

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: P450438

Luminaire Tested: **GALN-SA1B-727-U-T1**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450438  
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-727-U-T1  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4807 lumens  
Efficiency: N/A  
Efficacy: 109.3 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

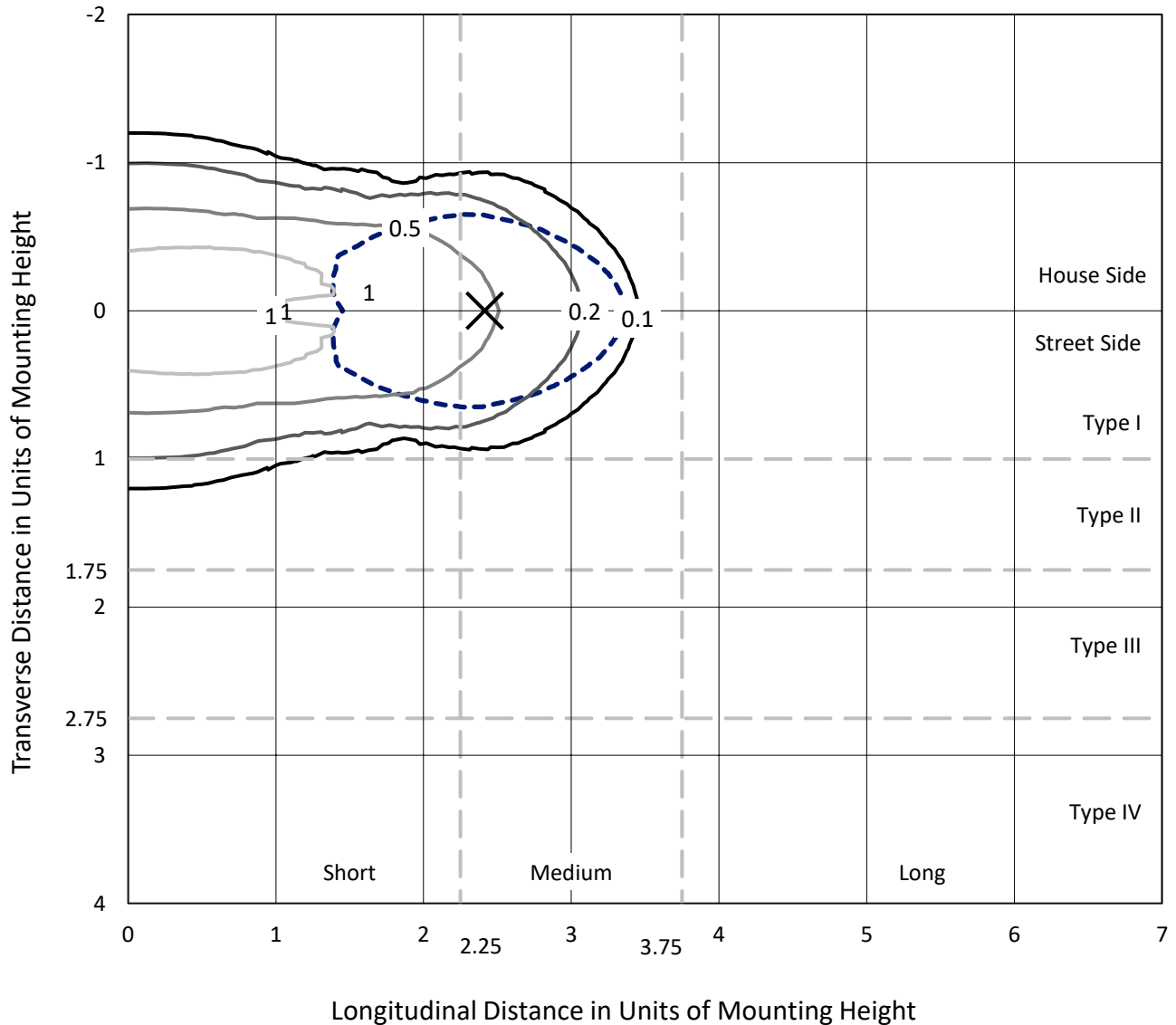
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

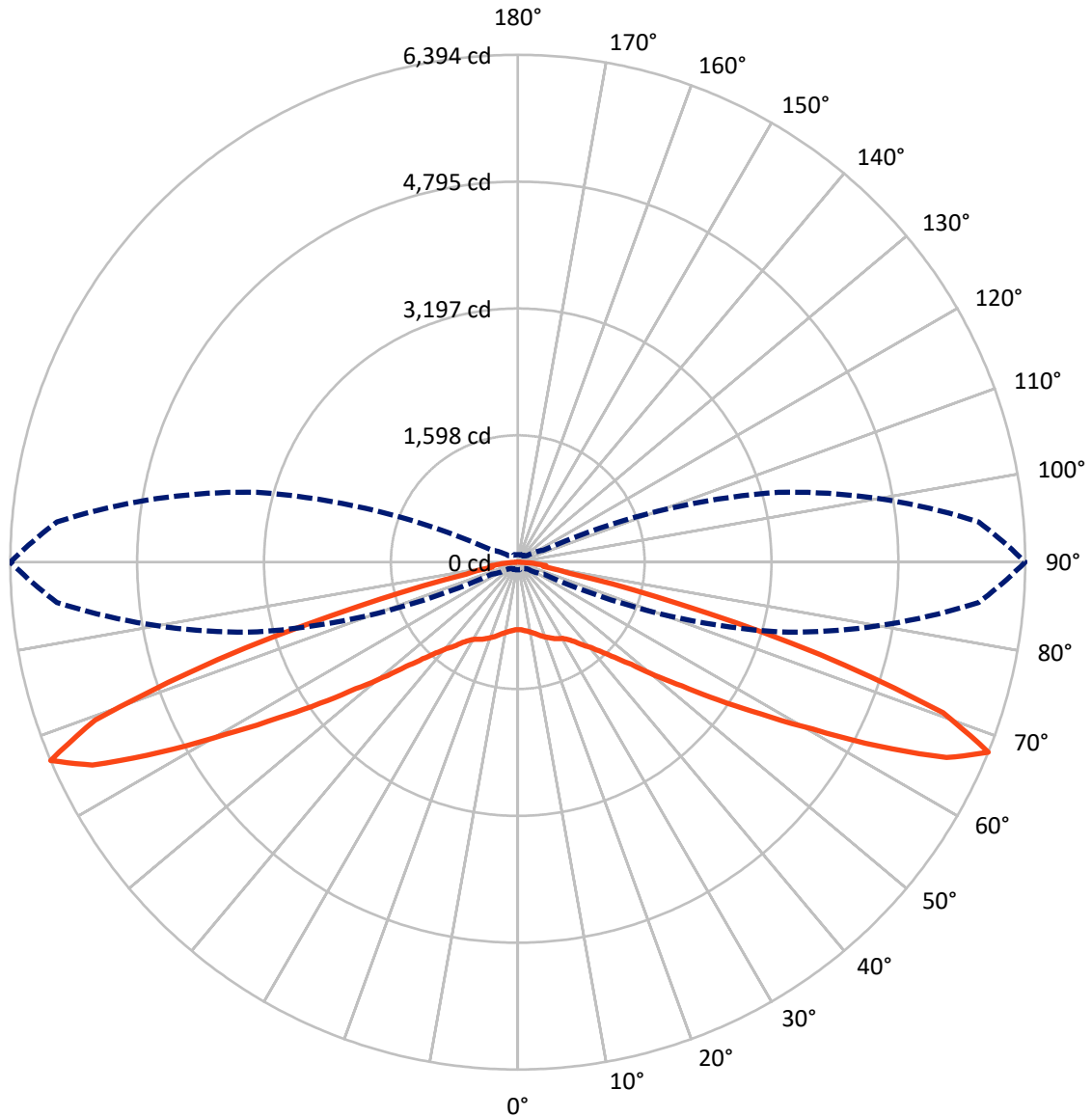
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 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	2403.5	0.0	2403.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2403.5	0.0	2403.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	4807.0	0.0	4807.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.8	1.8
10°-20°	271.5	5.6
20°-30°	454.3	9.5
30°-40°	615.5	12.8
40°-50°	779.7	16.2
50°-60°	974.0	20.3
60°-70°	1144.9	23.8
70°-80°	438.0	9.1
80°-90°	44.4	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°	4807.0	100.0
0°-180°	4807.0	100.0



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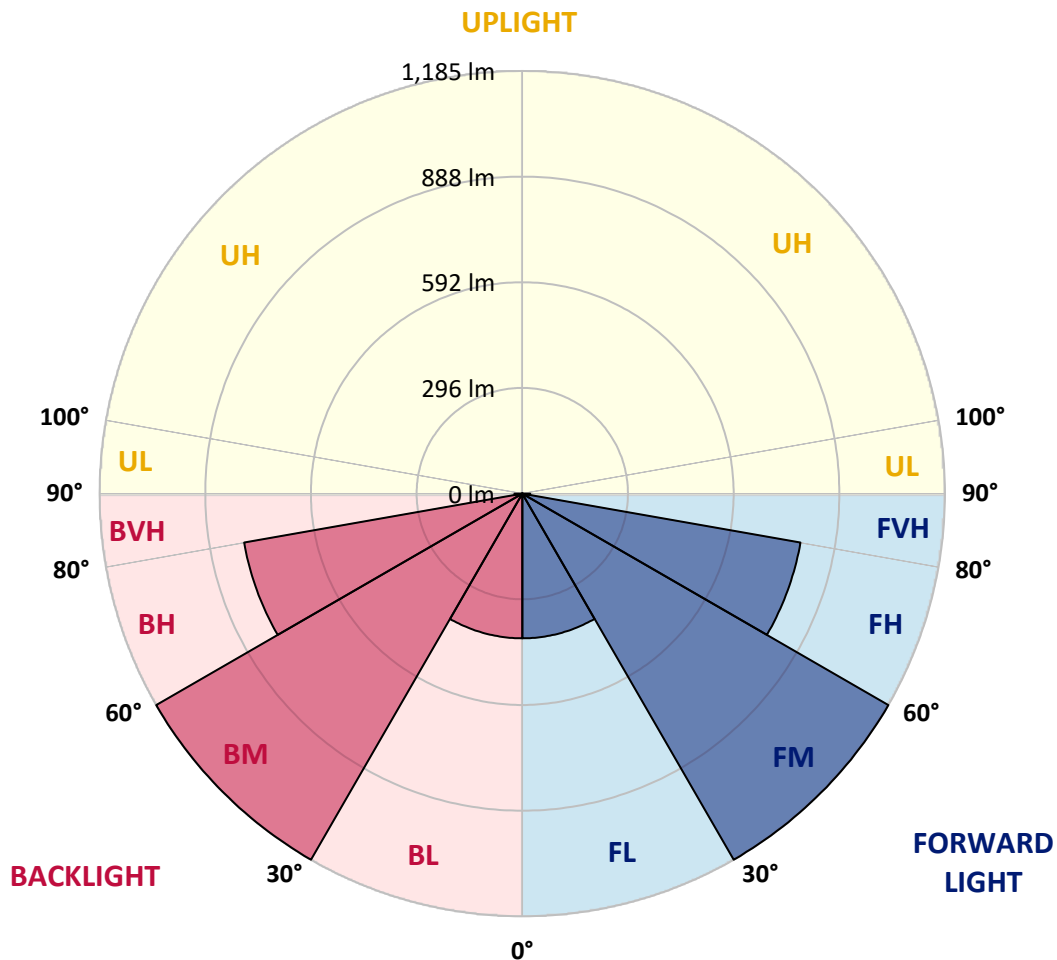
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	405.3	8.4			
FM (30°-60°)	1184.6	24.6			
FH (60°-80°)	791.4	16.5			G1/1800
FVH (80°-90°)	22.2	0.5			G1/100
BL (0°-30°)	405.3	8.4	B1/500		
BM (30°-60°)	1184.6	24.6	B2/2500		
BH (60°-80°)	791.4	16.5	B2/1000		G2/1000
BVH (80°-90°)	22.2	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°	851.0	851.0	851.0	851.0	851.0	851.0	851.0	851.0	851.0	851.0	851.0
2.5°	861.9	861.4	861.6	861.4	862.2	861.6	858.4	855.8	853.7	853.9	853.1
5°	880.3	880.5	880.8	879.5	881.3	880.3	875.2	871.0	866.7	865.1	864.6
7.5°	895.4	896.8	897.6	898.9	902.1	902.1	899.4	893.3	884.0	878.7	878.4
10°	910.6	911.7	914.1	918.3	923.7	928.7	927.6	919.4	907.4	898.4	896.2
12.5°	915.9	917.3	925.3	937.5	949.5	959.3	959.3	952.7	937.2	923.4	919.4
15°	897.3	899.7	914.1	940.2	971.6	993.1	997.9	988.6	972.1	950.8	946.0
17.5°	860.3	866.2	887.2	925.8	978.0	1022.7	1036.5	1032.0	1010.7	983.5	978.0
20°	820.6	827.0	849.4	900.5	972.6	1040.0	1080.2	1081.2	1054.9	1015.5	1007.2
22.5°	777.0	781.8	810.5	870.4	956.7	1044.0	1117.7	1136.1	1100.4	1047.4	1035.7
25°	728.0	733.3	763.4	828.1	926.6	1039.4	1152.0	1192.5	1148.0	1081.5	1066.6
27.5°	681.2	683.3	715.5	781.2	886.9	1027.7	1177.3	1244.4	1200.8	1109.7	1090.8
30°	636.2	641.2	669.7	734.7	841.4	1004.8	1199.2	1303.5	1257.5	1139.3	1115.0
32.5°	588.5	594.7	625.5	691.3	795.9	970.5	1212.5	1368.2	1336.5	1187.2	1161.4
35°	542.7	546.7	577.9	641.8	751.4	930.6	1214.9	1441.1	1438.5	1259.8	1225.5
37.5°	495.9	501.8	533.2	594.4	704.3	888.3	1202.9	1518.6	1561.4	1360.7	1323.7
40°	450.9	456.0	486.8	548.6	650.8	836.6	1174.4	1589.4	1704.9	1464.5	1412.1
42.5°	401.9	403.3	437.1	499.9	598.4	776.7	1133.4	1652.5	1864.9	1603.8	1538.5
45°	346.3	349.8	381.2	442.9	538.2	709.6	1077.8	1704.6	2067.7	1796.7	1707.8
47.5°	290.7	293.6	322.3	383.3	472.5	632.7	992.1	1750.4	2275.9	2041.9	1925.3
50°	236.4	238.0	261.4	315.4	398.5	551.8	885.9	1765.1	2511.2	2389.0	2240.2
52.5°	186.9	189.3	207.1	249.4	319.4	456.2	771.1	1728.9	2785.9	2800.5	2590.8
55°	151.5	152.3	165.6	196.7	249.7	356.2	632.7	1628.0	3081.3	3327.8	3060.3
57.5°	130.4	131.0	138.4	155.7	192.2	268.6	490.8	1437.1	3346.7	3945.6	3601.7
60°	118.5	118.7	123.0	133.1	152.3	206.0	351.6	1167.7	3608.6	4633.2	4274.6
62.5°	111.0	111.0	113.9	119.5	128.8	158.1	254.7	842.5	3788.1	5330.9	5104.1
65°	103.8	103.8	105.9	109.9	115.0	129.4	188.2	549.4	3783.5	5839.0	5938.3
67.5°	95.6	95.6	97.2	101.1	104.1	111.3	145.3	359.9	3398.6	5827.8	6393.5
70°	85.7	85.7	87.8	91.3	93.7	98.2	114.7	246.2	2496.8	4976.0	5685.9
72.5°	75.9	76.1	77.5	80.9	82.8	85.4	95.3	172.5	1531.6	3388.2	3975.7
75°	64.9	65.5	66.8	70.3	71.9	72.9	80.4	123.0	774.9	1826.8	2080.0
77.5°	52.4	53.5	54.3	58.0	59.1	60.7	66.3	88.9	340.2	656.4	662.3
80°	38.3	39.7	42.1	45.5	46.3	47.4	50.6	63.1	154.1	299.7	325.5
82.5°	28.2	30.1	27.2	31.7	31.7	30.3	35.7	42.3	70.8	296.8	355.1
85°	15.4	15.7	14.1	16.2	17.3	17.0	18.9	20.8	34.3	198.0	204.2
87.5°	3.7	4.0	4.3	5.1	6.1	6.1	6.7	5.9	11.2	64.2	36.7
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)