

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: P456368

Luminaire Tested: **GALN-SA7C-827-U-5NQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456368  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7C-827-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 37568 lumens  
Efficiency: N/A  
Efficacy: 99.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

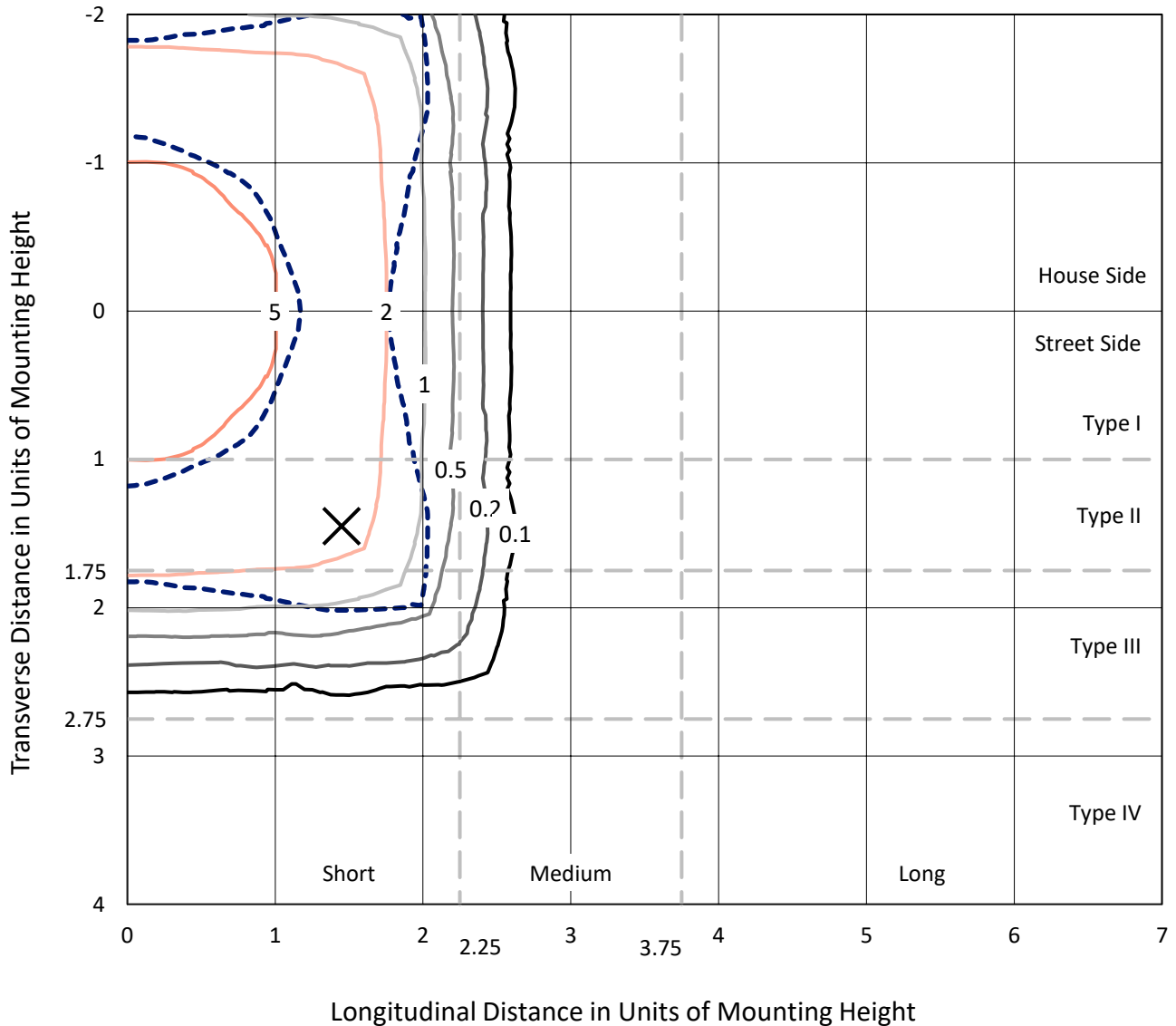
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P456368  
 CATALOG NUMBER: GALN-SA7C-827-U-5NQ

### Iso-Footcandle Lines of Horizontal Illumination

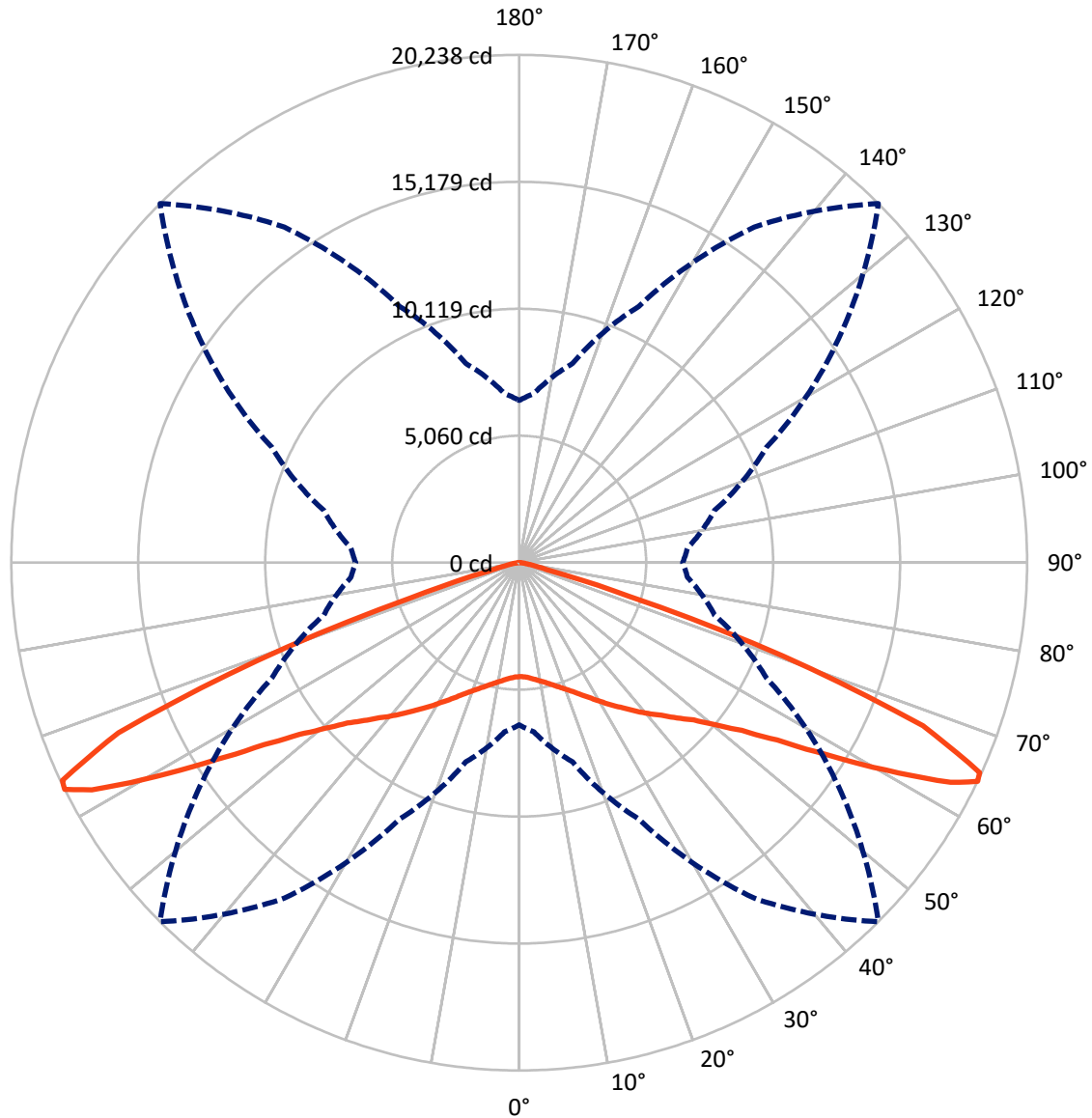
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc  
 Type V - Short - N/A

REPORT NUMBER: P456368  
CATALOG NUMBER: GALN-SA7C-827-U-5NQ

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 64-Deg Vertical

REPORT NUMBER: P456368

CATALOG NUMBER: GALN-SA7C-827-U-5NQ

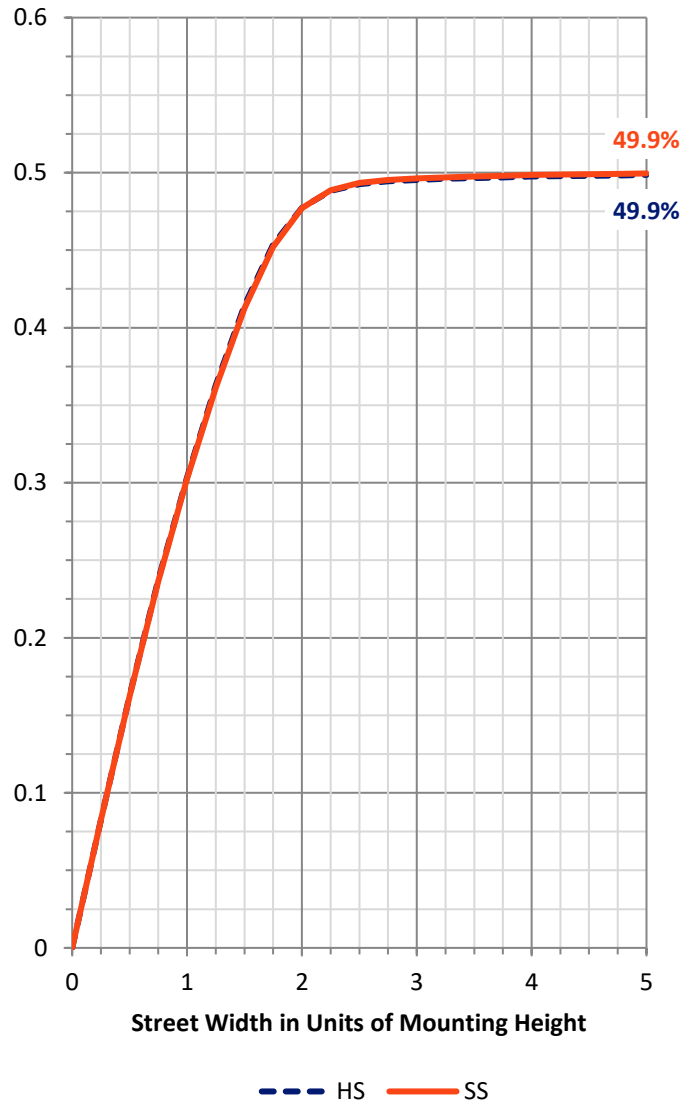
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	18784.0	0.0	18784.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	18784.0	0.0	18784.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	37568.0	0.0	37568.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	446.1	1.2
10°-20°	1438.9	3.8
20°-30°	2719.2	7.2
30°-40°	4503.3	12.0
40°-50°	7030.4	18.7
50°-60°	10868.8	28.9
60°-70°	9372.0	24.9
70°-80°	1062.1	2.8
80°-90°	127.3	0.3
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°	37568.0	100.0
0°-180°	37568.0	100.0



REPORT NUMBER: P456368

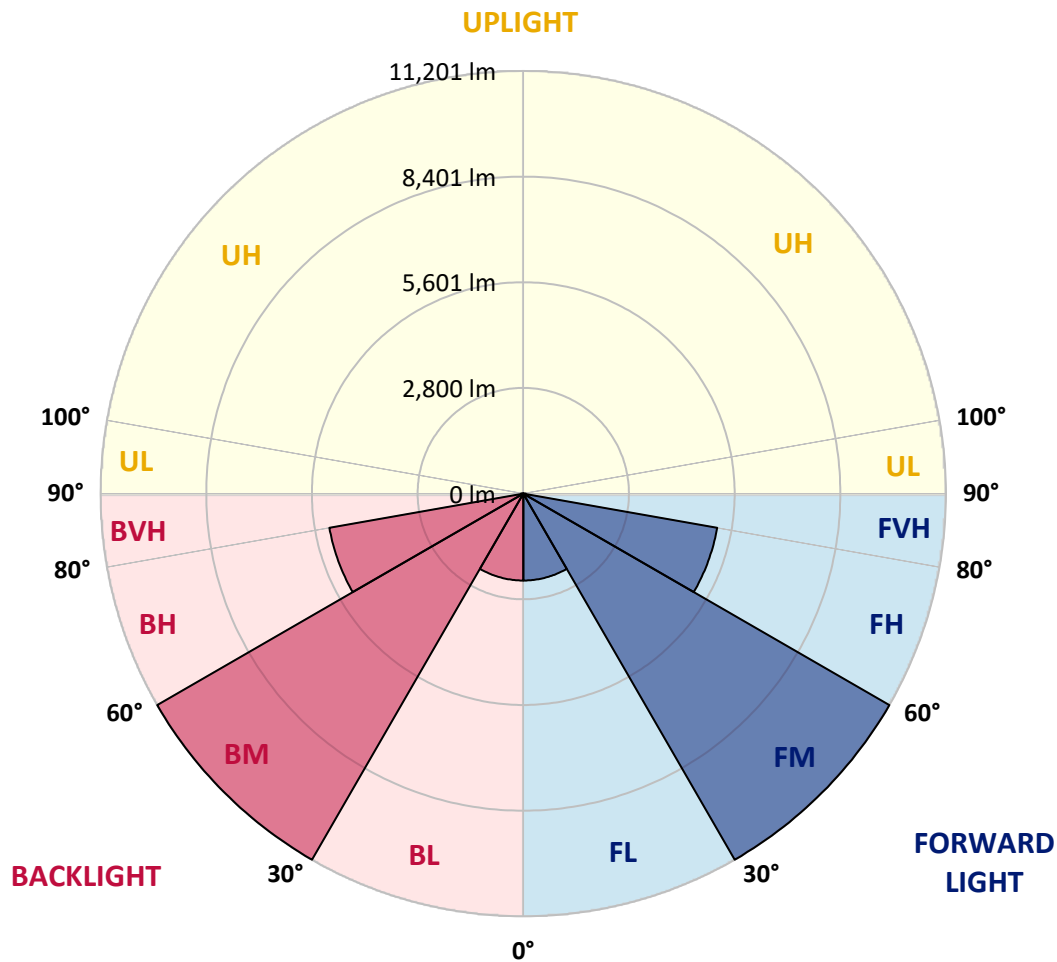
CATALOG NUMBER: GALN-SA7C-827-U-5NQ

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2302.1	6.1			
FM	(30°-60°)	11201.2	29.8			
FH	(60°-80°)	5217.0	13.9			G3/7500
FVH	(80°-90°)	63.6	0.2			G1/100
BL	(0°-30°)	2302.1	6.1	B3/2500		
BM	(30°-60°)	11201.2	29.8	B5		
BH	(60°-80°)	5217.0	13.9	B5		G3/7500
BVH	(80°-90°)	63.6	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type V Short





REPORT NUMBER: P456368  
 CATALOG NUMBER: GALN-SA7C-827-U-5NQ

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4540.7	4540.7	4540.7	4540.7	4540.7	4540.7	4540.7	4540.7	4540.7	4540.7	4540.7
2.5°	4558.6	4568.6	4560.6	4558.6	4556.6	4556.6	4556.6	4558.6	4566.6	4572.6	4568.6
5°	4616.3	4624.3	4620.3	4618.3	4616.3	4616.3	4614.3	4612.4	4618.3	4618.3	4616.3
7.5°	4688.0	4697.9	4693.9	4697.9	4699.9	4701.9	4691.9	4684.0	4682.0	4688.0	4684.0
10°	4785.5	4793.4	4795.4	4797.4	4801.4	4799.4	4787.5	4773.5	4771.5	4769.6	4767.6
12.5°	4894.9	4900.9	4902.9	4910.8	4916.8	4918.8	4904.9	4892.9	4873.0	4877.0	4869.0
15°	5018.3	5030.2	5028.2	5040.2	5056.1	5060.1	5046.1	5026.2	5008.3	4998.4	4992.4
17.5°	5169.5	5177.5	5173.5	5185.4	5205.3	5215.3	5203.3	5177.5	5159.6	5137.7	5125.7
20°	5348.6	5362.5	5366.5	5366.5	5384.4	5394.3	5376.4	5368.5	5340.6	5324.7	5314.8
22.5°	5551.5	5557.5	5569.5	5581.4	5599.3	5595.3	5589.3	5577.4	5551.5	5537.6	5521.7
25°	5780.4	5786.3	5816.2	5842.1	5848.0	5844.0	5836.1	5830.1	5806.2	5774.4	5762.5
27.5°	6047.0	6058.9	6098.7	6122.6	6122.6	6124.6	6108.7	6128.6	6076.9	6039.0	6035.1
30°	6381.3	6389.2	6423.1	6447.0	6435.0	6425.1	6421.1	6441.0	6385.3	6317.6	6301.7
32.5°	6711.6	6739.5	6769.3	6821.0	6779.2	6761.3	6757.4	6771.3	6707.6	6632.0	6610.1
35°	7065.8	7085.7	7141.4	7185.2	7147.4	7105.6	7123.5	7167.3	7091.6	6990.2	6986.2
37.5°	7457.8	7475.7	7547.3	7593.1	7565.2	7493.6	7523.4	7575.2	7499.6	7374.2	7348.3
40°	7865.7	7903.5	7993.0	8040.8	7995.0	7899.5	7955.2	8010.9	7943.3	7798.0	7740.3
42.5°	8323.3	8383.0	8512.4	8536.2	8448.7	8319.4	8416.9	8506.4	8458.6	8291.5	8269.6
45°	8858.6	8894.4	9053.6	9105.3	8983.9	8822.8	8944.2	9107.3	9071.5	8878.5	8836.7
47.5°	9457.5	9491.3	9656.5	9734.1	9580.9	9364.0	9582.9	9795.8	9773.9	9567.0	9547.1
50°	10165.9	10173.8	10402.7	10490.2	10337.0	10150.0	10345.0	10609.6	10522.1	10257.4	10253.4
52.5°	10941.9	10951.9	11240.4	11409.5	11324.0	11113.0	11343.9	11505.0	11282.2	10935.9	10910.1
55°	11614.5	11664.2	12058.2	12507.9	12625.3	12472.1	12541.7	12466.1	11916.9	11431.4	11355.8
57.5°	11889.1	11986.6	12585.5	13425.2	14189.3	14416.1	13878.9	13158.6	12169.6	11483.1	11409.5
60°	11218.5	11324.0	12253.2	13847.0	15797.0	16782.0	15271.7	13275.9	11594.6	10629.5	10514.1
62.5°	8983.9	9013.8	10380.8	12854.1	16734.2	19285.1	15858.7	12275.1	9921.1	8609.9	8564.1
64°	6464.9	6771.3	8219.9	11270.2	16324.3	20238.3	15520.4	10872.3	8058.7	6731.5	6516.6
65°	4835.2	4918.8	6626.0	9624.7	15602.0	20166.6	14863.8	9531.1	6673.8	5151.6	4912.8
67.5°	1826.6	1836.6	2445.5	4797.4	11107.1	17351.1	11343.9	5185.4	2811.6	2033.6	1960.0
70°	758.1	772.0	897.4	1613.7	4773.5	11140.9	5470.0	1870.4	1028.7	833.7	821.8
72.5°	555.2	563.1	600.9	716.3	1468.5	4574.6	1798.8	793.9	602.9	539.2	533.3
75°	435.8	439.7	467.6	527.3	684.5	1267.5	748.2	545.2	459.6	413.9	409.9
77.5°	332.3	342.2	362.1	401.9	459.6	600.9	495.5	407.9	354.2	316.4	310.4
80°	228.8	240.8	278.6	294.5	308.4	390.0	338.3	308.4	276.6	230.8	216.9
82.5°	141.3	149.2	187.0	201.0	195.0	218.9	216.9	220.9	197.0	143.3	133.3
85°	73.6	77.6	101.5	105.5	97.5	89.5	111.4	129.3	121.4	81.6	79.6
87.5°	15.9	17.9	21.9	19.9	21.9	21.9	27.9	41.8	43.8	27.9	25.9
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)