

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: P457527

Luminaire Tested: **GALN-SA8D-827-U-5MQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457527  
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-SA8D-827-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 48163 lumens  
Efficiency: N/A  
Efficacy: 97.7 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

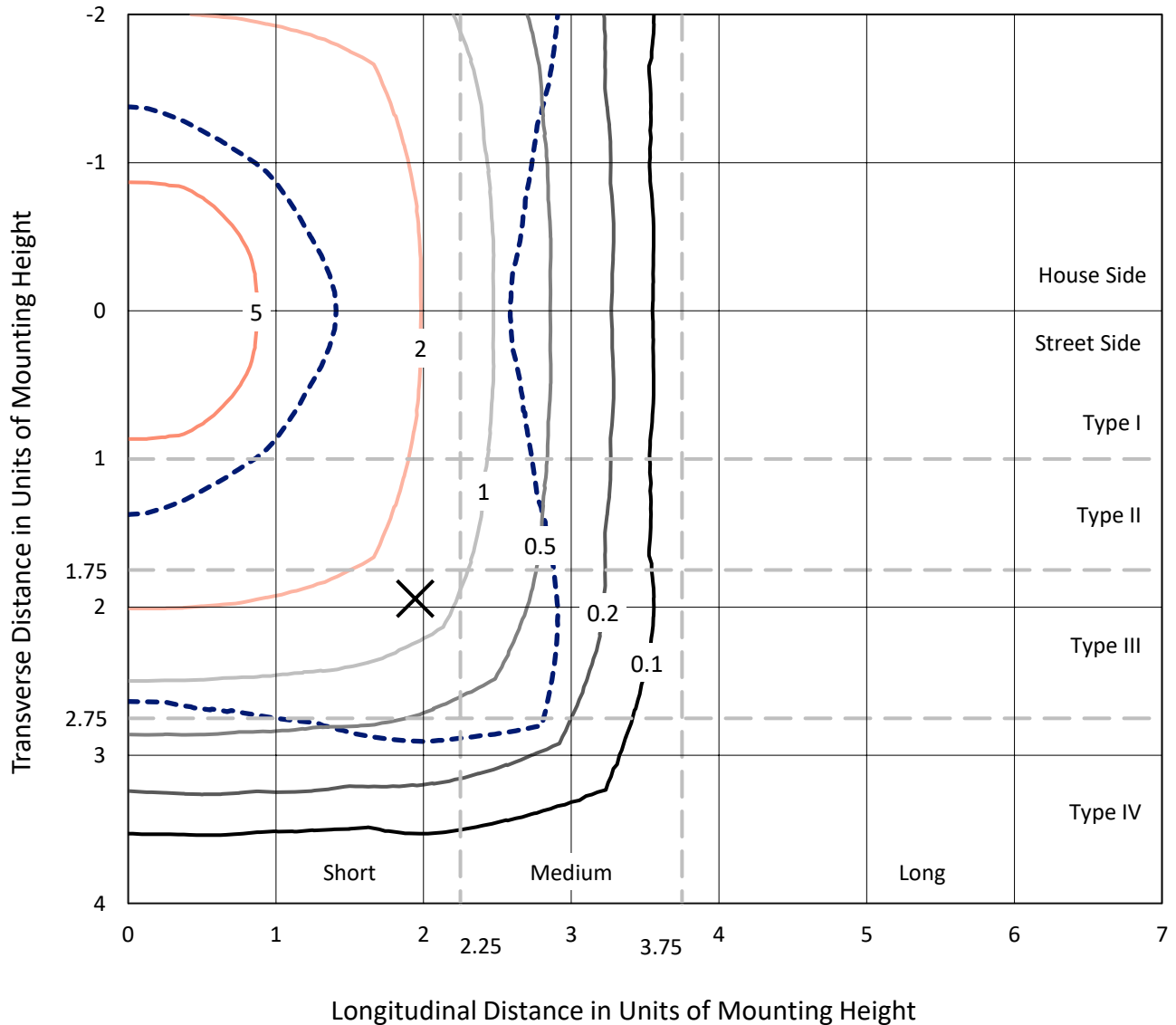
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

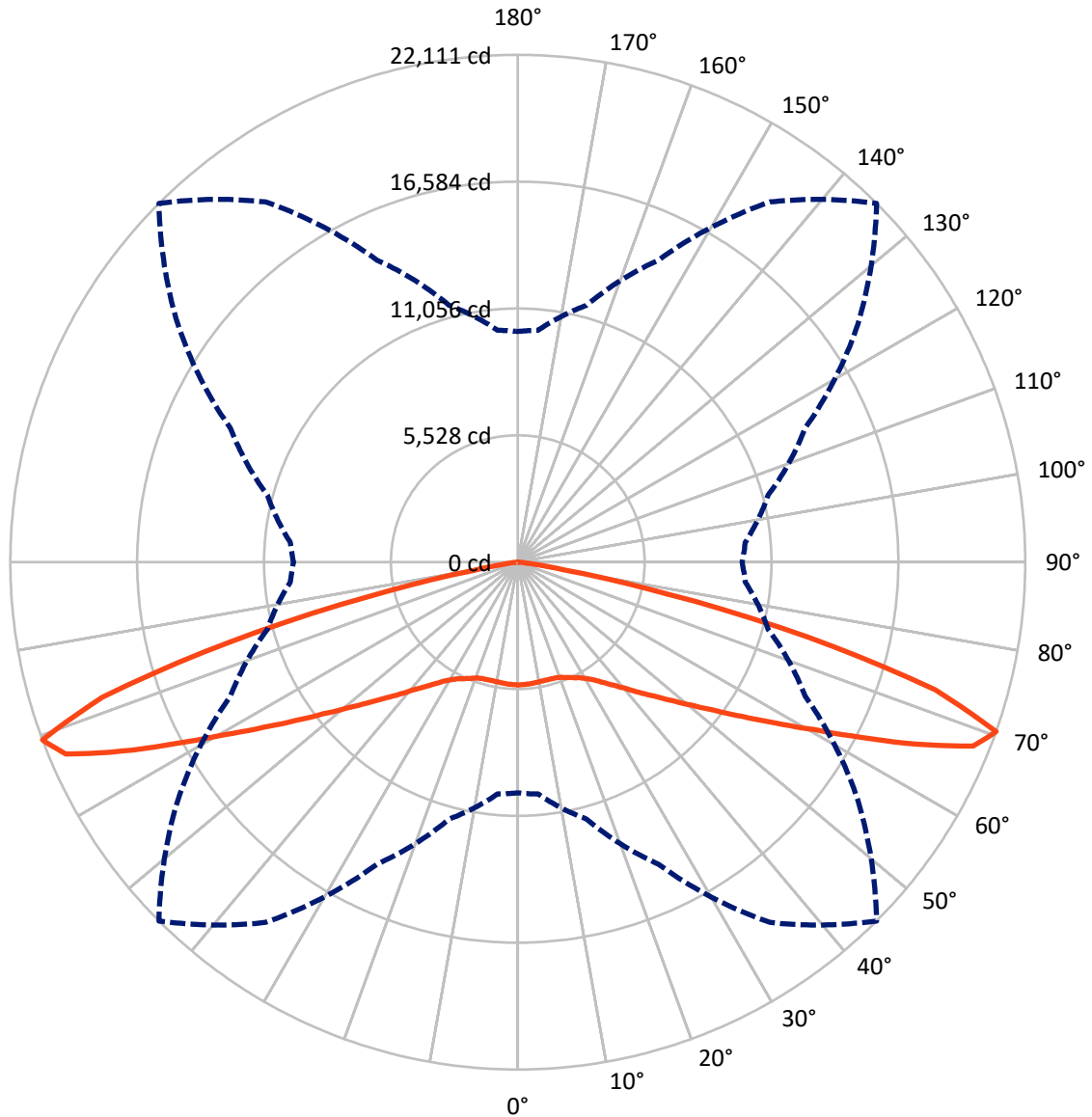
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 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	24081.5	0.0	24081.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	24081.5	0.0	24081.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	48163.0	0.0	48163.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	507.2	1.1
10°-20°	1488.3	3.1
20°-30°	2545.4	5.3
30°-40°	4040.0	8.4
40°-50°	6517.7	13.5
50°-60°	10604.4	22.0
60°-70°	15372.5	31.9
70°-80°	6818.7	14.2
80°-90°	268.9	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°	48163.0	100.0
0°-180°	48163.0	100.0

**Coefficient of Utilization**



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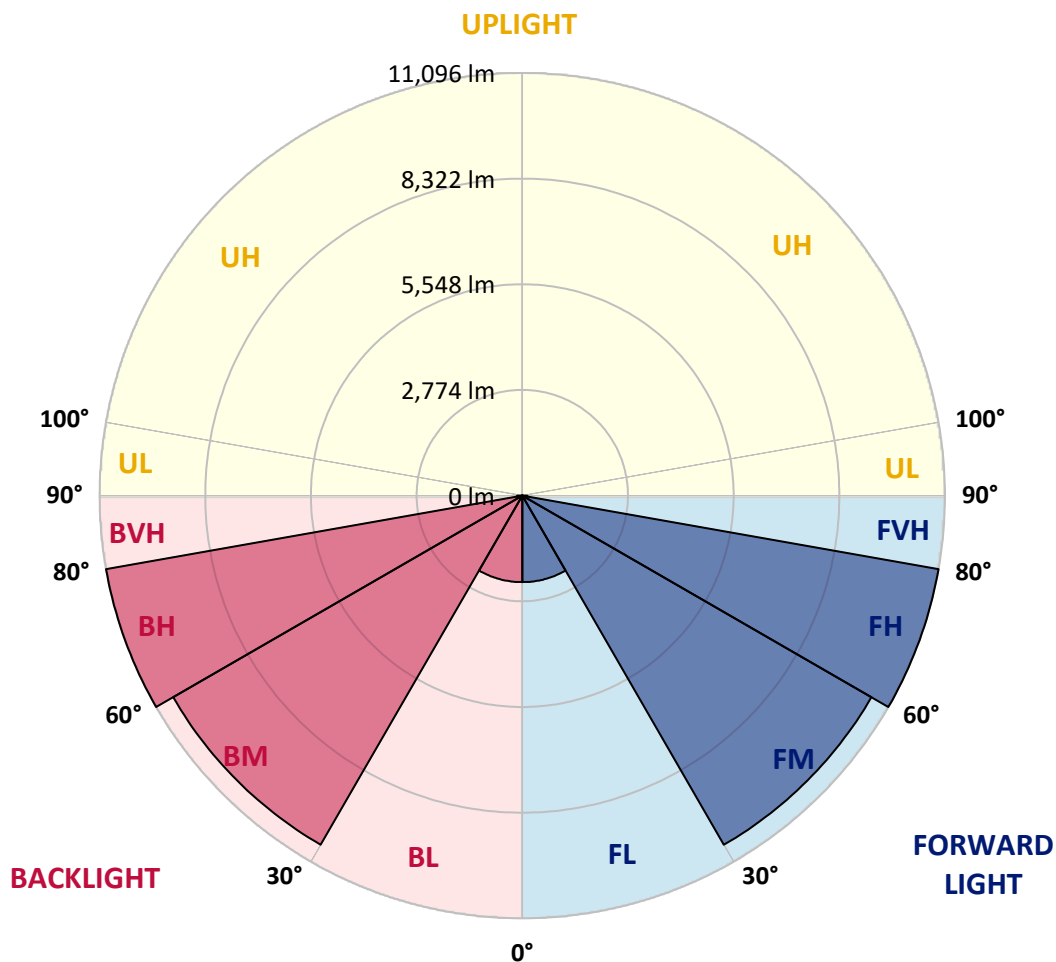
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2270.4	4.7			
FM (30°-60°)	10581.0	22.0			
FH (60°-80°)	11095.6	23.0			G4/12000
FVH (80°-90°)	134.5	0.3			G2/225
BL (0°-30°)	2270.4	4.7	B3/2500		
BM (30°-60°)	10581.0	22.0	B5		
BH (60°-80°)	11095.6	23.0	B5		G4/12000
BVH (80°-90°)	134.5	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°	5348.3	5348.3	5348.3	5348.3	5348.3	5348.3	5348.3	5348.3	5348.3	5348.3	5348.3
2.5°	5348.3	5353.4	5345.7	5340.7	5338.1	5338.1	5335.6	5338.1	5353.4	5355.9	5348.3
5°	5333.0	5338.1	5335.6	5330.5	5328.0	5328.0	5325.4	5322.9	5335.6	5340.7	5338.1
7.5°	5312.7	5315.3	5312.7	5310.2	5312.7	5310.2	5302.6	5297.5	5307.7	5307.7	5305.1
10°	5277.2	5282.3	5279.7	5282.3	5287.4	5287.4	5277.2	5267.0	5269.6	5264.5	5264.5
12.5°	5234.0	5241.7	5244.2	5254.4	5267.0	5282.3	5259.4	5236.6	5231.5	5229.0	5226.4
15°	5206.1	5213.7	5223.9	5234.0	5256.9	5289.9	5256.9	5221.4	5211.2	5201.1	5196.0
17.5°	5198.5	5208.7	5223.9	5239.1	5269.6	5302.6	5274.7	5239.1	5213.7	5198.5	5193.4
20°	5218.8	5226.4	5249.3	5277.2	5320.4	5353.4	5325.4	5287.4	5249.3	5226.4	5218.8
22.5°	5259.4	5272.1	5300.0	5350.8	5411.7	5460.0	5421.9	5358.4	5297.5	5267.0	5256.9
25°	5348.3	5358.4	5391.4	5460.0	5531.0	5576.7	5536.1	5462.5	5378.7	5338.1	5325.4
27.5°	5482.8	5498.0	5533.6	5614.8	5673.2	5698.6	5670.6	5619.9	5559.0	5515.8	5505.7
30°	5673.2	5690.9	5744.3	5830.6	5868.6	5883.9	5871.2	5838.2	5795.0	5749.3	5739.2
32.5°	5929.6	5939.7	6000.6	6081.9	6117.4	6122.5	6107.2	6092.0	6020.9	5944.8	5939.7
35°	6216.4	6234.2	6307.8	6404.2	6437.2	6439.8	6409.3	6386.5	6302.7	6241.8	6241.8
37.5°	6597.1	6604.8	6675.8	6785.0	6820.5	6810.4	6795.1	6774.8	6686.0	6607.3	6609.8
40°	7043.9	7059.1	7120.0	7246.9	7246.9	7234.3	7244.4	7229.2	7140.3	7064.2	7066.7
42.5°	7574.4	7582.0	7655.6	7790.2	7780.0	7754.6	7764.8	7744.5	7688.6	7602.3	7571.9
45°	8140.4	8170.9	8297.8	8427.3	8407.0	8325.7	8366.4	8361.3	8310.5	8181.1	8188.7
47.5°	8823.3	8874.0	8995.9	9150.7	9127.9	9000.9	9046.6	9077.1	9006.0	8863.9	8838.5
50°	9592.4	9625.4	9805.6	9950.3	9930.0	9795.4	9899.5	9904.6	9726.9	9526.4	9526.4
52.5°	10412.3	10445.3	10688.9	10914.8	10927.5	10732.1	10815.9	10810.8	10521.4	10257.4	10206.6
55°	11331.1	11346.4	11661.1	11993.6	12064.7	11874.3	11884.5	11783.0	11407.3	11100.1	11072.2
57.5°	12280.5	12336.3	12684.1	13115.6	13326.3	13209.5	13156.2	12884.6	12521.6	12168.8	12151.0
60°	13331.3	13333.9	13785.7	14295.9	14722.3	14801.0	14582.7	14219.8	13750.2	13283.1	13262.8
62.5°	14059.8	14169.0	14740.1	15603.2	16367.2	16808.9	16232.7	15471.2	14547.2	13793.3	13717.2
65°	14209.6	14283.2	15153.9	16615.9	18177.0	19128.9	17796.3	16176.8	14600.5	13595.3	13544.6
67.5°	12998.8	13077.5	14250.2	16494.1	19446.2	21398.2	18811.6	15836.7	13696.9	12453.1	12354.1
70°	10054.3	10143.2	11592.6	14519.3	19164.4	22111.4	18088.2	13813.6	11295.6	9952.8	9772.6
72.5°	5345.7	5673.2	6911.9	9965.5	15554.9	19037.5	14831.5	10079.7	7285.0	5954.9	5716.3
75°	1952.0	1992.6	2683.0	4419.2	9049.2	13054.7	9396.9	4807.6	2764.2	2134.7	2025.6
77.5°	807.2	804.7	883.3	1335.2	3287.1	6686.0	3667.9	1411.3	880.8	814.8	804.7
80°	477.2	477.2	525.4	555.9	865.6	2018.0	967.1	629.5	528.0	482.3	489.9
82.5°	213.2	225.9	332.5	350.3	418.8	553.4	467.1	401.1	345.2	238.6	215.8
85°	116.8	101.5	175.1	182.8	200.5	205.6	220.8	218.3	200.5	116.8	119.3
87.5°	22.8	27.9	50.8	38.1	43.2	38.1	50.8	71.1	73.6	40.6	33.0
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)