

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: P532746

Luminaire Tested: **GALN-SA8A-827-U-5MQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532746  
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-SA8A-827-U-5MQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 2700K, 615mA 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: 23961 lumens  
Efficiency: N/A  
Efficacy: 98.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1

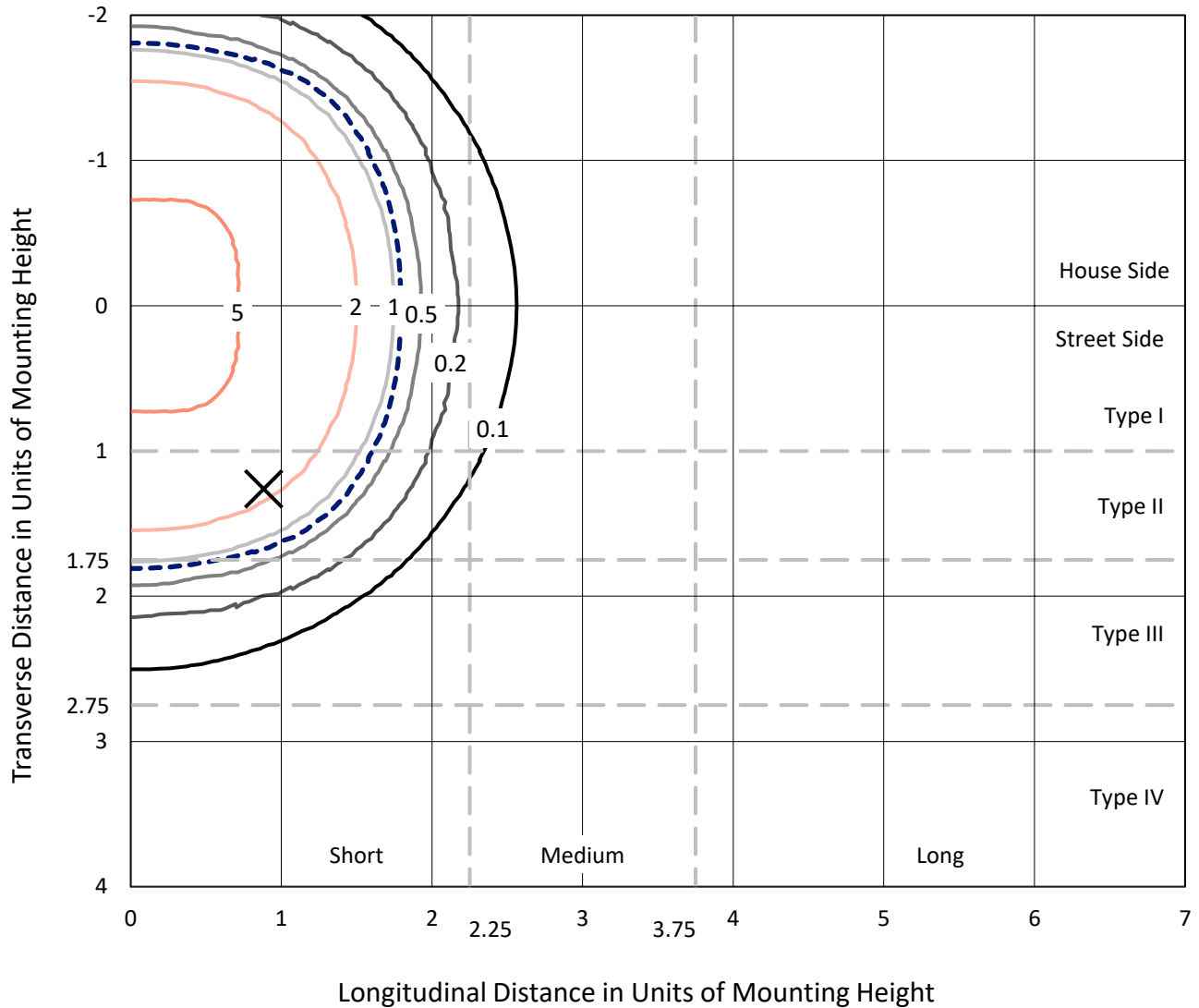
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

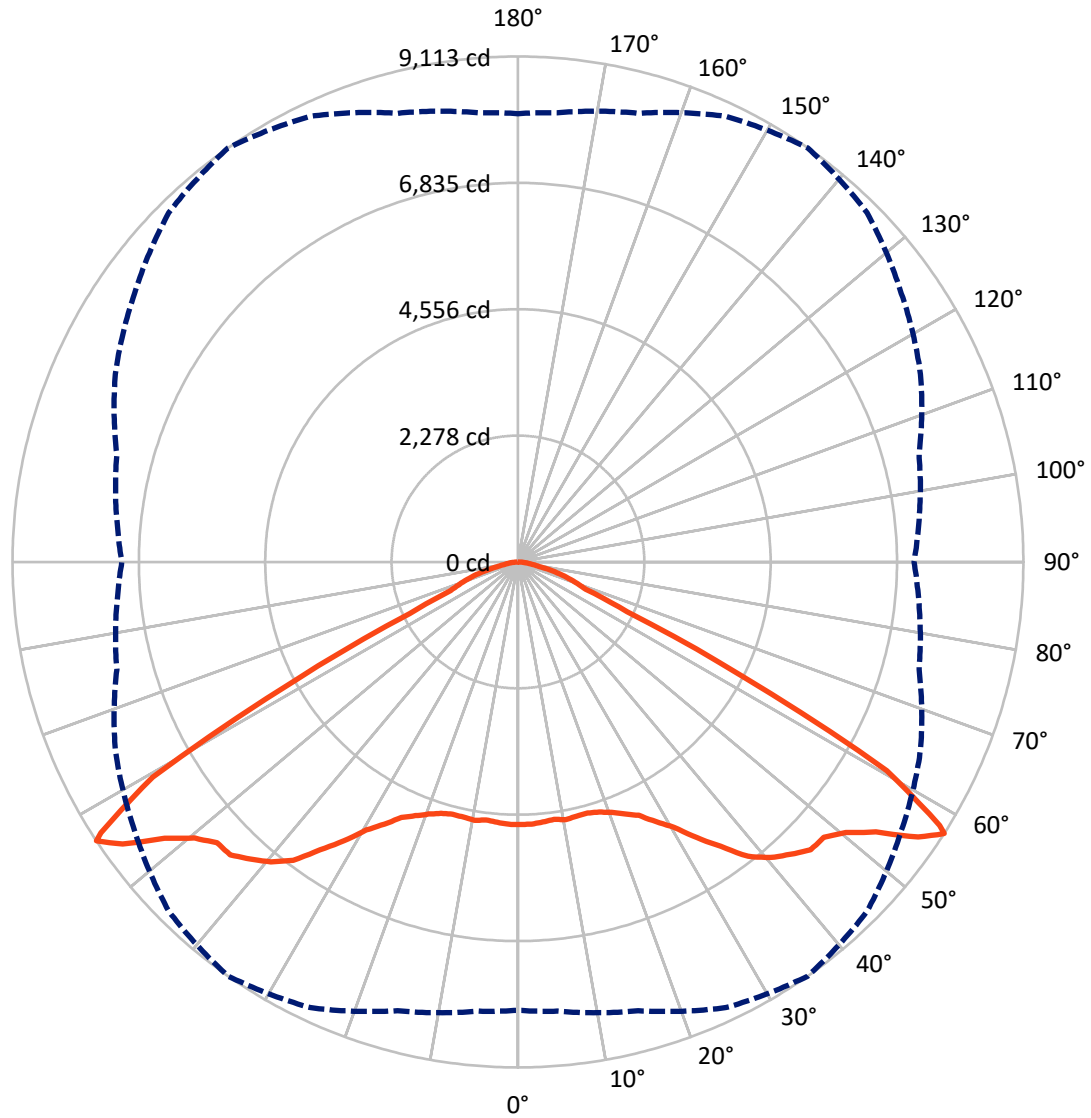
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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	11980.5	0.0	11980.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	11980.5	0.0	11980.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	23961.0	0.0	23961.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	448.6	1.9
10°-20°	1328.7	5.5
20°-30°	2320.5	9.7
30°-40°	3802.3	15.9
40°-50°	5575.0	23.3
50°-60°	7022.2	29.3
60°-70°	2641.0	11.0
70°-80°	702.2	2.9
80°-90°	120.4	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°	23961.0	100.0
0°-180°	23961.0	100.0



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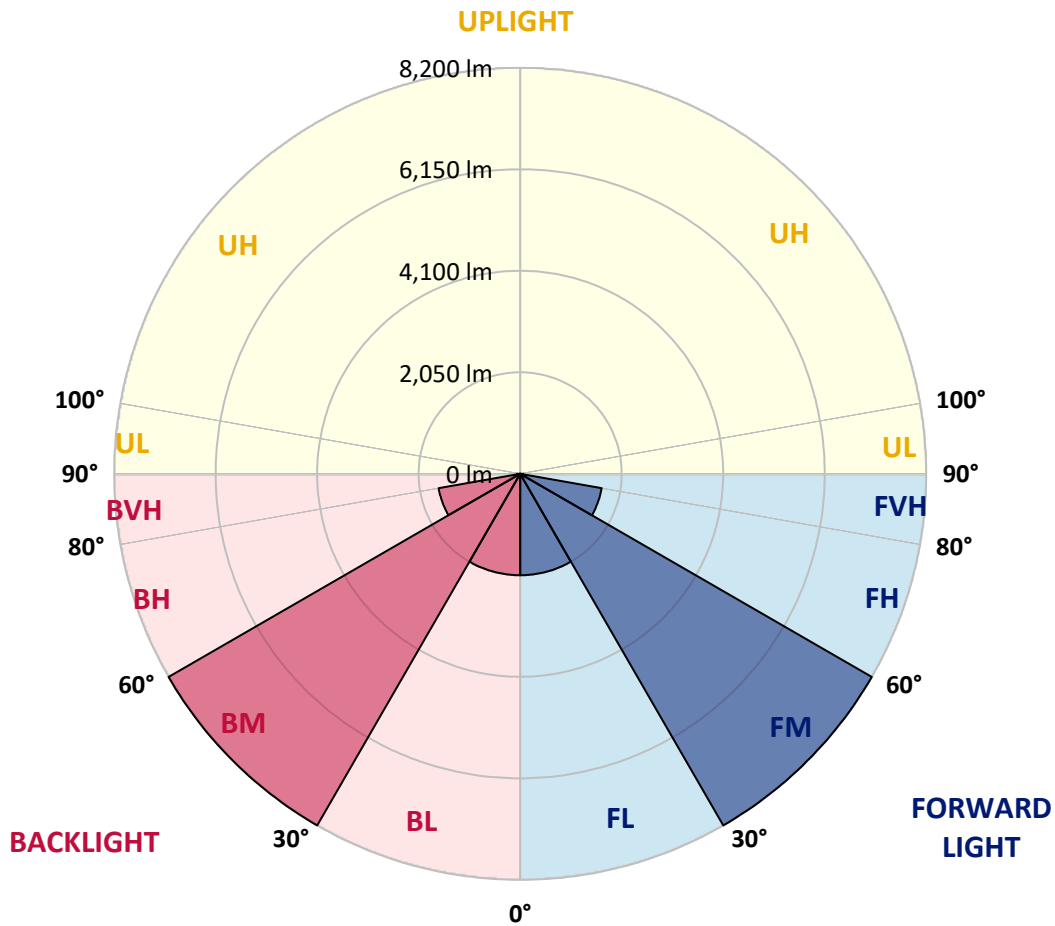
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2048.9	8.6			
FM (30°-60°)	8199.8	34.2			
FH (60°-80°)	1671.6	7.0			G1/1800
FVH (80°-90°)	60.2	0.3			G1/100
BL (0°-30°)	2048.9	8.6	B3/2500		
BM (30°-60°)	8199.8	34.2	B4/8500		
BH (60°-80°)	1671.6	7.0	B3/2500		G1/1800
BVH (80°-90°)	60.2	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°	4732.1	4732.1	4732.1	4732.1	4732.1	4732.1	4732.1	4732.1	4732.1	4732.1	4732.1
2.5°	4708.5	4755.7	4735.1	4723.3	4732.1	4717.4	4693.7	4720.3	4714.4	4690.8	4681.9
5°	4696.7	4732.1	4708.5	4732.1	4708.5	4749.8	4738.0	4693.7	4746.9	4696.7	4714.4
7.5°	4687.8	4699.6	4705.6	4693.7	4684.9	4735.1	4708.5	4687.8	4658.3	4649.5	4664.2
10°	4667.2	4696.7	4652.4	4711.5	4723.3	4687.8	4687.8	4649.5	4625.8	4611.1	4661.3
12.5°	4720.3	4670.1	4664.2	4693.7	4702.6	4717.4	4676.0	4655.4	4611.1	4617.0	4608.1
15°	4658.3	4679.0	4681.9	4687.8	4696.7	4732.1	4693.7	4649.5	4631.8	4569.8	4575.7
17.5°	4681.9	4661.3	4681.9	4749.8	4738.0	4764.6	4723.3	4655.4	4614.0	4578.6	4625.8
20°	4723.3	4714.4	4723.3	4805.9	4820.7	4844.3	4808.9	4746.9	4667.2	4625.8	4649.5
22.5°	4767.5	4761.6	4767.5	4847.3	4932.9	4962.4	4927.0	4782.3	4741.0	4664.2	4637.7
25°	4847.3	4853.2	4915.1	5003.7	5059.8	5115.9	5050.9	4947.6	4814.8	4767.5	4711.5
27.5°	5024.4	5039.1	5074.6	5204.4	5301.9	5352.0	5260.5	5118.8	5036.2	4938.8	4924.0
30°	5242.8	5242.8	5304.8	5417.0	5549.8	5626.6	5514.4	5346.1	5245.8	5192.6	5160.2
32.5°	5532.1	5499.7	5523.3	5721.1	5927.7	5992.6	5842.1	5635.4	5476.0	5405.2	5381.6
35°	5780.1	5800.8	5853.9	6066.4	6296.7	6447.3	6211.1	5942.5	5780.1	5715.2	5703.3
37.5°	6101.9	6137.3	6163.9	6456.1	6733.6	6789.7	6562.4	6346.9	6149.1	6096.0	6066.4
40°	6556.5	6532.9	6541.7	6757.2	7008.1	7043.6	6819.2	6665.7	6503.3	6470.9	6470.9
42.5°	6931.4	6904.8	6934.3	7014.0	7205.9	7179.4	7055.4	6943.2	6875.3	6839.9	6875.3
45°	7158.7	7152.8	7205.9	7265.0	7400.8	7312.2	7214.8	7232.5	7167.6	7108.5	7105.6
47.5°	7406.7	7368.3	7433.2	7521.8	7418.5	7377.1	7371.2	7409.6	7389.0	7285.6	7253.2
50°	7527.7	7512.9	7616.3	7719.6	7663.5	7569.0	7589.7	7651.7	7386.0	7247.3	7167.6
52.5°	7852.4	7855.4	8053.2	8109.3	8085.6	7946.9	7991.2	7822.9	7510.0	7315.2	7324.0
55°	8363.1	8342.5	8563.9	8729.2	8755.8	8578.6	8366.1	8129.9	7737.3	7539.5	7480.5
57°	8082.7	8129.9	8374.9	8865.0	9112.9	8903.4	8439.9	8008.9	7486.4	7247.3	7141.0
57.5°	7707.8	7784.5	8209.6	8702.6	8962.4	8944.7	8348.4	7784.5	7318.1	6946.2	6955.0
60°	5647.3	5662.0	6045.8	6828.1	7639.9	7657.6	6931.4	6184.5	5665.0	5260.5	5316.6
62.5°	2978.6	3046.5	3200.0	3828.8	4531.4	4702.6	4262.7	3879.0	3430.3	3123.3	3152.8
65°	1576.4	1567.5	1641.3	1818.5	2163.8	2252.4	2193.4	1889.3	1732.8	1682.7	1685.6
67.5°	1281.2	1295.9	1287.1	1295.9	1319.6	1357.9	1349.1	1360.9	1369.7	1384.5	1381.6
70°	1086.4	1086.4	1092.3	1095.2	1095.2	1112.9	1133.6	1172.0	1174.9	1189.7	1195.6
72.5°	856.1	850.2	859.0	879.7	882.7	897.4	926.9	950.6	959.4	959.4	941.7
75°	581.6	587.5	599.3	617.0	634.7	661.3	684.9	699.6	705.5	696.7	687.8
77.5°	327.7	333.6	342.4	369.0	389.7	413.3	439.9	454.6	469.4	472.3	454.6
80°	194.8	194.8	209.6	230.3	253.9	277.5	301.1	318.8	324.7	324.7	315.9
82.5°	118.1	121.0	132.8	153.5	174.2	188.9	209.6	224.4	236.2	233.2	227.3
85°	62.0	62.0	73.8	91.5	106.3	121.0	121.0	112.2	106.3	91.5	85.6
87.5°	20.7	17.7	23.6	23.6	20.7	23.6	23.6	26.6	26.6	26.6	26.6
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)