

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: P595333

Luminaire Tested: **IST-PA1E-830-U-5WQ**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595333  
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-PA1E-830-U-5WQ  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 80 CRI, 3000K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8311 lumens  
Efficiency: N/A  
Efficacy: 102.0 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

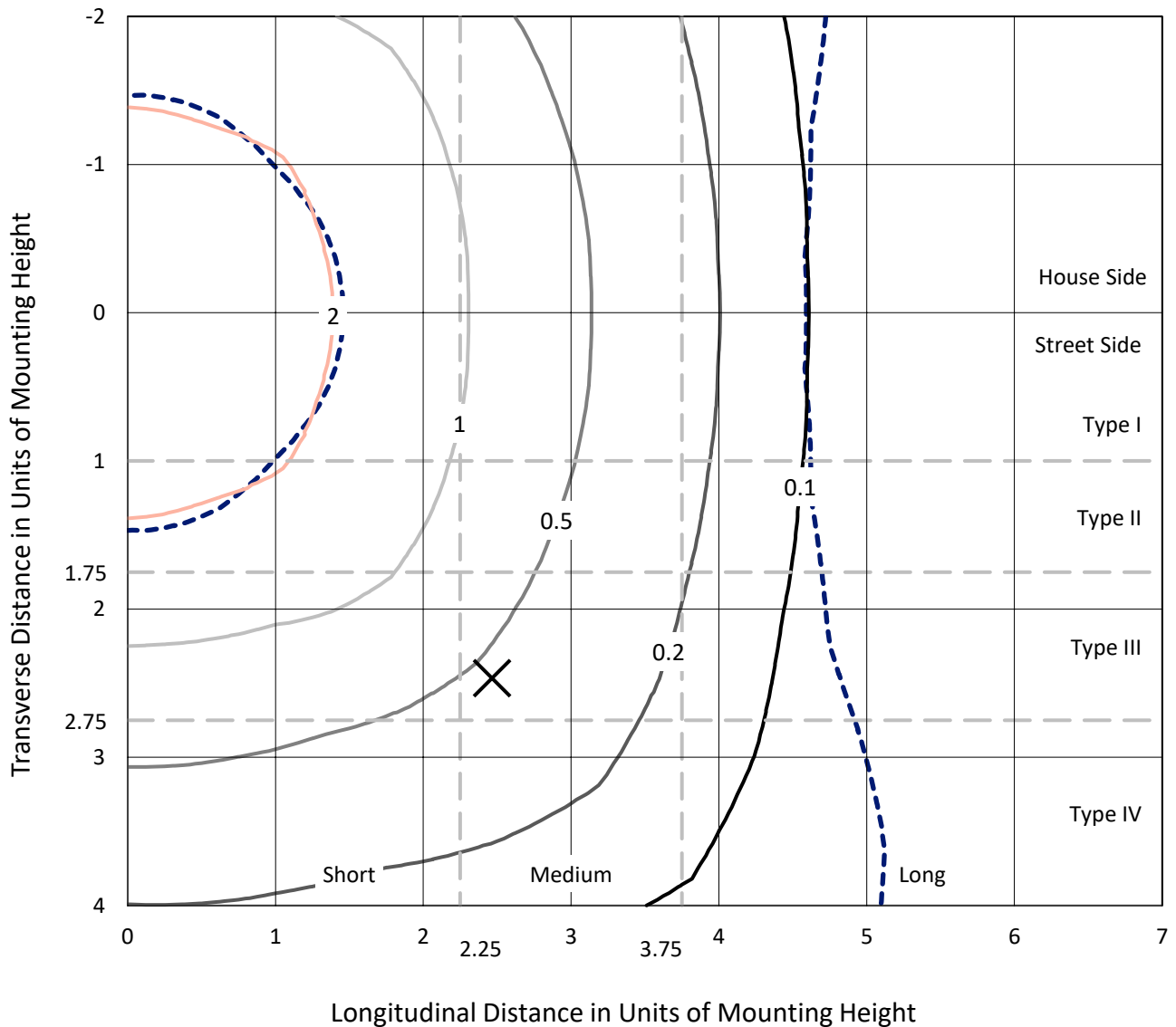
Input Watts (W): 81.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

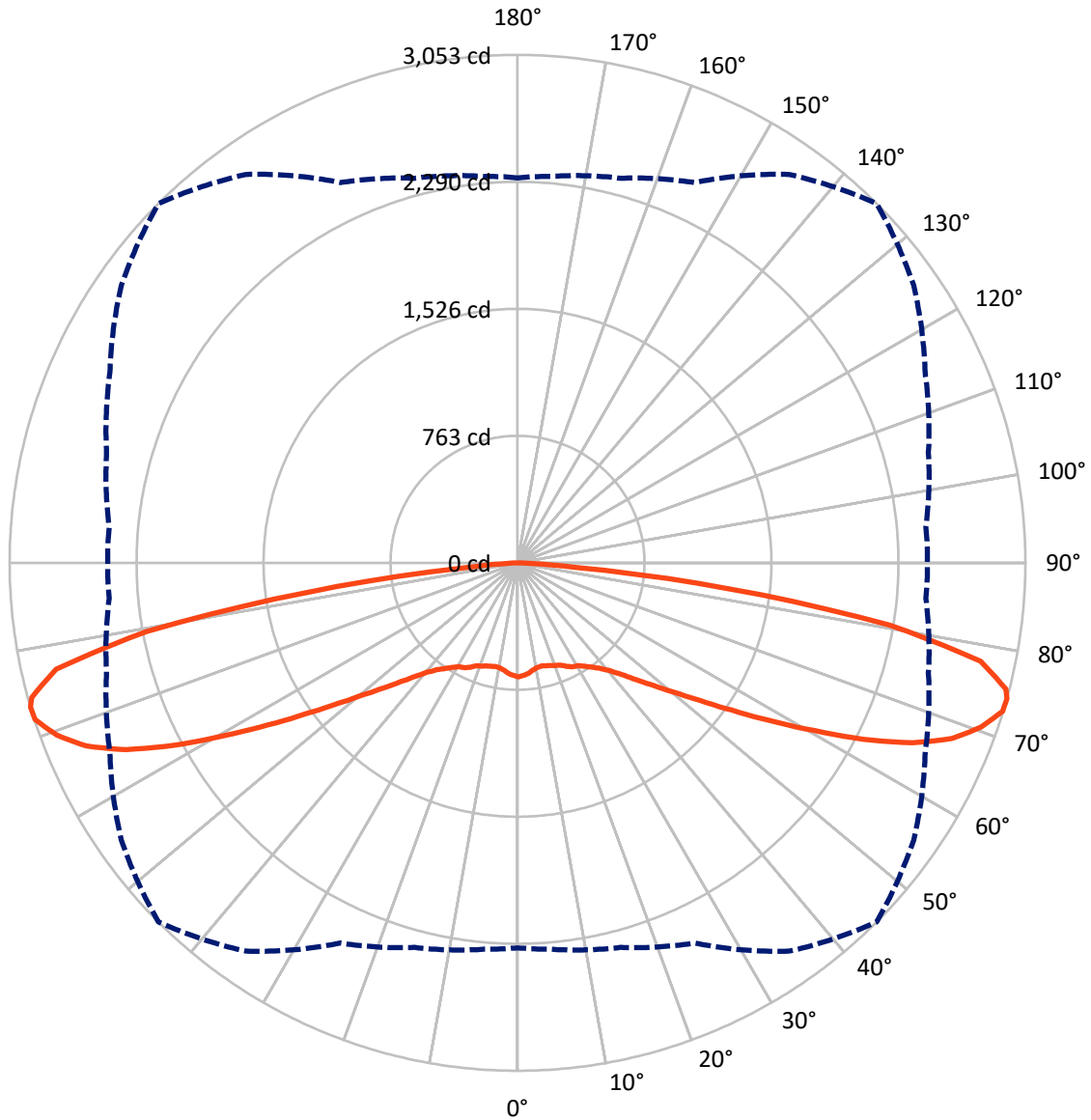
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 4.8 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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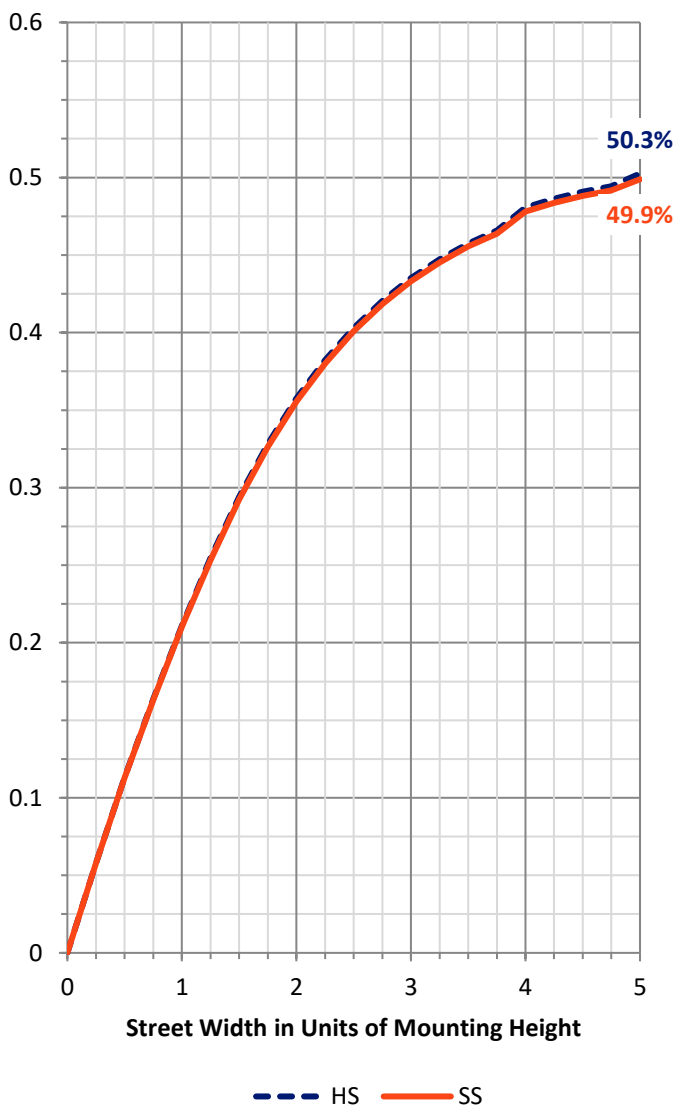
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4155.5	0.0	4155.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4155.5	0.0	4155.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	8311.0	0.0	8311.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.9	0.8
10°-20°	184.1	2.2
20°-30°	318.0	3.8
30°-40°	487.0	5.9
40°-50°	792.3	9.5
50°-60°	1374.1	16.5
60°-70°	2275.6	27.4
70°-80°	2462.2	29.6
80°-90°	354.8	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°	8311.0	100.0
0°-180°	8311.0	100.0

**Coefficient of Utilization**



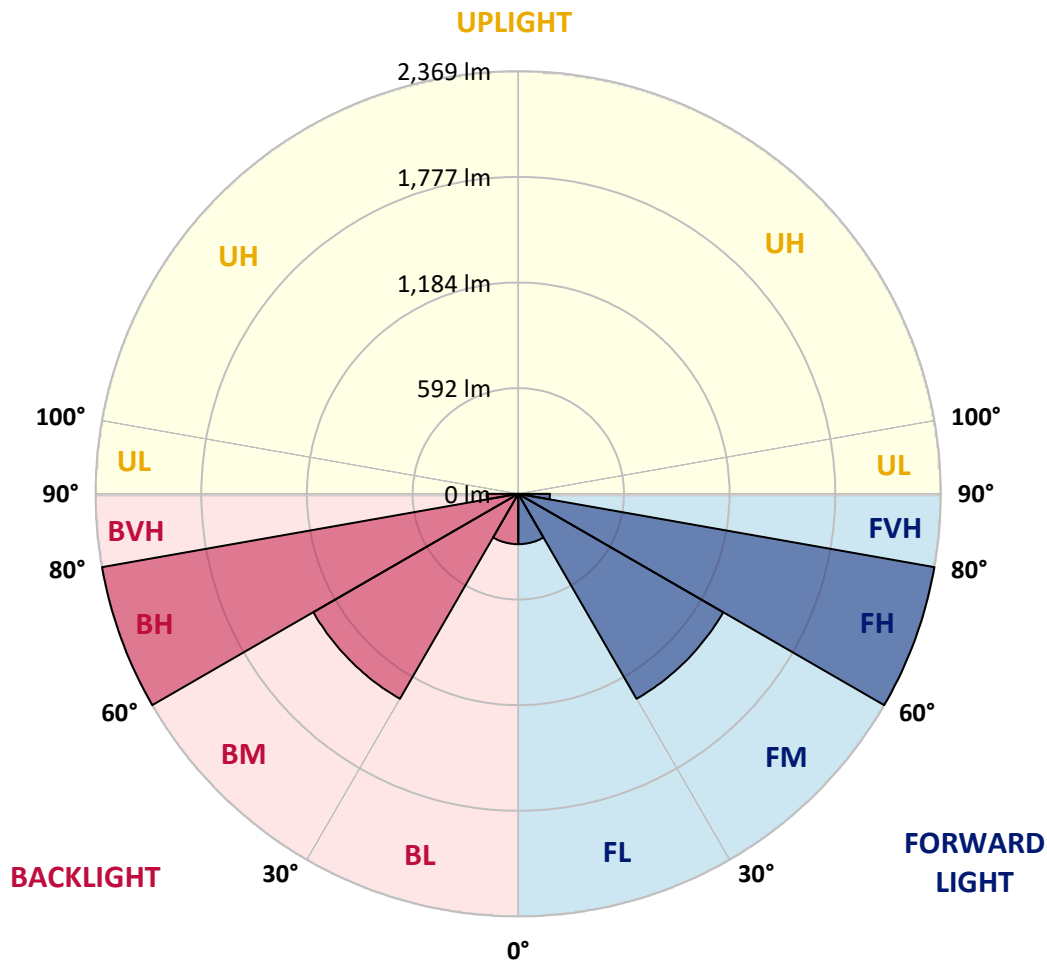
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	282.5	3.4			
FM (30°-60°)	1326.7	16.0			
FH (60°-80°)	2368.9	28.5			G2/5000
FVH (80°-90°)	177.4	2.1			G2/225
BL (0°-30°)	282.5	3.4	B1/500		
BM (30°-60°)	1326.7	16.0	B2/2500		
BH (60°-80°)	2368.9	28.5	B3/2500		G2/5000
BVH (80°-90°)	177.4	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°	685.6	685.6	685.6	685.6	685.6	685.6	685.6	685.6	685.6	685.6	685.6
2.5°	675.8	677.7	677.7	675.8	677.7	677.7	677.7	679.7	677.7	681.7	679.7
5°	665.9	665.9	667.8	665.9	665.9	667.8	665.9	669.8	667.8	671.8	667.8
7.5°	650.1	650.1	650.1	650.1	652.0	652.0	652.0	656.0	656.0	656.0	654.0
10°	646.1	644.1	644.1	640.2	640.2	640.2	638.2	644.1	646.1	650.1	648.1
12.5°	648.1	648.1	644.1	640.2	638.2	636.2	636.2	642.2	648.1	650.1	650.1
15°	656.0	656.0	650.1	642.2	642.2	642.2	640.2	642.2	652.0	656.0	652.0
17.5°	661.9	659.9	654.0	650.1	650.1	648.1	648.1	648.1	654.0	659.9	659.9
20°	671.8	671.8	663.9	659.9	659.9	658.0	656.0	654.0	659.9	667.8	665.9
22.5°	685.6	681.7	675.8	671.8	669.8	667.8	663.9	665.9	669.8	675.8	675.8
25°	695.5	695.5	689.6	687.6	689.6	689.6	683.7	679.7	681.7	687.6	687.6
27.5°	699.5	699.5	695.5	695.5	703.4	707.4	699.5	691.6	687.6	693.5	691.6
30°	715.3	715.3	711.3	709.3	715.3	717.2	713.3	707.4	705.4	711.3	709.3
32.5°	742.9	741.0	735.0	729.1	731.1	741.0	733.1	731.1	731.1	737.0	739.0
35°	774.5	770.6	764.7	758.7	760.7	770.6	762.7	762.7	764.7	772.6	772.6
37.5°	820.0	816.0	808.1	794.3	792.3	804.2	802.2	804.2	812.1	816.0	820.0
40°	869.4	867.4	857.5	845.7	843.7	851.6	853.6	857.5	865.4	869.4	871.4
42.5°	940.5	936.6	920.8	908.9	906.9	916.8	920.8	924.7	934.6	938.5	942.5
45°	1027.5	1025.5	1007.7	993.9	987.9	1001.8	1001.8	1005.7	1015.6	1023.5	1023.5
47.5°	1122.3	1120.3	1106.5	1090.7	1092.7	1102.5	1100.6	1102.5	1110.4	1118.3	1124.3
50°	1229.0	1223.1	1207.3	1203.3	1213.2	1223.1	1215.2	1213.2	1225.0	1229.0	1227.0
52.5°	1345.6	1339.6	1331.7	1331.7	1355.5	1373.2	1367.3	1349.5	1349.5	1347.6	1345.6
55°	1483.9	1479.9	1478.0	1487.8	1527.4	1562.9	1541.2	1507.6	1493.8	1485.9	1489.8
57.5°	1628.1	1618.2	1636.0	1657.8	1736.8	1788.2	1754.6	1691.4	1671.6	1655.8	1647.9
60°	1774.3	1770.4	1796.1	1847.4	1960.1	2047.0	2001.6	1896.8	1861.3	1825.7	1825.7
62.5°	1916.6	1912.7	1950.2	2029.2	2207.1	2335.5	2252.5	2120.1	2051.0	1997.6	1989.7
65°	2088.5	2082.6	2124.1	2209.0	2446.1	2608.2	2503.4	2329.6	2246.6	2173.5	2163.6
67.5°	2228.8	2228.8	2284.1	2388.8	2647.7	2817.6	2687.2	2537.0	2440.2	2365.1	2357.2
70°	2363.2	2375.0	2416.5	2519.2	2801.8	2955.9	2837.4	2703.0	2616.1	2541.0	2533.1
72.5°	2420.5	2436.3	2477.8	2578.5	2869.0	3048.8	2910.5	2756.4	2663.5	2588.4	2578.5
74°	2313.8	2331.5	2392.8	2521.2	2849.2	3052.7	2906.5	2703.0	2556.8	2463.9	2463.9
75°	2193.2	2216.9	2290.0	2428.4	2807.7	3031.0	2865.0	2618.0	2414.5	2305.9	2311.8
77.5°	1691.4	1742.7	1821.8	2039.1	2519.2	2845.3	2546.9	2100.4	1774.3	1612.3	1608.4
80°	482.1	553.2	733.1	1217.1	1914.6	2266.3	1871.2	1242.8	877.3	667.8	642.2
82.5°	116.6	136.3	187.7	343.8	818.0	1280.4	926.7	407.0	245.0	160.0	128.4
85°	49.4	53.3	85.0	118.6	225.3	339.9	215.4	138.3	100.8	45.4	43.5
87.5°	17.8	19.8	31.6	31.6	47.4	27.7	49.4	33.6	35.6	11.9	11.9
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)