

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: P457295

Luminaire Tested: **GALN-SA8C-827-U-5MQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457295  
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-SA8C-827-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 43771 lumens  
Efficiency: N/A  
Efficacy: 102.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

Input Watts (W): 429  
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

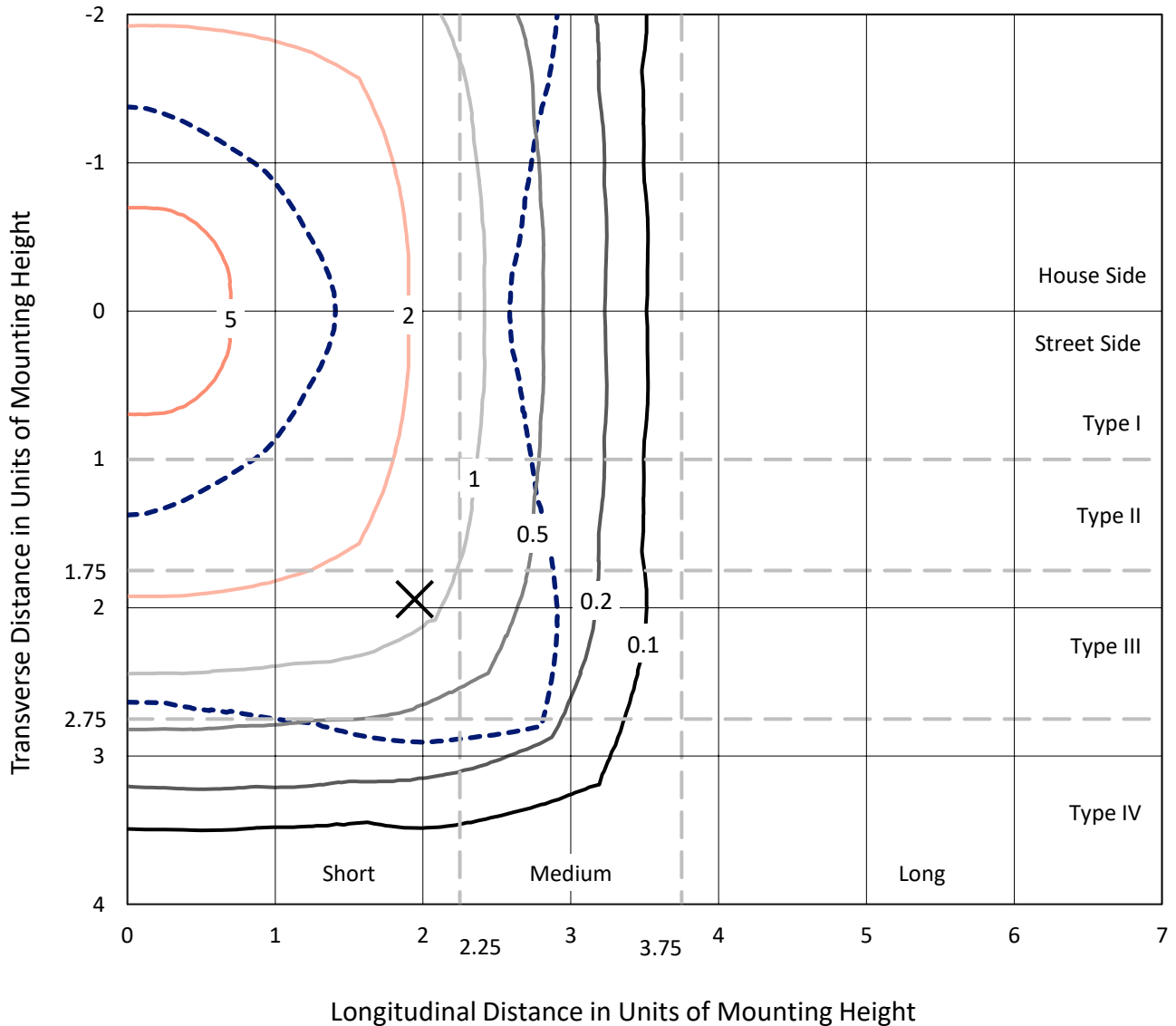




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### Iso-Footcandle Lines of Horizontal Illumination

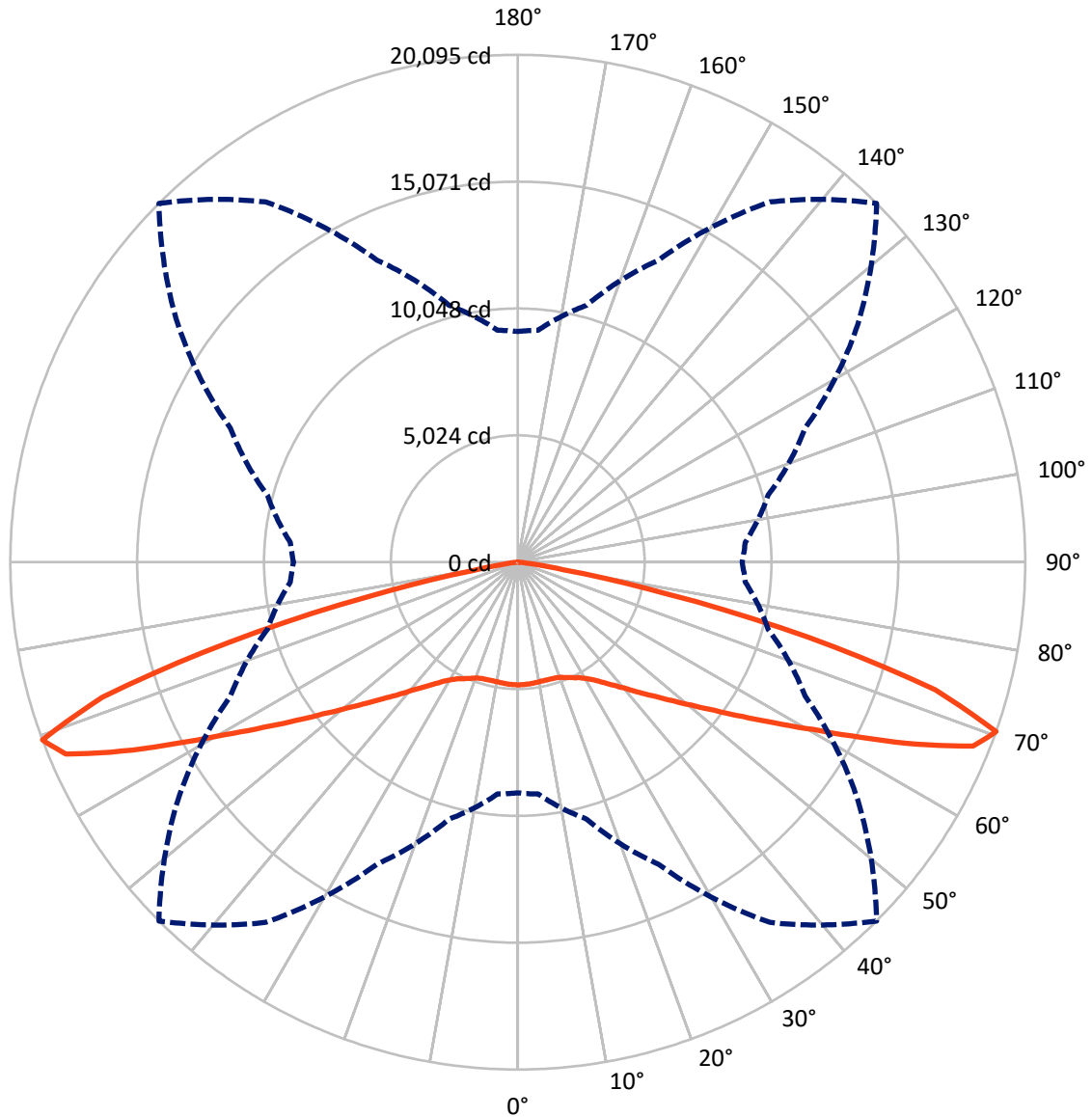
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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	21885.5	0.0	21885.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	21885.5	0.0	21885.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	43771.0	0.0	43771.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	460.9	1.1
10°-20°	1352.5	3.1
20°-30°	2313.3	5.3
30°-40°	3671.6	8.4
40°-50°	5923.3	13.5
50°-60°	9637.3	22.0
60°-70°	13970.7	31.9
70°-80°	6196.9	14.2
80°-90°	244.4	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°	43771.0	100.0
0°-180°	43771.0	100.0



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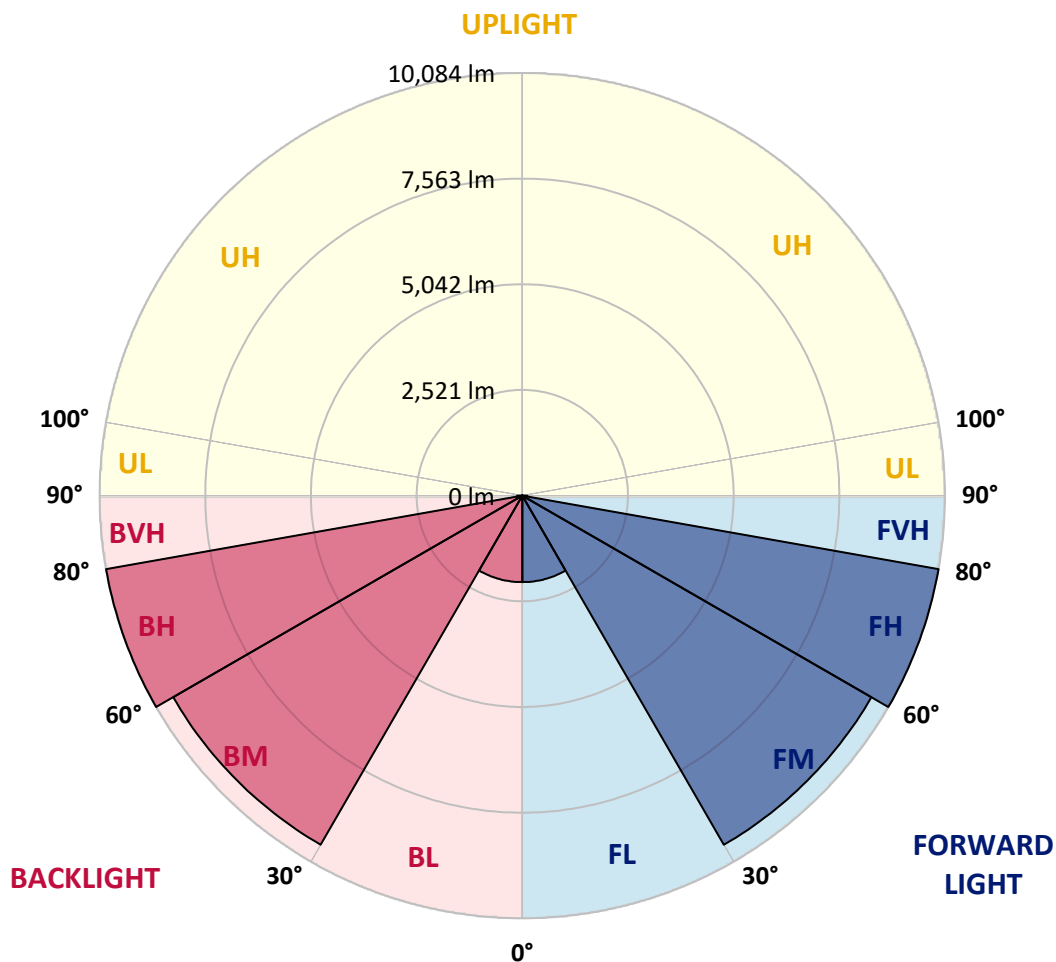
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2063.4	4.7			
FM (30°-60°)	9616.1	22.0			
FH (60°-80°)	10083.8	23.0			G4/12000
FVH (80°-90°)	122.2	0.3			G2/225
BL (0°-30°)	2063.4	4.7	B3/2500		
BM (30°-60°)	9616.1	22.0	B5		
BH (60°-80°)	10083.8	23.0	B5		G4/12000
BVH (80°-90°)	122.2	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G4**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4860.6	4860.6	4860.6	4860.6	4860.6	4860.6	4860.6	4860.6	4860.6	4860.6	4860.6
2.5°	4860.6	4865.2	4858.3	4853.6	4851.3	4851.3	4849.0	4851.3	4865.2	4867.5	4860.6
5°	4846.7	4851.3	4849.0	4844.4	4842.1	4842.1	4839.8	4837.5	4849.0	4853.6	4851.3
7.5°	4828.3	4830.6	4828.3	4826.0	4828.3	4826.0	4819.0	4814.4	4823.7	4823.7	4821.3
10°	4796.0	4800.6	4798.3	4800.6	4805.2	4805.2	4796.0	4786.7	4789.1	4784.4	4784.4
12.5°	4756.8	4763.7	4766.0	4775.2	4786.7	4800.6	4779.8	4759.1	4754.4	4752.1	4749.8
15°	4731.4	4738.3	4747.5	4756.8	4777.5	4807.5	4777.5	4745.2	4736.0	4726.8	4722.2
17.5°	4724.5	4733.7	4747.5	4761.4	4789.1	4819.0	4793.7	4761.4	4738.3	4724.5	4719.8
20°	4742.9	4749.8	4770.6	4796.0	4835.2	4865.2	4839.8	4805.2	4770.6	4749.8	4742.9
22.5°	4779.8	4791.4	4816.7	4862.9	4918.2	4962.1	4927.5	4869.8	4814.4	4786.7	4777.5
25°	4860.6	4869.8	4899.8	4962.1	5026.7	5068.2	5031.3	4964.4	4888.2	4851.3	4839.8
27.5°	4982.8	4996.7	5029.0	5102.8	5155.8	5178.9	5153.5	5107.4	5052.0	5012.8	5003.6
30°	5155.8	5172.0	5220.4	5298.9	5333.5	5347.3	5335.8	5305.8	5266.6	5225.0	5215.8
32.5°	5388.8	5398.1	5453.4	5527.2	5559.5	5564.2	5550.3	5536.5	5471.9	5402.7	5398.1
35°	5649.5	5665.7	5732.6	5820.2	5850.2	5852.5	5824.8	5804.1	5727.9	5672.6	5672.6
37.5°	5995.5	6002.5	6067.1	6166.2	6198.5	6189.3	6175.5	6157.0	6076.3	6004.8	6007.1
40°	6401.5	6415.4	6470.8	6586.1	6586.1	6574.6	6583.8	6569.9	6489.2	6420.0	6422.3
42.5°	6883.7	6890.6	6957.5	7079.8	7070.5	7047.5	7056.7	7038.2	6987.5	6909.1	6881.4
45°	7398.1	7425.8	7541.1	7658.8	7640.3	7566.5	7603.4	7598.8	7552.7	7435.0	7441.9
47.5°	8018.7	8064.8	8175.5	8316.2	8295.5	8180.1	8221.7	8249.3	8184.8	8055.6	8032.5
50°	8717.6	8747.6	8911.4	9042.9	9024.5	8902.2	8996.8	9001.4	8839.9	8657.7	8657.7
52.5°	9462.8	9492.7	9714.2	9919.5	9931.1	9753.4	9829.5	9824.9	9562.0	9322.0	9275.9
55°	10297.8	10311.7	10597.7	10899.9	10964.5	10791.5	10800.7	10708.5	10367.0	10087.9	10062.5
57.5°	11160.6	11211.4	11527.4	11919.6	12111.0	12004.9	11956.5	11709.6	11379.8	11059.1	11043.0
60°	12115.7	12118.0	12528.6	12992.3	13379.8	13451.3	13252.9	12923.1	12496.3	12071.8	12053.4
62.5°	12777.7	12876.9	13396.0	14180.3	14874.7	15276.1	14752.4	14060.3	13220.6	12535.5	12466.3
65°	12913.8	12980.7	13772.0	15100.7	16519.5	17384.5	16173.4	14701.6	13269.1	12355.6	12309.4
67.5°	11813.5	11885.0	12950.7	14990.0	17672.9	19446.9	17096.2	14392.5	12447.8	11317.5	11227.5
70°	9137.5	9218.2	10535.4	13195.3	17416.8	20095.1	16438.7	12554.0	10265.5	9045.2	8881.4
72.5°	4858.3	5155.8	6281.6	9056.7	14136.5	17301.5	13479.0	9160.6	6620.7	5411.9	5195.1
75°	1774.0	1810.9	2438.4	4016.3	8224.0	11864.2	8540.0	4369.2	2512.2	1940.1	1840.9
77.5°	733.6	731.3	802.8	1213.4	2987.4	6076.3	3333.4	1282.6	800.5	740.5	731.3
80°	433.7	433.7	477.5	505.2	786.6	1834.0	878.9	572.1	479.8	438.3	445.2
82.5°	193.8	205.3	302.2	318.3	380.6	502.9	424.5	364.5	313.7	216.8	196.1
85°	106.1	92.3	159.2	166.1	182.2	186.9	200.7	198.4	182.2	106.1	108.4
87.5°	20.8	25.4	46.1	34.6	39.2	34.6	46.1	64.6	66.9	36.9	30.0
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)