

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: P458558

Luminaire Tested: **GALN-SA1B-735-U-T1**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458558  
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-735-U-T1  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 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: 5354 lumens  
Efficiency: N/A  
Efficacy: 121.7 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

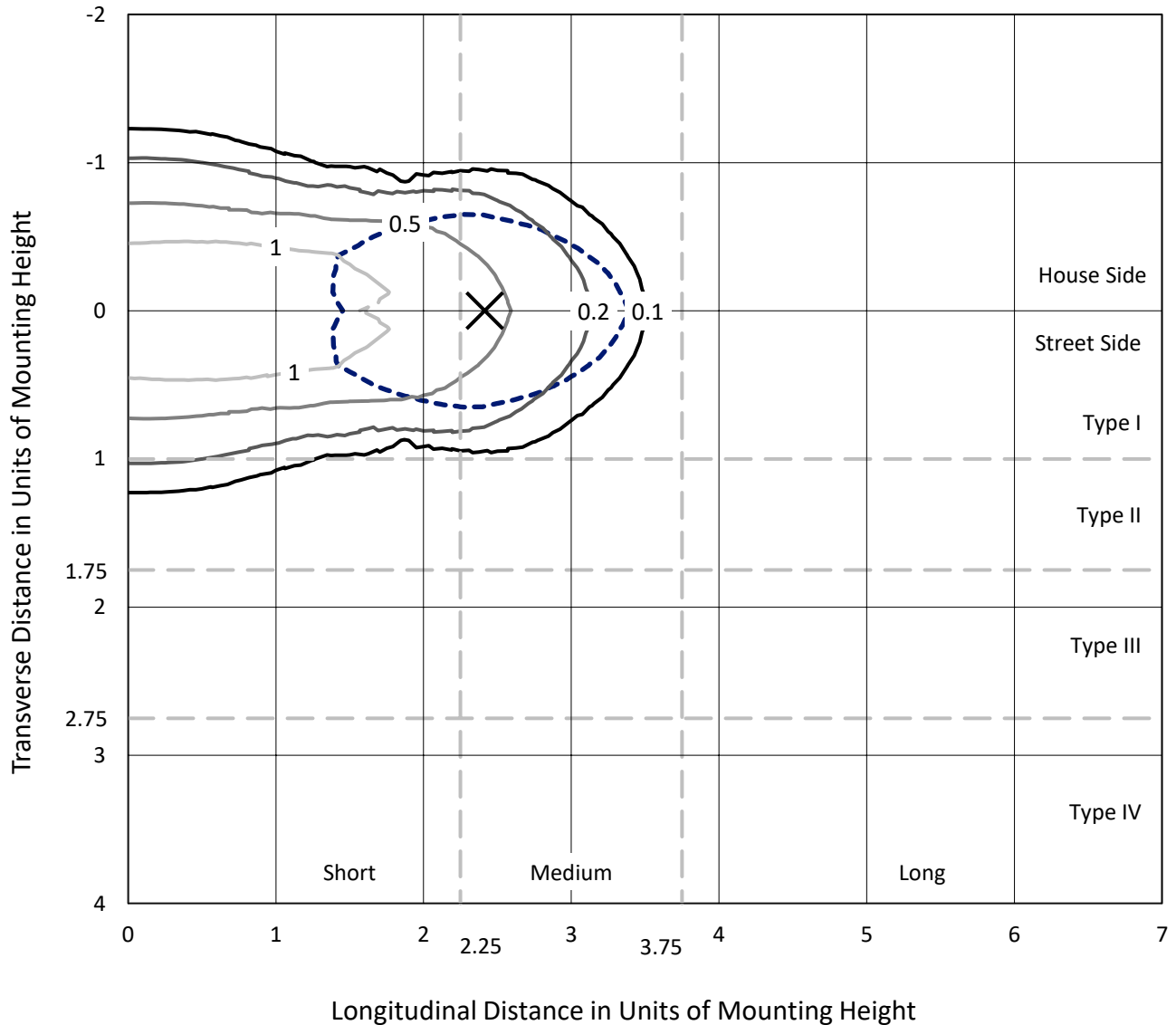
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

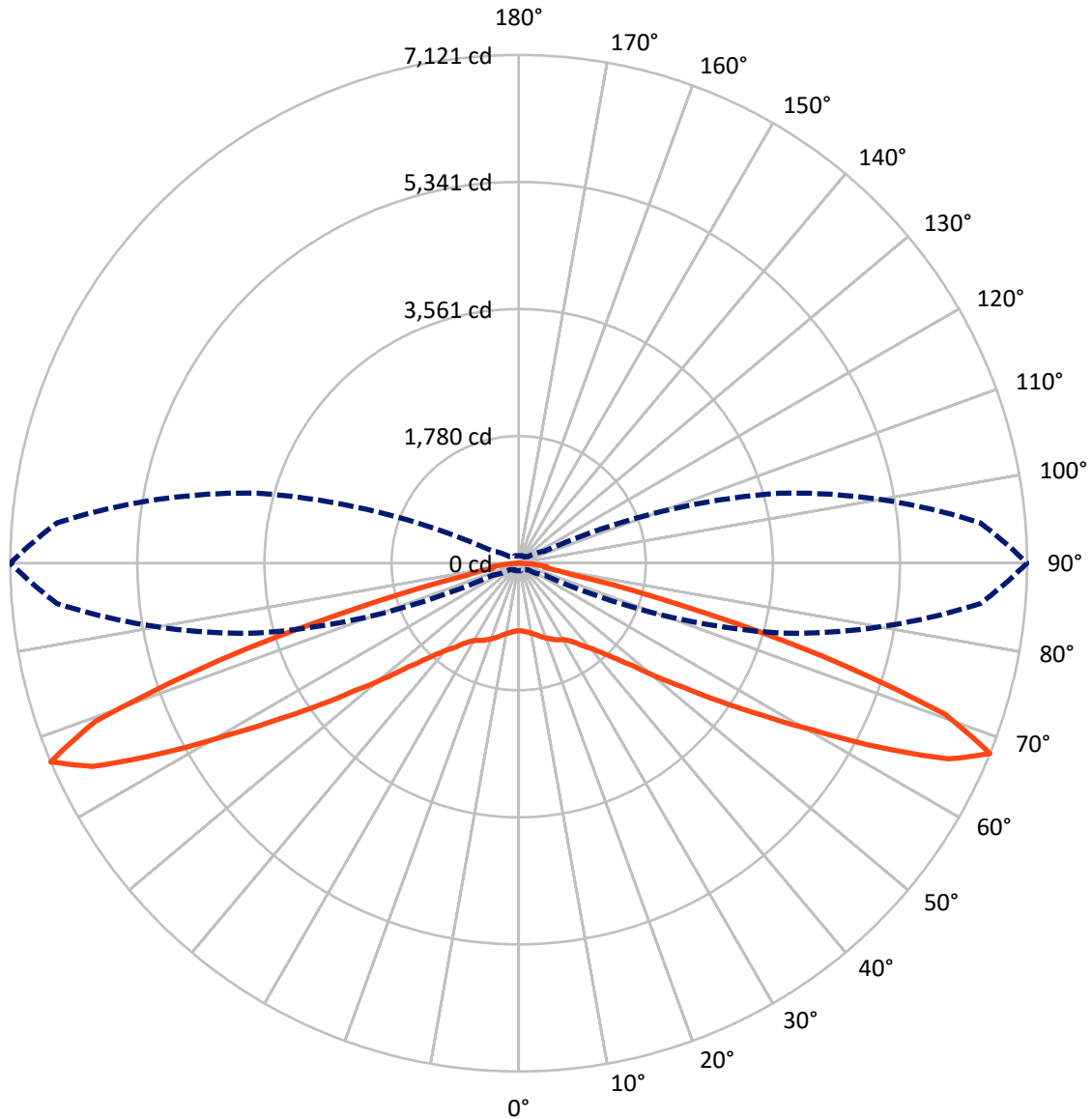
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 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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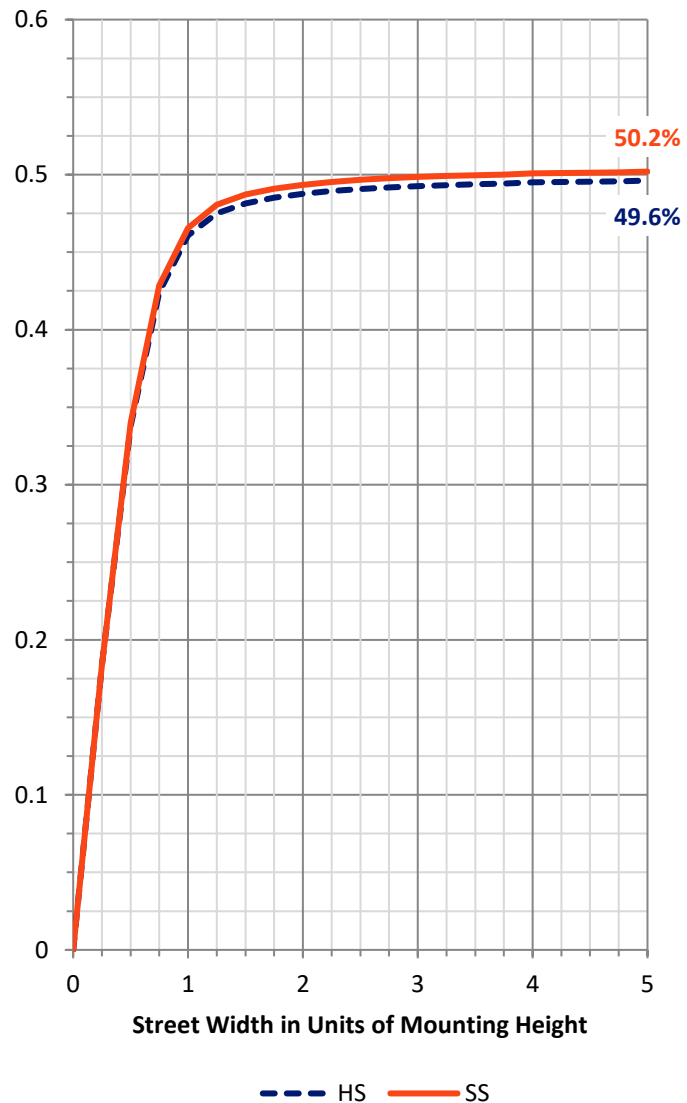
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2677.0	0.0	2677.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2677.0	0.0	2677.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	5354.0	0.0	5354.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.5	1.8
10°-20°	302.3	5.6
20°-30°	506.0	9.5
30°-40°	685.6	12.8
40°-50°	868.4	16.2
50°-60°	1084.8	20.3
60°-70°	1275.1	23.8
70°-80°	487.8	9.1
80°-90°	49.4	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°	5354.0	100.0
0°-180°	5354.0	100.0



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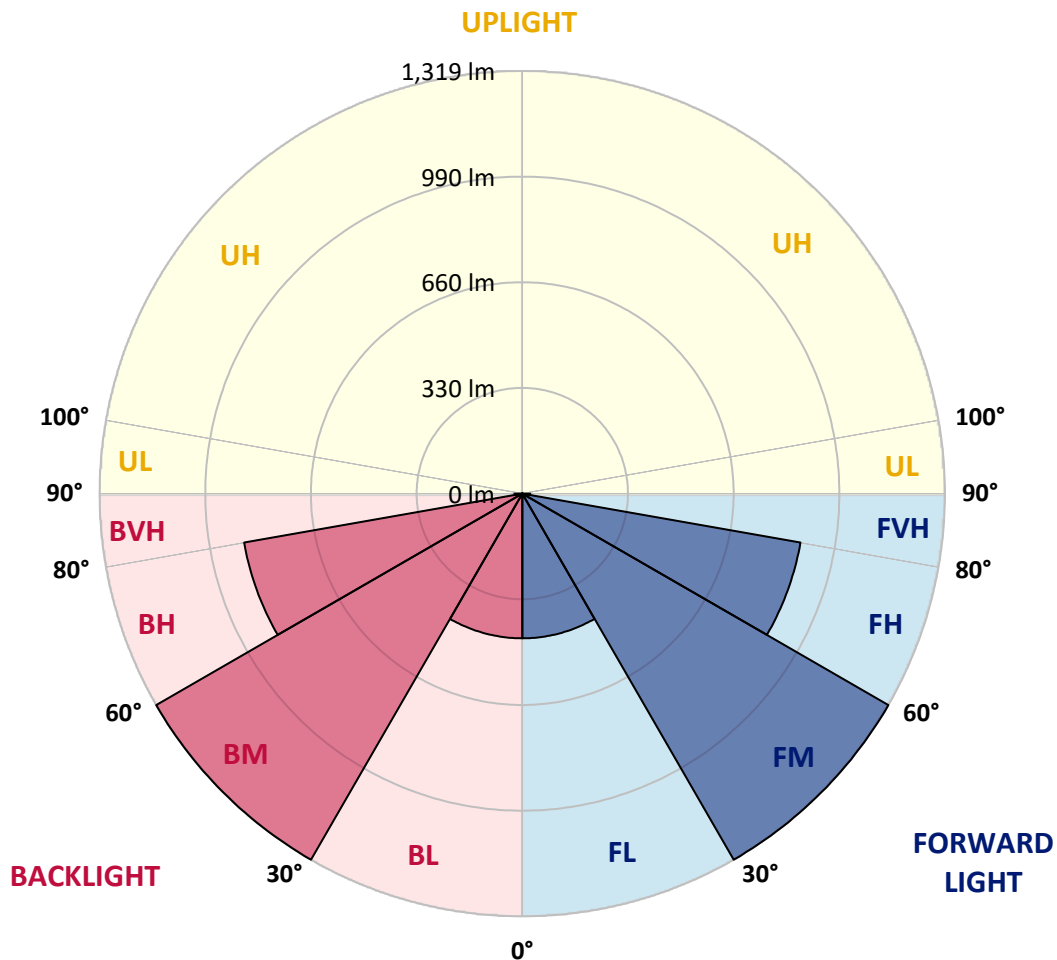
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	451.4	8.4			
FM (30°-60°)	1319.4	24.6			
FH (60°-80°)	881.5	16.5			G1/1800
FVH (80°-90°)	24.7	0.5			G1/100
BL (0°-30°)	451.4	8.4	B1/500		
BM (30°-60°)	1319.4	24.6	B2/2500		
BH (60°-80°)	881.5	16.5	B2/1000		G2/1000
BVH (80°-90°)	24.7	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°	947.8	947.8	947.8	947.8	947.8	947.8	947.8	947.8	947.8	947.8	947.8
2.5°	960.0	959.4	959.7	959.4	960.3	959.7	956.1	953.2	950.8	951.1	950.2
5°	980.4	980.7	981.0	979.5	981.6	980.4	974.8	970.1	965.3	963.5	962.9
7.5°	997.3	998.8	999.7	1001.2	1004.7	1004.7	1001.8	995.0	984.6	978.7	978.4
10°	1014.2	1015.4	1018.1	1022.8	1028.8	1034.4	1033.2	1024.0	1010.7	1000.6	998.2
12.5°	1020.2	1021.6	1030.5	1044.2	1057.5	1068.5	1068.5	1061.1	1043.9	1028.5	1024.0
15°	999.4	1002.1	1018.1	1047.1	1082.1	1106.1	1111.5	1101.1	1082.7	1059.0	1053.7
17.5°	958.2	964.7	988.1	1031.1	1089.2	1139.0	1154.5	1149.4	1125.7	1095.5	1089.2
20°	914.0	921.1	946.0	1003.0	1083.3	1158.3	1203.1	1204.3	1174.9	1131.0	1121.9
22.5°	865.4	870.7	902.8	969.5	1065.5	1162.8	1244.9	1265.3	1225.6	1166.6	1153.6
25°	810.9	816.8	850.3	922.3	1032.0	1157.7	1283.1	1328.2	1278.7	1204.6	1188.0
27.5°	758.7	761.0	796.9	870.1	987.8	1144.7	1311.3	1386.0	1337.4	1236.0	1214.9
30°	708.6	714.2	745.9	818.3	937.2	1119.2	1335.6	1451.8	1400.5	1268.9	1241.9
32.5°	655.5	662.3	696.7	769.9	886.5	1080.9	1350.4	1523.9	1488.6	1322.3	1293.5
35°	604.5	609.0	643.6	714.8	836.9	1036.5	1353.1	1605.1	1602.1	1403.2	1365.0
37.5°	552.3	558.9	593.8	662.0	784.5	989.3	1339.8	1691.4	1739.1	1515.6	1474.4
40°	502.2	507.9	542.2	611.0	724.9	931.8	1308.0	1770.2	1898.9	1631.2	1572.8
42.5°	447.7	449.2	486.8	556.8	666.5	865.1	1262.4	1840.5	2077.1	1786.3	1713.6
45°	385.7	389.6	424.5	493.3	599.5	790.4	1200.4	1898.6	2303.0	2001.2	1902.2
47.5°	323.7	327.0	359.0	426.9	526.2	704.7	1105.0	1949.6	2534.8	2274.2	2144.4
50°	263.3	265.0	291.1	351.3	443.8	614.6	986.7	1965.9	2796.9	2660.8	2495.1
52.5°	208.1	210.8	230.7	277.8	355.8	508.2	858.9	1925.6	3102.9	3119.2	2885.6
55°	168.7	169.6	184.4	219.1	278.1	396.7	704.7	1813.2	3432.0	3706.5	3408.6
57.5°	145.3	145.9	154.2	173.4	214.1	299.1	546.7	1600.7	3727.6	4394.6	4011.6
60°	131.9	132.2	137.0	148.2	169.6	229.5	391.6	1300.6	4019.3	5160.4	4761.1
62.5°	123.6	123.6	126.9	133.1	143.5	176.1	283.7	938.3	4219.1	5937.5	5684.9
65°	115.6	115.6	118.0	122.4	128.1	144.1	209.6	611.9	4214.1	6503.4	6614.0
67.5°	106.4	106.4	108.2	112.7	115.9	123.9	161.9	400.8	3785.4	6491.0	7121.0
70°	95.5	95.5	97.8	101.7	104.4	109.4	127.8	274.2	2780.9	5542.3	6333.0
72.5°	84.5	84.8	86.3	90.1	92.2	95.2	106.1	192.1	1705.9	3773.8	4428.1
75°	72.3	72.9	74.4	78.3	80.0	81.2	89.5	137.0	863.0	2034.7	2316.6
77.5°	58.4	59.6	60.5	64.6	65.8	67.6	73.8	99.0	378.9	731.1	737.6
80°	42.7	44.2	46.8	50.7	51.6	52.8	56.3	70.3	171.7	333.8	362.6
82.5°	31.4	33.5	30.2	35.3	35.3	33.8	39.7	47.1	78.9	330.6	395.5
85°	17.2	17.5	15.7	18.1	19.3	19.0	21.0	23.1	38.2	220.6	227.4
87.5°	4.2	4.4	4.7	5.6	6.8	6.8	7.4	6.5	12.5	71.5	40.9
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)