

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: P594937

Luminaire Tested: **IST-PA1A-727-U-5WQ**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594937  
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-PA1A-727-U-5WQ  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 70 CRI, 2700K, 350mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3518 lumens  
Efficiency: N/A  
Efficacy: 122.2 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): 28.8  
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

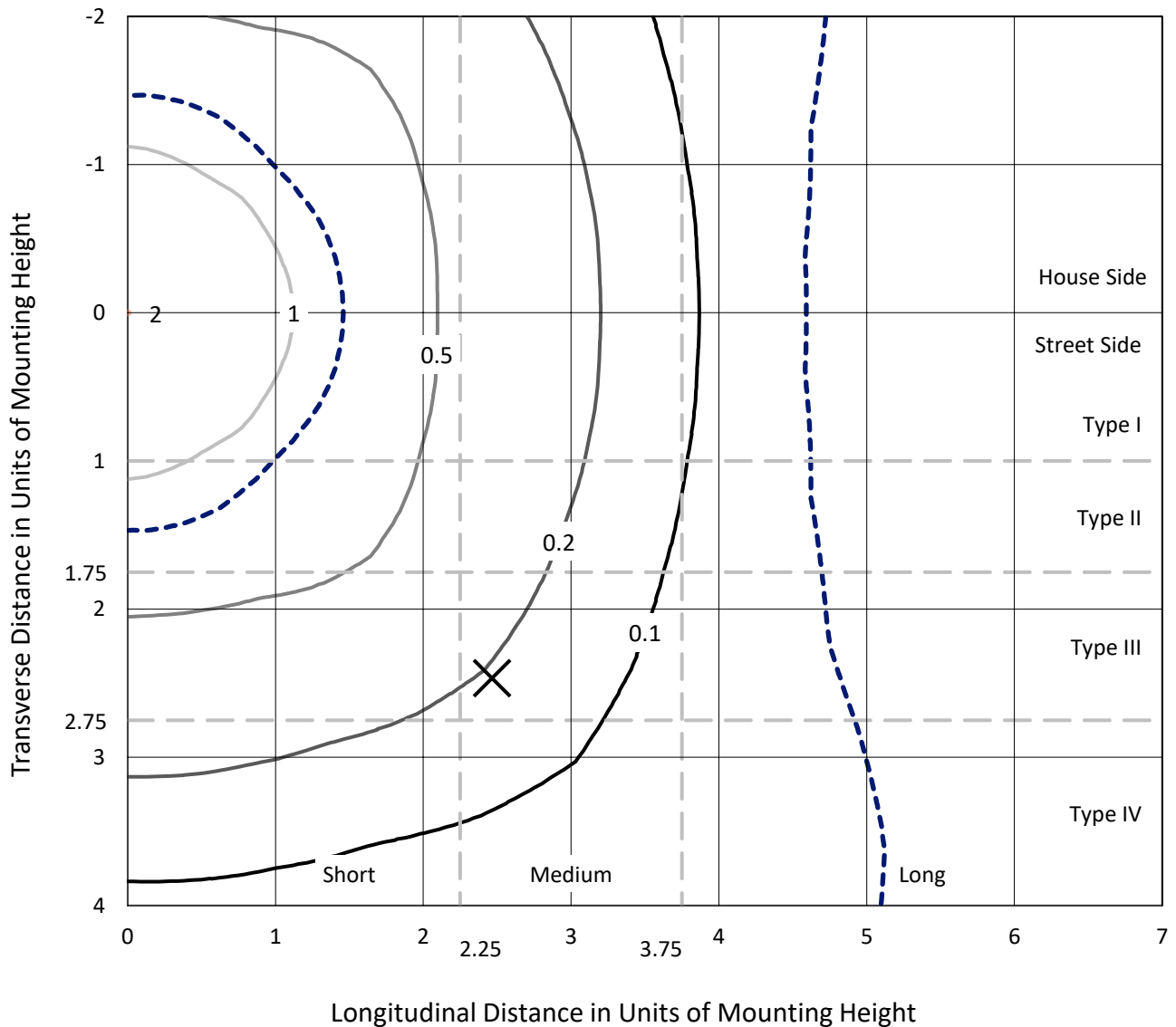




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### Iso-Footcandle Lines of Horizontal Illumination

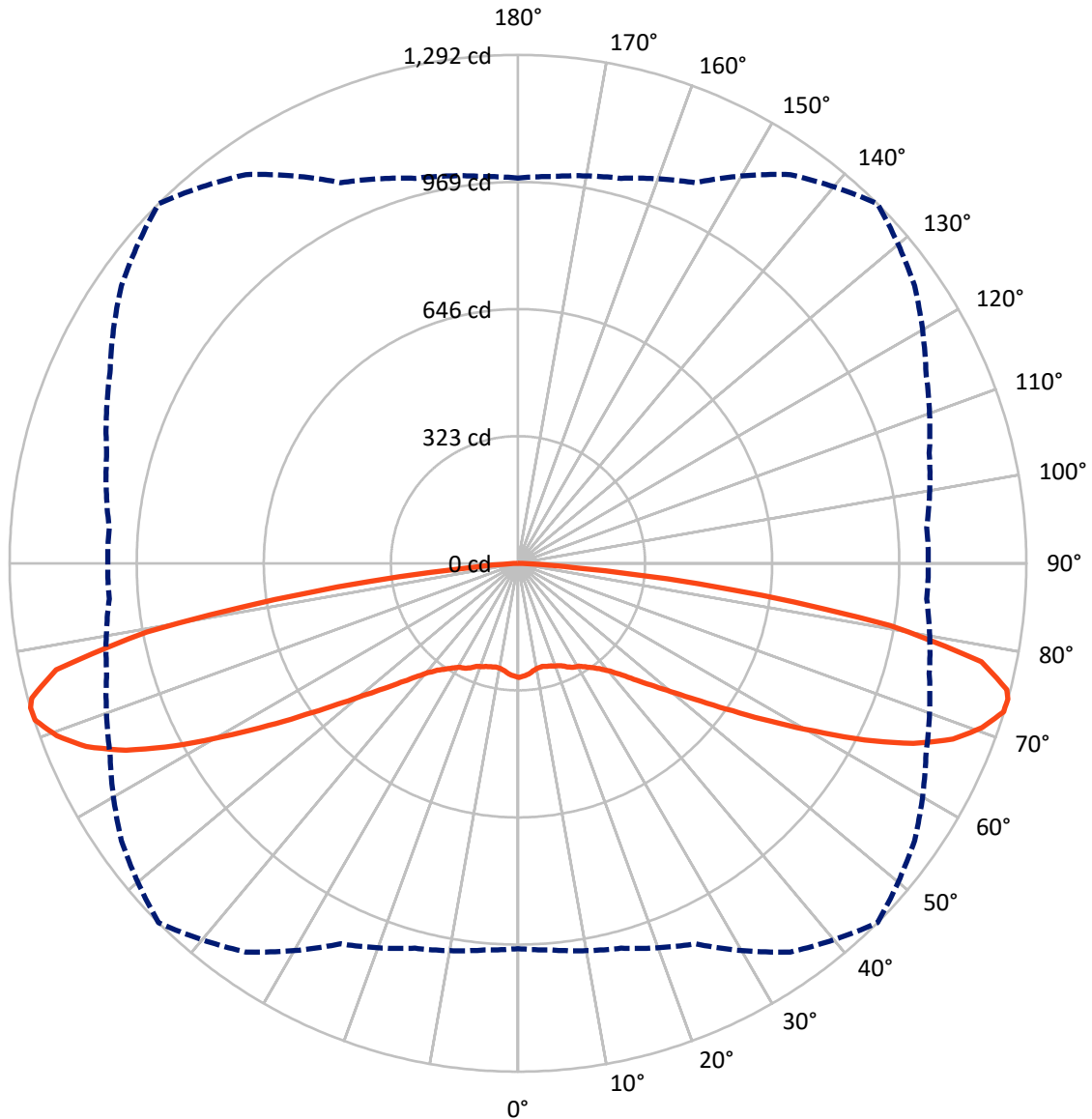
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 2 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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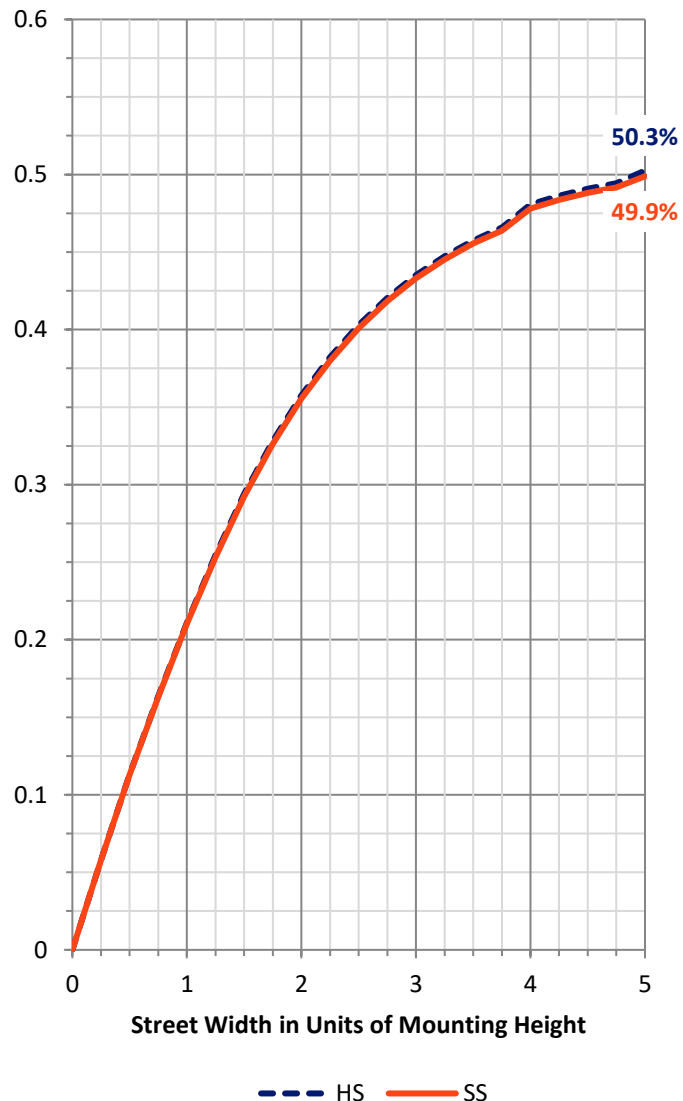
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1759.0	0.0	1759.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	1759.0	0.0	1759.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	3518.0	0.0	3518.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	26.6	0.8
10°-20°	77.9	2.2
20°-30°	134.6	3.8
30°-40°	206.2	5.9
40°-50°	335.4	9.5
50°-60°	581.6	16.5
60°-70°	963.3	27.4
70°-80°	1042.2	29.6
80°-90°	150.2	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°	3518.0	100.0
0°-180°	3518.0	100.0

**Coefficient of Utilization**



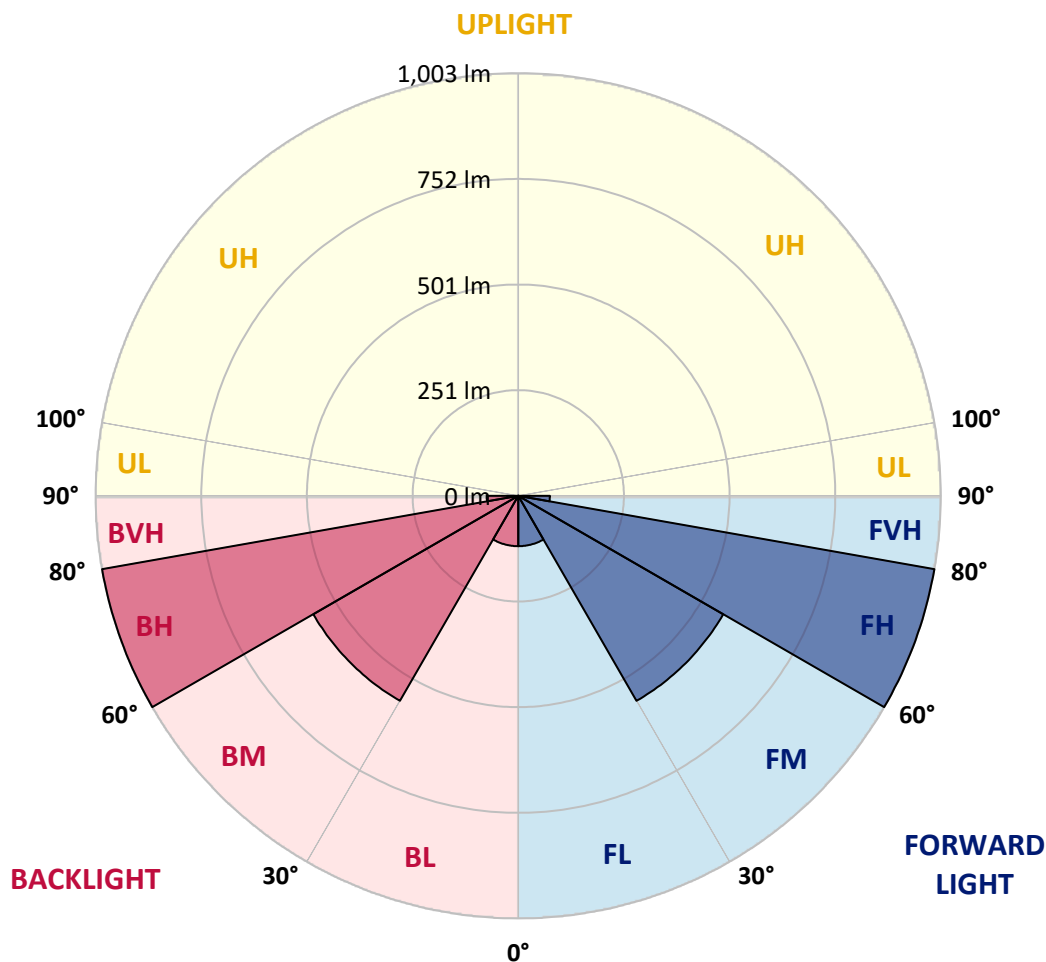
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	119.6	3.4			
FM (30°-60°)	561.6	16.0			
FH (60°-80°)	1002.7	28.5			G1/1800
FVH (80°-90°)	75.1	2.1			G1/100
BL (0°-30°)	119.6	3.4	B1/500		
BM (30°-60°)	561.6	16.0	B1/1000		
BH (60°-80°)	1002.7	28.5	B3/2500		G1/1800
BVH (80°-90°)	75.1	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°	290.2	290.2	290.2	290.2	290.2	290.2	290.2	290.2	290.2	290.2	290.2
2.5°	286.0	286.9	286.9	286.0	286.9	286.9	286.9	287.7	286.9	288.6	287.7
5°	281.9	281.9	282.7	281.9	281.9	281.9	281.9	283.5	282.7	284.4	282.7
7.5°	275.2	275.2	275.2	275.2	276.0	276.0	276.0	277.7	277.7	277.7	276.8
10°	273.5	272.7	272.7	271.0	271.0	271.0	270.2	272.7	273.5	275.2	274.3
12.5°	274.3	274.3	272.7	271.0	270.2	269.3	269.3	271.8	274.3	275.2	275.2
15°	277.7	277.7	275.2	271.8	271.8	271.8	271.0	271.8	276.0	277.7	276.0
17.5°	280.2	279.4	276.8	275.2	275.2	274.3	274.3	274.3	276.8	279.4	279.4
20°	284.4	284.4	281.0	279.4	279.4	278.5	277.7	276.8	279.4	282.7	281.9
22.5°	290.2	288.6	286.0	284.4	283.5	282.7	281.0	281.9	283.5	286.0	286.0
25°	294.4	294.4	291.9	291.1	291.9	291.9	289.4	287.7	288.6	291.1	291.1
27.5°	296.1	296.1	294.4	294.4	297.8	299.4	296.1	292.7	291.1	293.6	292.7
30°	302.8	302.8	301.1	300.3	302.8	303.6	301.9	299.4	298.6	301.1	300.3
32.5°	314.5	313.6	311.1	308.6	309.5	313.6	310.3	309.5	309.5	312.0	312.8
35°	327.9	326.2	323.7	321.2	322.0	326.2	322.8	322.8	323.7	327.0	327.0
37.5°	347.1	345.4	342.1	336.2	335.4	340.4	339.6	340.4	343.8	345.4	347.1
40°	368.0	367.2	363.0	358.0	357.1	360.5	361.3	363.0	366.3	368.0	368.8
42.5°	398.1	396.4	389.8	384.7	383.9	388.1	389.8	391.4	395.6	397.3	399.0
45°	434.9	434.1	426.6	420.7	418.2	424.0	424.0	425.7	429.9	433.2	433.2
47.5°	475.1	474.2	468.4	461.7	462.5	466.7	465.9	466.7	470.0	473.4	475.9
50°	520.2	517.7	511.0	509.4	513.5	517.7	514.4	513.5	518.6	520.2	519.4
52.5°	569.6	567.1	563.7	563.7	573.8	581.3	578.8	571.2	571.2	570.4	569.6
55°	628.1	626.4	625.6	629.8	646.5	661.6	652.4	638.2	632.3	629.0	630.6
57.5°	689.2	685.0	692.5	701.7	735.2	756.9	742.7	715.9	707.6	700.9	697.5
60°	751.1	749.4	760.3	782.0	829.7	866.5	847.3	802.9	787.9	772.8	772.8
62.5°	811.3	809.6	825.5	859.0	934.2	988.6	953.5	897.4	868.2	845.6	842.2
65°	884.1	881.5	899.1	935.1	1035.4	1104.0	1059.7	986.1	951.0	920.0	915.8
67.5°	943.4	943.4	966.9	1011.2	1120.7	1192.7	1137.5	1073.9	1032.9	1001.1	997.8
70°	1000.3	1005.3	1022.9	1066.4	1186.0	1251.2	1201.0	1144.2	1107.4	1075.6	1072.2
72.5°	1024.6	1031.3	1048.8	1091.5	1214.4	1290.5	1232.0	1166.7	1127.4	1095.7	1091.5
74°	979.4	986.9	1012.9	1067.2	1206.1	1292.2	1230.3	1144.2	1082.3	1043.0	1043.0
75°	928.4	938.4	969.4	1027.9	1188.5	1283.0	1212.8	1108.2	1022.1	976.1	978.6
77.5°	715.9	737.7	771.1	863.1	1066.4	1204.4	1078.1	889.1	751.1	682.5	680.8
80°	204.1	234.2	310.3	515.2	810.5	959.3	792.1	526.1	371.4	282.7	271.8
82.5°	49.3	57.7	79.5	145.5	346.3	542.0	392.3	172.3	103.7	67.7	54.4
85°	20.9	22.6	36.0	50.2	95.3	143.9	91.2	58.5	42.7	19.2	18.4
87.5°	7.5	8.4	13.4	13.4	20.1	11.7	20.9	14.2	15.1	5.0	5.0
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)