

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: P595207

Luminaire Tested: **IST-PA1D-735-U-5WQ**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595207  
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-735-U-5WQ  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 70 CRI, 3500K, 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: 7910 lumens  
Efficiency: N/A  
Efficacy: 126.8 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

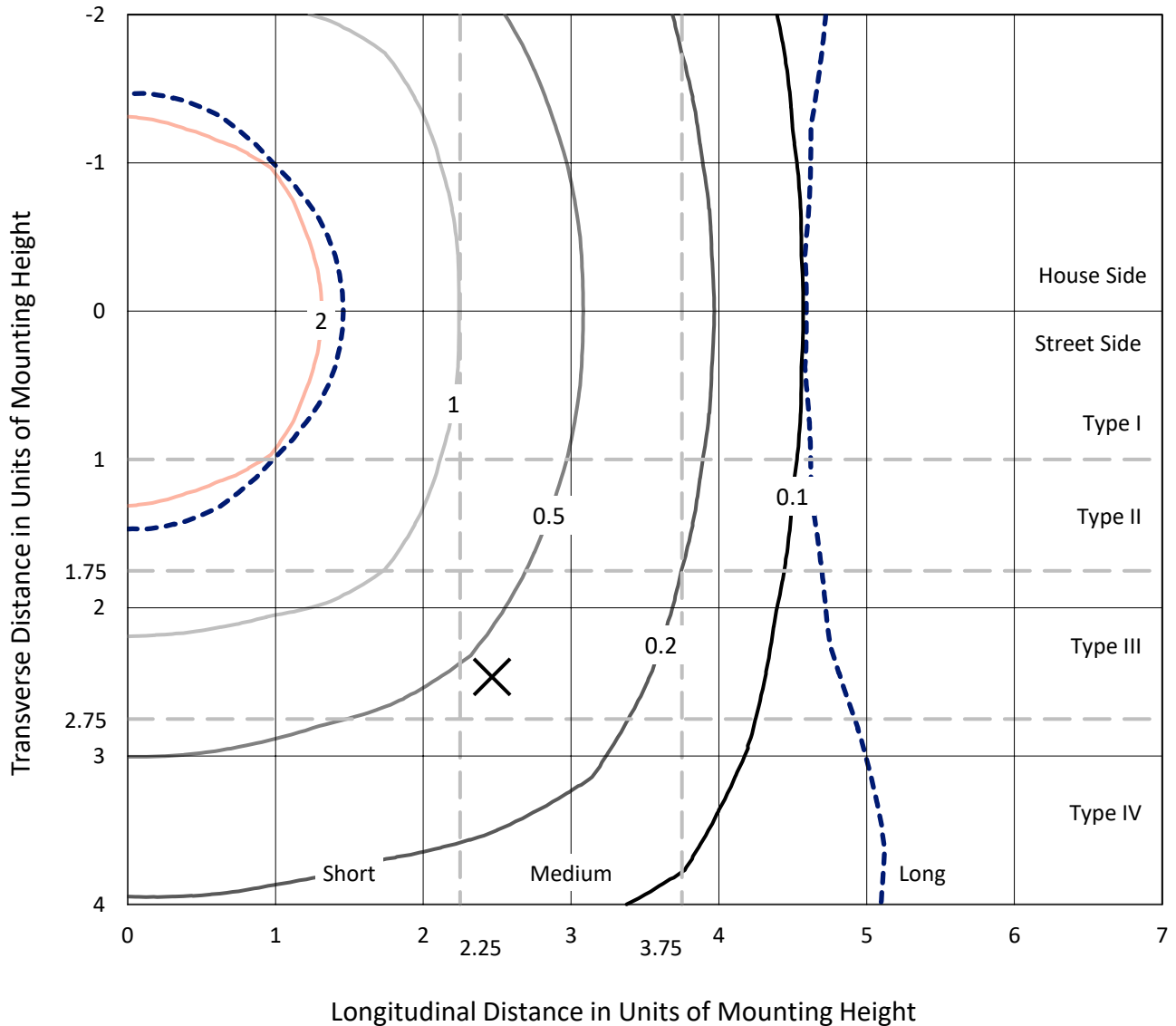
Input Watts (W): 62.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

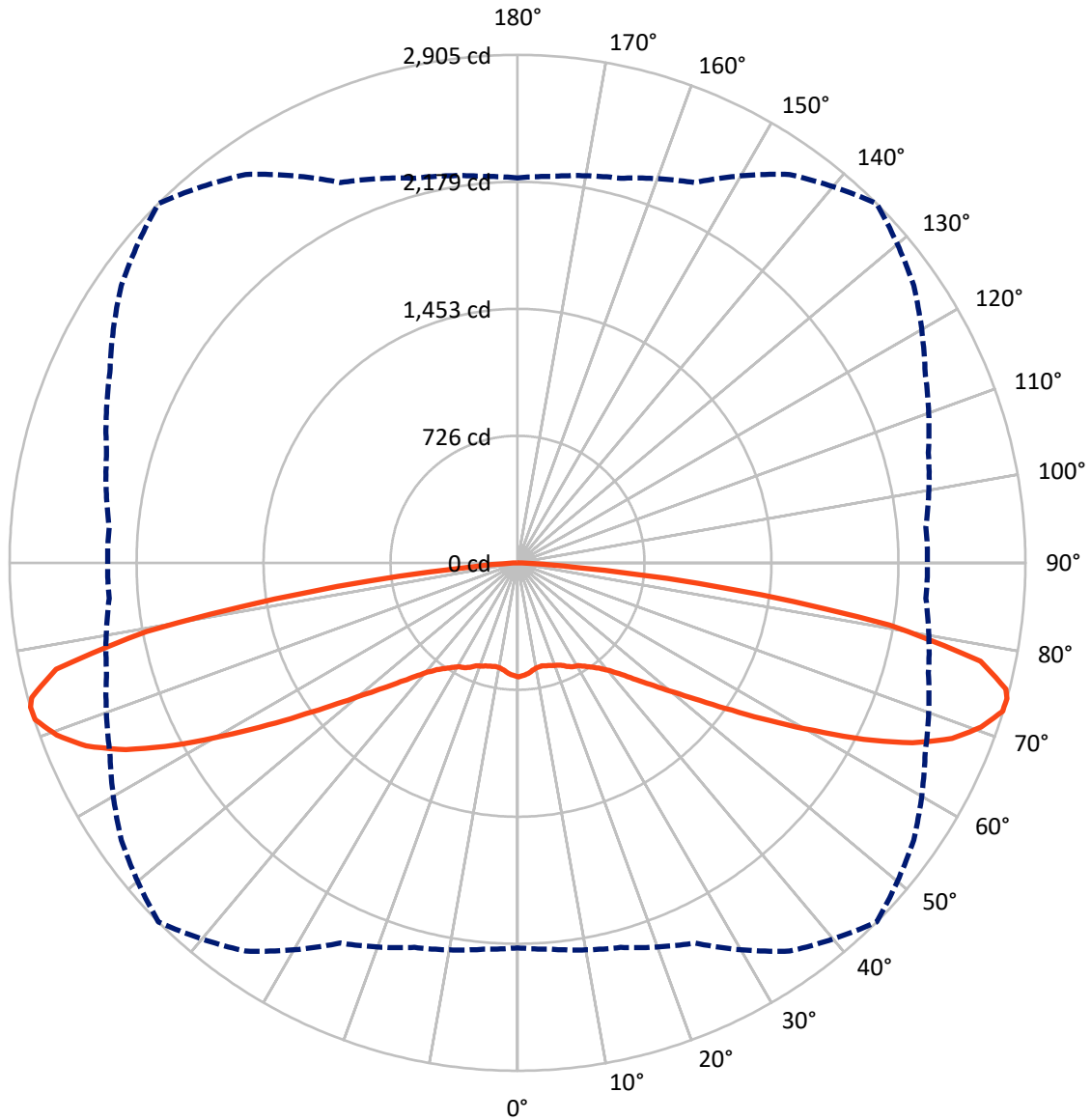
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 4.5 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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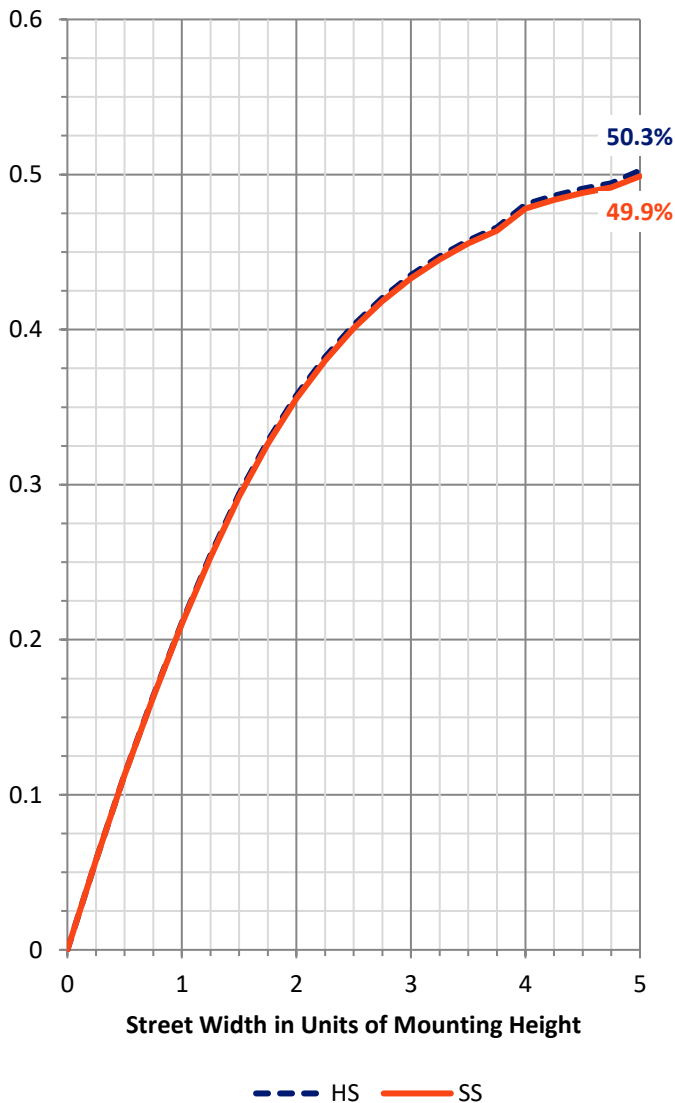
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3955.0	0.0	3955.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3955.0	0.0	3955.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	7910.0	0.0	7910.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.8	0.8
10°-20°	175.2	2.2
20°-30°	302.6	3.8
30°-40°	463.5	5.9
40°-50°	754.1	9.5
50°-60°	1307.8	16.5
60°-70°	2165.8	27.4
70°-80°	2343.4	29.6
80°-90°	337.7	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°	7910.0	100.0
0°-180°	7910.0	100.0

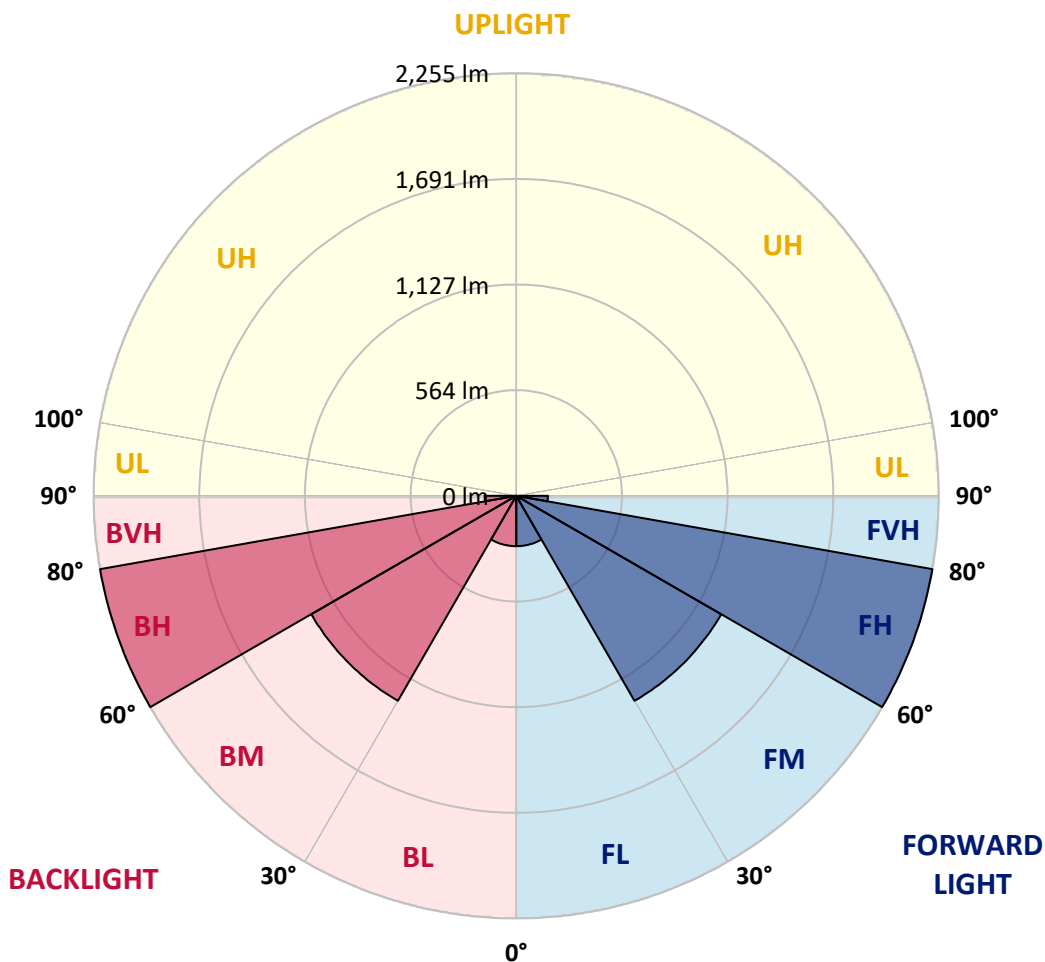


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	268.8	3.4			
FM (30°-60°)	1262.7	16.0			
FH (60°-80°)	2254.6	28.5			G2/5000
FVH (80°-90°)	168.9	2.1			G2/225
BL (0°-30°)	268.8	3.4	B1/500		
BM (30°-60°)	1262.7	16.0	B2/2500		
BH (60°-80°)	2254.6	28.5	B3/2500		G2/5000
BVH (80°-90°)	168.9	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°	652.5	652.5	652.5	652.5	652.5	652.5	652.5	652.5	652.5	652.5	652.5
2.5°	643.1	645.0	645.0	643.1	645.0	645.0	645.0	646.9	645.0	648.8	646.9
5°	633.7	633.7	635.6	633.7	633.7	635.6	633.7	637.5	635.6	639.4	635.6
7.5°	618.7	618.7	618.7	618.7	620.6	620.6	620.6	624.3	624.3	624.3	622.5
10°	614.9	613.1	613.1	609.3	609.3	609.3	607.4	613.1	614.9	618.7	616.8
12.5°	616.8	616.8	613.1	609.3	607.4	605.5	605.5	611.2	616.8	618.7	618.7
15°	624.3	624.3	618.7	611.2	611.2	611.2	609.3	611.2	620.6	624.3	620.6
17.5°	630.0	628.1	622.5	618.7	618.7	616.8	616.8	616.8	622.5	628.1	628.1
20°	639.4	639.4	631.9	628.1	628.1	626.2	624.3	622.5	628.1	635.6	633.7
22.5°	652.5	648.8	643.1	639.4	637.5	635.6	631.9	633.7	637.5	643.1	643.1
25°	662.0	662.0	656.3	654.4	656.3	656.3	650.7	646.9	648.8	654.4	654.4
27.5°	665.7	665.7	662.0	662.0	669.5	673.2	665.7	658.2	654.4	660.1	658.2
30°	680.8	680.8	677.0	675.1	680.8	682.6	678.9	673.2	671.4	677.0	675.1
32.5°	707.1	705.2	699.6	693.9	695.8	705.2	697.7	695.8	695.8	701.4	703.3
35°	737.2	733.4	727.8	722.1	724.0	733.4	725.9	725.9	727.8	735.3	735.3
37.5°	780.4	776.7	769.1	756.0	754.1	765.4	763.5	765.4	772.9	776.7	780.4
40°	827.4	825.6	816.2	804.9	803.0	810.5	812.4	816.2	823.7	827.4	829.3
42.5°	895.1	891.4	876.3	865.1	863.2	872.6	876.3	880.1	889.5	893.3	897.0
45°	977.9	976.0	959.1	945.9	940.3	953.4	953.4	957.2	966.6	974.1	974.1
47.5°	1068.2	1066.3	1053.1	1038.1	1039.9	1049.3	1047.5	1049.3	1056.9	1064.4	1070.0
50°	1169.7	1164.1	1149.0	1145.3	1154.7	1164.1	1156.5	1154.7	1165.9	1169.7	1167.8
52.5°	1280.7	1275.0	1267.5	1267.5	1290.1	1307.0	1301.3	1284.4	1284.4	1282.5	1280.7
55°	1412.3	1408.5	1406.6	1416.1	1453.7	1487.5	1466.8	1434.9	1421.7	1414.2	1417.9
57.5°	1549.6	1540.2	1557.1	1577.8	1653.0	1701.9	1669.9	1609.7	1590.9	1575.9	1568.4
60°	1688.7	1685.0	1709.4	1758.3	1865.5	1948.2	1905.0	1805.3	1771.5	1737.6	1737.6
62.5°	1824.1	1820.4	1856.1	1931.3	2100.6	2222.8	2143.8	2017.8	1952.0	1901.2	1893.7
65°	1987.7	1982.1	2021.6	2102.5	2328.1	2482.3	2382.7	2217.2	2138.2	2068.6	2059.2
67.5°	2121.3	2121.3	2173.9	2273.6	2519.9	2681.7	2557.5	2414.6	2322.5	2251.0	2243.5
70°	2249.1	2260.4	2299.9	2397.7	2666.6	2813.3	2700.5	2572.6	2489.8	2418.4	2410.9
72.5°	2303.7	2318.7	2358.2	2454.1	2730.6	2901.7	2770.0	2623.4	2535.0	2463.5	2454.1
74°	2202.1	2219.0	2277.3	2399.6	2711.7	2905.4	2766.3	2572.6	2433.4	2345.0	2345.0
75°	2087.4	2110.0	2179.6	2311.2	2672.3	2884.8	2726.8	2491.7	2298.0	2194.6	2200.2
77.5°	1609.7	1658.6	1733.9	1940.7	2397.7	2708.0	2424.0	1999.0	1688.7	1534.5	1530.8
80°	458.9	526.6	697.7	1158.4	1822.2	2157.0	1780.9	1182.9	835.0	635.6	611.2
82.5°	111.0	129.8	178.7	327.2	778.5	1218.6	882.0	387.4	233.2	152.3	122.2
85°	47.0	50.8	80.9	112.8	214.4	323.5	205.0	131.6	95.9	43.3	41.4
87.5°	16.9	18.8	30.1	30.1	45.1	26.3	47.0	32.0	33.8	11.3	11.3
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)