

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: P595324

Luminaire Tested: **IST-PA1E-827-U-5WQ**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595324  
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-827-U-5WQ  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 80 CRI, 2700K, 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: 7688 lumens  
Efficiency: N/A  
Efficacy: 94.3 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

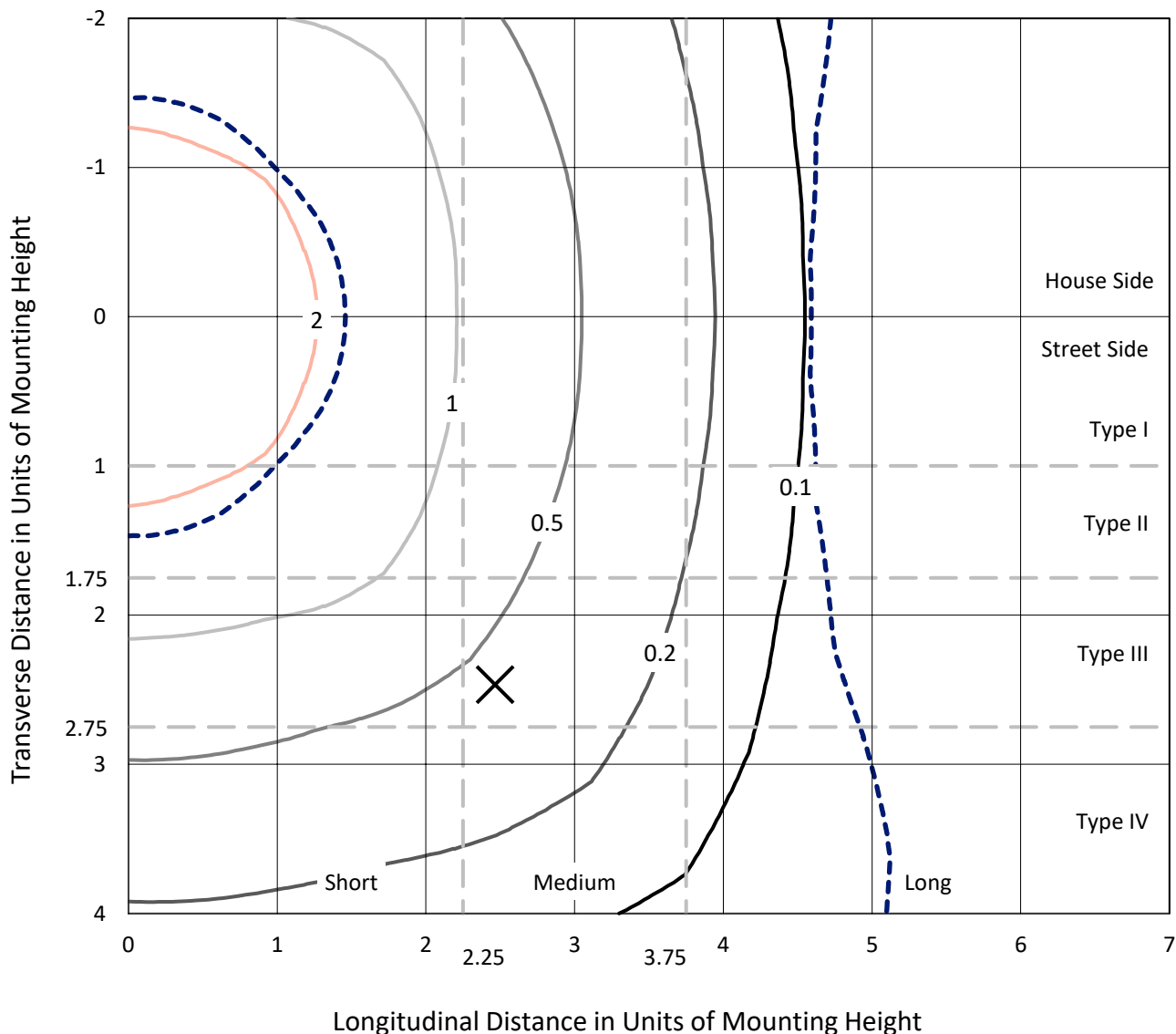
Input Watts (W): 81.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

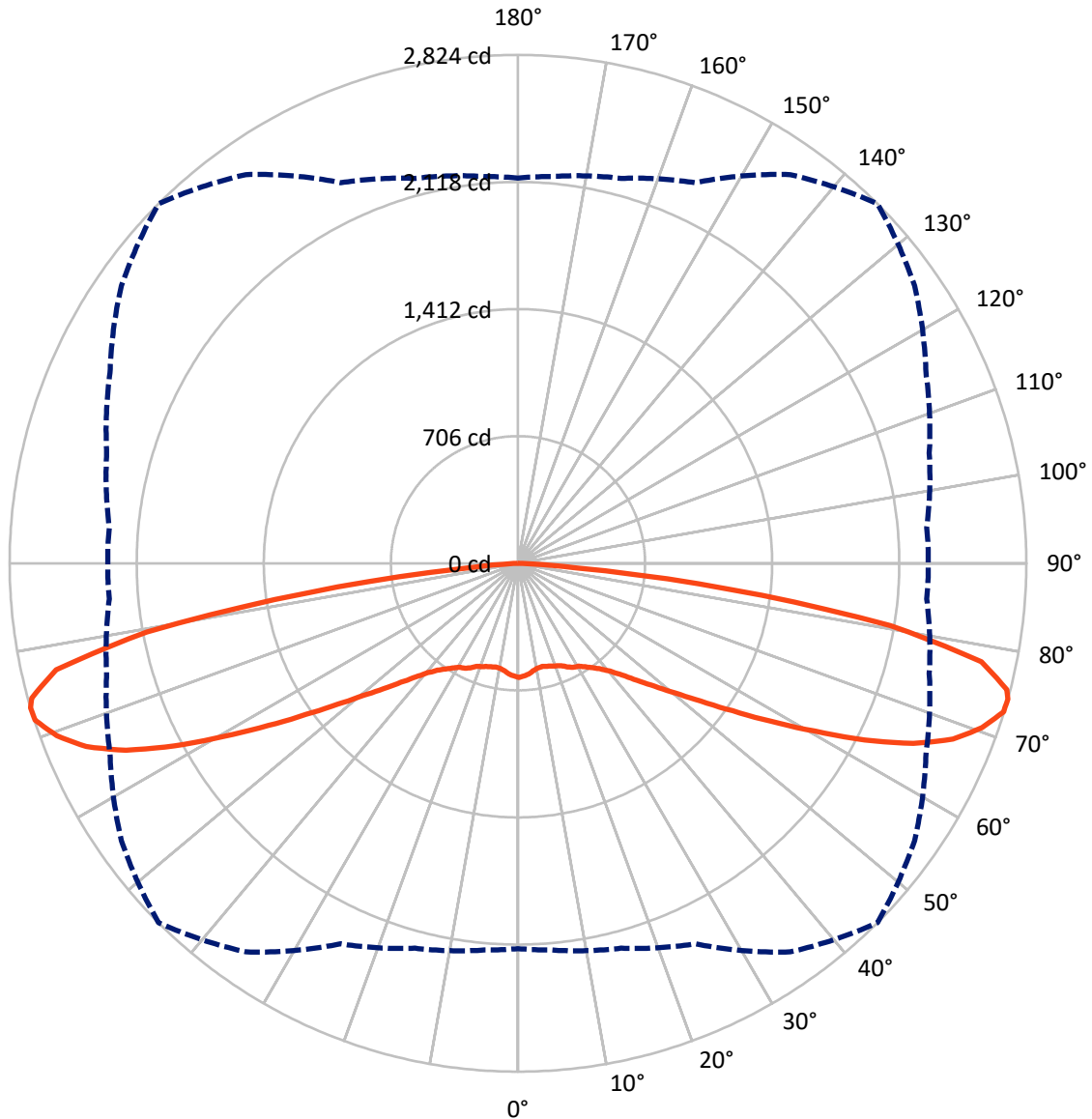
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 4.4 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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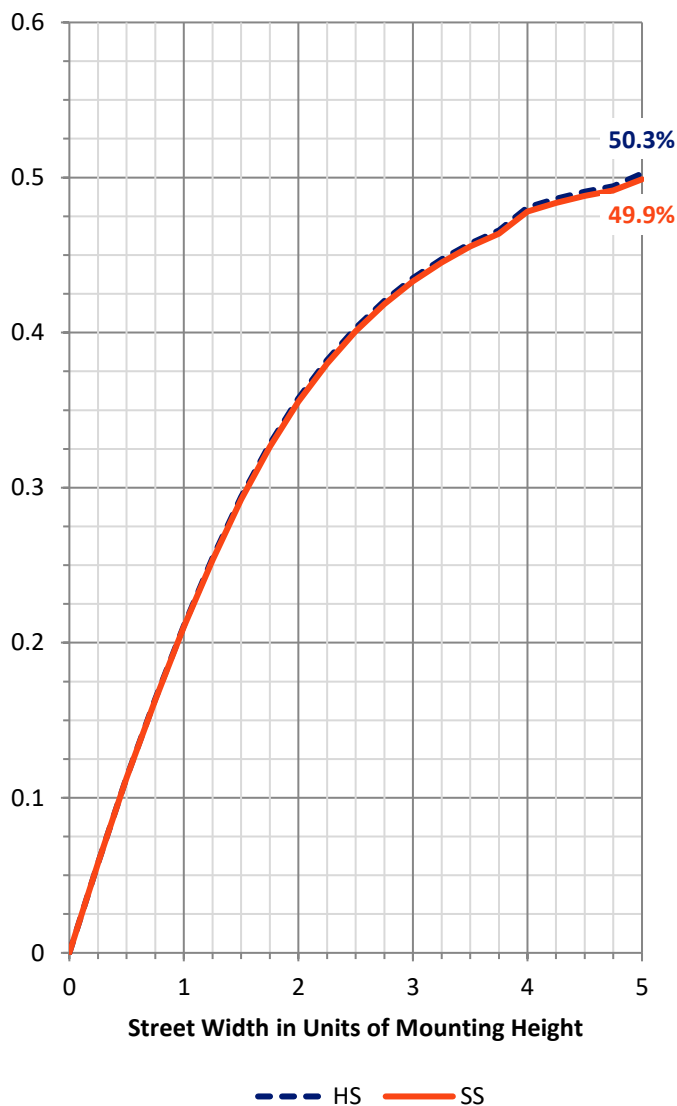
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3844.0	0.0	3844.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3844.0	0.0	3844.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	7688.0	0.0	7688.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.1	0.8
10°-20°	170.3	2.2
20°-30°	294.2	3.8
30°-40°	450.5	5.9
40°-50°	732.9	9.5
50°-60°	1271.1	16.5
60°-70°	2105.0	27.4
70°-80°	2277.6	29.6
80°-90°	328.2	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°	7688.0	100.0
0°-180°	7688.0	100.0

**Coefficient of Utilization**



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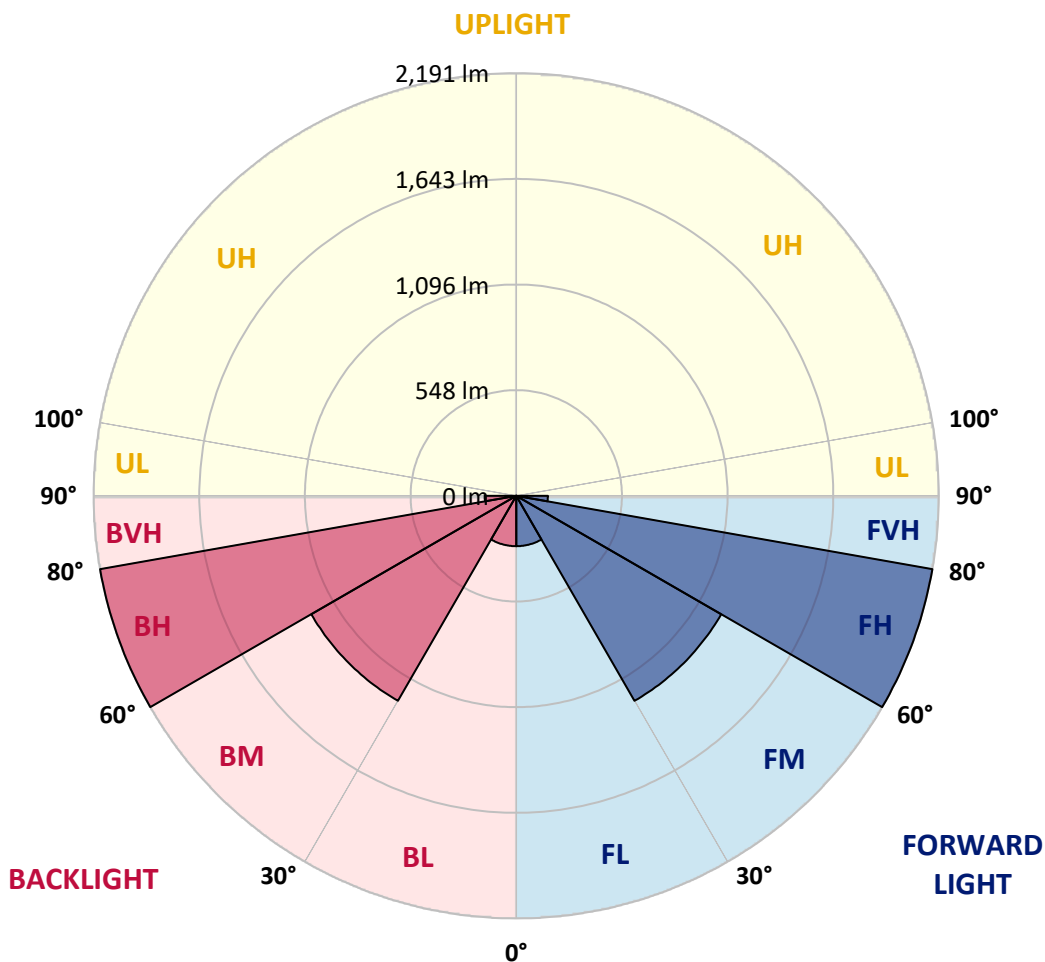
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	261.3	3.4			
FM (30°-60°)	1227.3	16.0			
FH (60°-80°)	2191.3	28.5			G2/5000
FVH (80°-90°)	164.1	2.1			G2/225
BL (0°-30°)	261.3	3.4	B1/500		
BM (30°-60°)	1227.3	16.0	B2/2500		
BH (60°-80°)	2191.3	28.5	B3/2500		G2/5000
BVH (80°-90°)	164.1	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°	634.2	634.2	634.2	634.2	634.2	634.2	634.2	634.2	634.2	634.2	634.2
2.5°	625.1	626.9	626.9	625.1	626.9	626.9	626.9	628.8	626.9	630.6	628.8
5°	616.0	616.0	617.8	616.0	616.0	617.8	616.0	619.6	617.8	621.4	617.8
7.5°	601.3	601.3	601.3	601.3	603.2	603.2	603.2	606.8	606.8	606.8	605.0
10°	597.7	595.9	595.9	592.2	592.2	592.2	590.4	595.9	597.7	601.3	599.5
12.5°	599.5	599.5	595.9	592.2	590.4	588.5	588.5	594.0	599.5	601.3	601.3
15°	606.8	606.8	601.3	594.0	594.0	594.0	592.2	594.0	603.2	606.8	603.2
17.5°	612.3	610.5	605.0	601.3	601.3	599.5	599.5	599.5	605.0	610.5	610.5
20°	621.4	621.4	614.1	610.5	610.5	608.6	606.8	605.0	610.5	617.8	616.0
22.5°	634.2	630.6	625.1	621.4	619.6	617.8	614.1	616.0	619.6	625.1	625.1
25°	643.4	643.4	637.9	636.1	637.9	637.9	632.4	628.8	630.6	636.1	636.1
27.5°	647.0	647.0	643.4	643.4	650.7	654.3	647.0	639.7	636.1	641.5	639.7
30°	661.7	661.7	658.0	656.2	661.7	663.5	659.8	654.3	652.5	658.0	656.2
32.5°	687.2	685.4	679.9	674.4	676.3	685.4	678.1	676.3	676.3	681.8	683.6
35°	716.5	712.8	707.3	701.9	703.7	712.8	705.5	705.5	707.3	714.7	714.7
37.5°	758.5	754.9	747.6	734.8	732.9	743.9	742.1	743.9	751.2	754.9	758.5
40°	804.2	802.4	793.3	782.3	780.5	787.8	789.6	793.3	800.6	804.2	806.0
42.5°	870.0	866.4	851.7	840.8	838.9	848.1	851.7	855.4	864.5	868.2	871.8
45°	950.4	948.6	932.2	919.4	913.9	926.7	926.7	930.3	939.5	946.8	946.8
47.5°	1038.2	1036.3	1023.5	1008.9	1010.8	1019.9	1018.1	1019.9	1027.2	1034.5	1040.0
50°	1136.9	1131.4	1116.8	1113.1	1122.2	1131.4	1124.1	1122.2	1133.2	1136.9	1135.0
52.5°	1244.7	1239.2	1231.9	1231.9	1253.8	1270.3	1264.8	1248.4	1248.4	1246.5	1244.7
55°	1372.7	1369.0	1367.2	1376.3	1412.9	1445.8	1425.7	1394.6	1381.8	1374.5	1378.1
57.5°	1506.1	1496.9	1513.4	1533.5	1606.6	1654.1	1623.1	1564.6	1546.3	1531.7	1524.4
60°	1641.3	1637.7	1661.4	1709.0	1813.1	1893.6	1851.5	1754.7	1721.8	1688.9	1688.9
62.5°	1772.9	1769.3	1804.0	1877.1	2041.6	2160.4	2083.7	1961.2	1897.2	1847.9	1840.6
65°	1931.9	1926.5	1964.8	2043.4	2262.8	2412.7	2315.8	2154.9	2078.2	2010.5	2001.4
67.5°	2061.7	2061.7	2112.9	2209.8	2449.2	2606.4	2485.8	2346.9	2257.3	2187.8	2180.5
70°	2186.0	2197.0	2235.4	2330.4	2591.8	2734.3	2624.7	2500.4	2420.0	2350.5	2343.2
72.5°	2239.0	2253.6	2292.0	2385.2	2653.9	2820.2	2692.3	2549.7	2463.8	2394.4	2385.2
74°	2140.3	2156.8	2213.4	2332.2	2635.6	2823.9	2688.6	2500.4	2365.1	2279.2	2279.2
75°	2028.8	2050.8	2118.4	2246.3	2597.3	2803.8	2650.3	2421.8	2233.5	2133.0	2138.5
77.5°	1564.6	1612.1	1685.2	1886.3	2330.4	2632.0	2356.0	1942.9	1641.3	1491.5	1487.8
80°	446.0	511.8	678.1	1125.9	1771.1	2096.4	1730.9	1149.7	811.5	617.8	594.0
82.5°	107.8	126.1	173.6	318.0	756.7	1184.4	857.2	376.5	226.6	148.0	118.8
85°	45.7	49.3	78.6	109.7	208.4	314.4	199.2	127.9	93.2	42.0	40.2
87.5°	16.4	18.3	29.2	29.2	43.9	25.6	45.7	31.1	32.9	11.0	11.0
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)