

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: P648222

Luminaire Tested: **GALN-SA1B-835-U-T1**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648222  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1B-835-U-T1  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4500.7 lumens  
Efficiency: N/A  
Efficacy: 102.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B2 - U0 - G2

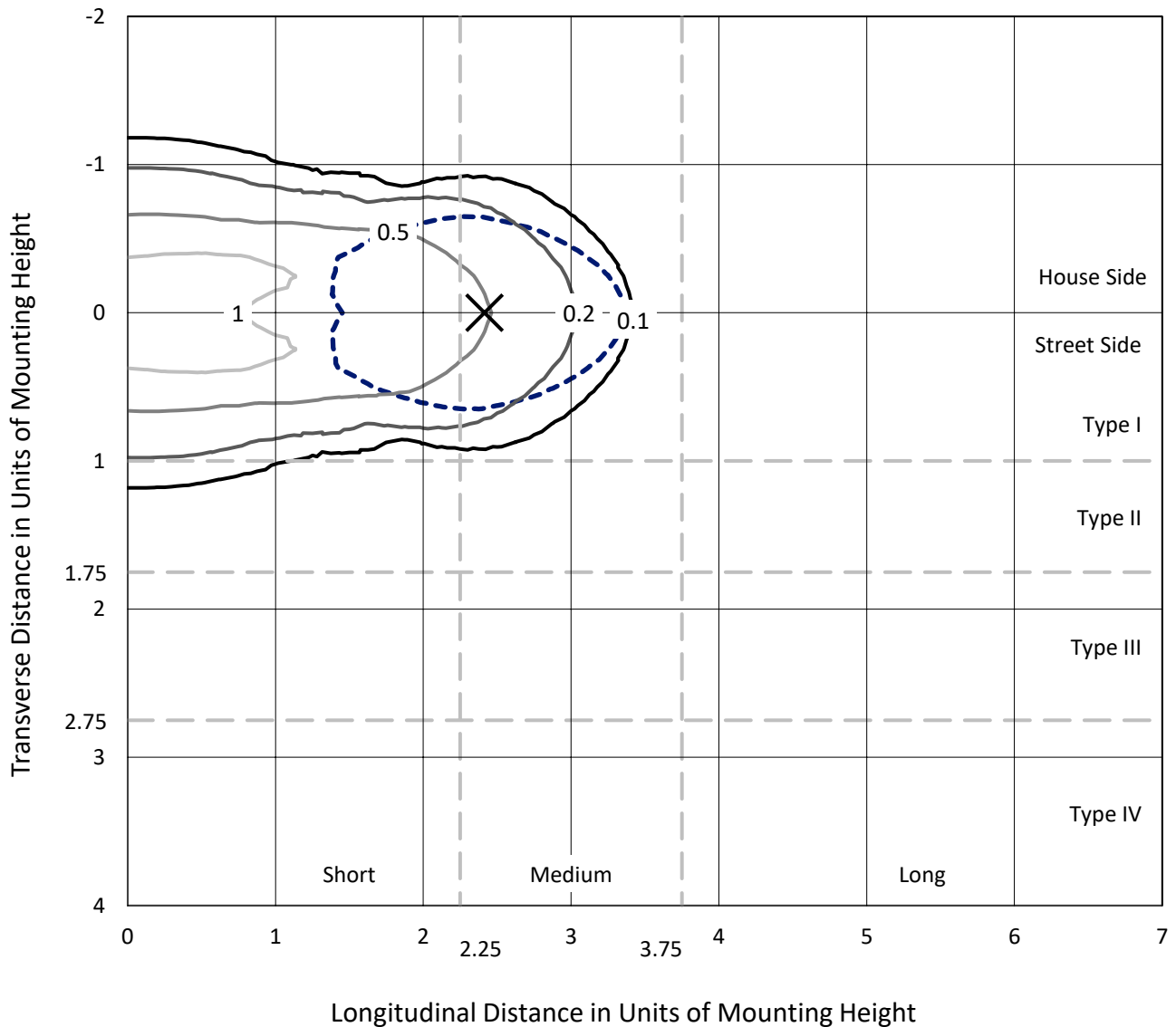
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

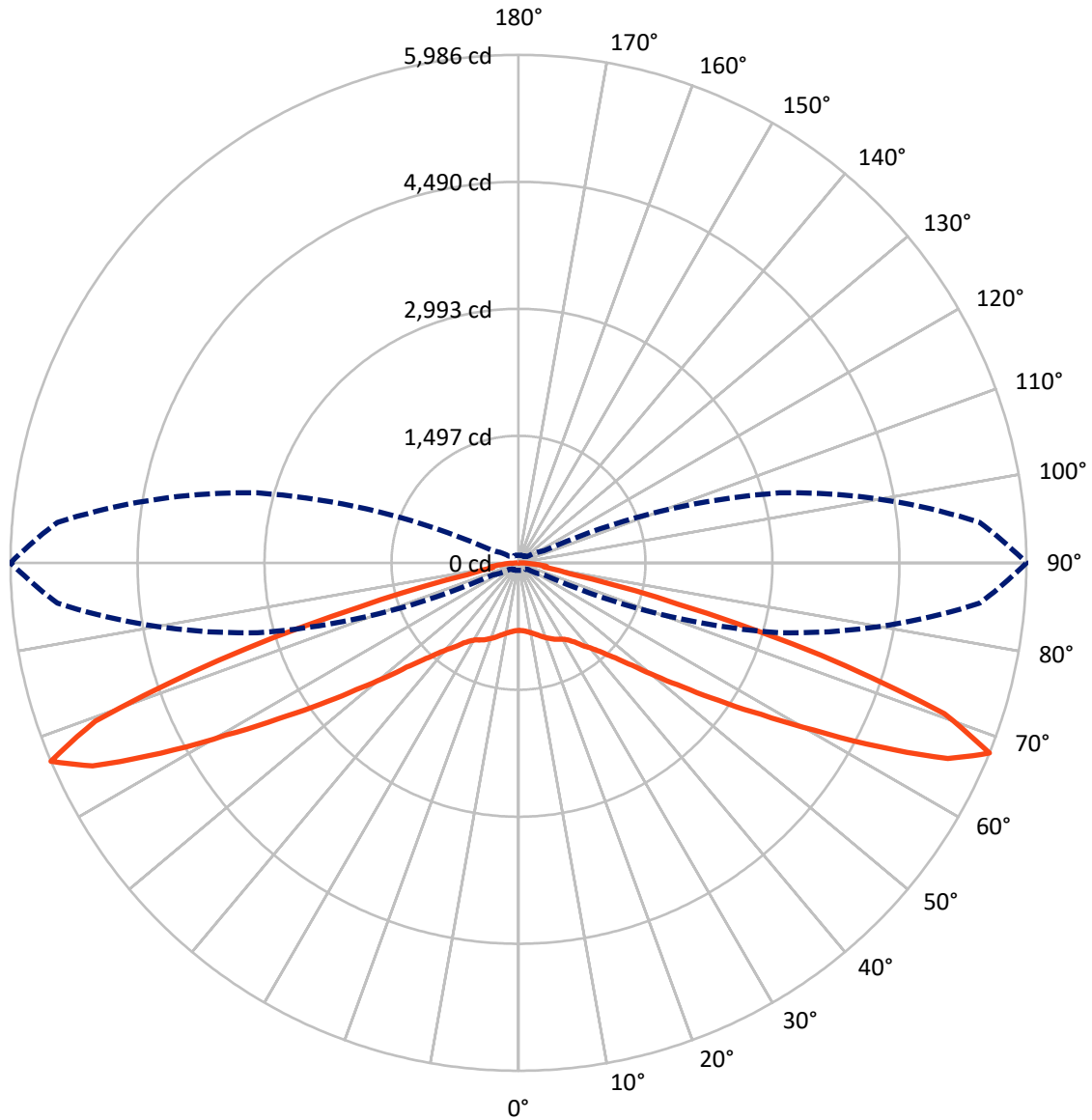
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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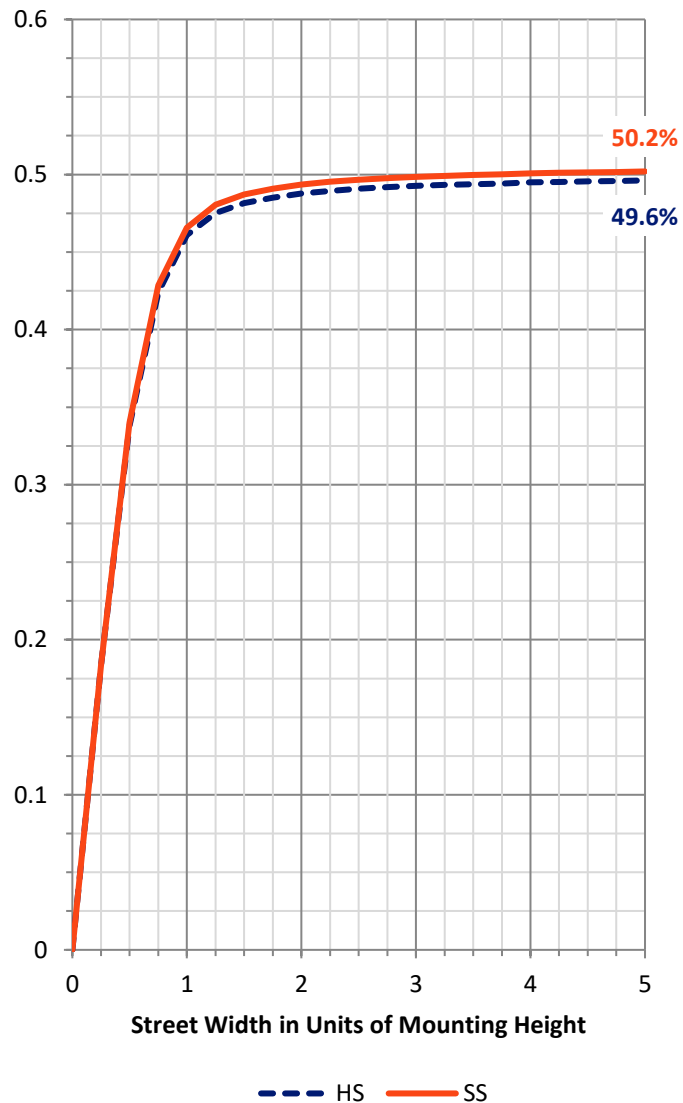
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2250.3	0.0	2250.3
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2250.3	0.0	2250.3
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	4500.7	0.0	4500.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.4	1.8
10°-20°	254.2	5.6
20°-30°	425.4	9.5
30°-40°	576.3	12.8
40°-50°	730.0	16.2
50°-60°	911.9	20.3
60°-70°	1071.9	23.8
70°-80°	410.1	9.1
80°-90°	41.6	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°	4500.7	100.0
0°-180°	4500.7	100.0

**Coefficient of Utilization**



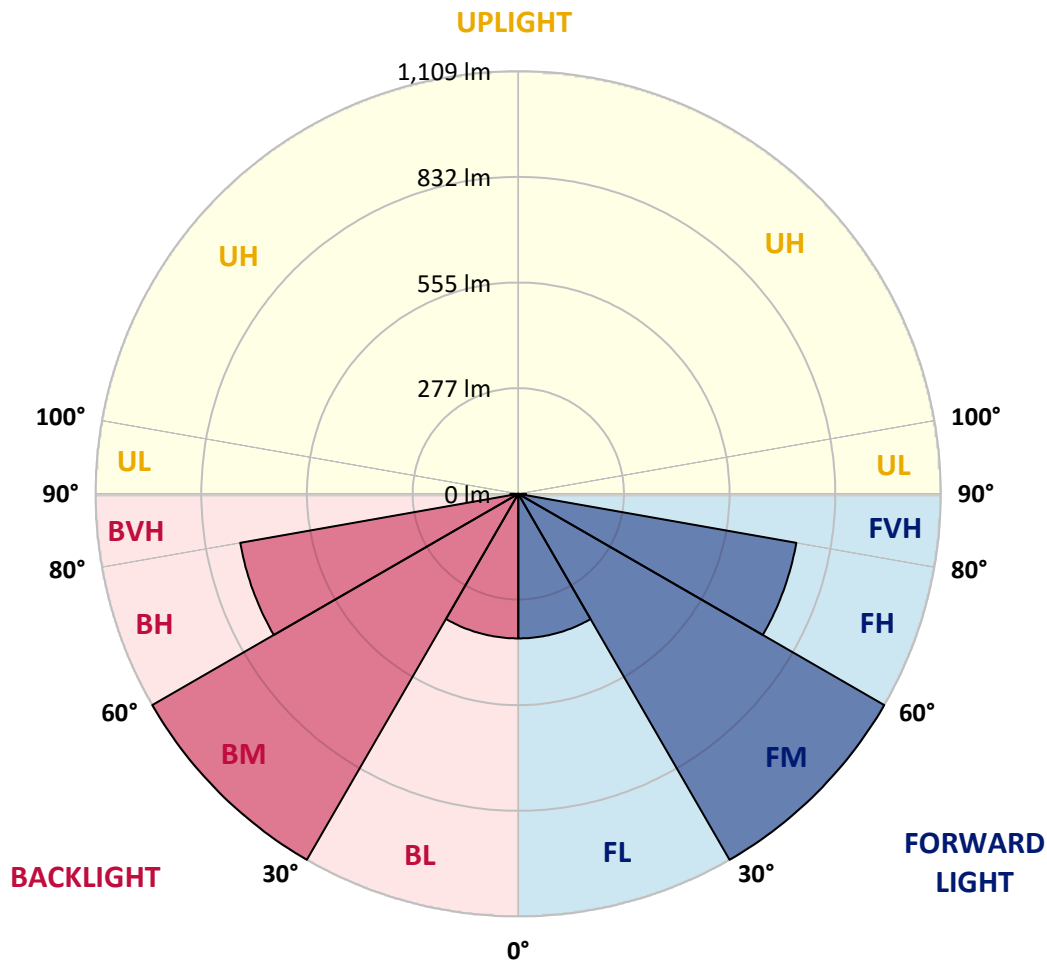
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	379.5	8.4			
FM (30°-60°)	1109.1	24.6			
FH (60°-80°)	741.0	16.5			G1/1800
FVH (80°-90°)	20.8	0.5			G1/100
BL (0°-30°)	379.5	8.4	B1/500		
BM (30°-60°)	1109.1	24.6	B2/2500		
BH (60°-80°)	741.0	16.5	B2/1000		G2/1000
BVH (80°-90°)	20.8	0.5			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 I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	796.8	796.8	796.8	796.8	796.8	796.8	796.8	796.8	796.8	796.8	796.8
2.5°	807.0	806.5	806.7	806.5	807.2	806.7	803.7	801.2	799.3	799.5	798.7
5°	824.2	824.4	824.7	823.4	825.2	824.2	819.4	815.4	811.5	809.9	809.5
7.5°	838.4	839.6	840.4	841.6	844.6	844.6	842.1	836.4	827.6	822.7	822.5
10°	852.6	853.5	855.8	859.8	864.8	869.5	868.5	860.8	849.6	841.1	839.1
12.5°	857.5	858.8	866.3	877.7	888.9	898.2	898.2	892.0	877.5	864.5	860.8
15°	840.2	842.4	855.8	880.2	909.7	929.8	934.4	925.6	910.2	890.2	885.7
17.5°	805.5	811.0	830.7	866.8	915.6	957.5	970.5	966.2	946.3	920.9	915.6
20°	768.4	774.3	795.3	843.1	910.6	973.7	1011.3	1012.3	987.7	950.8	943.0
22.5°	727.5	731.9	758.9	814.9	895.7	977.4	1046.5	1063.7	1030.3	980.7	969.7
25°	681.6	686.6	714.8	775.3	867.6	973.2	1078.7	1116.5	1074.9	1012.6	998.6
27.5°	637.8	639.8	669.9	731.5	830.4	962.2	1102.3	1165.1	1124.2	1039.0	1021.3
30°	595.6	600.4	627.0	687.9	787.8	940.8	1122.7	1220.5	1177.3	1066.7	1044.0
32.5°	551.0	556.8	585.7	647.2	745.2	908.7	1135.2	1281.0	1251.3	1111.5	1087.4
35°	508.2	511.9	541.1	600.9	703.5	871.2	1137.5	1349.3	1346.8	1179.6	1147.4
37.5°	464.3	469.8	499.2	556.5	659.4	831.6	1126.3	1421.8	1461.9	1274.0	1239.4
40°	422.2	426.9	455.9	513.6	609.3	783.3	1099.6	1488.1	1596.3	1371.2	1322.1
42.5°	376.3	377.6	409.2	468.0	560.2	727.3	1061.2	1547.1	1746.0	1501.6	1440.5
45°	324.2	327.5	356.9	414.7	503.9	664.5	1009.1	1596.0	1936.0	1682.3	1599.0
47.5°	272.2	274.9	301.8	358.8	442.4	592.4	928.9	1638.9	2130.9	1911.8	1802.6
50°	221.3	222.8	244.8	295.3	373.1	516.6	829.4	1652.6	2351.2	2236.8	2097.4
52.5°	174.9	177.2	193.9	233.5	299.0	427.2	722.0	1618.7	2608.3	2622.0	2425.7
55°	141.8	142.6	155.0	184.2	233.8	333.5	592.4	1524.3	2885.0	3115.8	2865.3
57.5°	122.1	122.6	129.6	145.8	179.9	251.5	459.5	1345.6	3133.5	3694.2	3372.2
60°	110.9	111.2	115.2	124.6	142.6	192.9	329.3	1093.3	3378.7	4338.0	4002.2
62.5°	103.9	103.9	106.6	111.9	120.7	148.1	238.5	788.8	3546.7	4991.2	4778.8
65°	97.2	97.2	99.2	103.0	107.7	121.1	176.2	514.4	3542.4	5466.9	5559.8
67.5°	89.5	89.5	91.0	94.7	97.5	104.1	136.1	336.9	3182.0	5456.5	5986.0
70°	80.3	80.3	82.2	85.5	87.7	91.9	107.4	230.5	2337.7	4658.9	5323.6
72.5°	71.0	71.3	72.5	75.8	77.5	80.0	89.2	161.5	1434.0	3172.3	3722.4
75°	60.8	61.3	62.6	65.8	67.3	68.3	75.2	115.2	725.4	1710.4	1947.4
77.5°	49.1	50.1	50.8	54.3	55.4	56.8	62.1	83.2	318.5	614.6	620.1
80°	35.9	37.1	39.4	42.6	43.4	44.4	47.4	59.0	144.3	280.6	304.8
82.5°	26.4	28.2	25.4	29.7	29.7	28.4	33.4	39.6	66.3	277.9	332.5
85°	14.5	14.7	13.2	15.2	16.2	16.0	17.7	19.4	32.2	185.4	191.1
87.5°	3.5	3.8	4.0	4.7	5.7	5.7	6.3	5.5	10.5	60.1	34.4
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)