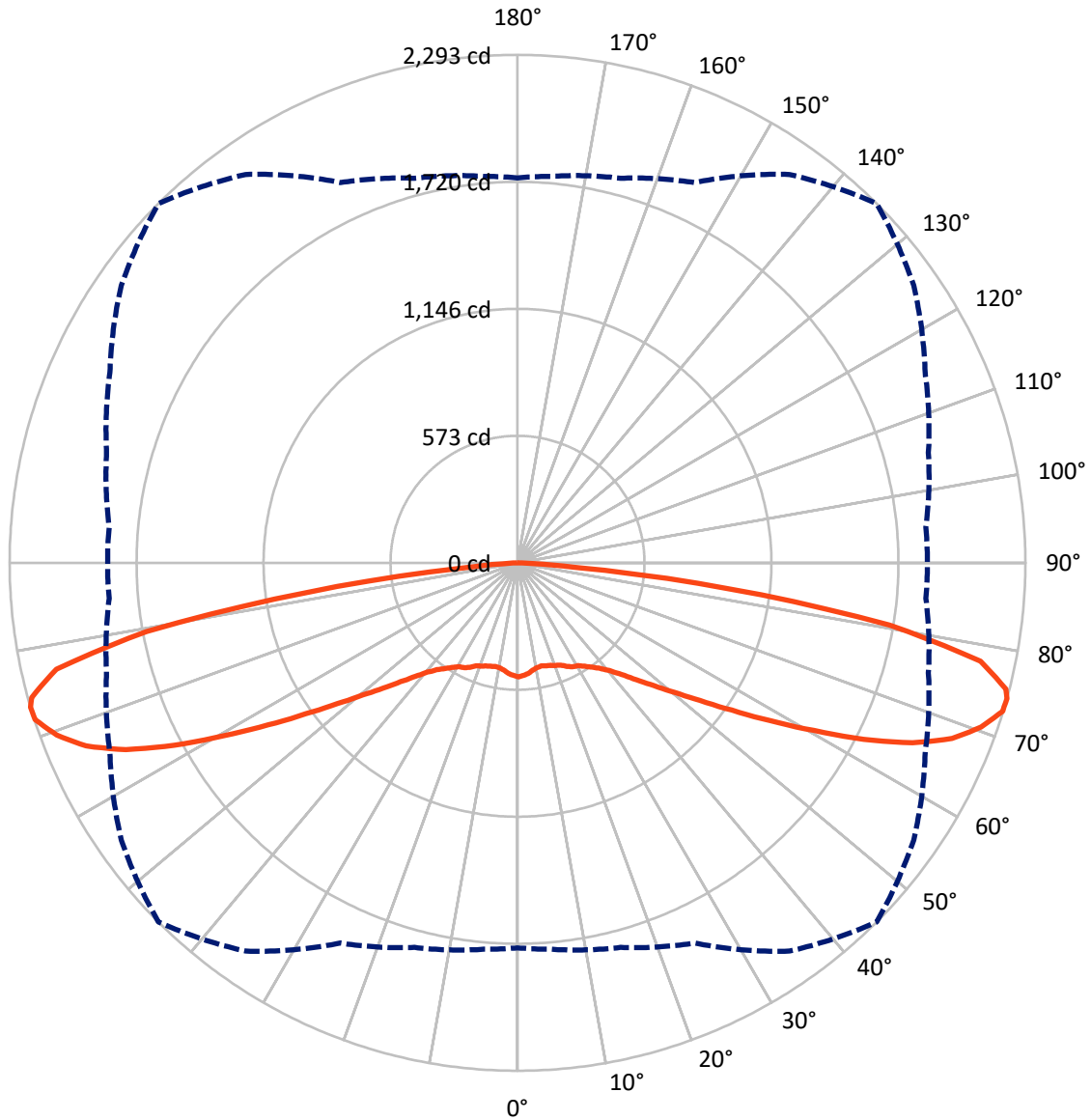
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 3.6 fc
 Type V - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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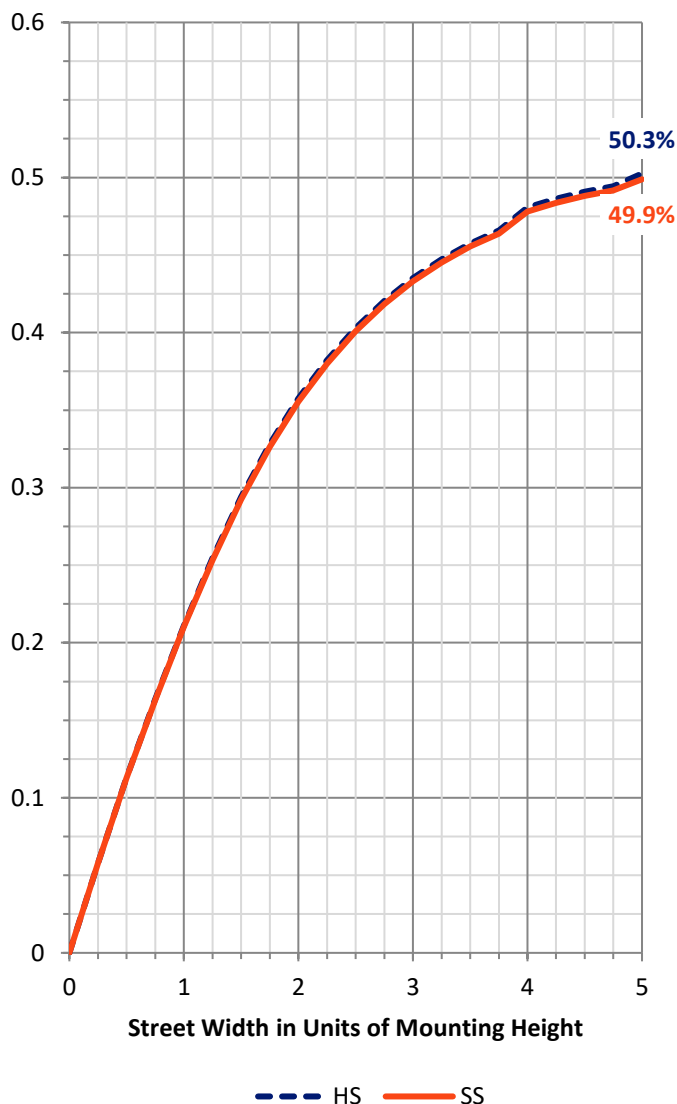
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3121.0	0.0	3121.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3121.0	0.0	3121.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	6242.0	0.0	6242.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.2	0.8
10°-20°	138.3	2.2
20°-30°	238.8	3.8
30°-40°	365.8	5.9
40°-50°	595.1	9.5
50°-60°	1032.0	16.5
60°-70°	1709.1	27.4
70°-80°	1849.2	29.6
80°-90°	266.5	4.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6242.0	100.0
0°-180°	6242.0	100.0

Coefficient of Utilization



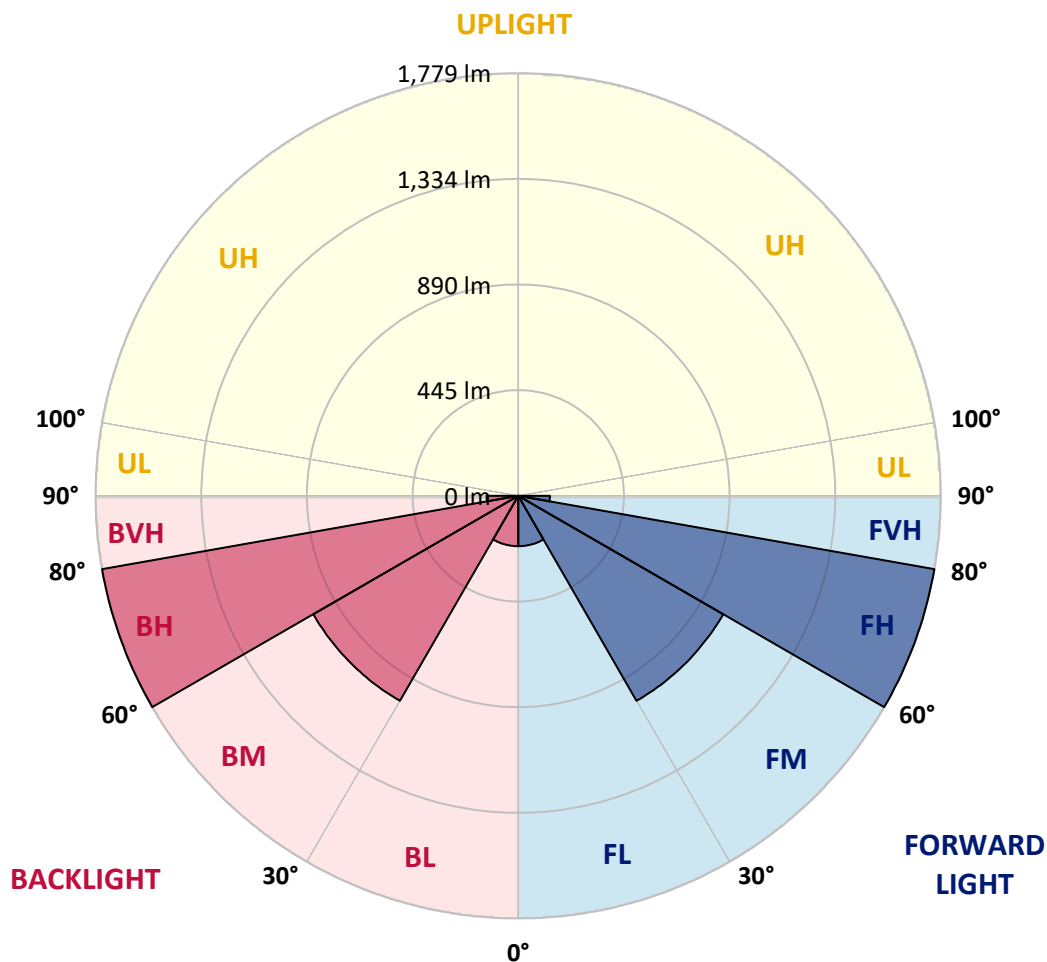
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	212.2	3.4			
FM (30°-60°)	996.4	16.0			
FH (60°-80°)	1779.2	28.5			G1/1800
FVH (80°-90°)	133.2	2.1			G2/225
BL (0°-30°)	212.2	3.4	B1/500		
BM (30°-60°)	996.4	16.0	B1/1000		
BH (60°-80°)	1779.2	28.5	B3/2500		G1/1800
BVH (80°-90°)	133.2	2.1			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	514.9	514.9	514.9	514.9	514.9	514.9	514.9	514.9	514.9	514.9	514.9
2.5°	507.5	509.0	509.0	507.5	509.0	509.0	509.0	510.5	509.0	512.0	510.5
5°	500.1	500.1	501.6	500.1	500.1	501.6	500.1	503.1	501.6	504.6	501.6
7.5°	488.2	488.2	488.2	488.2	489.7	489.7	489.7	492.7	492.7	492.7	491.2
10°	485.3	483.8	483.8	480.8	480.8	480.8	479.3	483.8	485.3	488.2	486.7
12.5°	486.7	486.7	483.8	480.8	479.3	477.8	477.8	482.3	486.7	488.2	488.2
15°	492.7	492.7	488.2	482.3	482.3	482.3	480.8	482.3	489.7	492.7	489.7
17.5°	497.1	495.7	491.2	488.2	488.2	486.7	486.7	486.7	491.2	495.7	495.7
20°	504.6	504.6	498.6	495.7	495.7	494.2	492.7	491.2	495.7	501.6	500.1
22.5°	514.9	512.0	507.5	504.6	503.1	501.6	498.6	500.1	503.1	507.5	507.5
25°	522.4	522.4	517.9	516.4	517.9	517.9	513.5	510.5	512.0	516.4	516.4
27.5°	525.3	525.3	522.4	522.4	528.3	531.3	525.3	519.4	516.4	520.9	519.4
30°	537.2	537.2	534.2	532.8	537.2	538.7	535.7	531.3	529.8	534.2	532.8
32.5°	558.0	556.5	552.0	547.6	549.1	556.5	550.6	549.1	549.1	553.5	555.0
35°	581.7	578.8	574.3	569.9	571.3	578.8	572.8	572.8	574.3	580.2	580.2
37.5°	615.9	612.9	607.0	596.6	595.1	604.0	602.5	604.0	609.9	612.9	615.9
40°	653.0	651.5	644.1	635.1	633.7	639.6	641.1	644.1	650.0	653.0	654.4
42.5°	706.4	703.4	691.5	682.6	681.2	688.6	691.5	694.5	701.9	704.9	707.9
45°	771.7	770.2	756.8	746.4	742.0	752.4	752.4	755.4	762.8	768.7	768.7
47.5°	842.9	841.4	831.0	819.2	820.6	828.1	826.6	828.1	834.0	839.9	844.4
50°	923.0	918.6	906.7	903.8	911.2	918.6	912.7	911.2	920.1	923.0	921.6
52.5°	1010.6	1006.1	1000.2	1000.2	1018.0	1031.4	1026.9	1013.6	1013.6	1012.1	1010.6
55°	1114.5	1111.5	1110.0	1117.4	1147.1	1173.8	1157.5	1132.3	1121.9	1116.0	1118.9
57.5°	1222.8	1215.4	1228.7	1245.1	1304.4	1343.0	1317.8	1270.3	1255.5	1243.6	1237.6
60°	1332.6	1329.7	1348.9	1387.5	1472.1	1537.4	1503.3	1424.6	1397.9	1371.2	1371.2
62.5°	1439.5	1436.5	1464.7	1524.1	1657.6	1754.1	1691.7	1592.3	1540.4	1500.3	1494.4
65°	1568.6	1564.1	1595.3	1659.1	1837.2	1958.9	1880.2	1749.6	1687.3	1632.4	1625.0
67.5°	1673.9	1673.9	1715.5	1794.1	1988.5	2116.2	2018.2	1905.4	1832.7	1776.3	1770.4
70°	1774.9	1783.8	1814.9	1892.1	2104.3	2220.1	2131.0	2030.1	1964.8	1908.4	1902.5
72.5°	1817.9	1829.8	1860.9	1936.6	2154.8	2289.8	2185.9	2070.2	2000.4	1944.0	1936.6
74°	1737.8	1751.1	1797.1	1893.6	2139.9	2292.8	2183.0	2030.1	1920.3	1850.5	1850.5
75°	1647.2	1665.0	1719.9	1823.8	2108.8	2276.4	2151.8	1966.3	1813.4	1731.8	1736.3
77.5°	1270.3	1308.9	1368.2	1531.5	1892.1	2136.9	1912.9	1577.5	1332.6	1210.9	1208.0
80°	362.1	415.5	550.6	914.1	1438.0	1702.1	1405.3	933.4	658.9	501.6	482.3
82.5°	87.6	102.4	141.0	258.2	614.4	961.6	696.0	305.7	184.0	120.2	96.5
85°	37.1	40.1	63.8	89.0	169.2	255.2	161.8	103.9	75.7	34.1	32.6
87.5°	13.4	14.8	23.7	23.7	35.6	20.8	37.1	25.2	26.7	8.9	8.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)