

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: P595027

Luminaire Tested: **IST-PA1B-727-U-5WQ**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595027  
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-727-U-5WQ  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 70 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: 4413 lumens  
Efficiency: N/A  
Efficacy: 121.2 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

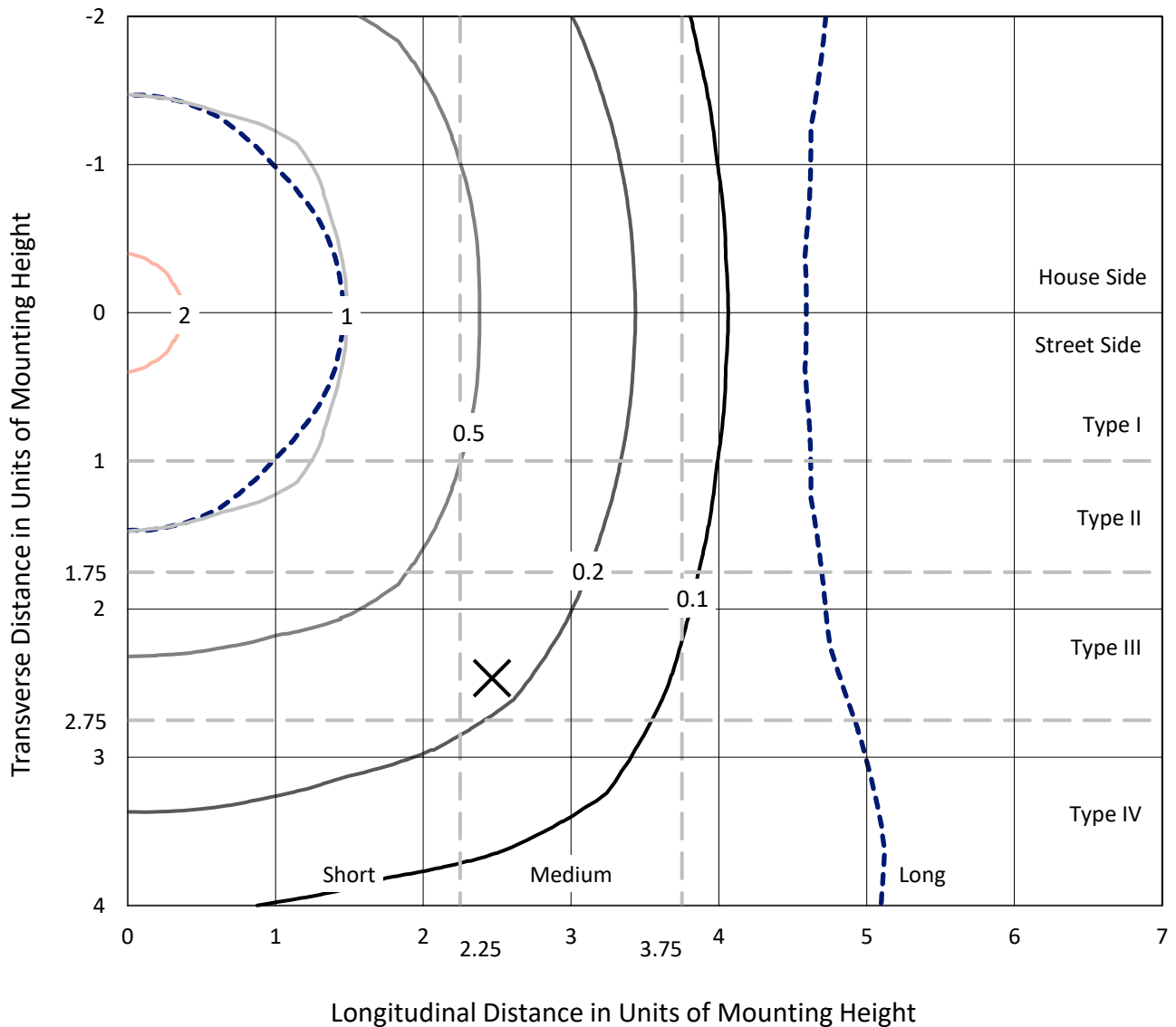
Input Watts (W): 36.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

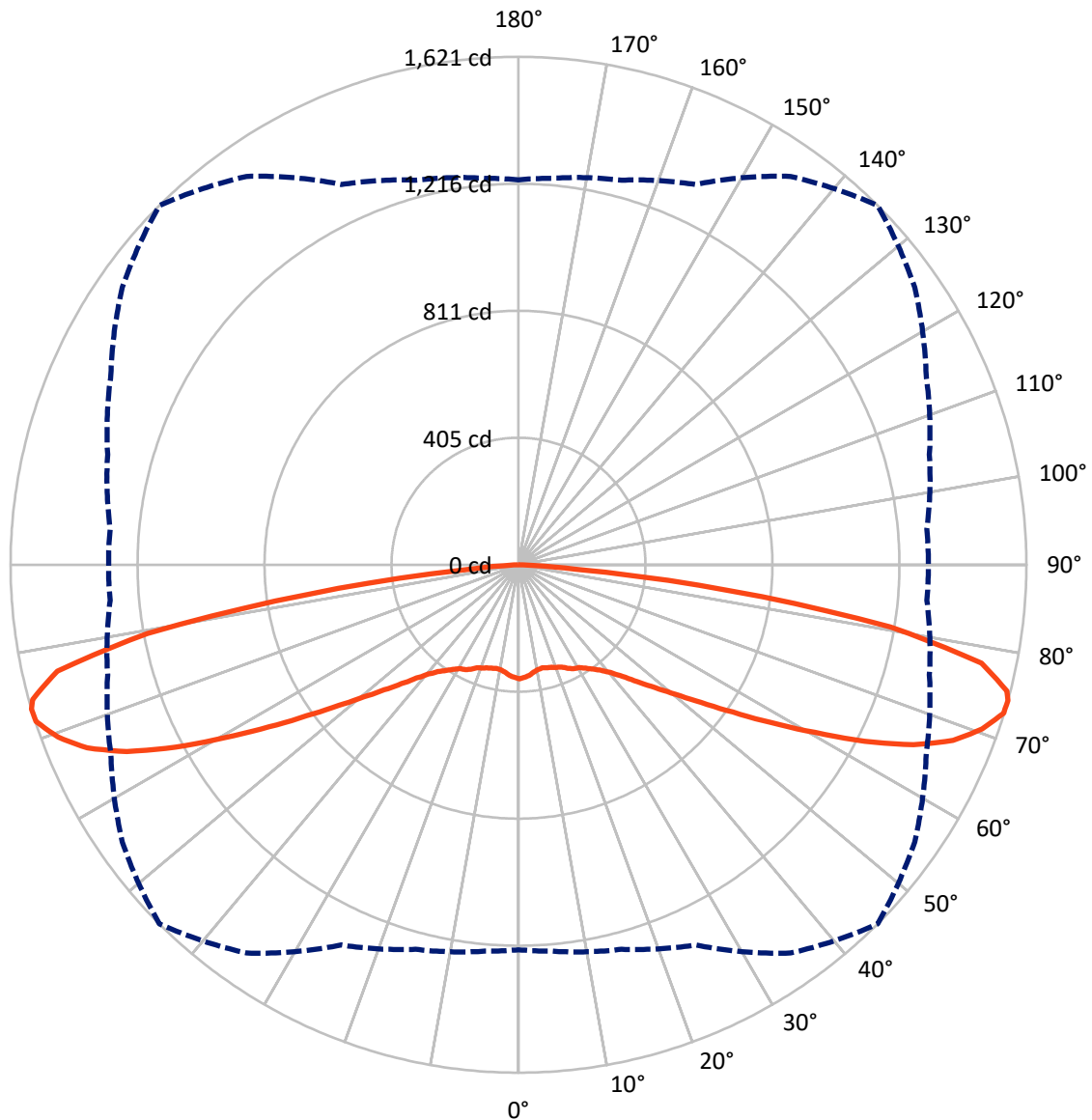
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 2.5 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	2206.5	0.0	2206.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2206.5	0.0	2206.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	4413.0	0.0	4413.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	33.4	0.8
10°-20°	97.8	2.2
20°-30°	168.8	3.8
30°-40°	258.6	5.9
40°-50°	420.7	9.5
50°-60°	729.6	16.5
60°-70°	1208.3	27.4
70°-80°	1307.4	29.6
80°-90°	188.4	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°	4413.0	100.0
0°-180°	4413.0	100.0

**Coefficient of Utilization**



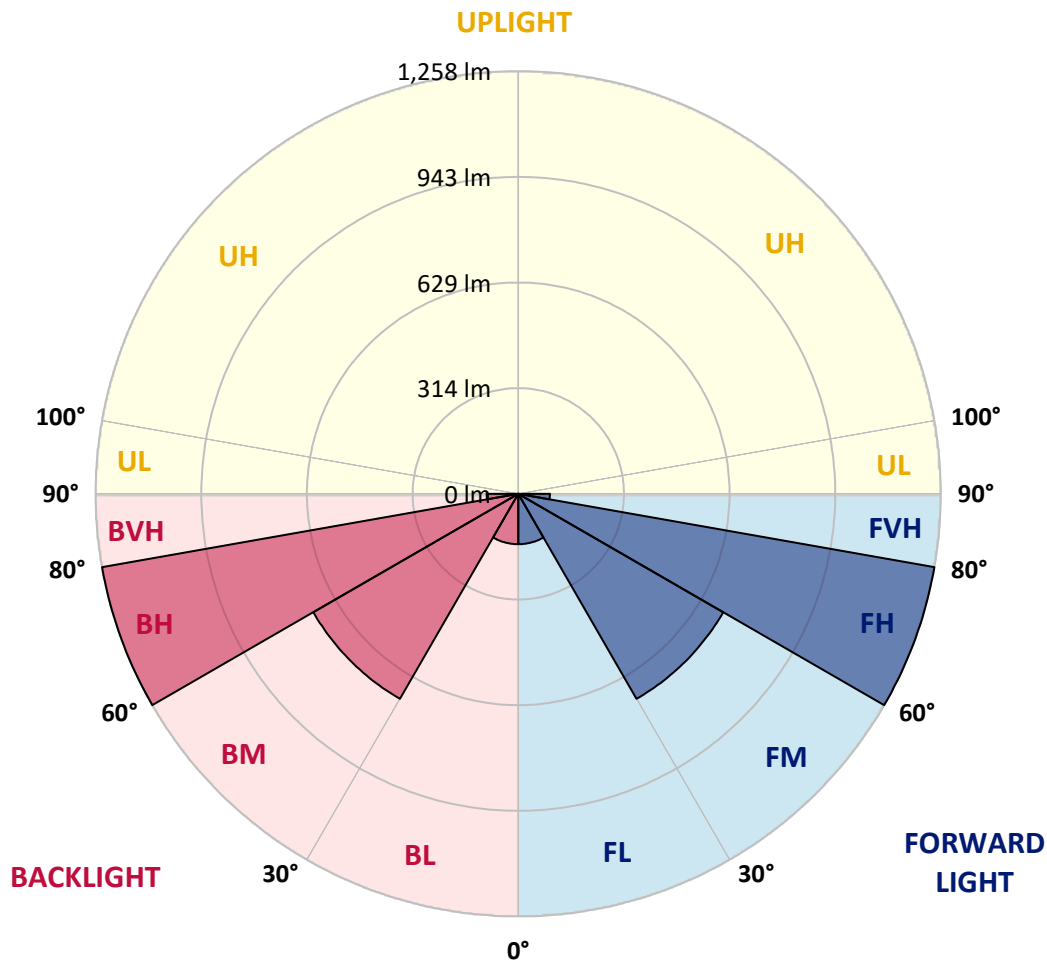
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	150.0	3.4			
FM (30°-60°)	704.5	16.0			
FH (60°-80°)	1257.8	28.5			G1/1800
FVH (80°-90°)	94.2	2.1			G1/100
BL (0°-30°)	150.0	3.4	B1/500		
BM (30°-60°)	704.5	16.0	B1/1000		
BH (60°-80°)	1257.8	28.5	B3/2500		G1/1800
BVH (80°-90°)	94.2	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°	364.1	364.1	364.1	364.1	364.1	364.1	364.1	364.1	364.1	364.1	364.1
2.5°	358.8	359.9	359.9	358.8	359.9	359.9	359.9	360.9	359.9	362.0	360.9
5°	353.6	353.6	354.6	353.6	353.6	354.6	353.6	355.7	354.6	356.7	354.6
7.5°	345.2	345.2	345.2	345.2	346.2	346.2	346.2	348.3	348.3	348.3	347.3
10°	343.1	342.0	342.0	339.9	339.9	339.9	338.9	342.0	343.1	345.2	344.1
12.5°	344.1	344.1	342.0	339.9	338.9	337.8	337.8	341.0	344.1	345.2	345.2
15°	348.3	348.3	345.2	341.0	341.0	341.0	339.9	341.0	346.2	348.3	346.2
17.5°	351.5	350.4	347.3	345.2	345.2	344.1	344.1	344.1	347.3	350.4	350.4
20°	356.7	356.7	352.5	350.4	350.4	349.4	348.3	347.3	350.4	354.6	353.6
22.5°	364.1	362.0	358.8	356.7	355.7	354.6	352.5	353.6	355.7	358.8	358.8
25°	369.3	369.3	366.2	365.1	366.2	366.2	363.0	360.9	362.0	365.1	365.1
27.5°	371.4	371.4	369.3	369.3	373.5	375.6	371.4	367.2	365.1	368.3	367.2
30°	379.8	379.8	377.7	376.6	379.8	380.8	378.7	375.6	374.5	377.7	376.6
32.5°	394.5	393.4	390.3	387.1	388.2	393.4	389.2	388.2	388.2	391.3	392.4
35°	411.3	409.2	406.0	402.9	403.9	409.2	405.0	405.0	406.0	410.2	410.2
37.5°	435.4	433.3	429.1	421.8	420.7	427.0	426.0	427.0	431.2	433.3	435.4
40°	461.6	460.6	455.3	449.0	448.0	452.2	453.2	455.3	459.5	461.6	462.7
42.5°	499.4	497.3	488.9	482.6	481.6	486.8	488.9	491.0	496.3	498.4	500.4
45°	545.6	544.5	535.1	527.7	524.6	531.9	531.9	534.0	539.3	543.5	543.5
47.5°	595.9	594.9	587.5	579.1	580.2	585.4	584.4	585.4	589.6	593.8	597.0
50°	652.6	649.4	641.0	638.9	644.2	649.4	645.2	644.2	650.5	652.6	651.5
52.5°	714.5	711.3	707.1	707.1	719.7	729.2	726.0	716.6	716.6	715.5	714.5
55°	787.9	785.8	784.8	790.0	811.0	829.9	818.3	800.5	793.2	789.0	791.1
57.5°	864.5	859.3	868.7	880.2	922.2	949.5	931.7	898.1	887.6	879.2	875.0
60°	942.1	940.0	953.7	981.0	1040.8	1086.9	1062.8	1007.2	988.3	969.4	969.4
62.5°	1017.7	1015.6	1035.5	1077.5	1171.9	1240.1	1196.0	1125.7	1089.0	1060.7	1056.5
65°	1109.0	1105.8	1127.8	1173.0	1298.9	1384.9	1329.3	1237.0	1192.9	1154.1	1148.8
67.5°	1183.5	1183.5	1212.8	1268.4	1405.9	1496.1	1426.9	1347.1	1295.7	1255.8	1251.6
70°	1254.8	1261.1	1283.1	1337.7	1487.7	1569.5	1506.6	1435.2	1389.1	1349.2	1345.0
72.5°	1285.2	1293.6	1315.6	1369.2	1523.4	1618.9	1545.4	1463.6	1414.3	1374.4	1369.2
74°	1228.6	1238.0	1270.5	1338.7	1512.9	1621.0	1543.3	1435.2	1357.6	1308.3	1308.3
75°	1164.6	1177.2	1216.0	1289.4	1490.9	1609.4	1521.3	1390.1	1282.1	1224.4	1227.5
77.5°	898.1	925.4	967.3	1082.7	1337.7	1510.8	1352.4	1115.3	942.1	856.1	854.0
80°	256.0	293.8	389.2	646.3	1016.6	1203.4	993.6	659.9	465.8	354.6	341.0
82.5°	61.9	72.4	99.7	182.6	434.4	679.9	492.1	216.1	130.1	85.0	68.2
85°	26.2	28.3	45.1	62.9	119.6	180.5	114.4	73.4	53.5	24.1	23.1
87.5°	9.4	10.5	16.8	16.8	25.2	14.7	26.2	17.8	18.9	6.3	6.3
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)