

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: P648190

Luminaire Tested: **GALN-SA1B-835-U-5MQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648190  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)  
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-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4728.5 lumens  
Efficiency: N/A  
Efficacy: 107.5 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

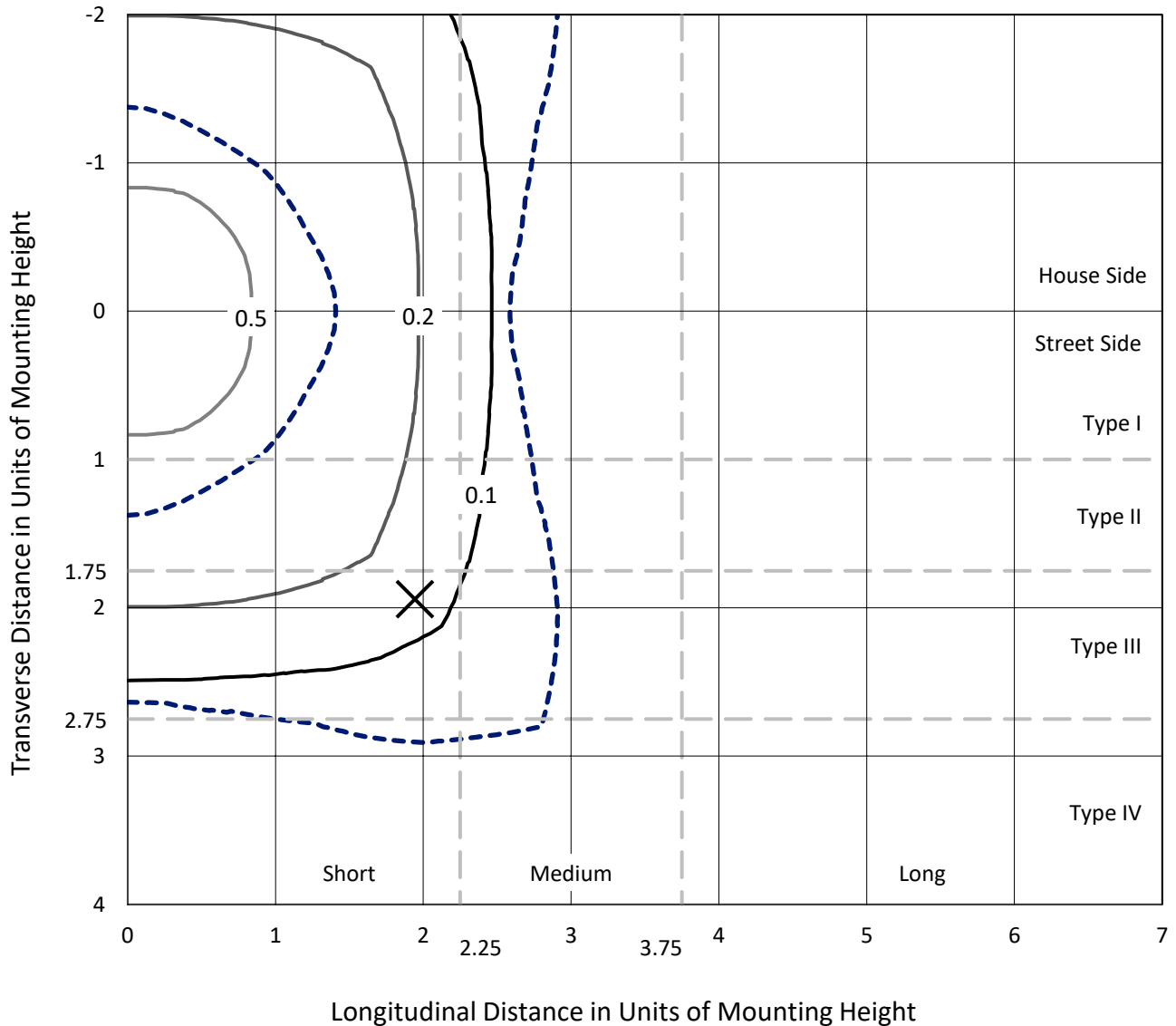
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

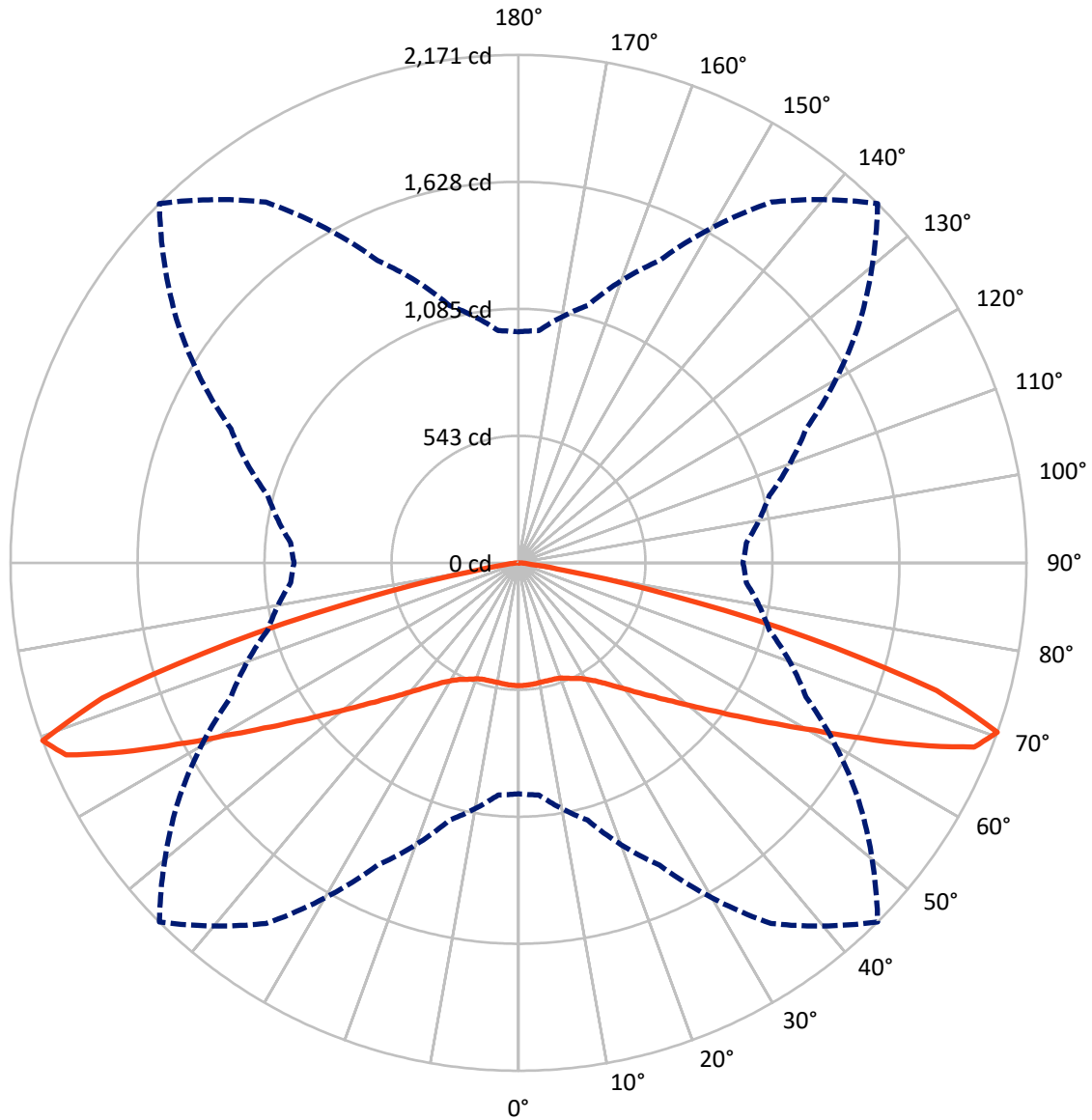
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc  
 Type 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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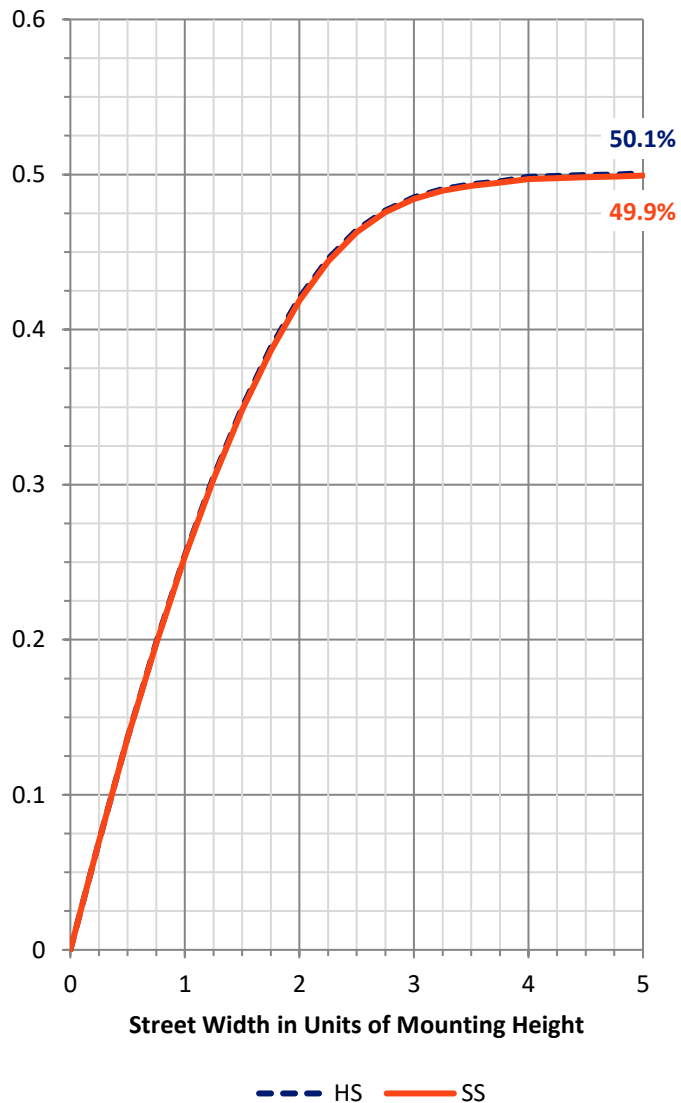
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2364.3	0.0	2364.3
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2364.3	0.0	2364.3
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	4728.5	0.0	4728.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.8	1.1
10°-20°	146.1	3.1
20°-30°	249.9	5.3
30°-40°	396.6	8.4
40°-50°	639.9	13.5
50°-60°	1041.1	22.0
60°-70°	1509.2	31.9
70°-80°	669.5	14.2
80°-90°	26.4	0.6
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°	4728.5	100.0
0°-180°	4728.5	100.0

**Coefficient of Utilization**



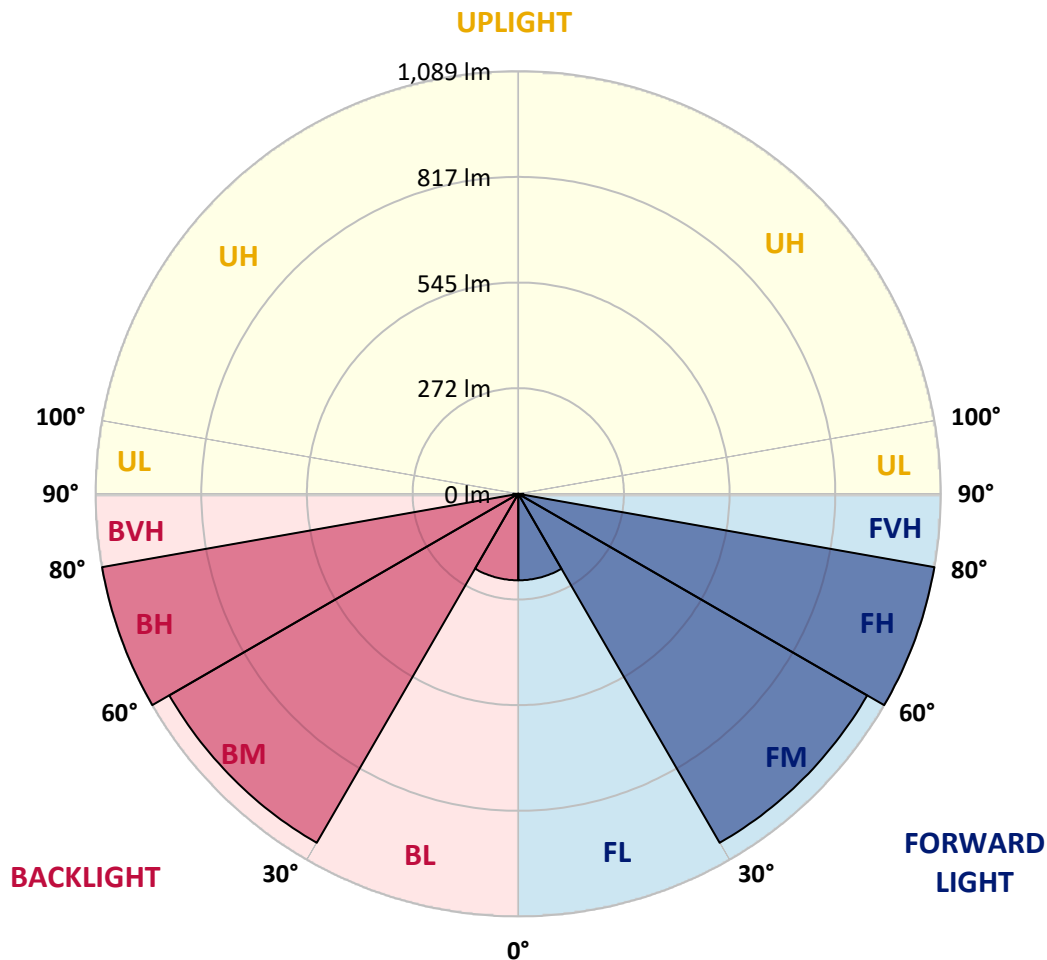
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	222.9	4.7			
FM (30°-60°)	1038.8	22.0			
FH (60°-80°)	1089.3	23.0			G1/1800
FVH (80°-90°)	13.2	0.3			G1/100
BL (0°-30°)	222.9	4.7	B1/500		
BM (30°-60°)	1038.8	22.0	B2/2500		
BH (60°-80°)	1089.3	23.0	B3/2500		G1/1800
BVH (80°-90°)	13.2	0.3			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°	525.1	525.1	525.1	525.1	525.1	525.1	525.1	525.1	525.1	525.1	525.1
2.5°	525.1	525.5	524.8	524.3	524.1	524.1	523.8	524.1	525.5	525.9	525.1
5°	523.6	524.1	523.8	523.4	523.1	523.1	522.8	522.6	523.8	524.3	524.1
7.5°	521.6	521.9	521.6	521.3	521.6	521.6	520.6	520.1	521.1	521.1	520.9
10°	518.1	518.6	518.3	518.6	519.1	519.1	518.1	517.1	517.3	516.9	516.9
12.5°	513.9	514.6	514.9	515.8	517.1	517.1	516.4	514.1	513.6	513.3	513.1
15°	511.1	511.8	512.9	513.9	516.1	516.1	516.1	512.6	511.6	510.6	510.1
17.5°	510.4	511.4	512.9	514.4	517.3	517.3	517.9	514.4	511.8	510.4	509.9
20°	512.4	513.1	515.4	518.1	522.3	522.3	522.8	519.1	515.4	513.1	512.4
22.5°	516.4	517.6	520.4	525.3	531.3	531.3	532.3	526.1	520.1	517.1	516.1
25°	525.1	526.1	529.3	536.0	543.0	543.0	543.6	536.3	528.1	524.1	522.8
27.5°	538.3	539.8	543.2	551.2	556.9	556.9	556.7	551.8	545.8	541.5	540.5
30°	556.9	558.7	564.0	572.5	576.1	576.1	576.4	573.2	568.9	564.5	563.4
32.5°	582.2	583.2	589.1	597.1	600.6	600.6	599.6	598.1	591.1	583.6	583.2
35°	610.3	612.1	619.3	628.7	632.0	632.0	629.2	627.0	618.8	612.8	612.8
37.5°	647.7	648.4	655.4	666.1	669.6	669.6	667.1	665.2	656.4	648.7	649.0
40°	691.5	693.0	699.1	711.5	711.5	711.5	711.3	709.7	701.0	693.6	693.8
42.5°	743.6	744.4	751.6	764.8	763.8	763.8	762.3	760.4	754.9	746.4	743.4
45°	799.2	802.2	814.6	827.4	825.4	825.4	821.4	820.9	815.9	803.2	804.0
47.5°	866.2	871.2	883.2	898.4	896.1	896.1	888.2	891.1	884.2	870.2	867.7
50°	941.8	945.0	962.7	976.9	974.9	974.9	971.9	972.4	954.9	935.3	935.3
52.5°	1022.3	1025.5	1049.5	1071.6	1072.9	1072.9	1061.9	1061.4	1032.9	1007.0	1002.1
55°	1112.5	1114.0	1144.8	1177.5	1184.5	1184.5	1166.8	1156.8	1119.9	1089.8	1087.0
57.5°	1205.7	1211.1	1245.3	1287.6	1308.3	1308.3	1291.6	1265.0	1229.3	1194.7	1193.0
60°	1308.9	1309.1	1353.4	1403.5	1445.4	1445.4	1431.7	1396.1	1350.0	1304.1	1302.1
62.5°	1380.4	1391.1	1447.1	1531.9	1606.9	1606.9	1593.7	1518.9	1428.2	1354.2	1346.8
65°	1395.1	1402.3	1487.8	1631.3	1784.6	1784.6	1747.2	1588.2	1433.4	1334.8	1329.8
67.5°	1276.2	1283.9	1399.1	1619.3	1909.2	1909.2	1846.9	1554.8	1344.7	1222.7	1212.9
70°	987.1	995.8	1138.2	1425.5	1881.5	2170.9	1775.8	1356.2	1109.0	977.2	959.5
72.5°	524.8	556.9	678.6	978.4	1527.2	1869.1	1456.1	989.6	715.2	584.7	561.3
75°	191.7	195.6	263.4	433.9	888.4	1281.7	922.5	472.0	271.4	209.6	198.9
77.5°	79.2	79.0	86.8	131.1	322.8	656.4	360.1	138.6	86.4	80.0	79.0
80°	46.8	46.8	51.6	54.6	85.0	198.1	95.0	61.8	51.8	47.4	48.1
82.5°	20.9	22.2	32.7	34.4	41.1	54.3	45.9	39.4	33.9	23.4	21.2
85°	11.4	9.9	17.2	17.9	19.7	20.2	21.7	21.5	19.7	11.4	11.7
87.5°	2.3	2.7	5.0	3.8	4.2	3.8	5.0	7.0	7.2	4.0	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)