

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: P457296

Luminaire Tested: **GALN-SA8C-827-U-5NQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457296  
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-SA8C-827-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 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: 43554 lumens  
Efficiency: N/A  
Efficacy: 101.5 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

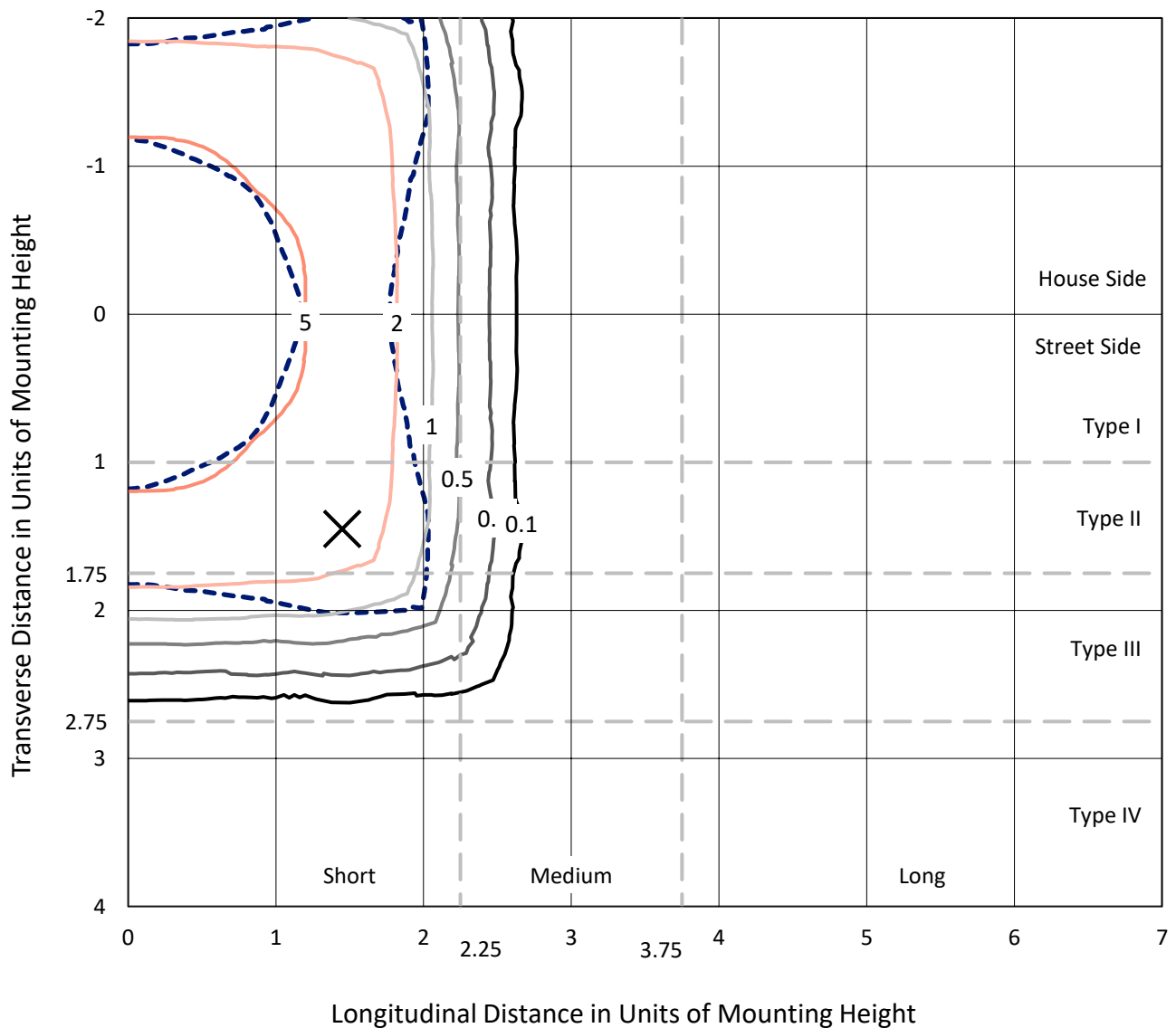
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

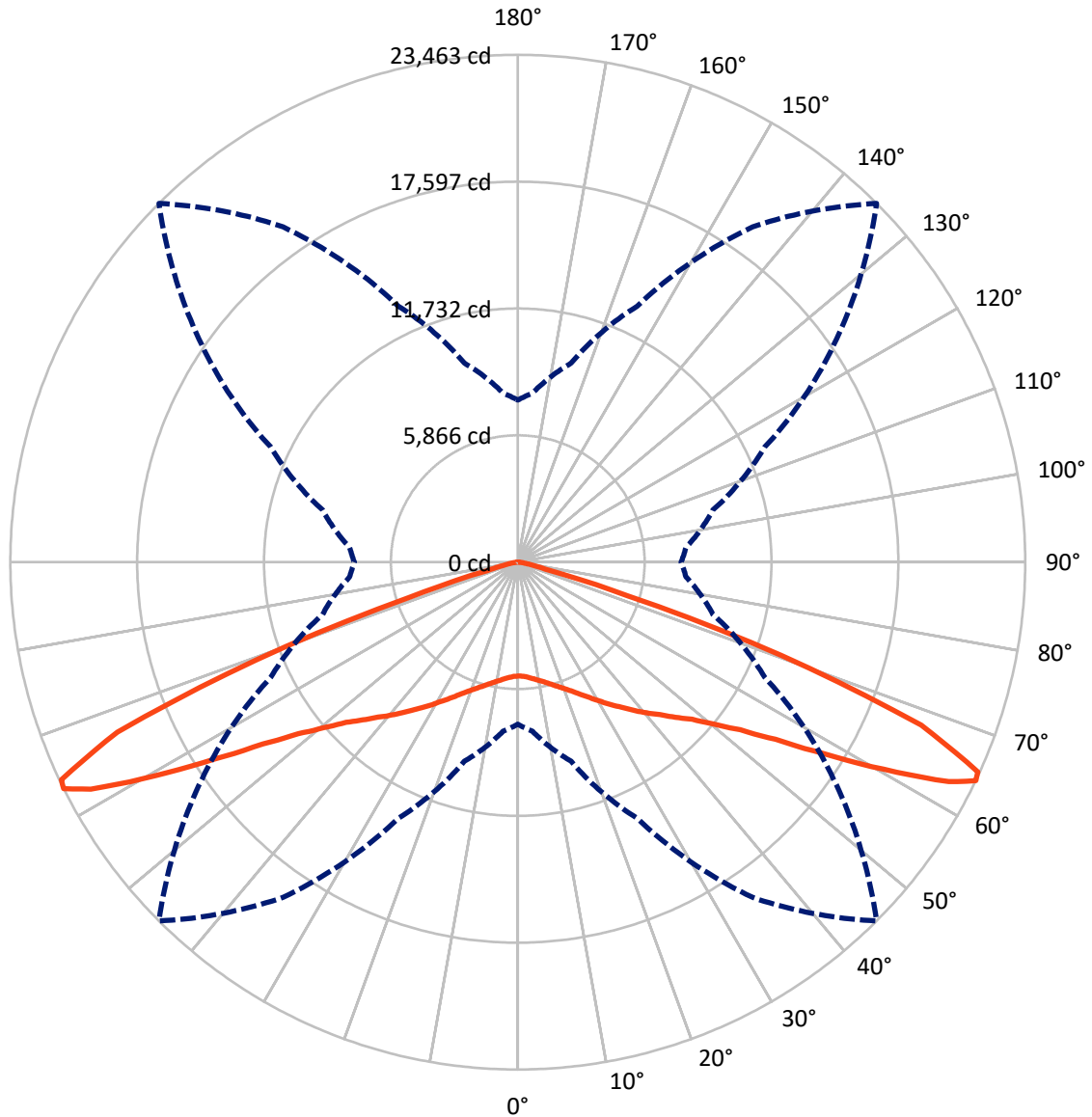
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	21777.0	0.0	21777.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	21777.0	0.0	21777.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	43554.0	0.0	43554.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	517.2	1.2
10°-20°	1668.2	3.8
20°-30°	3152.5	7.2
30°-40°	5220.8	12.0
40°-50°	8150.6	18.7
50°-60°	12600.6	28.9
60°-70°	10865.3	24.9
70°-80°	1231.3	2.8
80°-90°	147.5	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°	43554.0	100.0
0°-180°	43554.0	100.0

**Coefficient of Utilization**



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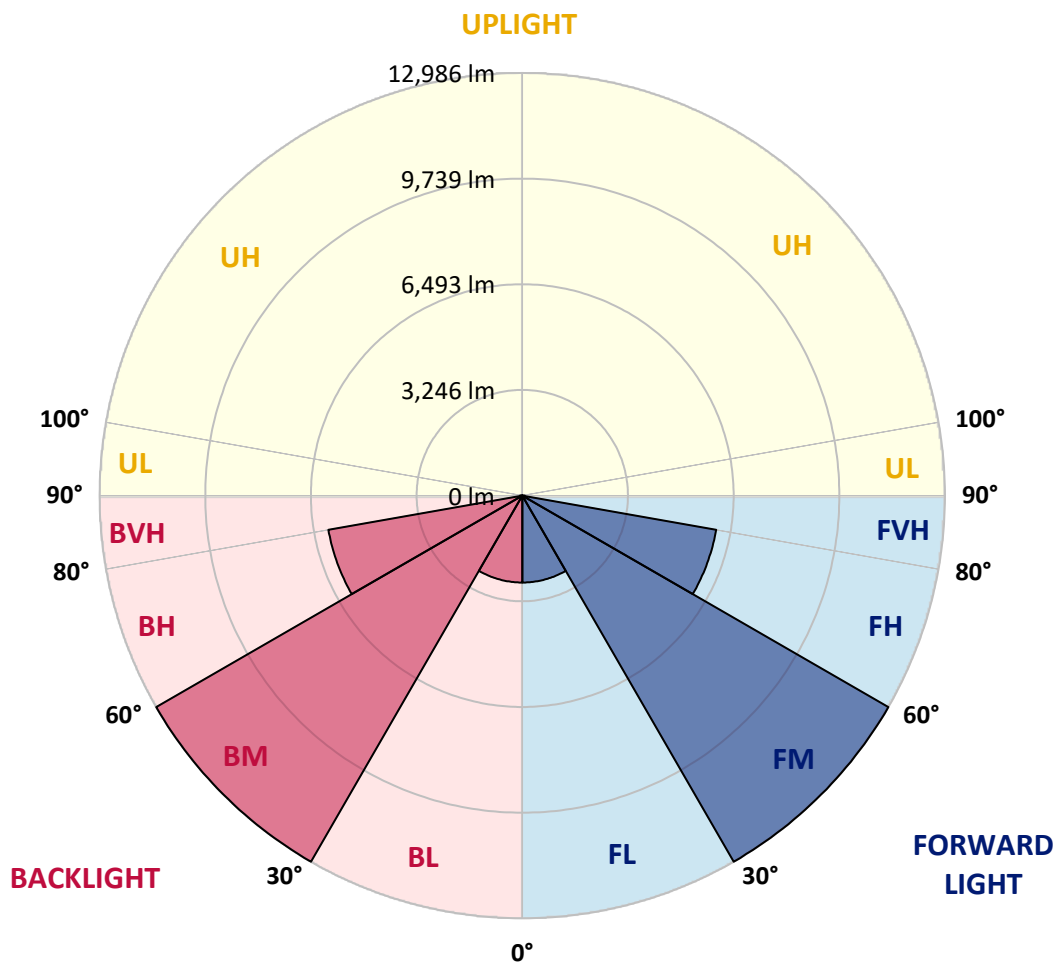
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2668.9	6.1			
FM	(30°-60°)	12986.0	29.8			
FH	(60°-80°)	6048.3	13.9			G3/7500
FVH	(80°-90°)	73.8	0.2			G1/100
BL	(0°-30°)	2668.9	6.1	B4/5000		
BM	(30°-60°)	12986.0	29.8	B5		
BH	(60°-80°)	6048.3	13.9	B5		G3/7500
BVH	(80°-90°)	73.8	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5264.2	5264.2	5264.2	5264.2	5264.2	5264.2	5264.2	5264.2	5264.2	5264.2	5264.2
2.5°	5285.0	5296.5	5287.3	5285.0	5282.7	5282.7	5282.7	5285.0	5294.2	5301.1	5296.5
5°	5351.9	5361.1	5356.5	5354.2	5351.9	5351.9	5349.6	5347.3	5354.2	5354.2	5351.9
7.5°	5434.9	5446.5	5441.9	5446.5	5448.8	5451.1	5439.6	5430.3	5428.0	5434.9	5430.3
10°	5548.0	5557.2	5559.5	5561.8	5566.4	5564.1	5550.3	5534.1	5531.8	5529.5	5527.2
12.5°	5674.9	5681.8	5684.1	5693.3	5700.2	5702.5	5686.4	5672.5	5649.5	5654.1	5644.9
15°	5817.9	5831.7	5829.4	5843.3	5861.7	5866.3	5850.2	5827.1	5806.3	5794.8	5787.9
17.5°	5993.2	6002.4	5997.8	6011.7	6034.7	6046.3	6032.4	6002.4	5981.7	5956.3	5942.4
20°	6200.8	6217.0	6221.6	6221.6	6242.3	6253.9	6233.1	6223.9	6191.6	6173.1	6161.6
22.5°	6436.1	6443.0	6456.9	6470.7	6491.5	6486.9	6479.9	6466.1	6436.1	6420.0	6401.5
25°	6701.4	6708.3	6742.9	6772.9	6779.8	6775.2	6766.0	6759.1	6731.4	6694.5	6680.6
27.5°	7010.5	7024.4	7070.5	7098.2	7098.2	7100.5	7082.0	7105.1	7045.1	7001.3	6996.7
30°	7398.1	7407.3	7446.5	7474.2	7460.4	7448.8	7444.2	7467.3	7402.7	7324.3	7305.8
32.5°	7781.0	7813.3	7847.9	7907.9	7859.4	7838.7	7834.1	7850.2	7776.4	7688.7	7663.4
35°	8191.6	8214.7	8279.3	8330.0	8286.2	8237.8	8258.5	8309.3	8221.6	8104.0	8099.4
37.5°	8646.1	8666.8	8749.9	8802.9	8770.6	8687.6	8722.2	8782.2	8694.5	8549.2	8519.2
40°	9119.0	9162.8	9266.6	9322.0	9268.9	9158.2	9222.8	9287.4	9208.9	9040.5	8973.6
42.5°	9649.6	9718.8	9868.7	9896.4	9794.9	9644.9	9758.0	9861.8	9806.4	9612.6	9587.3
45°	10270.1	10311.6	10496.2	10556.1	10415.4	10228.6	10369.3	10558.5	10516.9	10293.2	10244.7
47.5°	10964.5	11003.7	11195.1	11285.1	11107.5	10856.0	11109.8	11356.6	11331.3	11091.3	11068.3
50°	11785.7	11794.9	12060.2	12161.7	11984.1	11767.2	11993.3	12300.1	12198.6	11891.8	11887.2
52.5°	12685.4	12696.9	13031.4	13227.5	13128.3	12883.8	13151.4	13338.2	13079.8	12678.5	12648.5
55°	13465.1	13522.8	13979.5	14500.9	14637.0	14459.3	14540.1	14452.4	13815.7	13252.9	13165.2
57.5°	13783.4	13896.5	14590.8	15564.3	16450.2	16713.1	16090.3	15255.2	14108.7	13312.8	13227.5
60°	13006.0	13128.3	14205.6	16053.4	18314.1	19456.0	17705.1	15391.3	13442.0	12323.2	12189.4
62.5°	10415.4	10450.0	12034.8	14902.3	19400.6	22358.0	18385.6	14231.0	11502.0	9981.7	9928.7
64°	7495.0	7850.2	9529.6	13066.0	18925.4	23463.0	17993.4	12604.6	9342.7	7804.1	7554.9
65°	5605.6	5702.5	7681.8	11158.2	18088.0	23379.9	17232.2	11049.8	7737.2	5972.4	5695.6
67.5°	2117.7	2129.2	2835.1	5561.8	12876.8	20115.7	13151.4	6011.7	3259.6	2357.6	2272.2
70°	878.9	895.1	1040.4	1870.9	5534.1	12916.1	6341.5	2168.4	1192.6	966.6	952.7
72.5°	643.6	652.8	696.7	830.5	1702.5	5303.4	2085.4	920.4	699.0	625.2	618.2
75°	505.2	509.8	542.1	611.3	793.6	1469.5	867.4	632.1	532.9	479.8	475.2
77.5°	385.2	396.8	419.8	466.0	532.9	696.7	574.4	472.9	410.6	366.8	359.9
80°	265.3	279.1	323.0	341.4	357.6	452.1	392.2	357.6	320.7	267.6	251.4
82.5°	163.8	173.0	216.8	233.0	226.1	253.8	251.4	256.1	228.4	166.1	154.6
85°	85.4	90.0	117.6	122.3	113.0	103.8	129.2	149.9	140.7	94.6	92.3
87.5°	18.5	20.8	25.4	23.1	25.4	25.4	32.3	48.4	50.8	32.3	30.0
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)