

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: P595288

Luminaire Tested: **IST-PA1E-735-U-5WQ**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595288  
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-735-U-5WQ  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 70 CRI, 3500K, 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: 9742 lumens  
Efficiency: N/A  
Efficacy: 119.5 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type V - Medium  
BUG Rating: B4 - U0 - G2

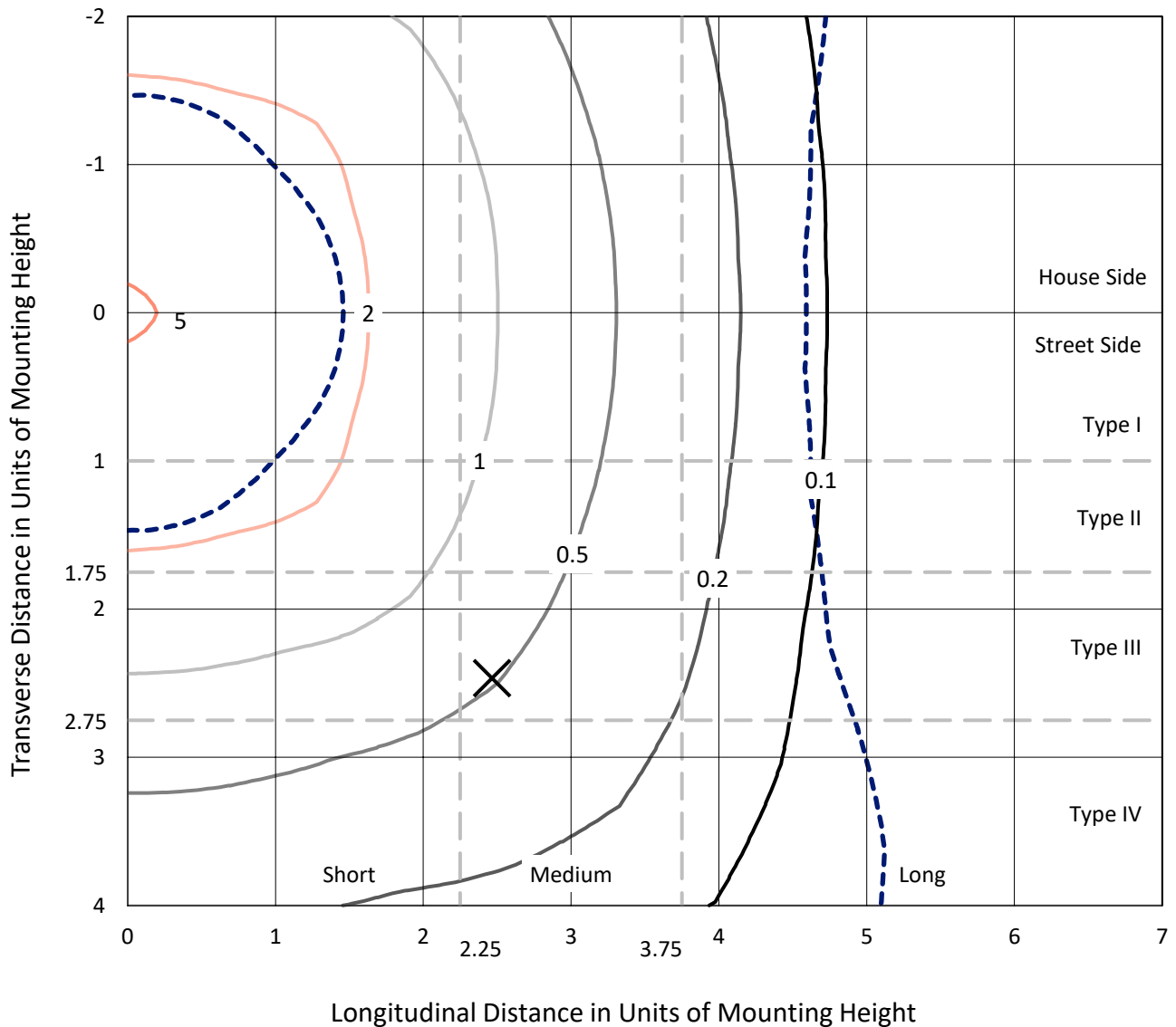
Input Watts (W): 81.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

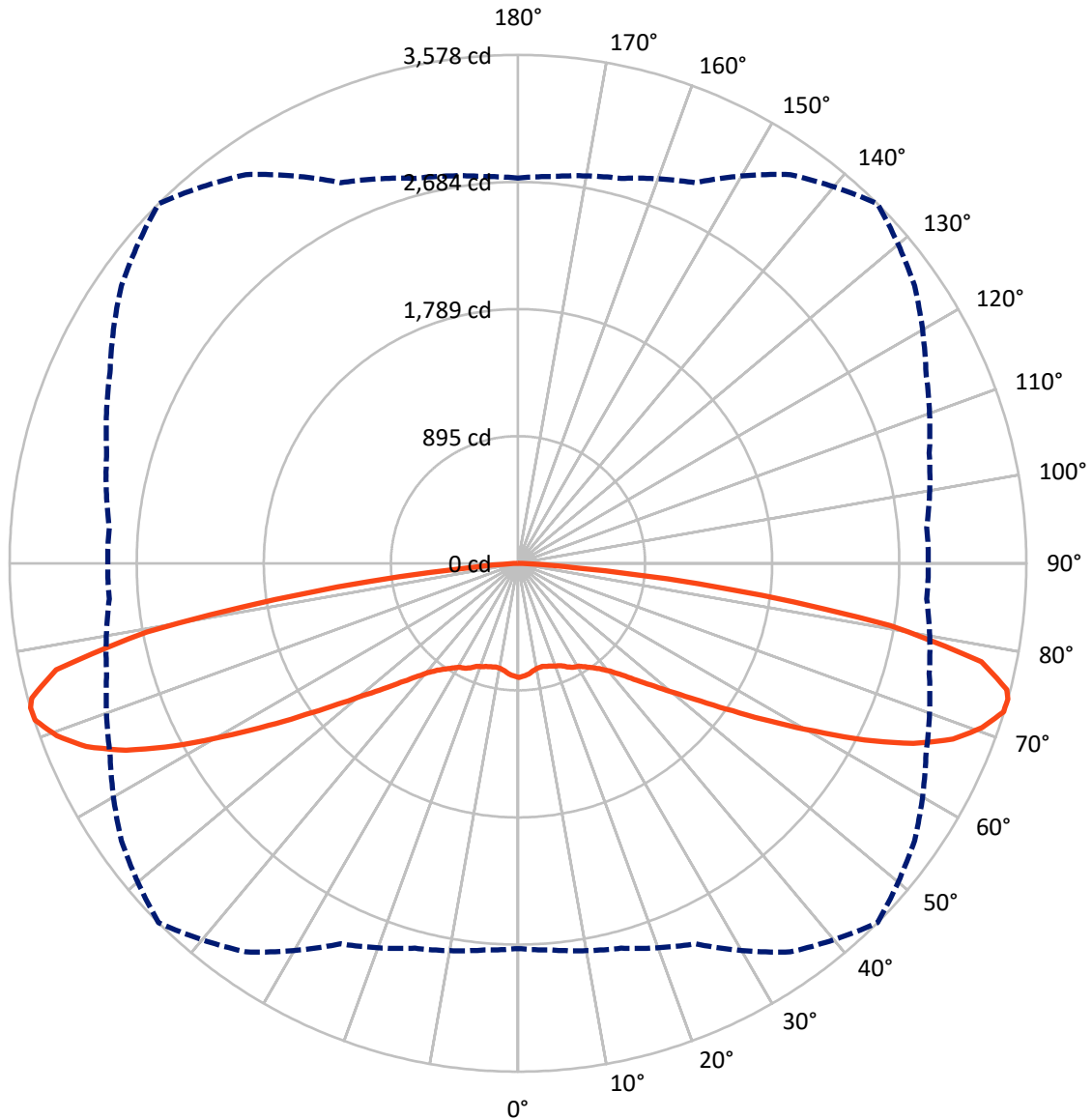
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 5.6 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
<b>House Side</b>	Lumens	4871.0	0.0	4871.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4871.0	0.0	4871.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	9742.0	0.0	9742.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.7	0.8
10°-20°	215.8	2.2
20°-30°	372.7	3.8
30°-40°	570.9	5.9
40°-50°	928.8	9.5
50°-60°	1610.6	16.5
60°-70°	2667.4	27.4
70°-80°	2886.1	29.6
80°-90°	415.9	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°	9742.0	100.0
0°-180°	9742.0	100.0

**Coefficient of Utilization**

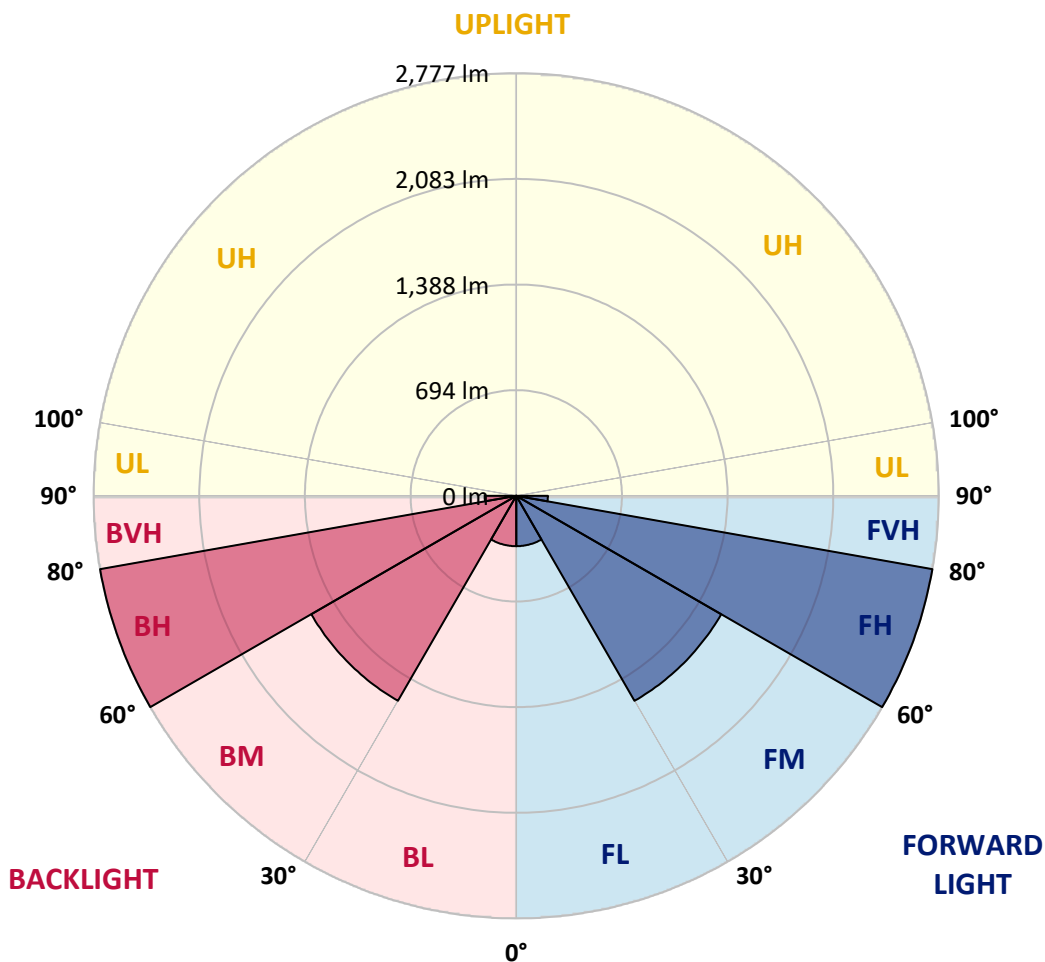


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	331.1	3.4			
FM (30°-60°)	1555.2	16.0			
FH (60°-80°)	2776.8	28.5			G2/5000
FVH (80°-90°)	208.0	2.1			G2/225
BL (0°-30°)	331.1	3.4	B1/500		
BM (30°-60°)	1555.2	16.0	B2/2500		
BH (60°-80°)	2776.8	28.5	B4/5000		G2/5000
BVH (80°-90°)	208.0	2.1			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**  
 Type V Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	803.7	803.7	803.7	803.7	803.7	803.7	803.7	803.7	803.7	803.7	803.7
2.5°	792.1	794.4	794.4	792.1	794.4	794.4	794.4	796.7	794.4	799.1	796.7
5°	780.5	780.5	782.8	780.5	780.5	782.8	780.5	785.2	782.8	787.5	782.8
7.5°	762.0	762.0	762.0	762.0	764.3	764.3	764.3	768.9	768.9	768.9	766.6
10°	757.4	755.0	755.0	750.4	750.4	750.4	748.1	755.0	757.4	762.0	759.7
12.5°	759.7	759.7	755.0	750.4	748.1	745.8	745.8	752.7	759.7	762.0	762.0
15°	768.9	768.9	762.0	752.7	752.7	752.7	750.4	752.7	764.3	768.9	764.3
17.5°	775.9	773.6	766.6	762.0	762.0	759.7	759.7	759.7	766.6	773.6	773.6
20°	787.5	787.5	778.2	773.6	773.6	771.3	768.9	766.6	773.6	782.8	780.5
22.5°	803.7	799.1	792.1	787.5	785.2	782.8	778.2	780.5	785.2	792.1	792.1
25°	815.3	815.3	808.3	806.0	808.3	808.3	801.4	796.7	799.1	806.0	806.0
27.5°	819.9	819.9	815.3	815.3	824.5	829.2	819.9	810.6	806.0	812.9	810.6
30°	838.4	838.4	833.8	831.5	838.4	840.7	836.1	829.2	826.8	833.8	831.5
32.5°	870.9	868.5	861.6	854.6	857.0	868.5	859.3	857.0	857.0	863.9	866.2
35°	907.9	903.3	896.3	889.4	891.7	903.3	894.0	894.0	896.3	905.6	905.6
37.5°	961.2	956.5	947.3	931.1	928.8	942.6	940.3	942.6	951.9	956.5	961.2
40°	1019.1	1016.8	1005.2	991.3	989.0	998.2	1000.6	1005.2	1014.4	1019.1	1021.4
42.5°	1102.5	1097.8	1079.3	1065.4	1063.1	1074.7	1079.3	1083.9	1095.5	1100.1	1104.8
45°	1204.4	1202.1	1181.2	1165.0	1158.0	1174.3	1174.3	1178.9	1190.5	1199.7	1199.7
47.5°	1315.5	1313.2	1297.0	1278.5	1280.8	1292.4	1290.1	1292.4	1301.6	1310.9	1317.9
50°	1440.6	1433.7	1415.1	1410.5	1422.1	1433.7	1424.4	1422.1	1436.0	1440.6	1438.3
52.5°	1577.3	1570.3	1561.0	1561.0	1588.8	1609.7	1602.7	1581.9	1581.9	1579.6	1577.3
55°	1739.4	1734.8	1732.4	1744.0	1790.3	1832.0	1806.6	1767.2	1751.0	1741.7	1746.3
57.5°	1908.5	1896.9	1917.7	1943.2	2035.8	2096.1	2056.7	1982.6	1959.4	1940.9	1931.6
60°	2079.8	2075.2	2105.3	2165.5	2297.6	2399.5	2346.2	2223.4	2181.8	2140.1	2140.1
62.5°	2246.6	2242.0	2286.0	2378.6	2587.1	2737.6	2640.3	2485.2	2404.1	2341.6	2332.3
65°	2448.1	2441.2	2489.8	2589.4	2867.3	3057.2	2934.5	2730.7	2633.4	2547.7	2536.1
67.5°	2612.6	2612.6	2677.4	2800.2	3103.6	3302.7	3149.9	2973.9	2860.4	2772.4	2763.1
70°	2770.0	2783.9	2832.6	2953.0	3284.2	3464.9	3325.9	3168.4	3066.5	2978.5	2969.2
72.5°	2837.2	2855.7	2904.4	3022.5	3363.0	3573.7	3411.6	3230.9	3122.1	3034.1	3022.5
74°	2712.1	2733.0	2804.8	2955.3	3339.8	3578.4	3407.0	3168.4	2997.0	2888.2	2888.2
75°	2570.9	2598.7	2684.3	2846.5	3291.2	3552.9	3358.3	3068.8	2830.3	2702.9	2709.8
77.5°	1982.6	2042.8	2135.4	2390.2	2953.0	3335.2	2985.4	2462.0	2079.8	1889.9	1885.3
80°	565.1	648.5	859.3	1426.7	2244.3	2656.6	2193.3	1456.8	1028.3	782.8	752.7
82.5°	136.6	159.8	220.0	403.0	958.9	1500.8	1086.2	477.1	287.2	187.6	150.5
85°	57.9	62.5	99.6	139.0	264.0	398.4	252.5	162.1	118.1	53.3	51.0
87.5°	20.8	23.2	37.1	37.1	55.6	32.4	57.9	39.4	41.7	13.9	13.9
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)