

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: P530406

Luminaire Tested: **GALN-SA5C-827-U-5MQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530406  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5C-827-U-5MQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22845 lumens  
Efficiency: N/A  
Efficacy: 84.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1

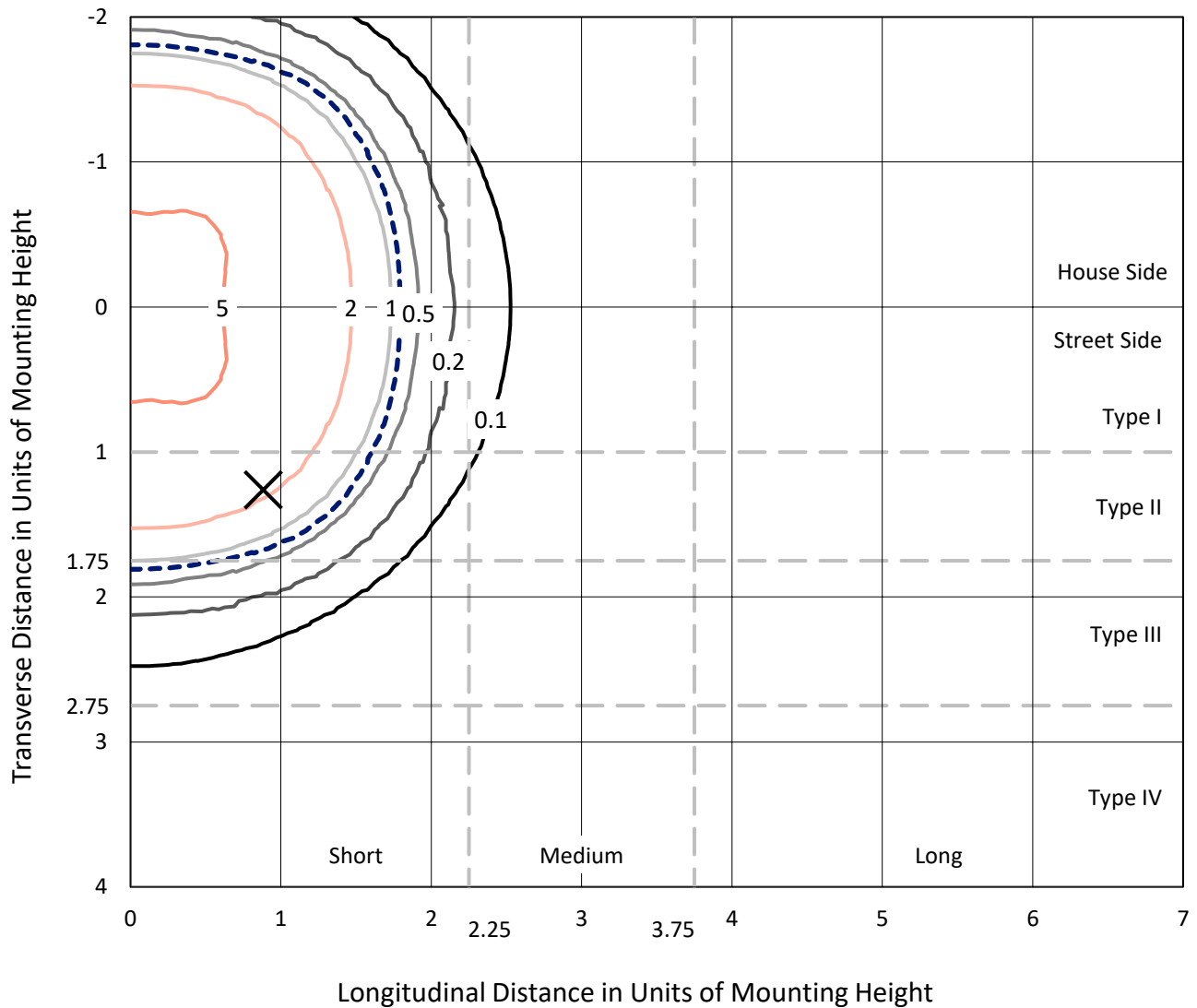
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

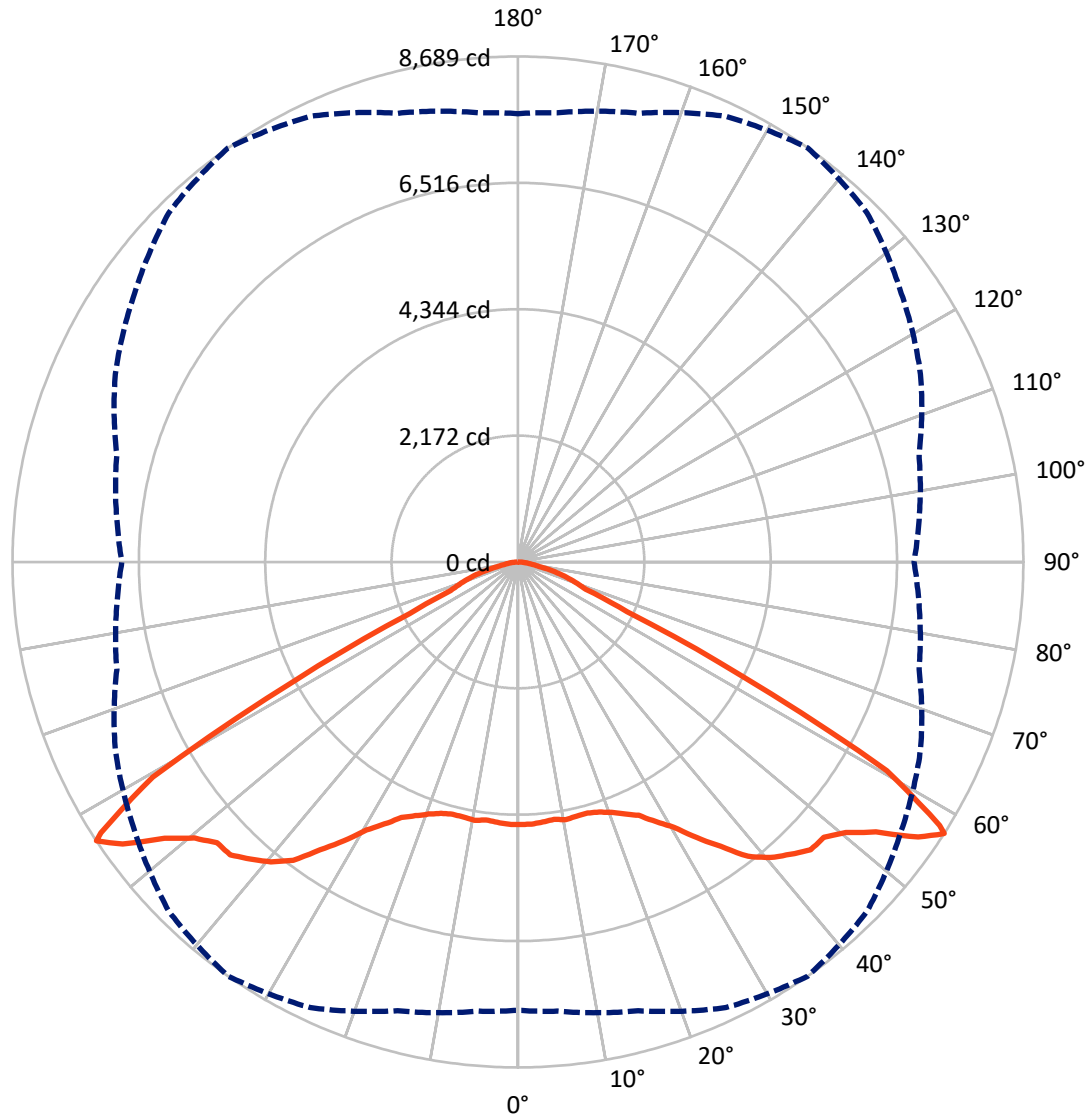
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 57-Deg Vertical

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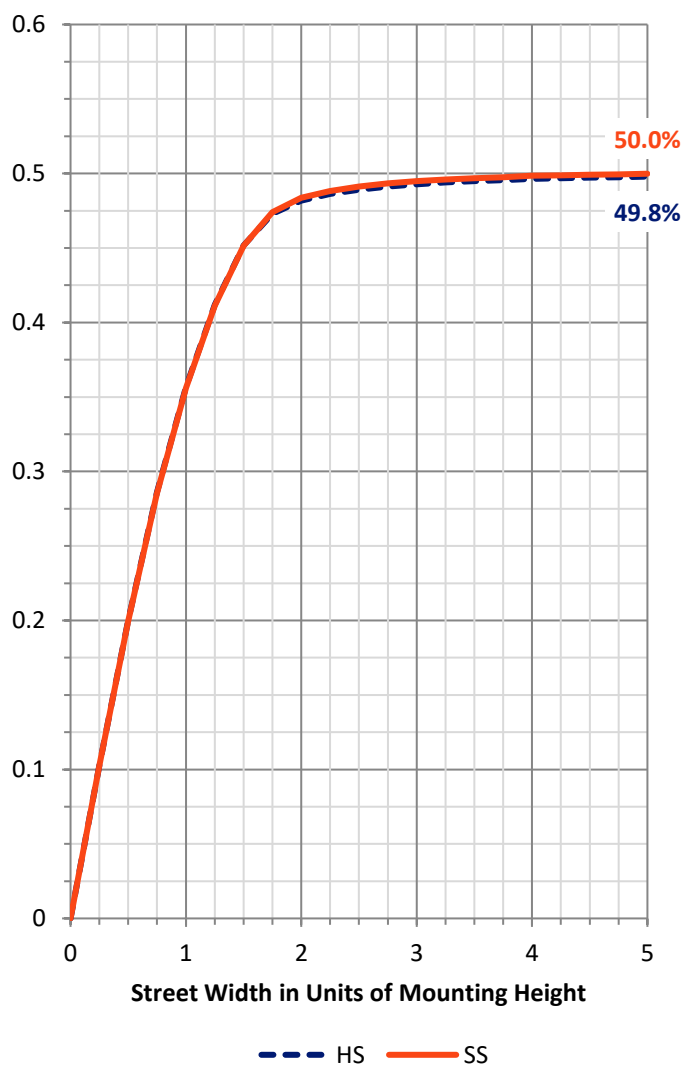
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11422.5	0.0	11422.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	11422.5	0.0	11422.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	22845.0	0.0	22845.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	427.7	1.9
10°-20°	1266.8	5.5
20°-30°	2212.5	9.7
30°-40°	3625.2	15.9
40°-50°	5315.4	23.3
50°-60°	6695.1	29.3
60°-70°	2518.0	11.0
70°-80°	669.5	2.9
80°-90°	114.8	0.5
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°	22845.0	100.0
0°-180°	22845.0	100.0

**Coefficient of Utilization**



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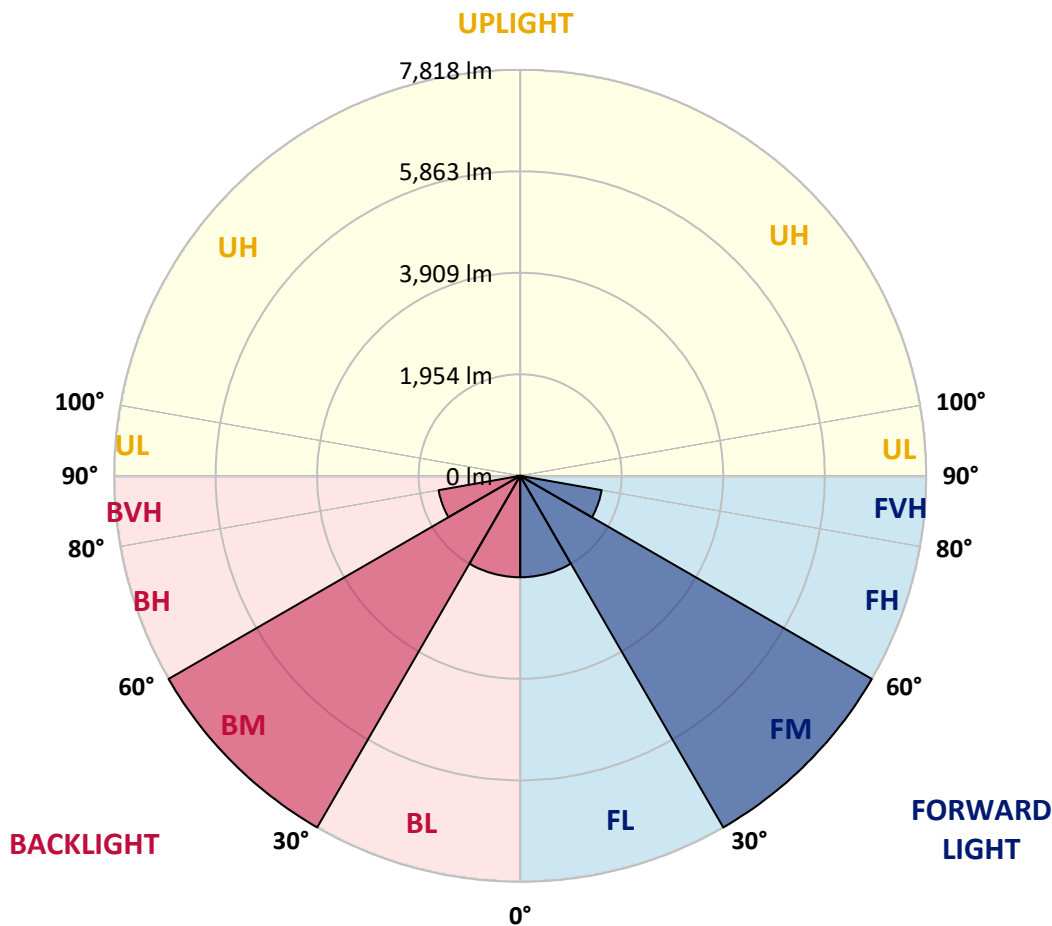
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1953.5	8.6			
FM (30°-60°)	7817.9	34.2			
FH (60°-80°)	1593.7	7.0			G1/1800
FVH (80°-90°)	57.4	0.3			G1/100
BL (0°-30°)	1953.5	8.6	B3/2500		
BM (30°-60°)	7817.9	34.2	B4/8500		
BH (60°-80°)	1593.7	7.0	B3/2500		G1/1800
BVH (80°-90°)	57.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4511.7	4511.7	4511.7	4511.7	4511.7	4511.7	4511.7	4511.7	4511.7	4511.7	4511.7
2.5°	4489.2	4534.2	4514.5	4503.3	4511.7	4497.6	4475.1	4500.5	4494.8	4472.3	4463.9
5°	4477.9	4511.7	4489.2	4511.7	4489.2	4528.6	4517.3	4475.1	4525.8	4477.9	4494.8
7.5°	4469.5	4480.8	4486.4	4475.1	4466.7	4514.5	4489.2	4469.5	4441.4	4432.9	4447.0
10°	4449.8	4477.9	4435.7	4492.0	4503.3	4469.5	4469.5	4432.9	4410.4	4396.3	4444.2
12.5°	4500.5	4452.6	4447.0	4475.1	4483.6	4497.6	4458.2	4438.5	4396.3	4402.0	4393.5
15°	4441.4	4461.1	4463.9	4469.5	4477.9	4511.7	4475.1	4432.9	4416.0	4356.9	4362.5
17.5°	4463.9	4444.2	4463.9	4528.6	4517.3	4542.7	4503.3	4438.5	4399.1	4365.4	4410.4
20°	4503.3	4494.8	4503.3	4582.1	4596.2	4618.7	4584.9	4525.8	4449.8	4410.4	4432.9
22.5°	4545.5	4539.9	4545.5	4621.5	4703.1	4731.3	4697.5	4559.6	4520.2	4447.0	4421.7
25°	4621.5	4627.1	4686.2	4770.7	4824.1	4877.6	4815.7	4717.2	4590.5	4545.5	4492.0
27.5°	4790.4	4804.4	4838.2	4962.0	5054.9	5102.8	5015.5	4880.4	4801.6	4708.7	4694.7
30°	4998.6	4998.6	5057.7	5164.7	5291.3	5364.5	5257.6	5097.1	5001.5	4950.8	4919.8
32.5°	5274.5	5243.5	5266.0	5454.6	5651.6	5713.5	5570.0	5373.0	5221.0	5153.4	5130.9
35°	5510.9	5530.6	5581.2	5783.9	6003.4	6147.0	5921.8	5665.7	5510.9	5449.0	5437.7
37.5°	5817.7	5851.4	5876.8	6155.4	6420.0	6473.5	6256.7	6051.3	5862.7	5812.0	5783.9
40°	6251.1	6228.6	6237.0	6442.5	6681.7	6715.5	6501.6	6355.2	6200.4	6169.5	6169.5
42.5°	6608.6	6583.2	6611.4	6687.4	6870.3	6845.0	6726.8	6619.8	6555.1	6521.3	6555.1
45°	6825.3	6819.6	6870.3	6926.6	7056.1	6971.6	6878.8	6895.6	6833.7	6777.4	6774.6
47.5°	7061.7	7025.1	7087.0	7171.5	7073.0	7033.6	7027.9	7064.5	7044.8	6946.3	6915.3
50°	7177.1	7163.0	7261.5	7360.0	7306.6	7216.5	7236.2	7295.3	7042.0	6909.7	6833.7
52.5°	7486.7	7489.5	7678.1	7731.6	7709.0	7576.8	7619.0	7458.6	7160.2	6974.4	6982.9
55°	7973.6	7953.9	8165.0	8322.6	8347.9	8179.1	7976.4	7751.3	7376.9	7188.4	7132.1
57°	7706.2	7751.3	7984.9	8452.1	8688.5	8488.7	8046.8	7635.9	7137.7	6909.7	6808.4
57.5°	7348.8	7422.0	7827.3	8297.3	8545.0	8528.1	7959.5	7422.0	6977.3	6622.6	6631.1
60°	5384.2	5398.3	5764.2	6510.0	7284.0	7300.9	6608.6	5896.5	5401.1	5015.5	5069.0
62.5°	2839.9	2904.6	3051.0	3650.5	4320.3	4483.6	4064.2	3698.3	3270.5	2977.8	3005.9
65°	1503.0	1494.5	1564.9	1733.8	2063.1	2147.5	2091.2	1801.3	1652.1	1604.3	1607.1
67.5°	1221.5	1235.6	1227.1	1235.6	1258.1	1294.7	1286.2	1297.5	1305.9	1320.0	1317.2
70°	1035.8	1035.8	1041.4	1044.2	1044.2	1061.1	1080.8	1117.4	1120.2	1134.3	1139.9
72.5°	816.2	810.6	819.0	838.7	841.5	855.6	883.8	906.3	914.7	914.7	897.8
75°	554.5	560.1	571.4	588.2	605.1	630.5	653.0	667.0	672.7	664.2	655.8
77.5°	312.4	318.0	326.5	351.8	371.5	394.0	419.4	433.4	447.5	450.3	433.4
80°	185.8	185.8	199.8	219.5	242.1	264.6	287.1	304.0	309.6	309.6	301.2
82.5°	112.6	115.4	126.7	146.4	166.1	180.1	199.8	213.9	225.2	222.3	216.7
85°	59.1	59.1	70.4	87.3	101.3	115.4	115.4	107.0	101.3	87.3	81.6
87.5°	19.7	16.9	22.5	22.5	19.7	22.5	22.5	25.3	25.3	25.3	25.3
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)