

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: P595252

Luminaire Tested: **IST-PA1D-830-U-5WQ**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595252  
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-830-U-5WQ  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 80 CRI, 3000K, 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: 6747 lumens  
Efficiency: N/A  
Efficacy: 108.1 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

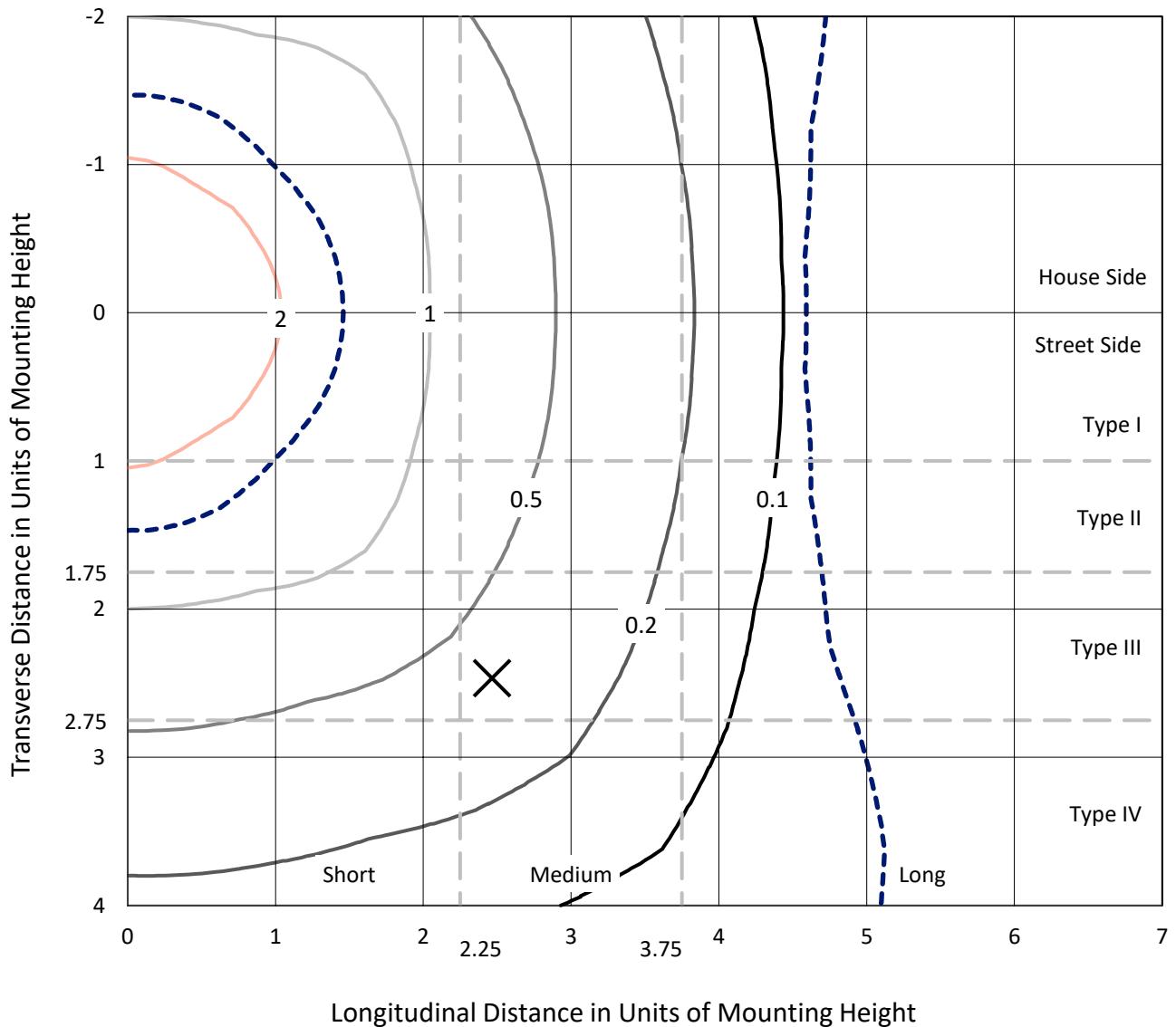
Input Watts (W): 62.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

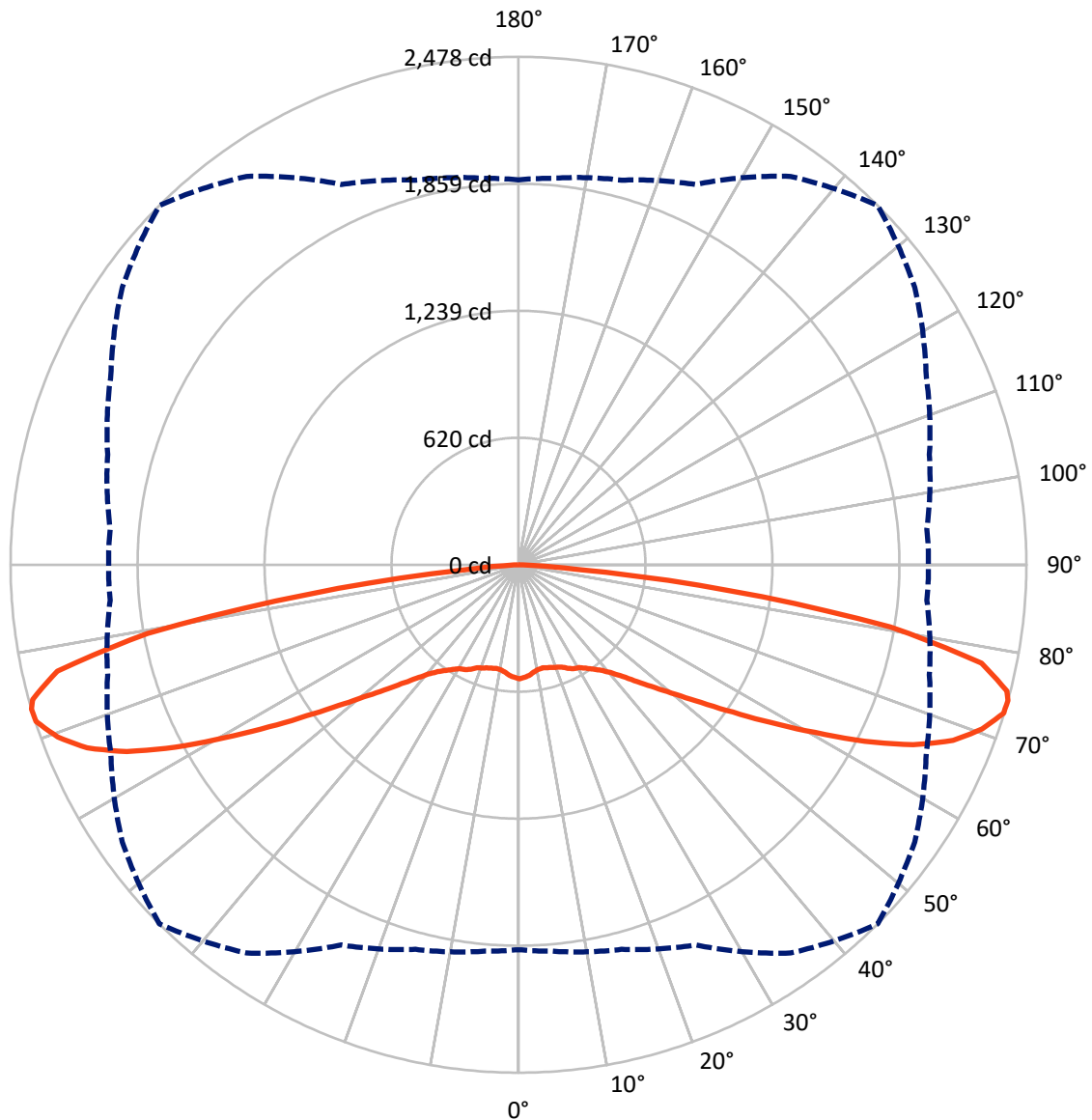
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 3.9 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
<b>House Side</b>	Lumens	3373.5	0.0	3373.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3373.5	0.0	3373.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	6747.0	0.0	6747.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.0	0.8
10°-20°	149.5	2.2
20°-30°	258.2	3.8
30°-40°	395.4	5.9
40°-50°	643.2	9.5
50°-60°	1115.5	16.5
60°-70°	1847.4	27.4
70°-80°	1998.8	29.6
80°-90°	288.1	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°	6747.0	100.0
0°-180°	6747.0	100.0

**Coefficient of Utilization**



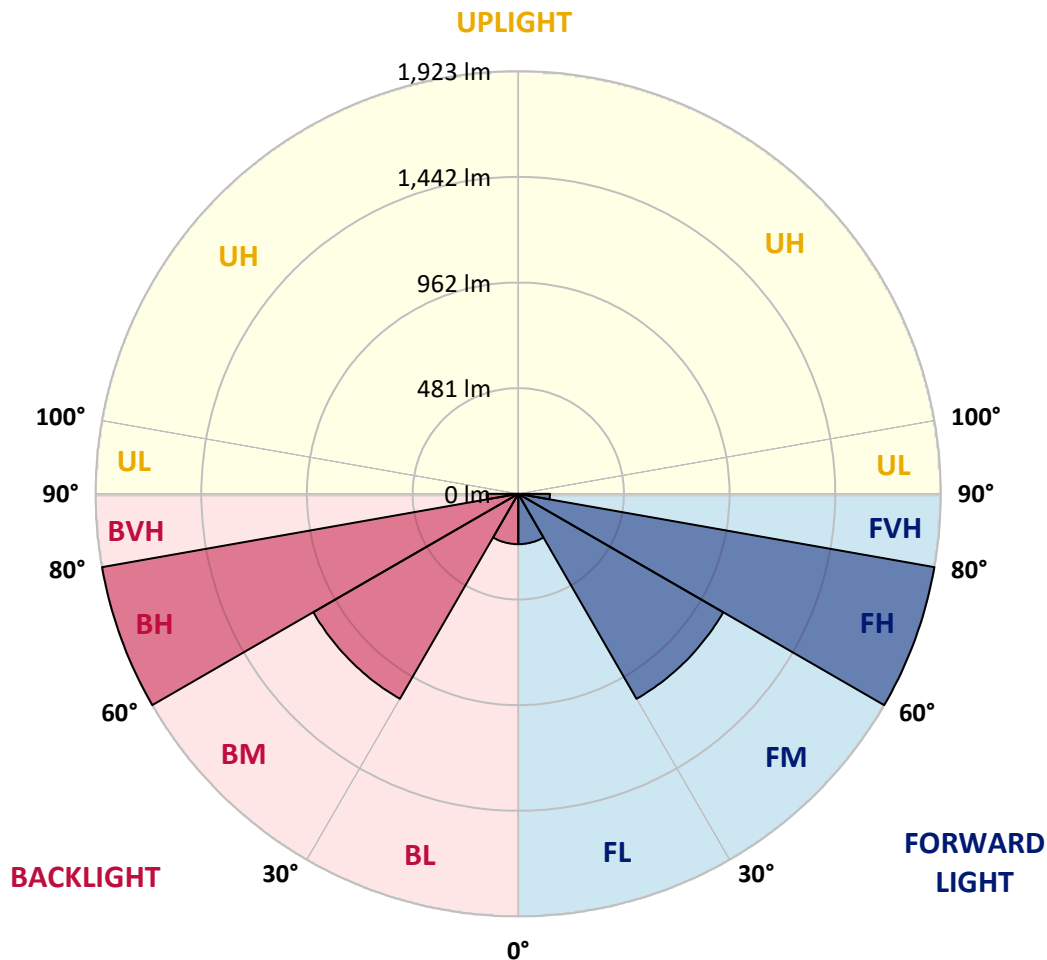
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	229.3	3.4			
FM (30°-60°)	1077.1	16.0			
FH (60°-80°)	1923.1	28.5			G2/5000
FVH (80°-90°)	144.0	2.1			G2/225
BL (0°-30°)	229.3	3.4	B1/500		
BM (30°-60°)	1077.1	16.0	B2/2500		
BH (60°-80°)	1923.1	28.5	B3/2500		G2/5000
BVH (80°-90°)	144.0	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°	556.6	556.6	556.6	556.6	556.6	556.6	556.6	556.6	556.6	556.6	556.6
2.5°	548.6	550.2	550.2	548.6	550.2	550.2	550.2	551.8	550.2	553.4	551.8
5°	540.6	540.6	542.2	540.6	540.6	542.2	540.6	543.8	542.2	545.4	542.2
7.5°	527.7	527.7	527.7	527.7	529.3	529.3	529.3	532.5	532.5	532.5	530.9
10°	524.5	522.9	522.9	519.7	519.7	519.7	518.1	522.9	524.5	527.7	526.1
12.5°	526.1	526.1	522.9	519.7	518.1	516.5	516.5	521.3	526.1	527.7	527.7
15°	532.5	532.5	527.7	521.3	521.3	521.3	519.7	521.3	529.3	532.5	529.3
17.5°	537.4	535.8	530.9	527.7	527.7	526.1	526.1	526.1	530.9	535.8	535.8
20°	545.4	545.4	539.0	535.8	535.8	534.1	532.5	530.9	535.8	542.2	540.6
22.5°	556.6	553.4	548.6	545.4	543.8	542.2	539.0	540.6	543.8	548.6	548.6
25°	564.6	564.6	559.8	558.2	559.8	559.8	555.0	551.8	553.4	558.2	558.2
27.5°	567.8	567.8	564.6	564.6	571.0	574.3	567.8	561.4	558.2	563.0	561.4
30°	580.7	580.7	577.5	575.9	580.7	582.3	579.1	574.3	572.6	577.5	575.9
32.5°	603.1	601.5	596.7	591.9	593.5	601.5	595.1	593.5	593.5	598.3	599.9
35°	628.8	625.6	620.8	616.0	617.6	625.6	619.2	619.2	620.8	627.2	627.2
37.5°	665.7	662.5	656.1	644.8	643.2	652.8	651.2	652.8	659.3	662.5	665.7
40°	705.8	704.2	696.2	686.5	684.9	691.3	693.0	696.2	702.6	705.8	707.4
42.5°	763.5	760.3	747.5	737.9	736.3	744.3	747.5	750.7	758.7	761.9	765.1
45°	834.1	832.5	818.1	806.8	802.0	813.3	813.3	816.5	824.5	830.9	830.9
47.5°	911.1	909.5	898.3	885.4	887.0	895.1	893.5	895.1	901.5	907.9	912.7
50°	997.7	992.9	980.1	976.9	984.9	992.9	986.5	984.9	994.5	997.7	996.1
52.5°	1092.4	1087.5	1081.1	1081.1	1100.4	1114.8	1110.0	1095.6	1095.6	1094.0	1092.4
55°	1204.6	1201.4	1199.8	1207.9	1239.9	1268.8	1251.2	1223.9	1212.7	1206.2	1209.5
57.5°	1321.7	1313.7	1328.2	1345.8	1410.0	1451.7	1424.4	1373.1	1357.0	1344.2	1337.8
60°	1440.4	1437.2	1458.1	1499.8	1591.2	1661.8	1624.9	1539.9	1511.0	1482.1	1482.1
62.5°	1555.9	1552.7	1583.2	1647.4	1791.7	1896.0	1828.6	1721.1	1665.0	1621.7	1615.3
65°	1695.5	1690.7	1724.4	1793.3	1985.8	2117.3	2032.3	1891.2	1823.8	1764.5	1756.4
67.5°	1809.4	1809.4	1854.3	1939.3	2149.4	2287.4	2181.5	2059.6	1981.0	1920.0	1913.6
70°	1918.4	1928.1	1961.8	2045.2	2274.5	2399.7	2303.4	2194.3	2123.8	2062.8	2056.4
72.5°	1965.0	1977.8	2011.5	2093.3	2329.1	2475.1	2362.8	2237.7	2162.3	2101.3	2093.3
74°	1878.3	1892.8	1942.5	2046.8	2313.0	2478.3	2359.6	2194.3	2075.6	2000.3	2000.3
75°	1780.5	1799.7	1859.1	1971.4	2279.4	2460.6	2325.9	2125.4	1960.2	1871.9	1876.7
77.5°	1373.1	1414.8	1478.9	1655.4	2045.2	2309.8	2067.6	1705.1	1440.4	1308.9	1305.7
80°	391.4	449.1	595.1	988.1	1554.3	1839.8	1519.0	1008.9	712.2	542.2	521.3
82.5°	94.6	110.7	152.4	279.1	664.1	1039.4	752.3	330.4	198.9	129.9	104.3
85°	40.1	43.3	69.0	96.2	182.9	275.9	174.8	112.3	81.8	36.9	35.3
87.5°	14.4	16.0	25.7	25.7	38.5	22.5	40.1	27.3	28.9	9.6	9.6
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)