

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: P450568

Luminaire Tested: **GALN-SA1B-827-U-5NQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450568  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)  
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-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4417 lumens  
Efficiency: N/A  
Efficacy: 100.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B2 - U0 - G0

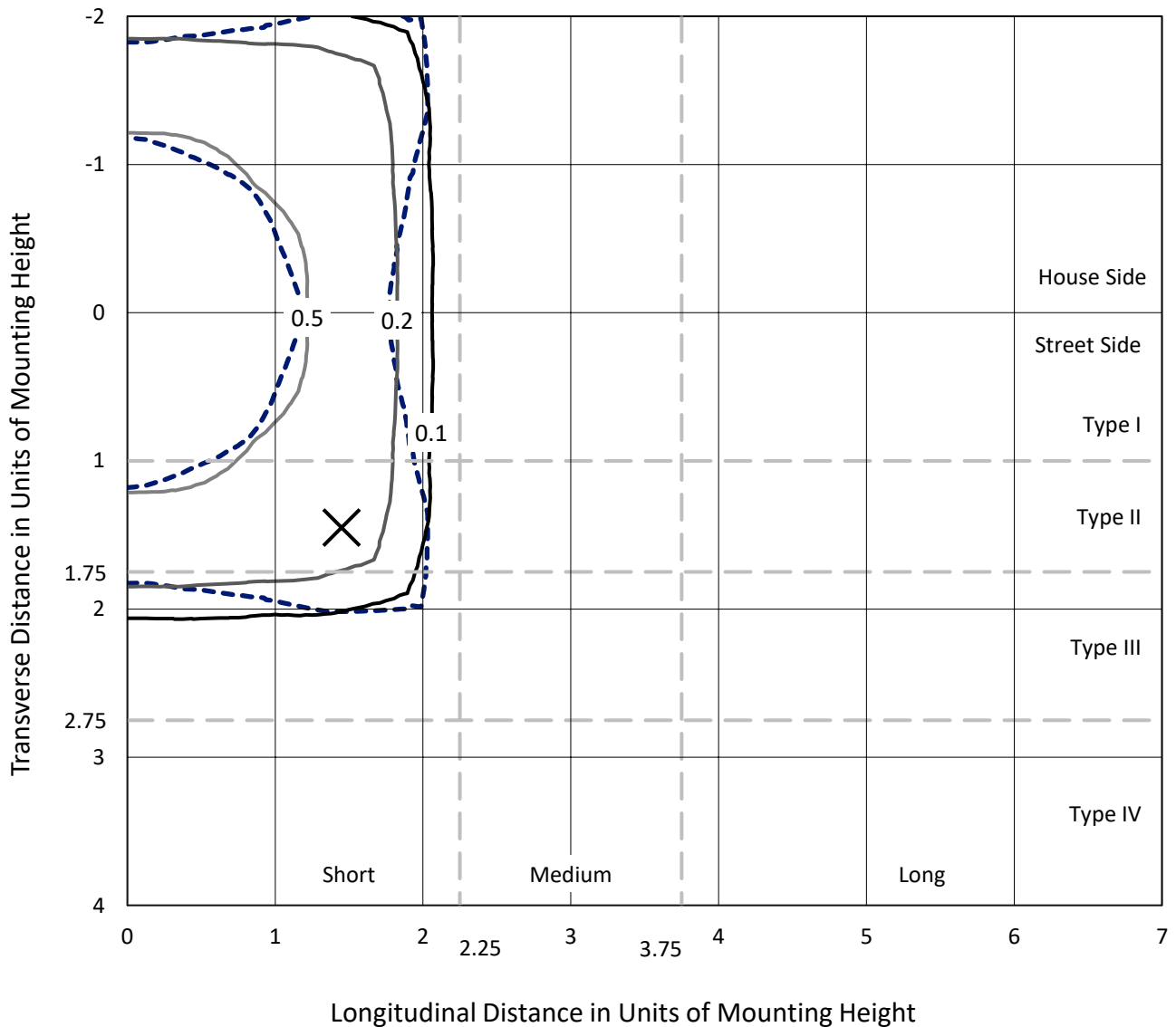
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

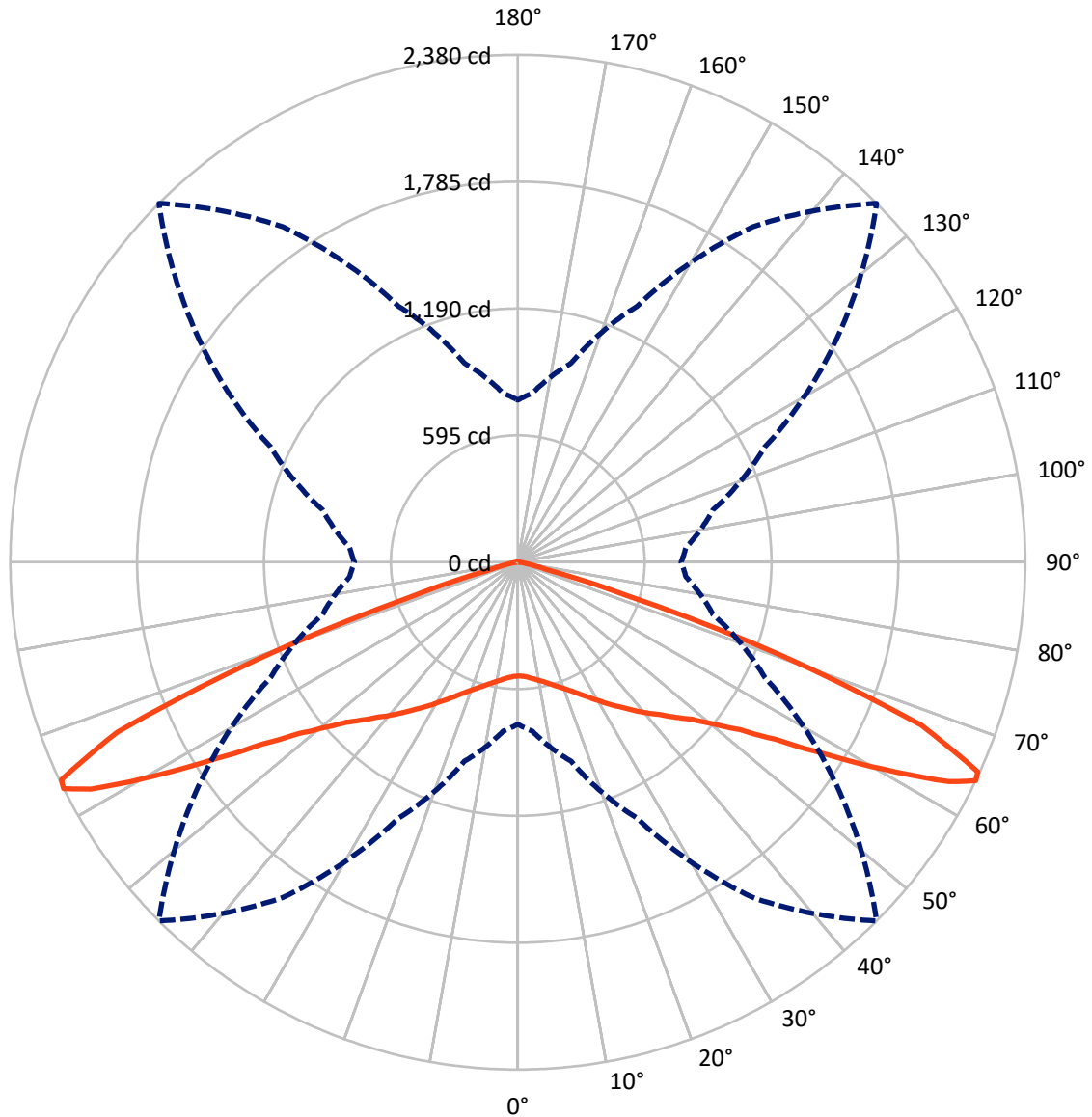
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 64-Deg Vertical

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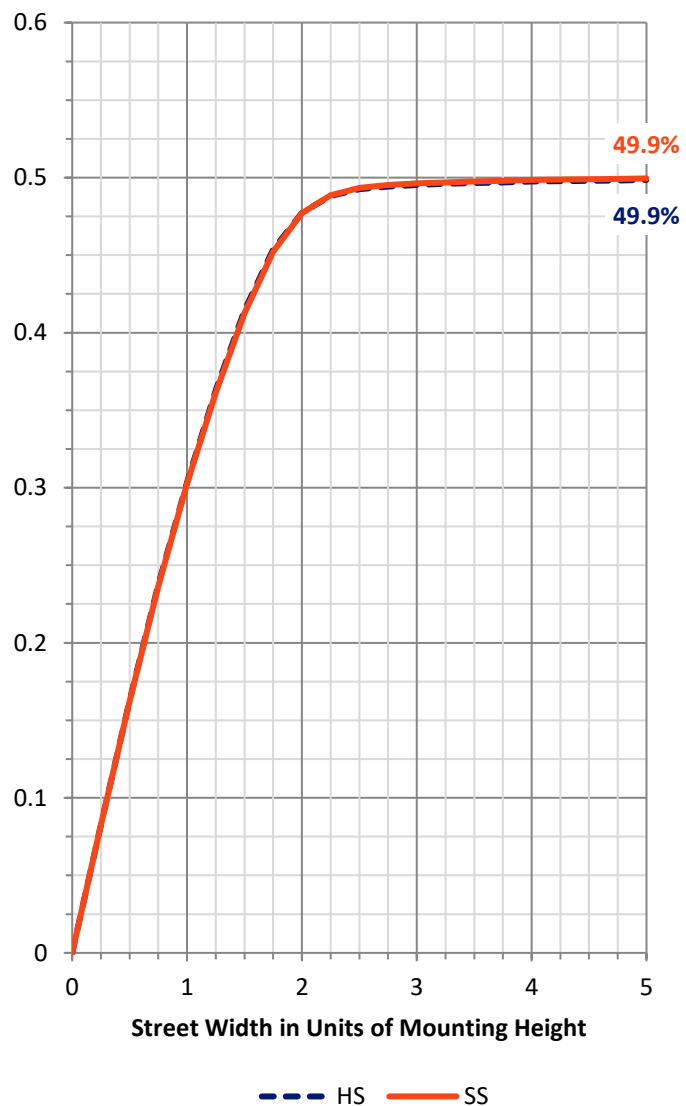
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2208.5	0.0	2208.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2208.5	0.0	2208.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	4417.0	0.0	4417.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	52.4	1.2
10°-20°	169.2	3.8
20°-30°	319.7	7.2
30°-40°	529.5	12.0
40°-50°	826.6	18.7
50°-60°	1277.9	28.9
60°-70°	1101.9	24.9
70°-80°	124.9	2.8
80°-90°	15.0	0.3
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°	4417.0	100.0
0°-180°	4417.0	100.0

**Coefficient of Utilization**



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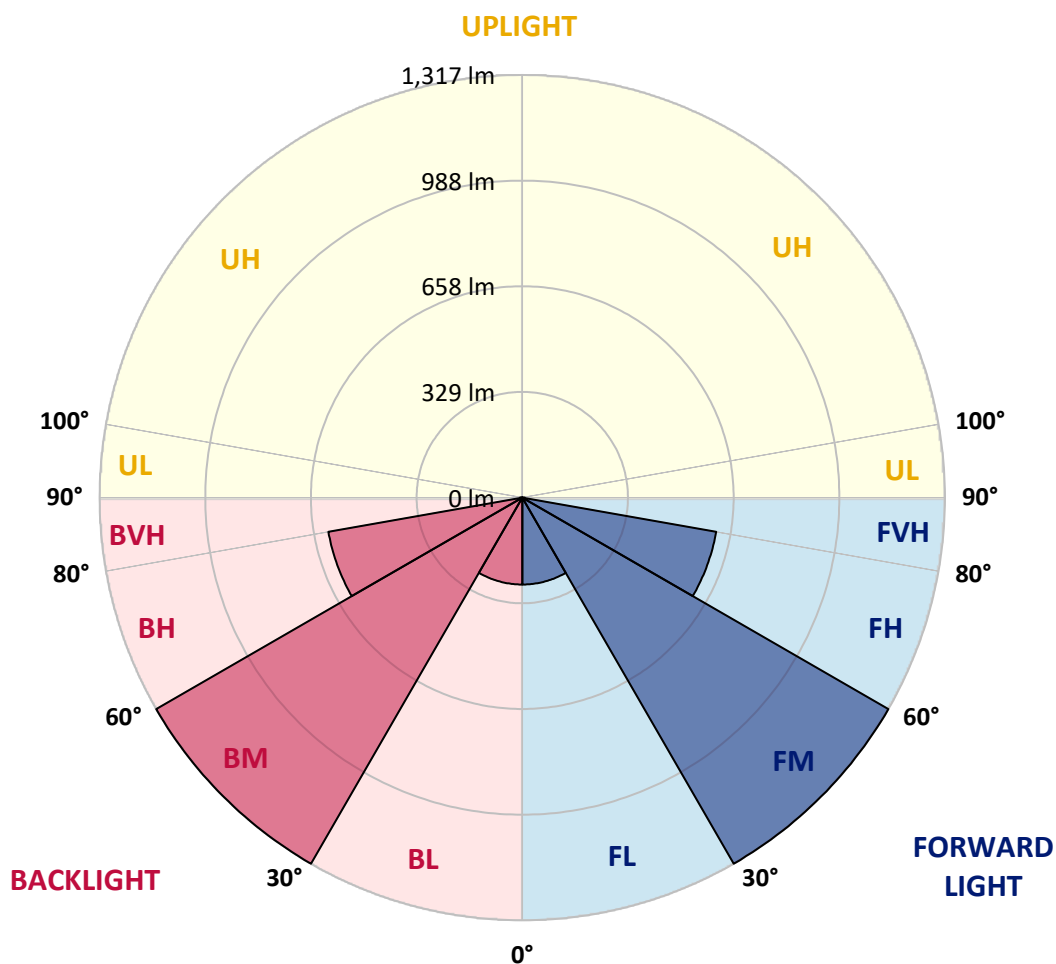
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	270.7	6.1			
FM	(30°-60°)	1317.0	29.8			
FH	(60°-80°)	613.4	13.9			G0/660
FVH	(80°-90°)	7.5	0.2			G0/10
BL	(0°-30°)	270.7	6.1	B1/500		
BM	(30°-60°)	1317.0	29.8	B2/2500		
BH	(60°-80°)	613.4	13.9	B2/1000		G0/660
BVH	(80°-90°)	7.5	0.2			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G0**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	533.9	533.9	533.9	533.9	533.9	533.9	533.9	533.9	533.9	533.9	533.9
2.5°	536.0	537.1	536.2	536.0	535.7	535.7	535.7	536.0	536.9	537.6	537.1
5°	542.8	543.7	543.2	543.0	542.8	543.0	542.5	542.3	543.0	543.0	542.8
7.5°	551.2	552.4	551.9	552.4	552.6	552.8	551.6	550.7	550.5	551.2	550.7
10°	562.6	563.6	563.8	564.0	564.5	564.3	562.9	561.2	561.0	560.8	560.5
12.5°	575.5	576.2	576.4	577.4	578.1	578.3	576.7	575.3	572.9	573.4	572.5
15°	590.0	591.4	591.2	592.6	594.5	594.9	593.3	591.0	588.8	587.7	587.0
17.5°	607.8	608.7	608.3	609.7	612.0	613.2	611.8	608.7	606.6	604.1	602.6
20°	628.9	630.5	631.0	631.0	633.1	634.2	632.1	631.2	627.9	626.0	624.9
22.5°	652.7	653.4	654.8	656.2	658.3	657.9	657.2	655.8	652.7	651.1	649.2
25°	679.6	680.3	683.8	686.9	687.6	687.1	686.2	685.5	682.7	678.9	677.5
27.5°	711.0	712.4	717.0	719.9	719.9	720.1	718.2	720.6	714.5	710.0	709.6
30°	750.3	751.2	755.2	758.0	756.6	755.4	754.9	757.3	750.7	742.8	740.9
32.5°	789.1	792.4	795.9	802.0	797.1	795.0	794.5	796.1	788.6	779.7	777.2
35°	830.7	833.1	839.6	844.8	840.3	835.4	837.5	842.7	833.8	821.9	821.4
37.5°	876.8	878.9	887.4	892.7	889.5	881.0	884.6	890.6	881.7	867.0	864.0
40°	924.8	929.2	939.8	945.4	940.0	928.8	935.3	941.9	933.9	916.8	910.1
42.5°	978.6	985.6	1000.8	1003.6	993.3	978.1	989.6	1000.1	994.5	974.9	972.3
45°	1041.5	1045.7	1064.5	1070.5	1056.3	1037.3	1051.6	1070.8	1066.6	1043.9	1039.0
47.5°	1112.0	1115.9	1135.3	1144.5	1126.5	1101.0	1126.7	1151.7	1149.2	1124.8	1122.5
50°	1195.2	1196.2	1223.1	1233.4	1215.4	1193.4	1216.3	1247.4	1237.1	1206.0	1205.5
52.5°	1286.5	1287.6	1321.6	1341.5	1331.4	1306.6	1333.7	1352.7	1326.5	1285.8	1282.7
55°	1365.6	1371.4	1417.7	1470.6	1484.4	1466.4	1474.6	1465.7	1401.1	1344.0	1335.1
57.5°	1397.8	1409.3	1479.7	1578.4	1668.3	1695.0	1631.8	1547.1	1430.8	1350.1	1341.5
60°	1319.0	1331.4	1440.7	1628.0	1857.3	1973.1	1795.5	1560.9	1363.2	1249.7	1236.2
62.5°	1056.3	1059.8	1220.5	1511.3	1967.5	2267.4	1864.6	1443.2	1166.5	1012.3	1006.9
64°	760.1	796.1	966.4	1325.1	1919.3	2379.5	1824.8	1278.3	947.5	791.4	766.2
65°	568.5	578.3	779.0	1131.6	1834.4	2371.1	1747.6	1120.6	784.7	605.7	577.6
67.5°	214.8	215.9	287.5	564.0	1305.9	2040.0	1333.7	609.7	330.6	239.1	230.4
70°	89.1	90.8	105.5	189.7	561.2	1309.9	643.1	219.9	121.0	98.0	96.6
72.5°	65.3	66.2	70.7	84.2	172.7	537.8	211.5	93.3	70.9	63.4	62.7
75°	51.2	51.7	55.0	62.0	80.5	149.0	88.0	64.1	54.0	48.7	48.2
77.5°	39.1	40.2	42.6	47.3	54.0	70.7	58.3	48.0	41.6	37.2	36.5
80°	26.9	28.3	32.8	34.6	36.3	45.9	39.8	36.3	32.5	27.1	25.5
82.5°	16.6	17.5	22.0	23.6	22.9	25.7	25.5	26.0	23.2	16.8	15.7
85°	8.7	9.1	11.9	12.4	11.5	10.5	13.1	15.2	14.3	9.6	9.4
87.5°	1.9	2.1	2.6	2.3	2.6	2.6	3.3	4.9	5.1	3.3	3.0
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)