

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: P450572

Luminaire Tested: **GALN-SA1B-827-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450572
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1B-827-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4367 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

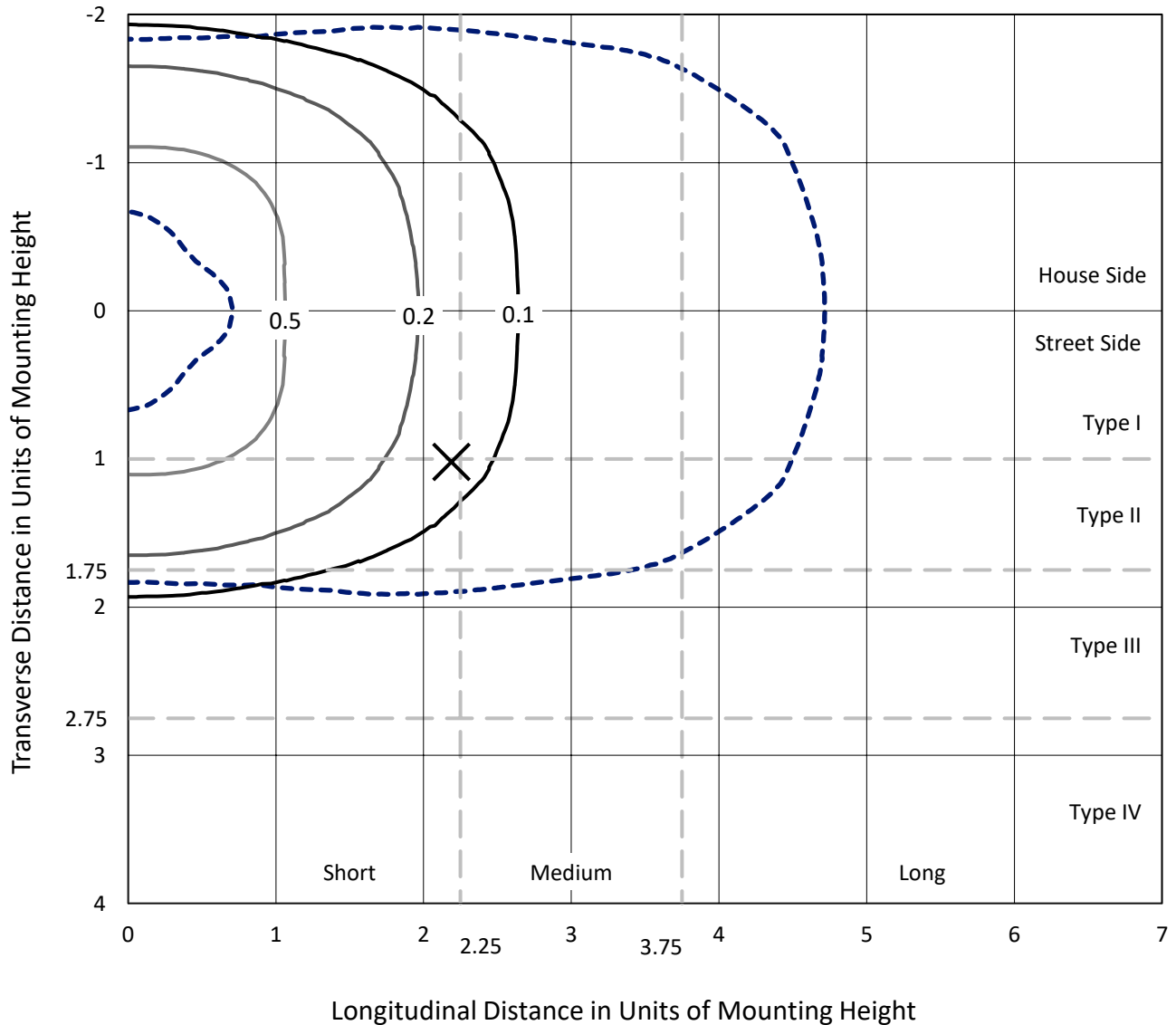
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

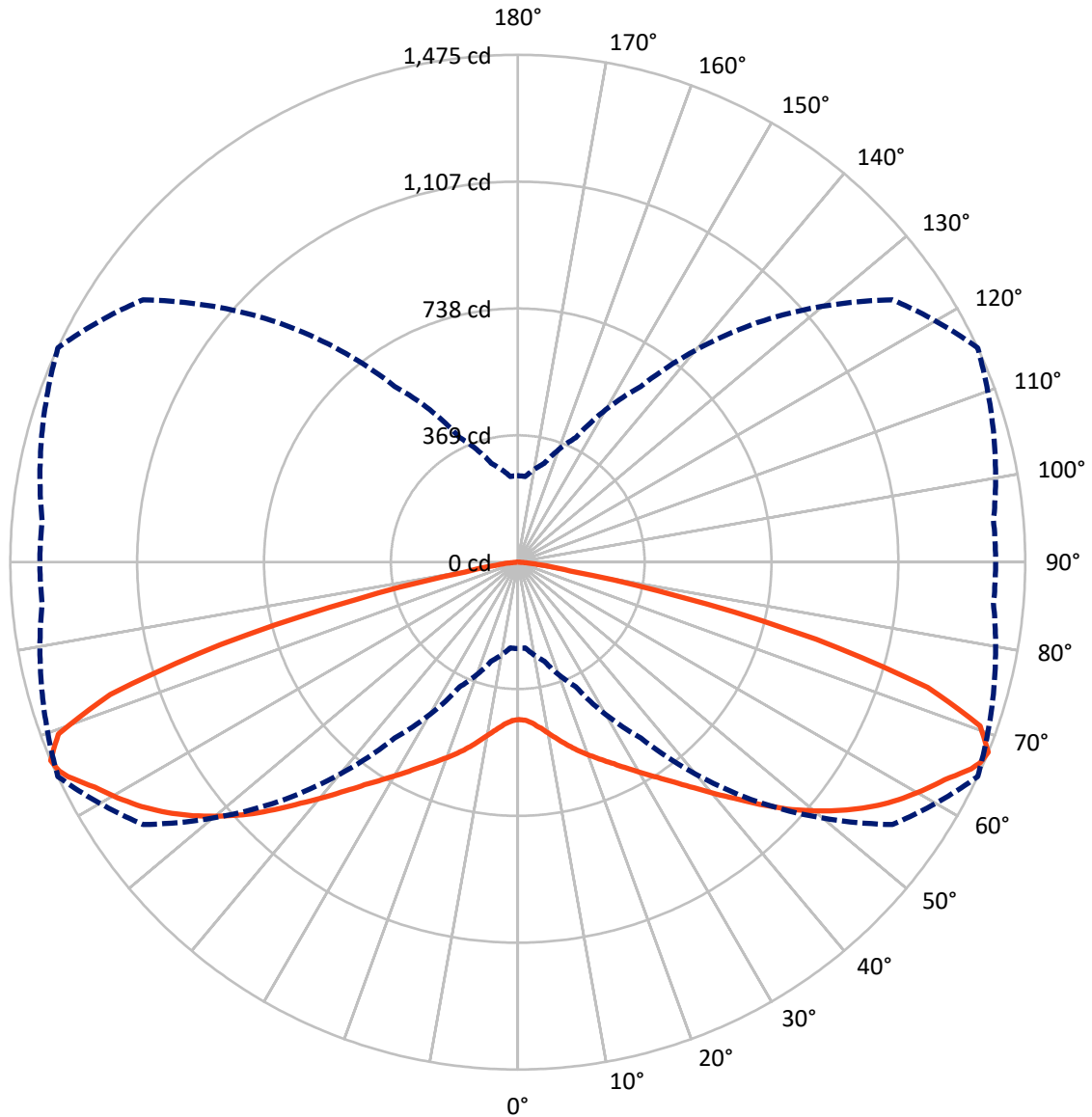
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2183.5	0.0	2183.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2183.5	0.0	2183.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	4367.0	0.0	4367.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.1	1.0
10°-20°	151.0	3.5
20°-30°	295.3	6.8
30°-40°	502.3	11.5
40°-50°	795.1	18.2
50°-60°	1054.2	24.1
60°-70°	994.5	22.8
70°-80°	491.6	11.3
80°-90°	37.9	0.9
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°	4367.0	100.0
0°-180°	4367.0	100.0

Coefficient of Utilization



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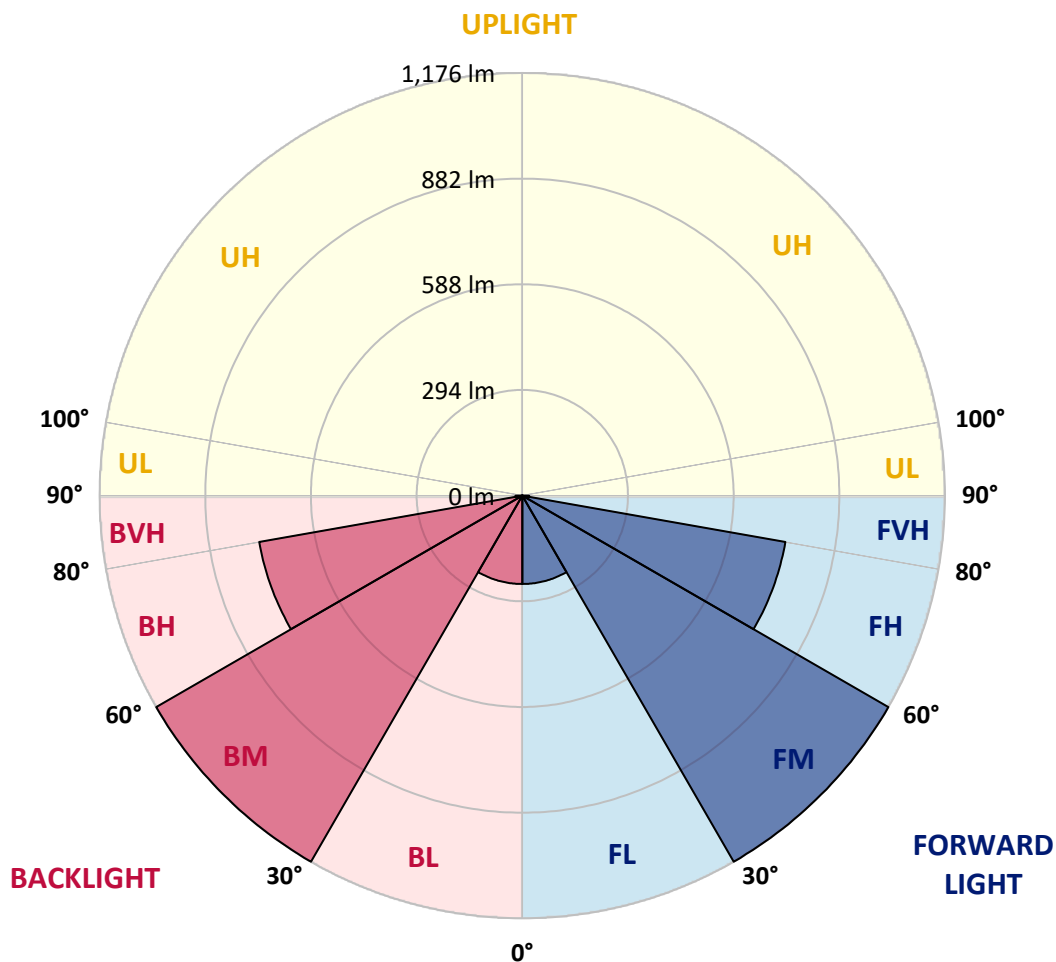
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	245.7	5.6			
FM	(30°-60°)	1175.8	26.9			
FH	(60°-80°)	743.0	17.0			G1/1800
FVH	(80°-90°)	18.9	0.4			G1/100
BL	(0°-30°)	245.7	5.6	B1/500		
BM	(30°-60°)	1175.8	26.9	B2/2500		
BH	(60°-80°)	743.0	17.0	B2/1000		G2/1000
BVH	(80°-90°)	18.9	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	457.4	457.4	457.4	457.4	457.4	457.4	457.4	457.4	457.4	457.4	457.4
2.5°	455.1	455.5	456.0	456.7	457.6	459.0	460.0	460.7	462.6	462.8	462.6
5°	453.4	453.9	455.1	457.2	460.2	464.4	467.7	471.7	474.7	476.8	476.4
7.5°	453.2	454.1	456.0	460.4	466.3	473.5	481.0	487.8	493.7	498.3	497.6
10°	456.9	458.1	461.1	467.7	476.8	487.4	497.9	507.9	516.4	522.4	524.6
12.5°	463.3	464.2	469.8	479.6	492.7	505.8	517.8	530.2	541.9	552.2	552.2
15°	474.3	475.9	482.9	497.2	513.3	528.5	540.7	553.8	566.4	578.1	581.6
17.5°	489.5	491.8	502.3	520.6	541.2	555.2	566.7	577.4	588.4	599.7	601.3
20°	510.3	512.6	526.7	548.7	573.0	589.8	597.6	600.1	605.5	616.3	617.7
22.5°	538.6	540.9	556.6	581.4	608.5	626.8	630.1	624.0	622.6	631.0	631.9
25°	570.6	572.8	590.8	617.4	645.5	665.4	664.5	649.5	641.1	646.2	647.6
27.5°	606.7	609.7	628.0	655.6	686.0	703.5	700.7	679.0	661.0	660.0	660.5
30°	652.8	656.0	673.4	699.8	729.7	745.9	740.0	710.8	682.9	673.6	673.6
32.5°	701.4	709.6	727.2	754.8	778.2	789.9	781.0	745.9	708.9	695.8	695.1
35°	764.8	769.3	786.6	813.5	831.0	840.2	823.1	785.4	742.8	727.4	725.3
37.5°	826.8	830.6	850.7	876.4	897.7	897.3	874.1	832.5	785.0	767.6	766.2
40°	890.2	894.2	917.1	940.8	962.1	960.2	932.1	885.6	835.0	815.6	819.4
42.5°	945.2	949.7	975.6	1009.3	1028.5	1028.0	995.5	943.1	890.5	873.2	876.4
45°	995.3	999.3	1029.5	1068.1	1096.1	1099.6	1064.1	1008.6	954.6	932.4	933.3
47.5°	1030.6	1038.1	1069.7	1113.9	1152.1	1164.5	1129.6	1075.3	1013.1	989.9	991.3
50°	1057.5	1062.2	1096.6	1146.9	1195.1	1220.8	1192.8	1137.1	1071.6	1047.0	1050.3
52.5°	1060.8	1066.4	1103.9	1161.9	1223.6	1262.7	1248.9	1197.4	1131.2	1106.0	1113.0
55°	1034.1	1037.4	1082.1	1152.5	1234.9	1293.8	1297.3	1253.6	1188.1	1168.9	1173.6
57.5°	958.1	966.5	1023.1	1108.8	1219.4	1310.4	1333.6	1304.6	1245.6	1226.7	1234.2
60°	833.4	841.8	898.7	1007.2	1161.2	1302.7	1363.6	1349.8	1297.8	1282.6	1286.6
62.5°	653.0	652.3	722.7	855.8	1045.4	1264.8	1385.8	1393.3	1349.3	1330.1	1336.2
65°	423.2	425.4	493.4	636.9	870.6	1168.4	1390.7	1448.7	1399.8	1370.8	1375.3
66°	340.4	346.7	404.5	536.7	781.4	1105.3	1376.0	1465.1	1415.3	1380.2	1382.3
67.5°	251.3	250.1	297.6	399.6	624.0	985.2	1329.9	1475.4	1432.8	1388.6	1389.5
70°	143.4	143.2	160.0	219.5	366.9	693.7	1120.9	1426.0	1468.4	1419.0	1416.4
72.5°	104.8	104.1	106.5	121.2	179.0	350.2	773.3	1246.3	1450.1	1414.1	1406.8
75°	88.0	87.5	87.0	88.9	100.4	158.6	410.4	896.6	1258.3	1327.3	1319.8
77.5°	71.8	71.8	72.1	71.6	72.1	83.5	170.1	480.6	766.2	855.4	876.2
80°	56.2	55.9	59.9	58.3	54.5	53.6	75.3	154.7	254.3	252.9	208.7
82.5°	41.4	38.6	45.6	44.5	40.2	34.2	44.0	66.0	84.9	55.2	40.9
85°	26.2	26.0	32.3	29.5	24.6	16.1	21.1	28.3	35.1	21.3	17.3
87.5°	4.7	4.4	10.3	7.5	7.5	4.7	5.8	7.7	11.5	8.0	5.8
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)