

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: P595081

Luminaire Tested: **IST-PA1B-827-U-5WQ**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595081  
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-PA1B-827-U-5WQ  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 80 CRI, 2700K, 450mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3879 lumens  
Efficiency: N/A  
Efficacy: 106.6 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type V - Medium  
BUG Rating: B3 - U0 - G1

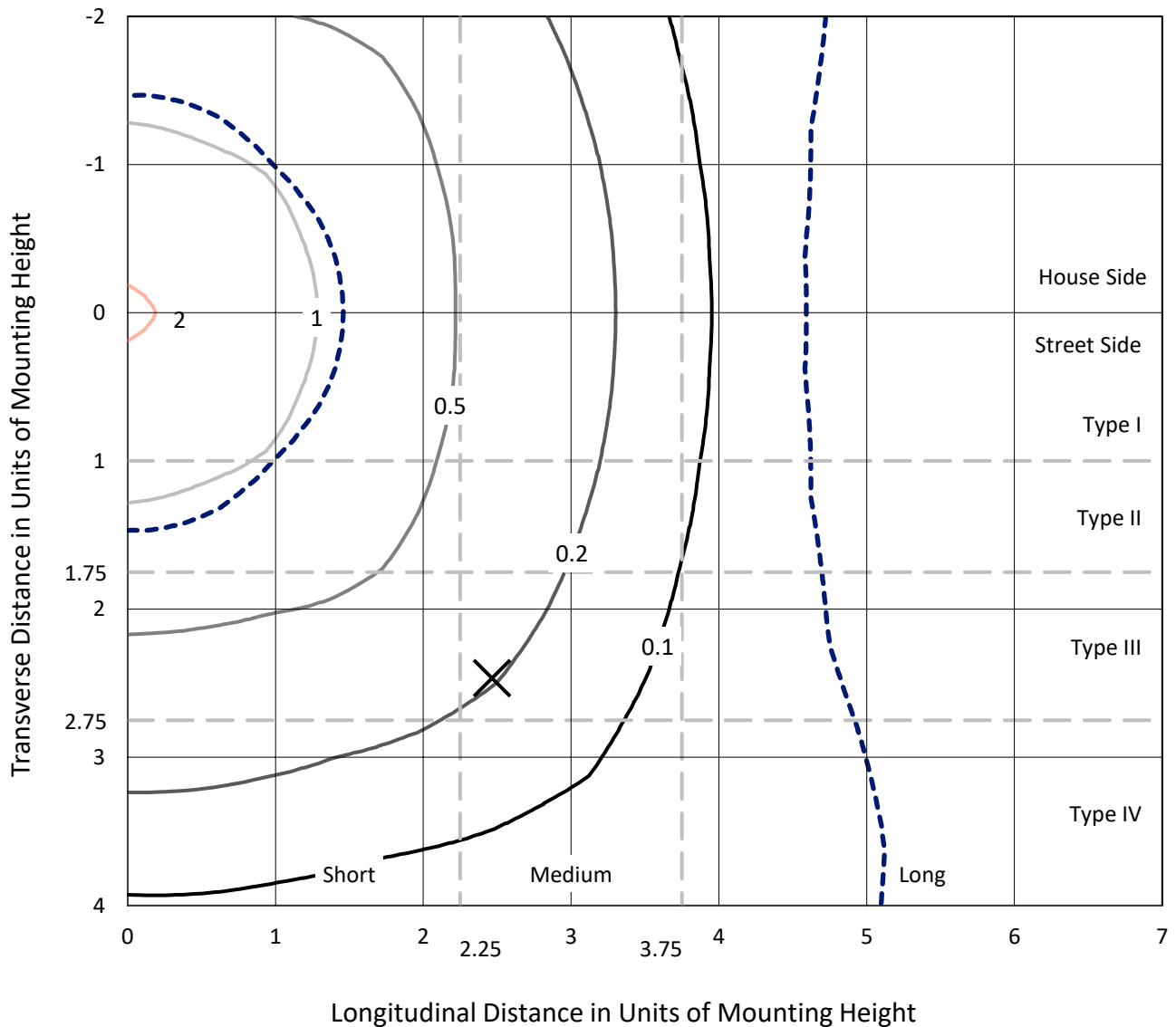
Input Watts (W): 36.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

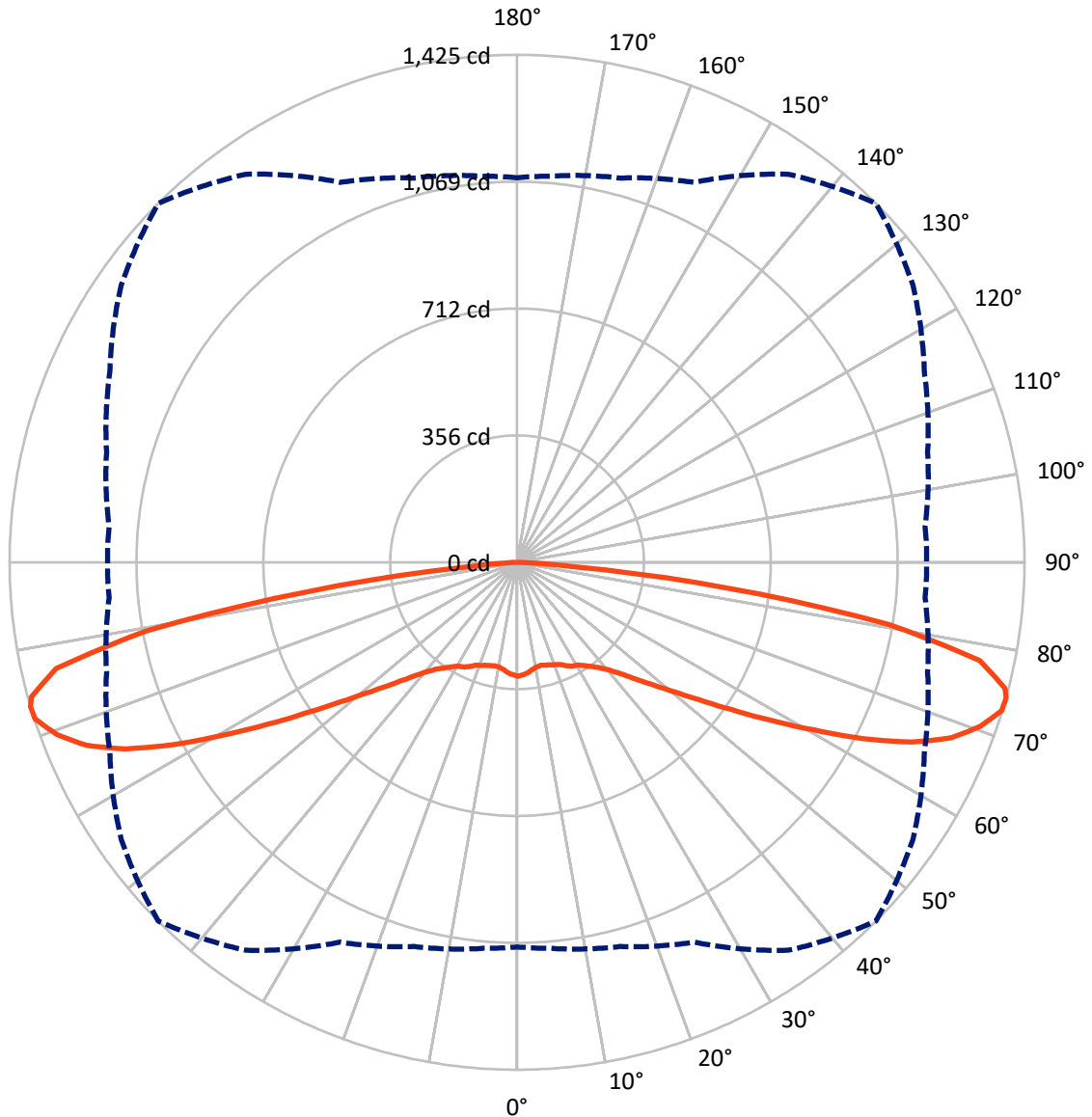
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 2.2 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	1939.5	0.0	1939.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	1939.5	0.0	1939.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	3879.0	0.0	3879.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	29.3	0.8
10°-20°	85.9	2.2
20°-30°	148.4	3.8
30°-40°	227.3	5.9
40°-50°	369.8	9.5
50°-60°	641.3	16.5
60°-70°	1062.1	27.4
70°-80°	1149.2	29.6
80°-90°	165.6	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°	3879.0	100.0
0°-180°	3879.0	100.0

**Coefficient of Utilization**

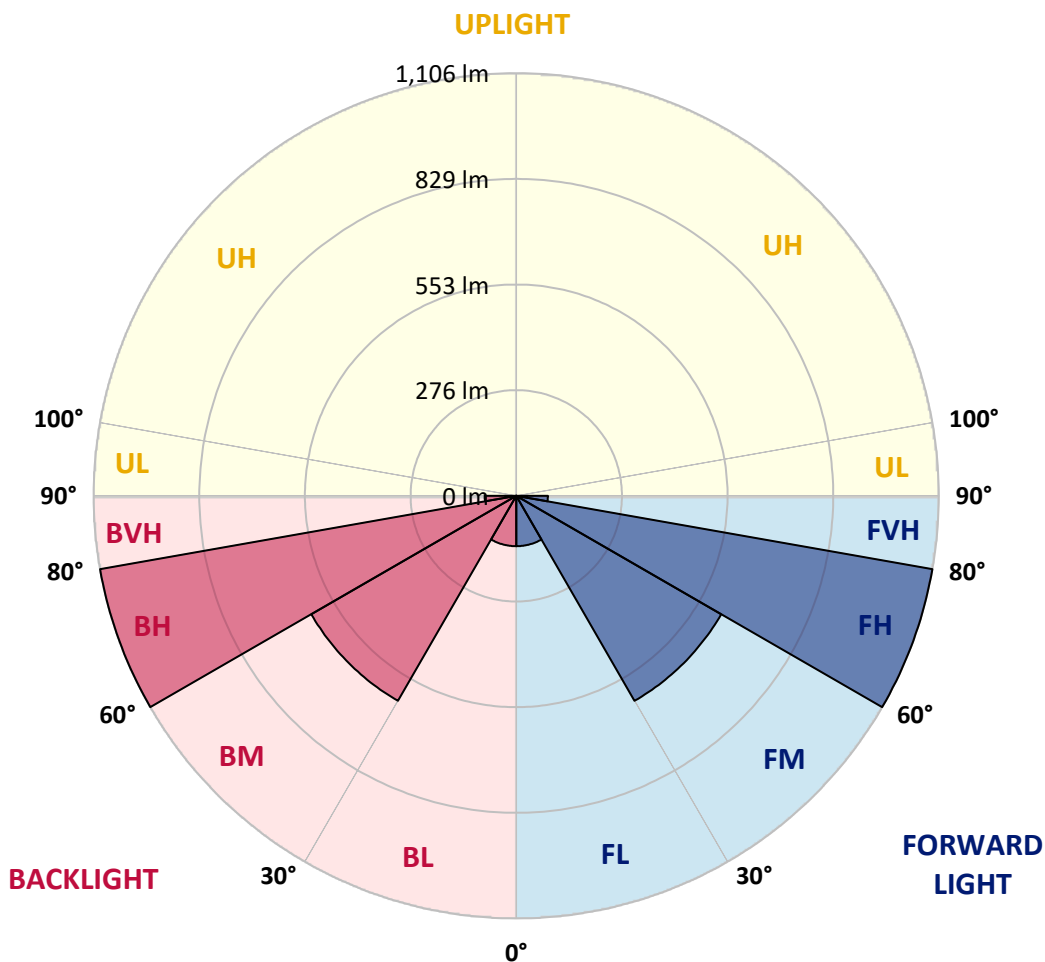


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	131.8	3.4			
FM (30°-60°)	619.2	16.0			
FH (60°-80°)	1105.6	28.5			G1/1800
FVH (80°-90°)	82.8	2.1			G1/100
BL (0°-30°)	131.8	3.4	B1/500		
BM (30°-60°)	619.2	16.0	B1/1000		
BH (60°-80°)	1105.6	28.5	B3/2500		G1/1800
BVH (80°-90°)	82.8	2.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**  
 Type V Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	320.0	320.0	320.0	320.0	320.0	320.0	320.0	320.0	320.0	320.0	320.0
2.5°	315.4	316.3	316.3	315.4	316.3	316.3	316.3	317.2	316.3	318.2	317.2
5°	310.8	310.8	311.7	310.8	310.8	311.7	310.8	312.6	311.7	313.5	311.7
7.5°	303.4	303.4	303.4	303.4	304.3	304.3	304.3	306.2	306.2	306.2	305.2
10°	301.6	300.6	300.6	298.8	298.8	298.8	297.9	300.6	301.6	303.4	302.5
12.5°	302.5	302.5	300.6	298.8	297.9	296.9	296.9	299.7	302.5	303.4	303.4
15°	306.2	306.2	303.4	299.7	299.7	299.7	298.8	299.7	304.3	306.2	304.3
17.5°	308.9	308.0	305.2	303.4	303.4	302.5	302.5	302.5	305.2	308.0	308.0
20°	313.5	313.5	309.9	308.0	308.0	307.1	306.2	305.2	308.0	311.7	310.8
22.5°	320.0	318.2	315.4	313.5	312.6	311.7	309.9	310.8	312.6	315.4	315.4
25°	324.6	324.6	321.8	320.9	321.8	321.8	319.1	317.2	318.2	320.9	320.9
27.5°	326.5	326.5	324.6	324.6	328.3	330.1	326.5	322.8	320.9	323.7	322.8
30°	333.8	333.8	332.0	331.1	333.8	334.8	332.9	330.1	329.2	332.0	331.1
32.5°	346.7	345.8	343.1	340.3	341.2	345.8	342.1	341.2	341.2	344.0	344.9
35°	361.5	359.7	356.9	354.1	355.0	359.7	356.0	356.0	356.9	360.6	360.6
37.5°	382.7	380.9	377.2	370.7	369.8	375.3	374.4	375.3	379.0	380.9	382.7
40°	405.8	404.8	400.2	394.7	393.8	397.5	398.4	400.2	403.9	405.8	406.7
42.5°	439.0	437.1	429.7	424.2	423.3	427.9	429.7	431.6	436.2	438.0	439.9
45°	479.5	478.6	470.3	463.9	461.1	467.6	467.6	469.4	474.0	477.7	477.7
47.5°	523.8	522.9	516.4	509.1	510.0	514.6	513.7	514.6	518.3	522.0	524.7
50°	573.6	570.8	563.5	561.6	566.2	570.8	567.2	566.2	571.8	573.6	572.7
52.5°	628.0	625.3	621.6	621.6	632.6	640.9	638.2	629.9	629.9	628.9	628.0
55°	692.6	690.7	689.8	694.4	712.9	729.5	719.3	703.6	697.2	693.5	695.3
57.5°	759.9	755.3	763.6	773.7	810.6	834.6	818.9	789.4	780.2	772.8	769.1
60°	828.1	826.3	838.3	862.3	914.8	955.4	934.2	885.3	868.7	852.1	852.1
62.5°	894.5	892.7	910.2	947.1	1030.1	1090.0	1051.3	989.5	957.2	932.3	928.7
65°	974.8	972.0	991.4	1031.0	1141.7	1217.3	1168.4	1087.3	1048.5	1014.4	1009.8
67.5°	1040.2	1040.2	1066.1	1114.9	1235.8	1315.1	1254.2	1184.1	1138.9	1103.9	1100.2
70°	1103.0	1108.5	1127.9	1175.8	1307.7	1379.6	1324.3	1261.6	1221.0	1186.0	1182.3
72.5°	1129.7	1137.1	1156.4	1203.5	1339.0	1423.0	1358.4	1286.5	1243.1	1208.1	1203.5
74°	1079.9	1088.2	1116.8	1176.7	1329.8	1424.8	1356.6	1261.6	1193.3	1150.0	1150.0
75°	1023.6	1034.7	1068.8	1133.4	1310.5	1414.7	1337.2	1221.9	1126.9	1076.2	1079.0
77.5°	789.4	813.4	850.3	951.7	1175.8	1328.0	1188.7	980.3	828.1	752.5	750.7
80°	225.0	258.2	342.1	568.1	893.6	1057.8	873.3	580.1	409.5	311.7	299.7
82.5°	54.4	63.6	87.6	160.5	381.8	597.6	432.5	190.0	114.4	74.7	59.9
85°	23.1	24.9	39.7	55.3	105.1	158.6	100.5	64.6	47.0	21.2	20.3
87.5°	8.3	9.2	14.8	14.8	22.1	12.9	23.1	15.7	16.6	5.5	5.5
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)