

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: P458223

Luminaire Tested: **GALN-SA9C-827-U-5MQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458223  
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-SA9C-827-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 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: 49140 lumens  
Efficiency: N/A  
Efficacy: 102.2 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

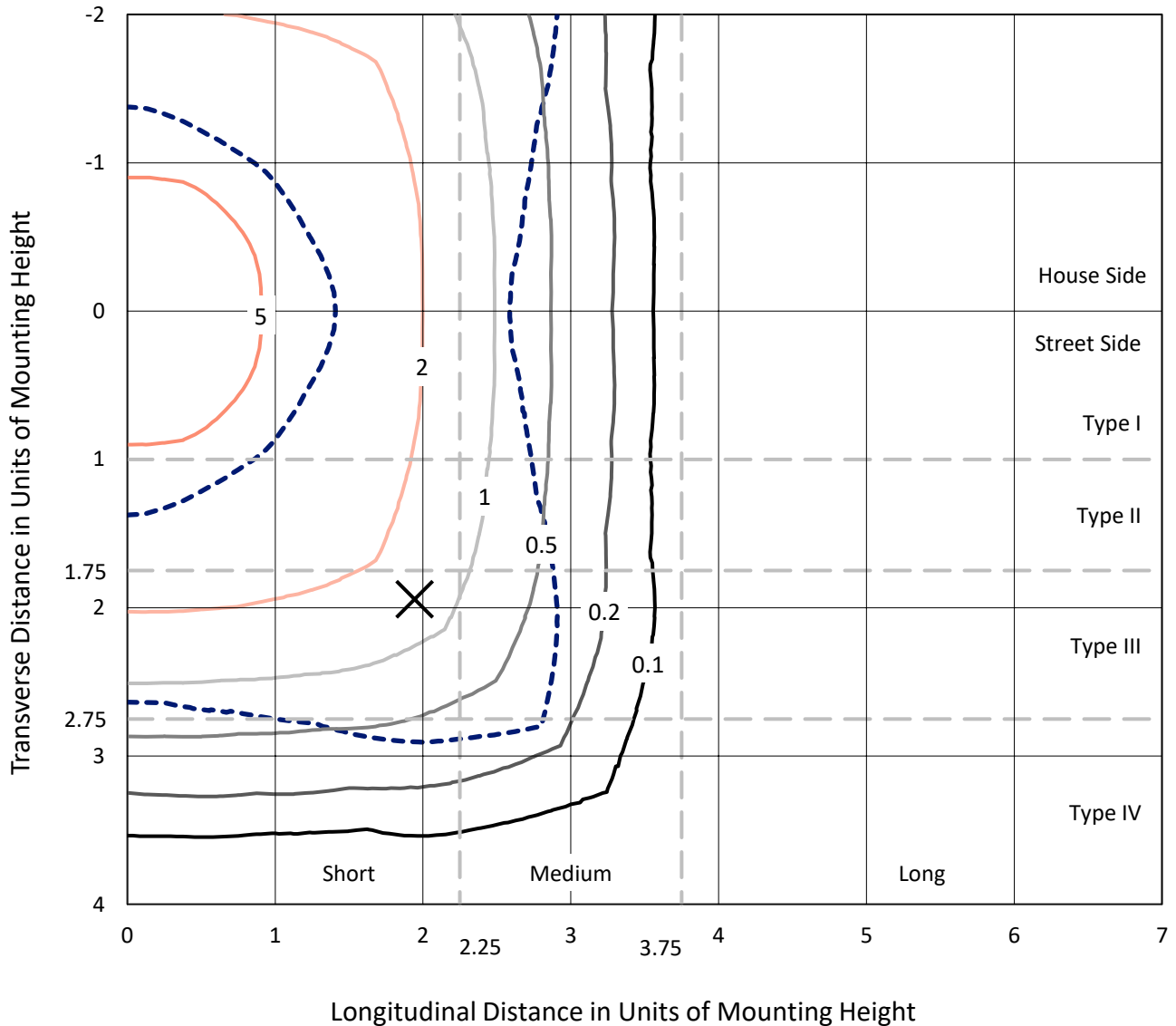
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

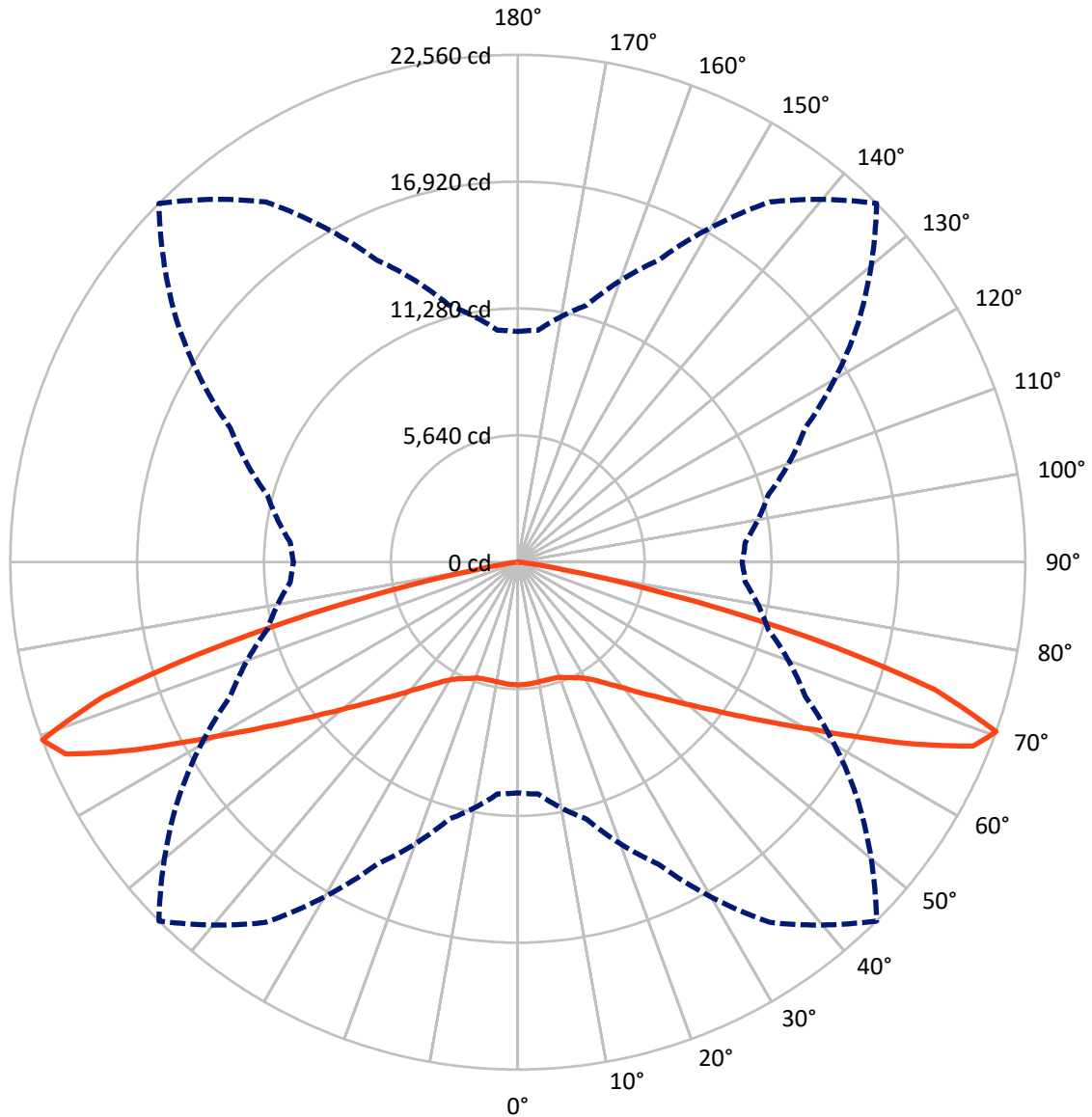
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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	24570.0	0.0	24570.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	24570.0	0.0	24570.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	49140.0	0.0	49140.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	517.4	1.1
10°-20°	1518.5	3.1
20°-30°	2597.0	5.3
30°-40°	4122.0	8.4
40°-50°	6649.9	13.5
50°-60°	10819.5	22.0
60°-70°	15684.3	31.9
70°-80°	6957.0	14.2
80°-90°	274.4	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°	49140.0	100.0
0°-180°	49140.0	100.0

**Coefficient of Utilization**



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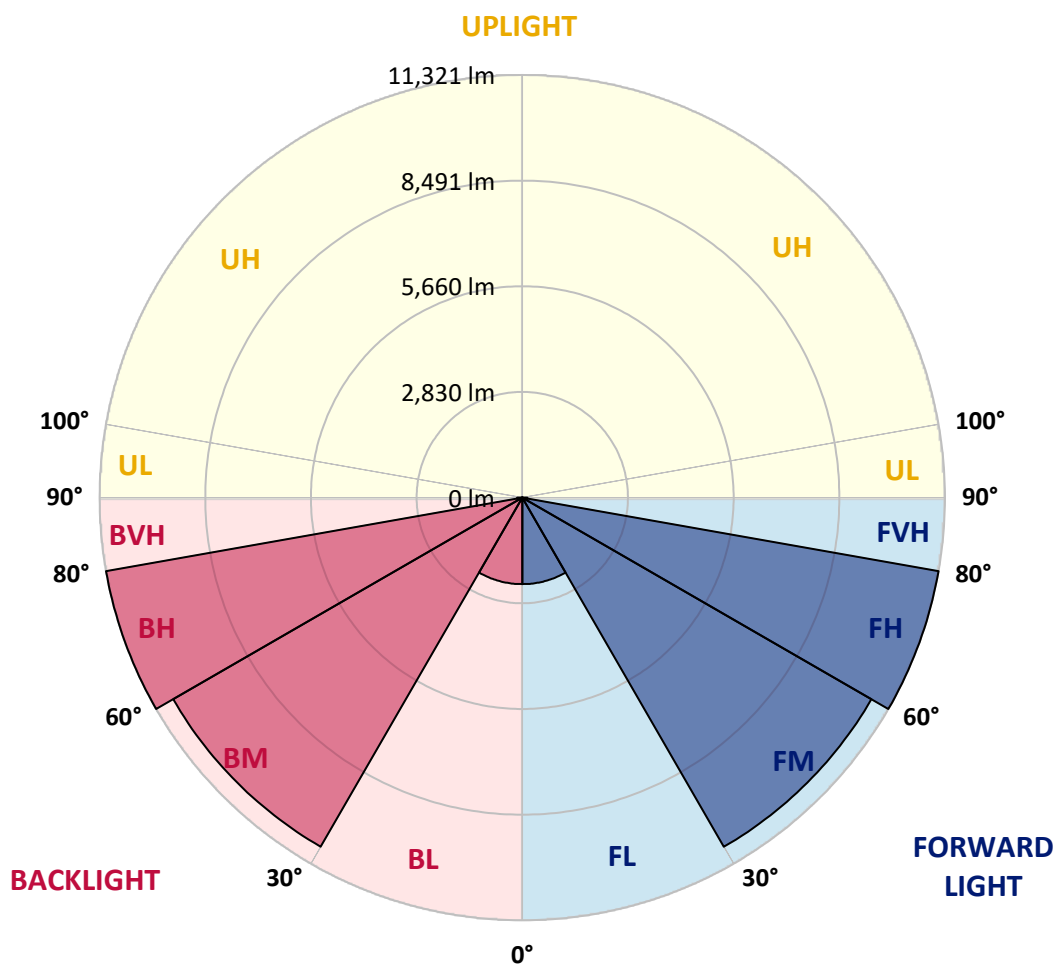
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2316.5	4.7			
FM	(30°-60°)	10795.7	22.0			
FH	(60°-80°)	11320.7	23.0			G4/12000
FVH	(80°-90°)	137.2	0.3			G2/225
BL	(0°-30°)	2316.5	4.7	B3/2500		
BM	(30°-60°)	10795.7	22.0	B5		
BH	(60°-80°)	11320.7	23.0	B5		G4/12000
BVH	(80°-90°)	137.2	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°	5456.8	5456.8	5456.8	5456.8	5456.8	5456.8	5456.8	5456.8	5456.8	5456.8	5456.8
2.5°	5456.8	5461.9	5454.2	5449.0	5446.4	5446.4	5443.8	5446.4	5461.9	5464.5	5456.8
5°	5441.2	5446.4	5443.8	5438.6	5436.0	5436.0	5433.5	5430.9	5443.8	5449.0	5446.4
7.5°	5420.5	5423.1	5420.5	5417.9	5420.5	5417.9	5410.1	5405.0	5415.3	5415.3	5412.7
10°	5384.3	5389.4	5386.8	5389.4	5394.6	5394.6	5384.3	5373.9	5376.5	5371.3	5371.3
12.5°	5340.2	5348.0	5350.6	5360.9	5373.9	5389.4	5366.1	5342.8	5337.6	5335.0	5332.5
15°	5311.7	5319.5	5329.9	5340.2	5363.5	5397.2	5363.5	5327.3	5316.9	5306.6	5301.4
17.5°	5304.0	5314.3	5329.9	5345.4	5376.5	5410.1	5381.7	5345.4	5319.5	5304.0	5298.8
20°	5324.7	5332.5	5355.8	5384.3	5428.3	5461.9	5433.5	5394.6	5355.8	5332.5	5324.7
22.5°	5366.1	5379.1	5407.6	5459.4	5521.5	5570.7	5531.9	5467.1	5405.0	5373.9	5363.5
25°	5456.8	5467.1	5500.8	5570.7	5643.2	5689.8	5648.4	5573.3	5487.8	5446.4	5433.5
27.5°	5594.0	5609.6	5645.8	5728.7	5788.3	5814.2	5785.7	5733.9	5671.7	5627.7	5617.3
30°	5788.3	5806.4	5860.8	5948.8	5987.7	6003.2	5990.3	5956.6	5912.6	5866.0	5855.6
32.5°	6049.8	6060.2	6122.4	6205.2	6241.5	6246.7	6231.1	6215.6	6143.1	6065.4	6060.2
35°	6342.5	6360.6	6435.7	6534.1	6567.8	6570.4	6539.3	6516.0	6430.5	6368.4	6368.4
37.5°	6731.0	6738.7	6811.2	6922.6	6958.9	6948.5	6933.0	6912.2	6821.6	6741.3	6743.9
40°	7186.8	7202.3	7264.5	7394.0	7394.0	7381.0	7391.4	7375.8	7285.2	7207.5	7210.1
42.5°	7728.0	7735.8	7810.9	7948.2	7937.8	7911.9	7922.3	7901.6	7844.6	7756.5	7725.5
45°	8305.6	8336.7	8466.1	8598.2	8577.5	8494.6	8536.1	8530.9	8479.1	8347.0	8354.8
47.5°	9002.2	9054.0	9178.3	9336.3	9313.0	9183.5	9230.1	9261.2	9188.7	9043.7	9017.8
50°	9787.0	9820.6	10004.5	10152.1	10131.4	9994.1	10100.3	10105.5	9924.2	9719.6	9719.6
52.5°	10623.5	10657.1	10905.8	11136.3	11149.2	10949.8	11035.3	11030.1	10734.8	10465.5	10413.7
55°	11561.0	11576.5	11897.7	12236.9	12309.4	12115.2	12125.6	12022.0	11638.7	11325.3	11296.8
57.5°	12529.6	12586.6	12941.4	13381.6	13596.6	13477.5	13423.1	13146.0	12775.6	12415.6	12397.5
60°	13601.8	13604.4	14065.4	14585.9	15021.0	15101.3	14878.6	14508.2	14029.1	13552.6	13531.8
62.5°	14345.1	14456.4	15039.1	15919.7	16699.2	17149.8	16561.9	15785.0	14842.3	14073.1	13995.4
65°	14497.9	14573.0	15461.3	16953.0	18545.8	19516.9	18157.3	16505.0	14896.7	13871.1	13819.3
67.5°	13262.5	13342.8	14539.3	16828.7	19840.7	21832.2	19193.2	16157.9	13974.7	12705.7	12604.7
70°	10258.3	10348.9	11827.7	14813.8	19553.2	22560.0	18455.1	14093.8	11524.7	10154.7	9970.8
72.5°	5454.2	5788.3	7052.1	10167.7	15870.5	19423.7	15132.4	10284.2	7432.8	6075.7	5832.3
75°	1991.6	2033.0	2737.4	4508.9	9232.7	13319.5	9587.5	4905.1	2820.3	2178.0	2066.7
77.5°	823.6	821.0	901.3	1362.2	3353.8	6821.6	3742.3	1439.9	898.7	831.3	821.0
80°	486.9	486.9	536.1	567.2	883.1	2058.9	986.7	642.3	538.7	492.1	499.8
82.5°	217.5	230.5	339.3	357.4	427.3	564.6	476.5	409.2	352.2	243.4	220.1
85°	119.1	103.6	178.7	186.5	204.6	209.8	225.3	222.7	204.6	119.1	121.7
87.5°	23.3	28.5	51.8	38.8	44.0	38.8	51.8	72.5	75.1	41.4	33.7
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)