

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: P450337

Luminaire Tested: **GALN-SA1A-827-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450337
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1A-827-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3560 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

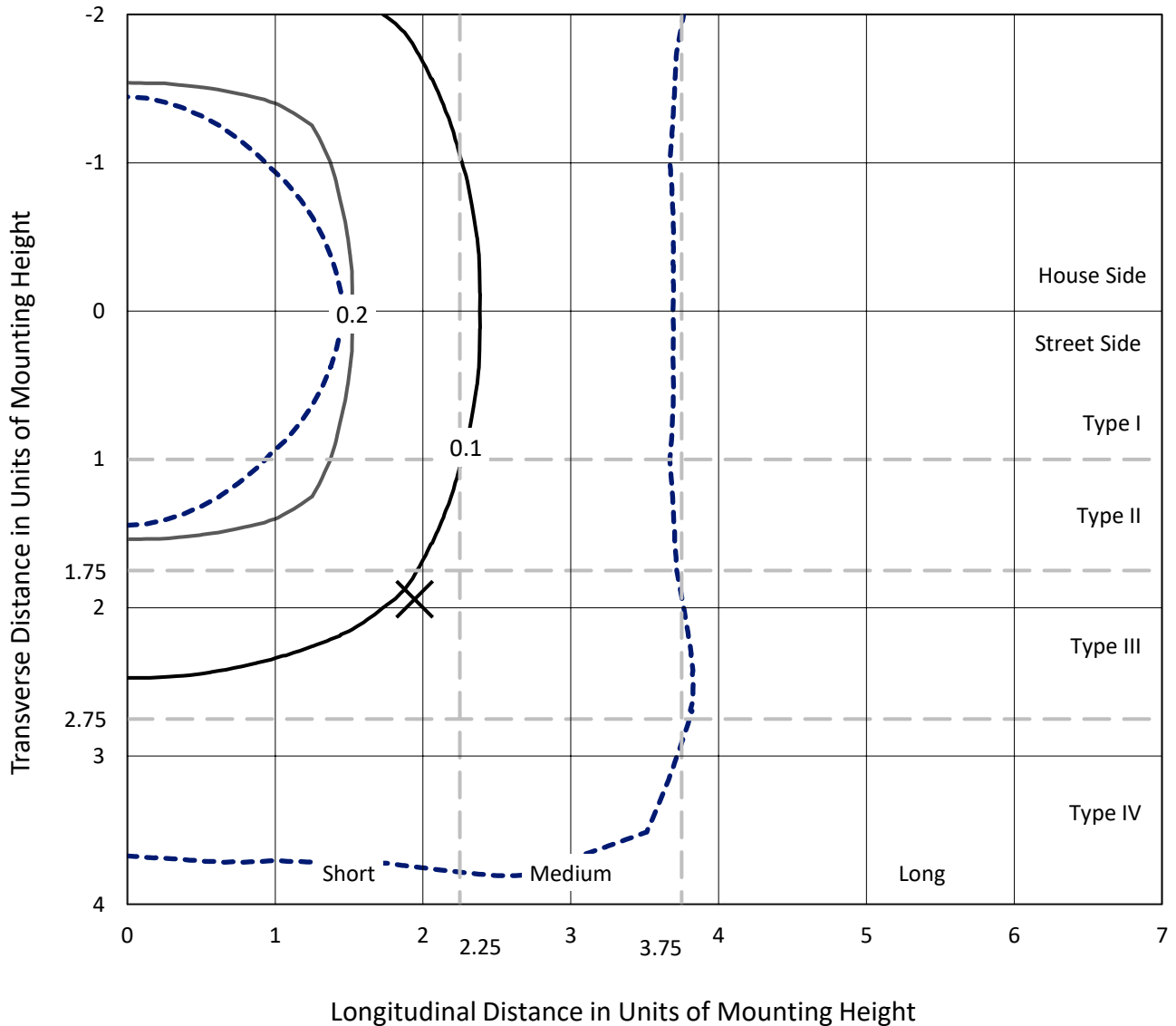
Input Watts (W): 33
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

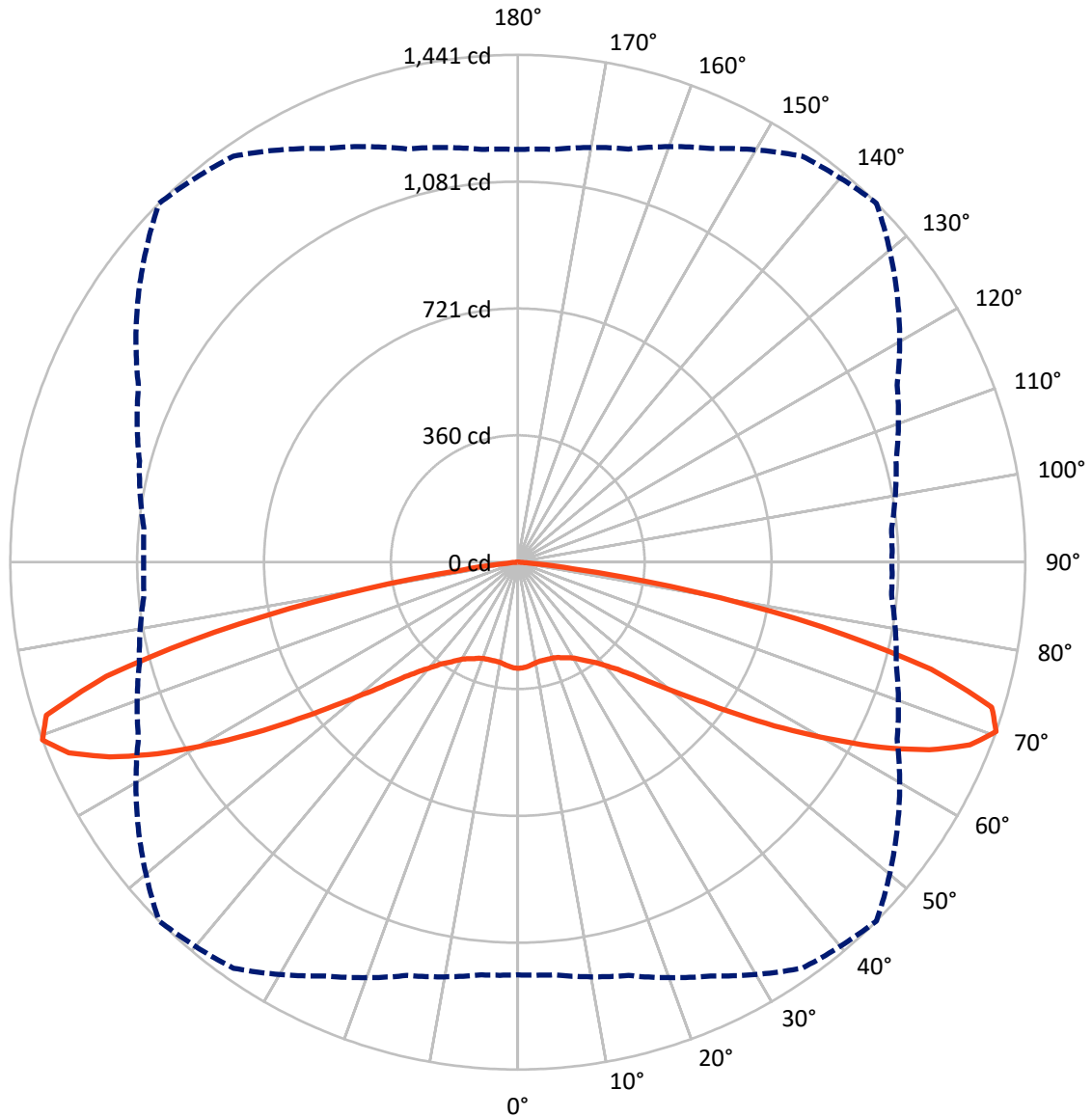
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1780.0	0.0	1780.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1780.0	0.0	1780.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	3560.0	0.0	3560.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.2	0.8
10°-20°	82.5	2.3
20°-30°	140.6	3.9
30°-40°	217.9	6.1
40°-50°	366.8	10.3
50°-60°	667.3	18.7
60°-70°	1129.8	31.7
70°-80°	874.5	24.6
80°-90°	52.4	1.5
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°	3560.0	100.0
0°-180°	3560.0	100.0

Coefficient of Utilization



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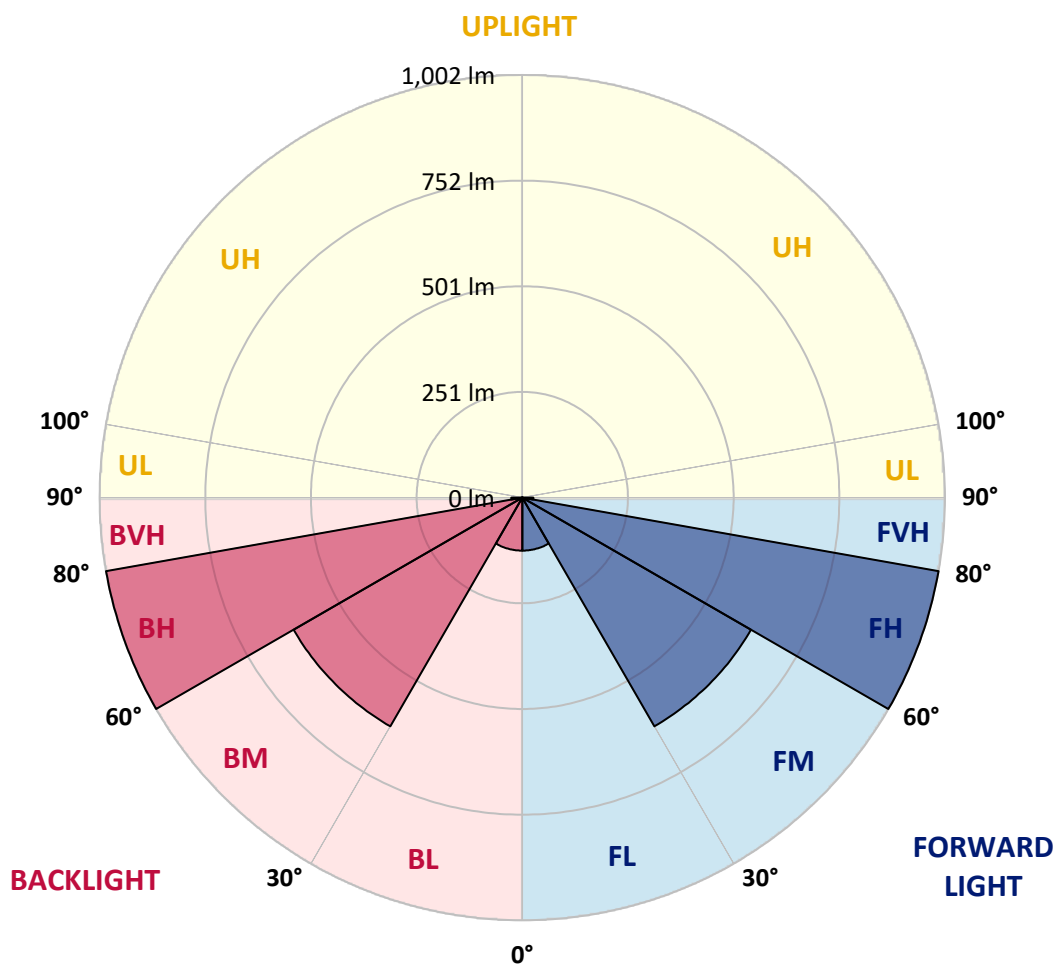
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	125.6	3.5			
FM (30°-60°)	626.0	17.6			
FH (60°-80°)	1002.1	28.2			G1/1800
FVH (80°-90°)	26.2	0.7			G1/100
BL (0°-30°)	125.6	3.5	B1/500		
BM (30°-60°)	626.0	17.6	B1/1000		
BH (60°-80°)	1002.1	28.2	B3/2500		G1/1800
BVH (80°-90°)	26.2	0.7			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	301.4	301.4	301.4	301.4	301.4	301.4	301.4	301.4	301.4	301.4	301.4
2.5°	300.6	300.8	300.8	300.5	300.3	300.3	300.1	300.1	300.6	300.8	301.0
5°	298.0	298.0	298.0	297.8	297.4	297.4	297.1	297.1	297.3	297.8	297.4
7.5°	294.4	294.8	294.8	294.1	293.5	293.5	293.3	293.5	293.7	294.3	294.1
10°	293.3	293.5	292.6	291.2	290.3	289.7	289.9	290.3	291.2	291.6	291.8
12.5°	294.1	294.1	292.4	290.5	288.8	288.0	287.9	289.2	290.9	292.0	292.4
15°	295.0	294.6	292.6	290.1	288.4	288.2	288.0	289.0	291.4	293.7	293.9
17.5°	295.6	295.4	292.7	289.7	288.8	288.8	288.6	289.4	292.0	294.8	295.0
20°	297.4	296.9	293.9	290.7	289.9	290.3	289.7	290.7	293.5	296.9	297.6
22.5°	301.2	300.6	297.6	294.4	294.1	294.1	293.9	294.8	297.8	301.4	302.0
25°	305.7	305.2	302.3	300.1	300.5	301.2	300.8	301.0	303.5	306.5	307.4
27.5°	311.7	310.8	308.4	306.5	307.6	307.6	307.6	307.4	308.9	311.7	312.7
30°	319.1	318.7	316.1	315.9	316.8	315.9	315.9	316.1	316.3	318.9	319.8
32.5°	328.7	327.9	326.6	326.2	328.8	329.6	327.0	324.5	325.8	328.5	329.0
35°	344.5	343.3	341.4	339.4	341.4	345.0	339.4	337.5	340.9	344.5	344.8
37.5°	365.9	365.3	362.3	358.6	358.4	362.1	356.3	356.1	362.5	366.8	367.4
40°	392.8	393.3	389.6	386.0	384.1	387.1	382.6	384.3	390.5	395.4	395.0
42.5°	430.6	428.5	422.7	419.3	417.2	416.1	415.0	417.6	424.6	429.8	434.0
45°	474.8	474.0	466.7	462.5	458.0	456.3	456.0	460.7	469.1	475.5	476.1
47.5°	524.8	523.1	518.4	514.0	512.4	510.3	508.4	512.0	520.4	525.0	526.3
50°	576.3	576.7	576.7	575.9	577.6	578.0	572.9	574.2	578.9	578.5	578.2
52.5°	635.1	637.2	647.0	647.9	656.0	661.5	652.2	646.8	645.1	634.9	635.7
55°	704.3	706.2	720.9	735.5	757.3	766.6	747.2	730.3	718.2	702.8	703.6
57.5°	790.6	791.6	805.5	833.7	868.3	889.9	855.9	822.4	798.0	783.3	777.5
60°	883.5	884.5	904.8	939.2	992.9	1019.3	977.1	922.4	891.6	869.2	870.7
62.5°	995.0	998.8	1017.0	1064.4	1129.6	1159.1	1103.3	1030.2	988.4	960.6	961.7
65°	1114.4	1120.8	1140.7	1192.8	1253.0	1284.7	1216.3	1131.9	1080.0	1046.0	1049.5
67.5°	1191.9	1197.5	1226.3	1283.8	1358.8	1385.2	1296.8	1198.4	1133.6	1093.0	1085.4
70°	1172.1	1176.8	1215.2	1296.8	1407.9	1441.2	1316.0	1188.7	1112.3	1065.5	1062.5
72.5°	1034.7	1024.9	1080.9	1198.1	1351.9	1407.7	1255.6	1085.6	989.6	941.4	935.8
75°	685.7	707.0	789.7	927.7	1143.7	1212.9	1071.7	871.7	750.8	710.7	704.5
77.5°	229.2	245.6	319.1	525.9	779.7	883.7	780.9	570.1	403.3	324.9	326.4
80°	60.7	60.0	77.7	144.6	336.9	511.8	392.2	193.1	105.7	76.5	72.6
82.5°	21.8	24.4	31.4	40.0	89.3	159.1	112.2	54.2	39.7	29.3	28.4
85°	9.6	9.4	13.5	16.0	22.4	29.7	26.3	22.9	20.1	13.3	12.4
87.5°	2.1	2.1	3.2	2.4	3.9	3.9	4.9	5.8	6.0	3.9	3.2
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)