

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: P595000

Luminaire Tested: **IST-PA1A-830-U-5WQ**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595000  
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-830-U-5WQ  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 80 CRI, 3000K, 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: 3342 lumens  
Efficiency: N/A  
Efficacy: 116.0 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type V - Medium  
BUG Rating: B2 - U0 - G1

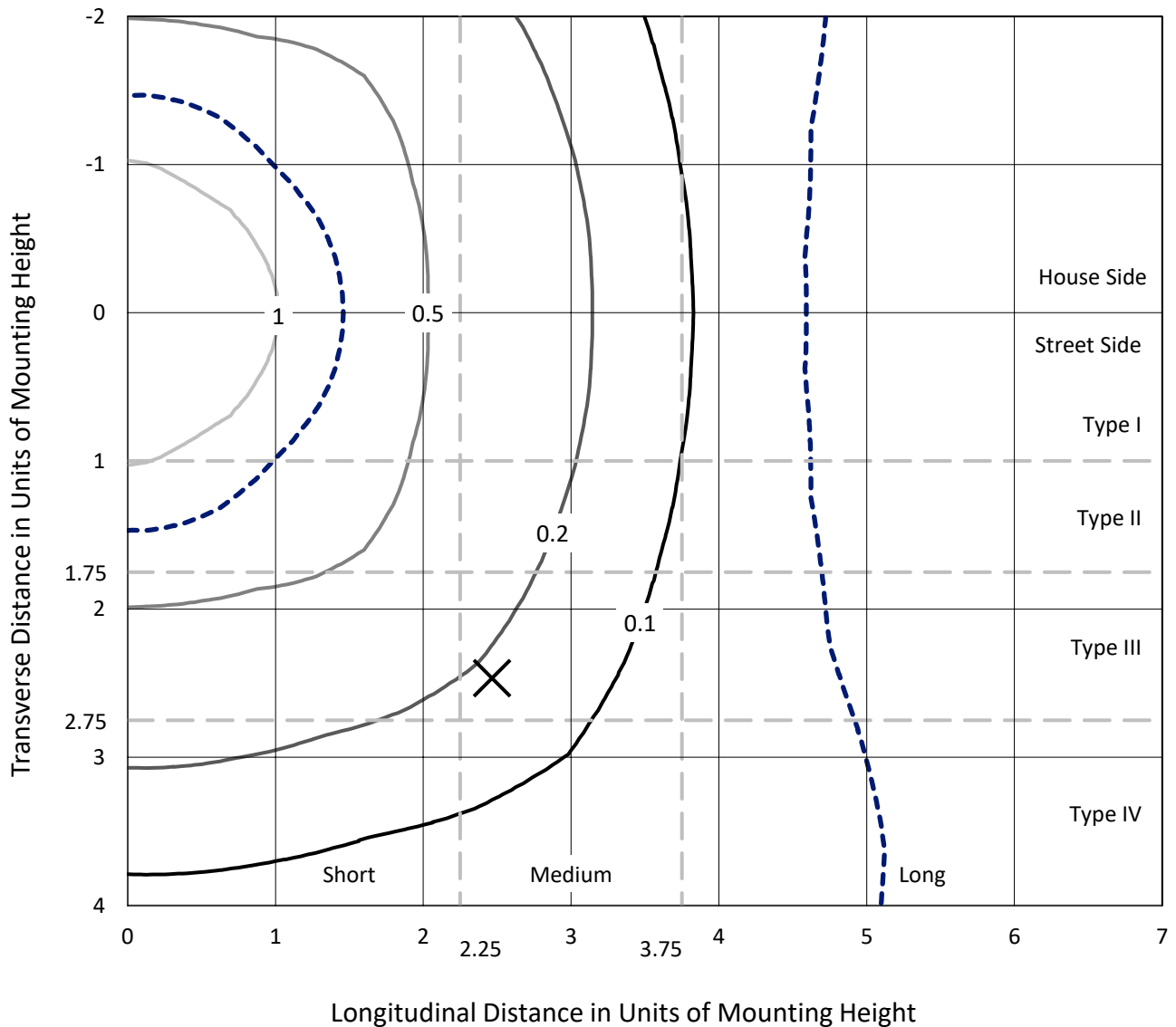
Input Watts (W): 28.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

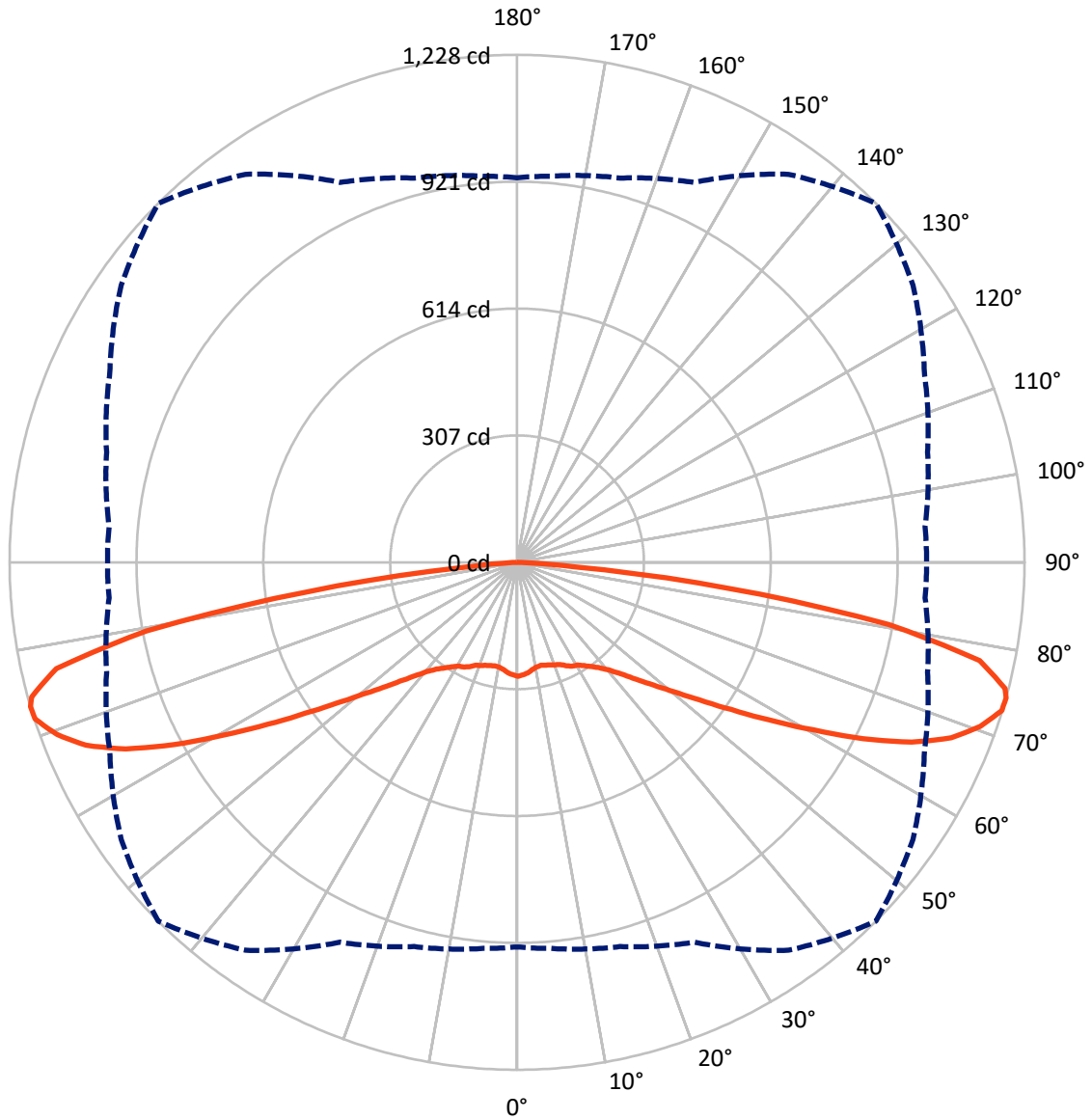
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 1.9 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	1671.0	0.0	1671.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	1671.0	0.0	1671.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	3342.0	0.0	3342.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	25.3	0.8
10°-20°	74.0	2.2
20°-30°	127.9	3.8
30°-40°	195.9	5.9
40°-50°	318.6	9.5
50°-60°	552.5	16.5
60°-70°	915.1	27.4
70°-80°	990.1	29.6
80°-90°	142.7	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°	3342.0	100.0
0°-180°	3342.0	100.0

**Coefficient of Utilization**

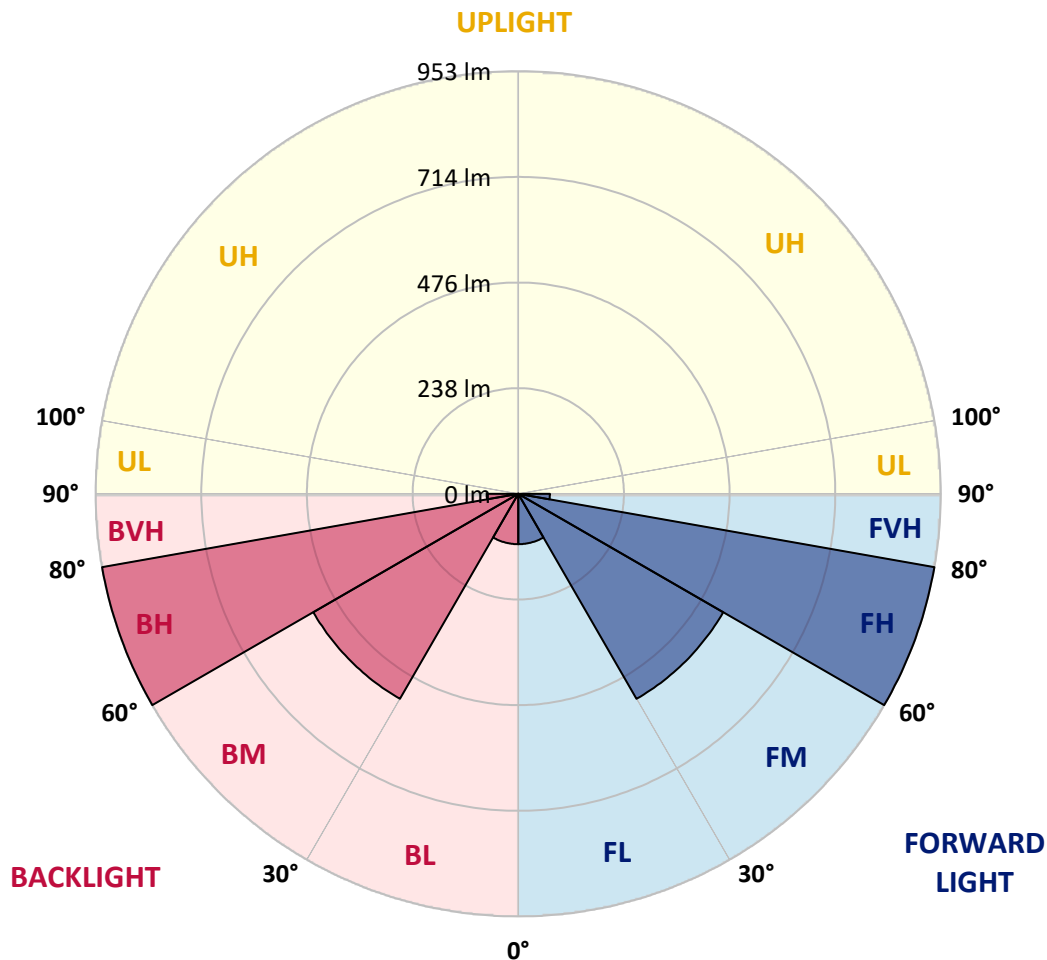


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	113.6	3.4			
FM (30°-60°)	533.5	16.0			
FH (60°-80°)	952.6	28.5			G1/1800
FVH (80°-90°)	71.3	2.1			G1/100
BL (0°-30°)	113.6	3.4	B1/500		
BM (30°-60°)	533.5	16.0	B1/1000		
BH (60°-80°)	952.6	28.5	B2/1000		G1/1800
BVH (80°-90°)	71.3	2.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**  
 Type V Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	275.7	275.7	275.7	275.7	275.7	275.7	275.7	275.7	275.7	275.7	275.7
2.5°	271.7	272.5	272.5	271.7	272.5	272.5	272.5	273.3	272.5	274.1	273.3
5°	267.8	267.8	268.6	267.8	267.8	268.6	267.8	269.3	268.6	270.1	268.6
7.5°	261.4	261.4	261.4	261.4	262.2	262.2	262.2	263.8	263.8	263.8	263.0
10°	259.8	259.0	259.0	257.4	257.4	257.4	256.6	259.0	259.8	261.4	260.6
12.5°	260.6	260.6	259.0	257.4	256.6	255.8	255.8	258.2	260.6	261.4	261.4
15°	263.8	263.8	261.4	258.2	258.2	258.2	257.4	258.2	262.2	263.8	262.2
17.5°	266.2	265.4	263.0	261.4	261.4	260.6	260.6	260.6	263.0	265.4	265.4
20°	270.1	270.1	267.0	265.4	265.4	264.6	263.8	263.0	265.4	268.6	267.8
22.5°	275.7	274.1	271.7	270.1	269.3	268.6	267.0	267.8	269.3	271.7	271.7
25°	279.7	279.7	277.3	276.5	277.3	277.3	274.9	273.3	274.1	276.5	276.5
27.5°	281.3	281.3	279.7	279.7	282.9	284.4	281.3	278.1	276.5	278.9	278.1
30°	287.6	287.6	286.0	285.2	287.6	288.4	286.8	284.4	283.6	286.0	285.2
32.5°	298.7	298.0	295.6	293.2	294.0	298.0	294.8	294.0	294.0	296.4	297.2
35°	311.5	309.9	307.5	305.1	305.9	309.9	306.7	306.7	307.5	310.7	310.7
37.5°	329.7	328.1	325.0	319.4	318.6	323.4	322.6	323.4	326.6	328.1	329.7
40°	349.6	348.8	344.8	340.1	339.3	342.4	343.2	344.8	348.0	349.6	350.4
42.5°	378.2	376.6	370.3	365.5	364.7	368.7	370.3	371.8	375.8	377.4	379.0
45°	413.2	412.4	405.2	399.7	397.3	402.8	402.8	404.4	408.4	411.6	411.6
47.5°	451.3	450.5	444.9	438.6	439.4	443.4	442.6	443.4	446.5	449.7	452.1
50°	494.2	491.8	485.5	483.9	487.8	491.8	488.6	487.8	492.6	494.2	493.4
52.5°	541.1	538.7	535.5	535.5	545.1	552.2	549.8	542.7	542.7	541.9	541.1
55°	596.7	595.1	594.3	598.3	614.2	628.5	619.7	606.2	600.7	597.5	599.1
57.5°	654.7	650.7	657.9	666.6	698.4	719.1	705.5	680.1	672.2	665.8	662.6
60°	713.5	711.9	722.2	742.9	788.2	823.1	804.9	762.8	748.5	734.2	734.2
62.5°	770.7	769.1	784.2	816.0	887.5	939.1	905.8	852.5	824.7	803.3	800.1
65°	839.8	837.4	854.1	888.3	983.6	1048.8	1006.7	936.8	903.4	874.0	870.0
67.5°	896.2	896.2	918.5	960.6	1064.7	1133.0	1080.6	1020.2	981.3	951.1	947.9
70°	950.3	955.0	971.7	1013.0	1126.7	1188.6	1141.0	1086.9	1052.0	1021.8	1018.6
72.5°	973.3	979.7	996.3	1036.9	1153.7	1226.0	1170.4	1108.4	1071.0	1040.8	1036.9
74°	930.4	937.6	962.2	1013.8	1145.7	1227.6	1168.8	1086.9	1028.1	990.8	990.8
75°	881.9	891.5	920.9	976.5	1129.0	1218.8	1152.1	1052.8	970.9	927.2	929.6
77.5°	680.1	700.8	732.6	820.0	1013.0	1144.1	1024.2	844.6	713.5	648.3	646.8
80°	193.9	222.5	294.8	489.4	769.9	911.3	752.4	499.8	352.8	268.6	258.2
82.5°	46.9	54.8	75.5	138.2	328.9	514.9	372.6	163.7	98.5	64.4	51.6
85°	19.9	21.5	34.2	47.7	90.6	136.7	86.6	55.6	40.5	18.3	17.5
87.5°	7.2	7.9	12.7	12.7	19.1	11.1	19.9	13.5	14.3	4.8	4.8
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)