

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: P533455

Luminaire Tested: **GALN-SA8D-827-U-RW-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533455  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8D-827-U-RW-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR  
WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29677 lumens  
Efficiency: N/A  
Efficacy: 60.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

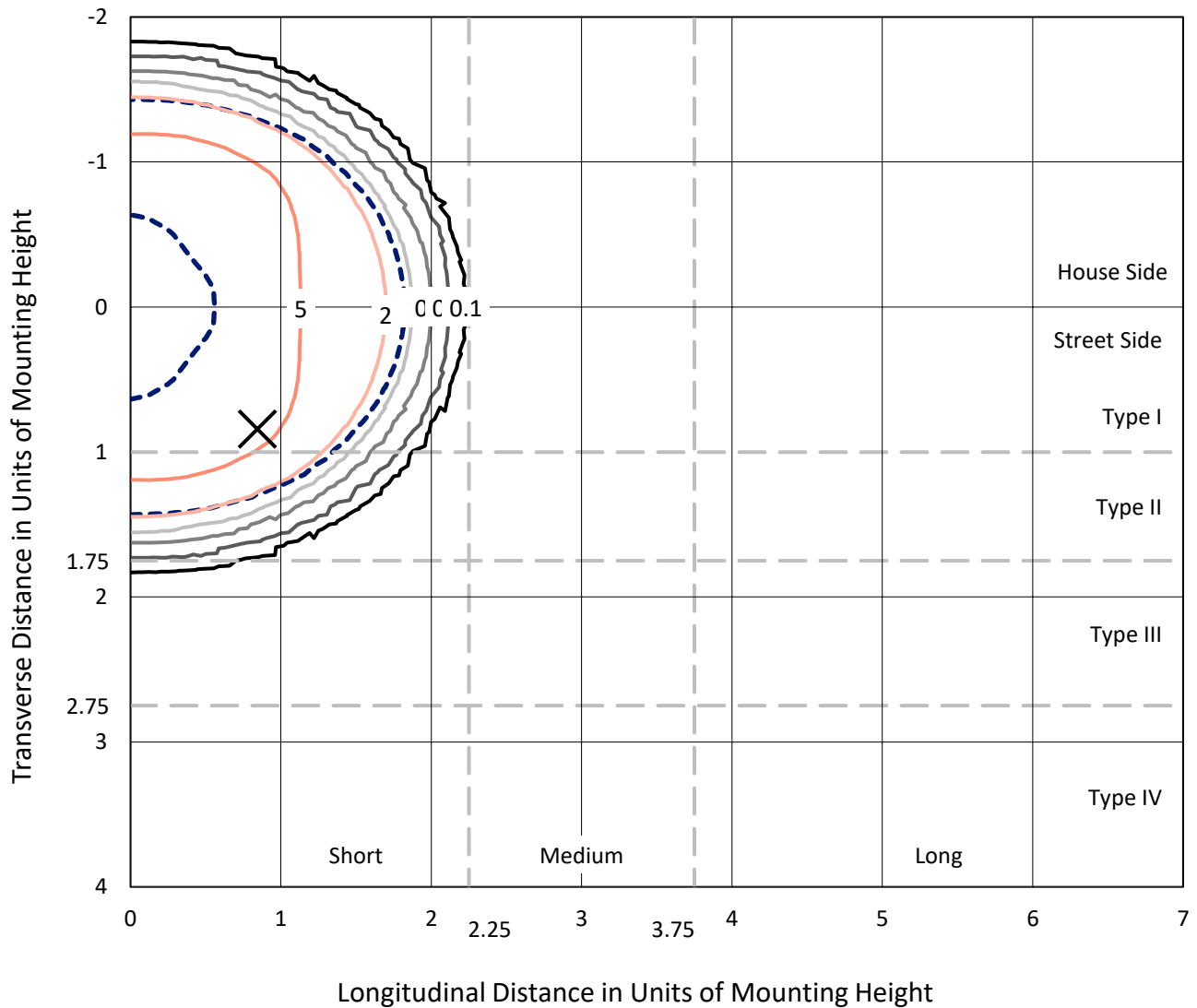
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

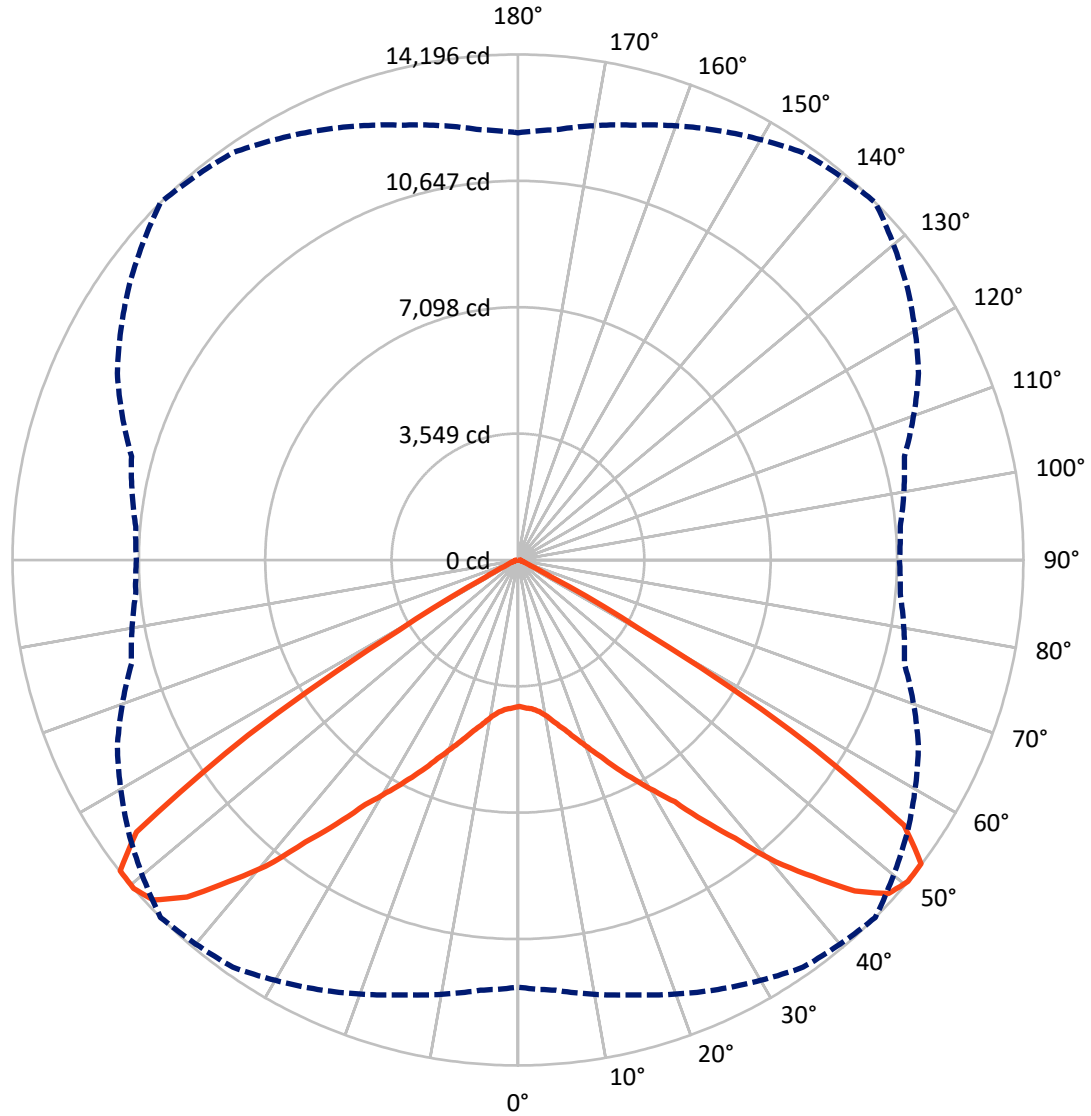
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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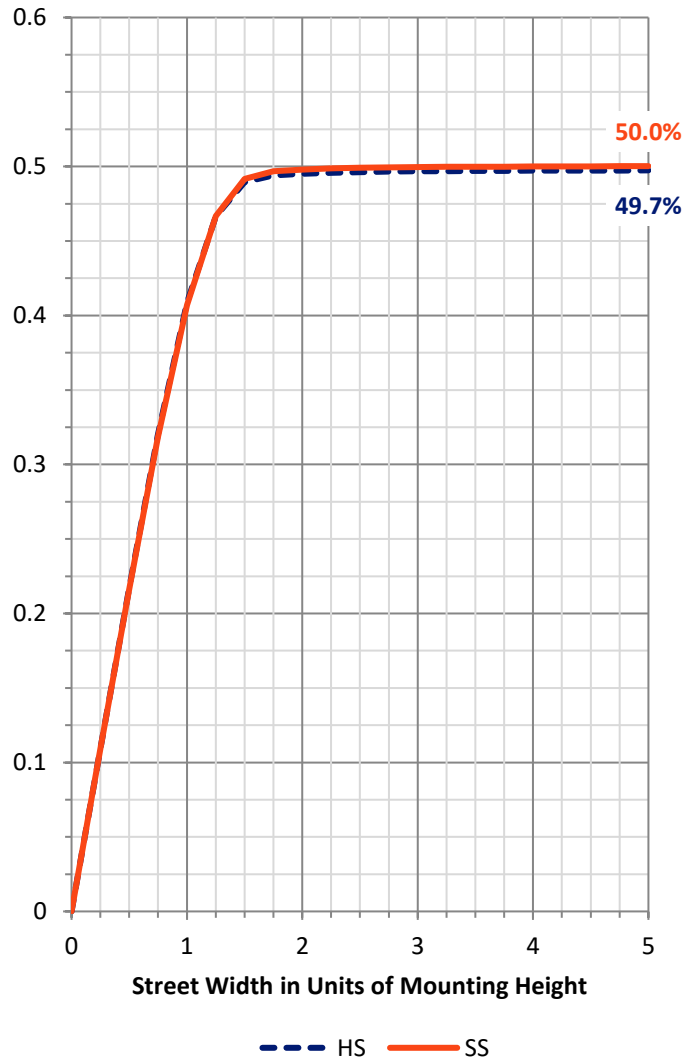
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14838.5	0.0	14838.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	14838.5	0.0	14838.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	29677.0	0.0	29677.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	409.3	1.4
10°-20°	1410.7	4.8
20°-30°	2881.3	9.7
30°-40°	5494.6	18.5
40°-50°	9259.3	31.2
50°-60°	8830.4	29.8
60°-70°	1232.7	4.2
70°-80°	117.9	0.4
80°-90°	40.7	0.1
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°	29677.0	100.0
0°-180°	29677.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P533455

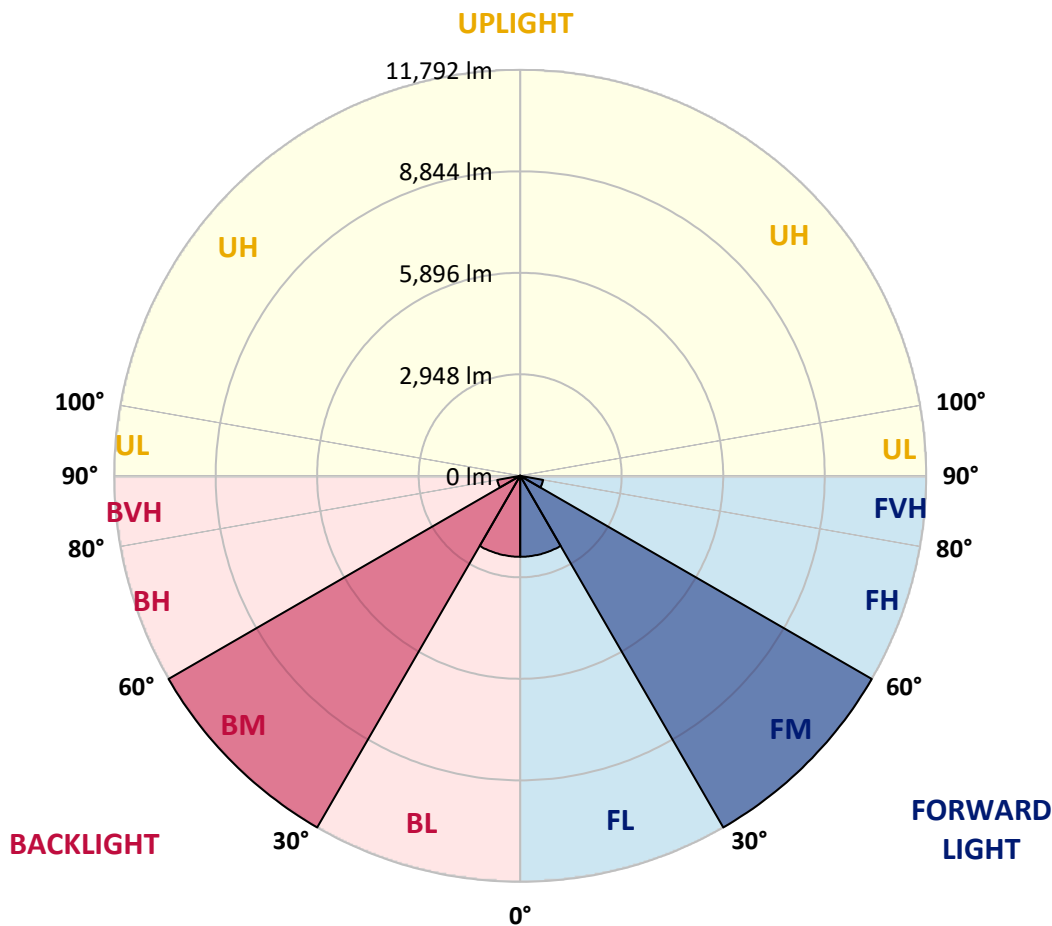
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2350.7	7.9			
FM (30°-60°)	11792.2	39.7			
FH (60°-80°)	675.3	2.3			G1/1800
FVH (80°-90°)	20.4	0.1			G1/100
BL (0°-30°)	2350.7	7.9	B3/2500		
BM (30°-60°)	11792.2	39.7	B5		
BH (60°-80°)	675.3	2.3	B2/1000		G1/1800
BVH (80°-90°)	20.4	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4114.4	4114.4	4114.4	4114.4	4114.4	4114.4	4114.4	4114.4	4114.4	4114.4	4114.4
2.5°	4099.4	4099.4	4094.4	4134.4	4114.4	4159.3	4154.3	4169.3	4184.3	4179.3	4219.2
5°	4064.5	4059.5	4059.5	4104.4	4149.3	4199.3	4244.2	4274.2	4324.1	4324.1	4374.0
7.5°	4099.4	4074.4	4109.4	4129.4	4214.3	4299.1	4374.0	4434.0	4548.8	4588.7	4573.8
10°	4109.4	4139.4	4164.3	4224.2	4329.1	4458.9	4523.8	4673.6	4803.4	4893.3	4913.3
12.5°	4174.3	4219.2	4289.2	4434.0	4528.8	4698.6	4788.5	4933.3	5113.0	5212.9	5282.8
15°	4299.1	4314.1	4404.0	4588.7	4793.5	4948.3	5088.1	5192.9	5367.7	5482.5	5487.5
17.5°	4458.9	4523.8	4648.7	4823.4	5038.1	5267.8	5377.7	5492.5	5557.4	5712.2	5747.2
20°	4778.5	4788.5	4908.3	5138.0	5407.6	5617.3	5697.2	5757.1	5732.2	5892.0	5921.9
22.5°	5078.1	5088.1	5237.9	5547.4	5837.0	6016.8	6051.7	6016.8	5941.9	6056.7	6066.7
25°	5382.7	5472.5	5582.4	5892.0	6251.5	6491.1	6496.1	6401.3	6246.5	6266.5	6316.4
27.5°	5857.0	5921.9	6036.8	6321.4	6715.8	6985.5	6940.5	6825.7	6626.0	6640.9	6626.0
30°	6411.3	6471.2	6566.0	6930.5	7220.2	7514.8	7579.7	7469.8	7170.2	7105.3	7180.2
32.5°	7080.3	7165.2	7340.0	7674.5	7919.2	8099.0	8143.9	8103.9	7824.3	7799.4	7849.3
35°	7894.2	8009.1	8168.9	8463.5	8663.2	8987.7	8987.7	8852.9	8598.3	8628.2	8623.2
37.5°	8753.1	8922.8	9172.5	9472.1	9741.7	9916.5	9861.6	9746.7	9492.1	9427.1	9492.1
40°	9831.6	9916.5	10231.0	10620.5	10950.1	11149.8	10915.1	10665.5	10056.3	10151.2	10325.9
42.5°	10815.3	10950.1	11189.7	11619.2	11993.6	12158.4	11878.8	11384.5	10650.5	10575.6	10705.4
45°	11654.1	11798.9	12113.5	12727.6	13122.1	13266.9	12647.8	11848.8	11010.0	10820.2	10875.2
47.5°	12213.3	12288.2	12727.6	13311.8	13671.4	14000.9	13112.1	12168.4	11179.8	10820.2	10800.3
50°	11998.6	12128.5	12642.8	13306.9	13961.0	14195.6	13346.8	12413.1	11234.7	10775.3	10715.4
52.5°	10655.5	10880.2	11454.4	12348.2	13336.8	14175.7	13671.4	12333.2	11214.7	10820.2	10910.1
55°	7414.9	7419.9	8118.9	9437.1	11184.7	13162.1	13197.0	12423.1	11344.5	11099.9	11104.9
57.5°	2980.9	3130.7	3665.0	4988.2	6601.0	9037.7	10745.3	11524.3	11359.5	11299.6	11454.4
60°	754.0	759.0	923.7	1408.1	2321.8	3874.7	5627.3	7614.6	8768.0	9162.5	9217.4
62.5°	384.5	389.5	429.4	499.3	634.1	1038.6	1847.5	2931.0	4169.3	4798.5	4963.2
65°	314.6	314.6	339.5	374.5	379.5	399.5	479.3	684.1	993.6	1128.5	1143.4
67.5°	239.7	239.7	259.6	279.6	289.6	284.6	274.6	284.6	344.5	329.6	319.6
70°	149.8	154.8	164.8	184.7	194.7	199.7	204.7	214.7	244.7	254.7	244.7
72.5°	89.9	89.9	94.9	109.9	124.8	134.8	149.8	159.8	174.8	199.7	194.7
75°	39.9	39.9	49.9	64.9	79.9	94.9	109.9	124.8	134.8	149.8	154.8
77.5°	10.0	15.0	25.0	44.9	59.9	79.9	99.9	114.8	124.8	124.8	119.8
80°	5.0	5.0	20.0	35.0	64.9	84.9	109.9	119.8	134.8	124.8	109.9
82.5°	5.0	5.0	20.0	35.0	59.9	84.9	114.8	129.8	139.8	124.8	104.9
85°	0.0	5.0	15.0	30.0	49.9	59.9	49.9	35.0	20.0	20.0	15.0
87.5°	0.0	0.0	5.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)