

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: P533916

Luminaire Tested: **GALN-SA9B-827-U-5MQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533916  
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-SA9B-827-U-5MQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 2700K, 800mA 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: 33471 lumens  
Efficiency: N/A  
Efficacy: 92.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G2

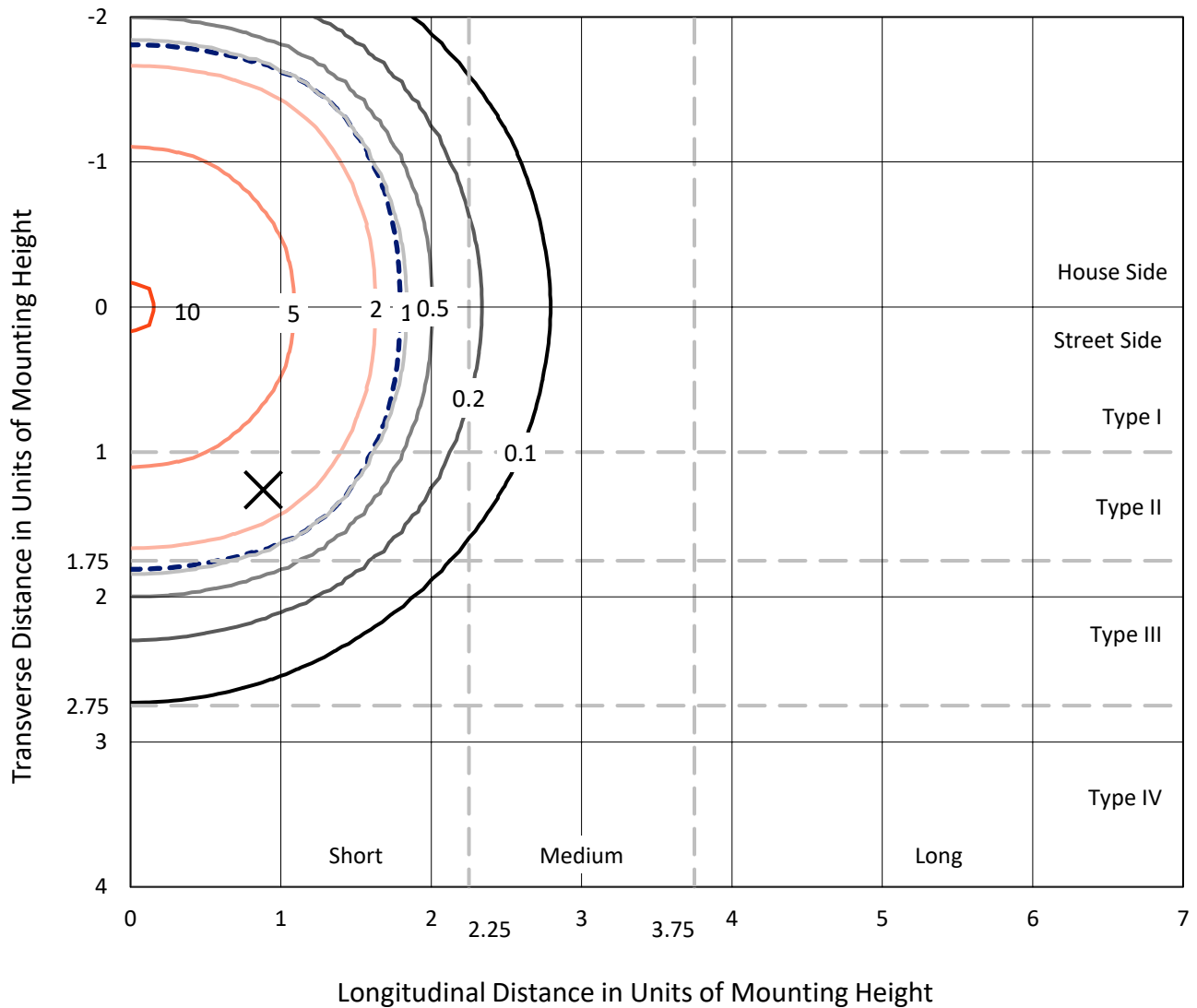
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

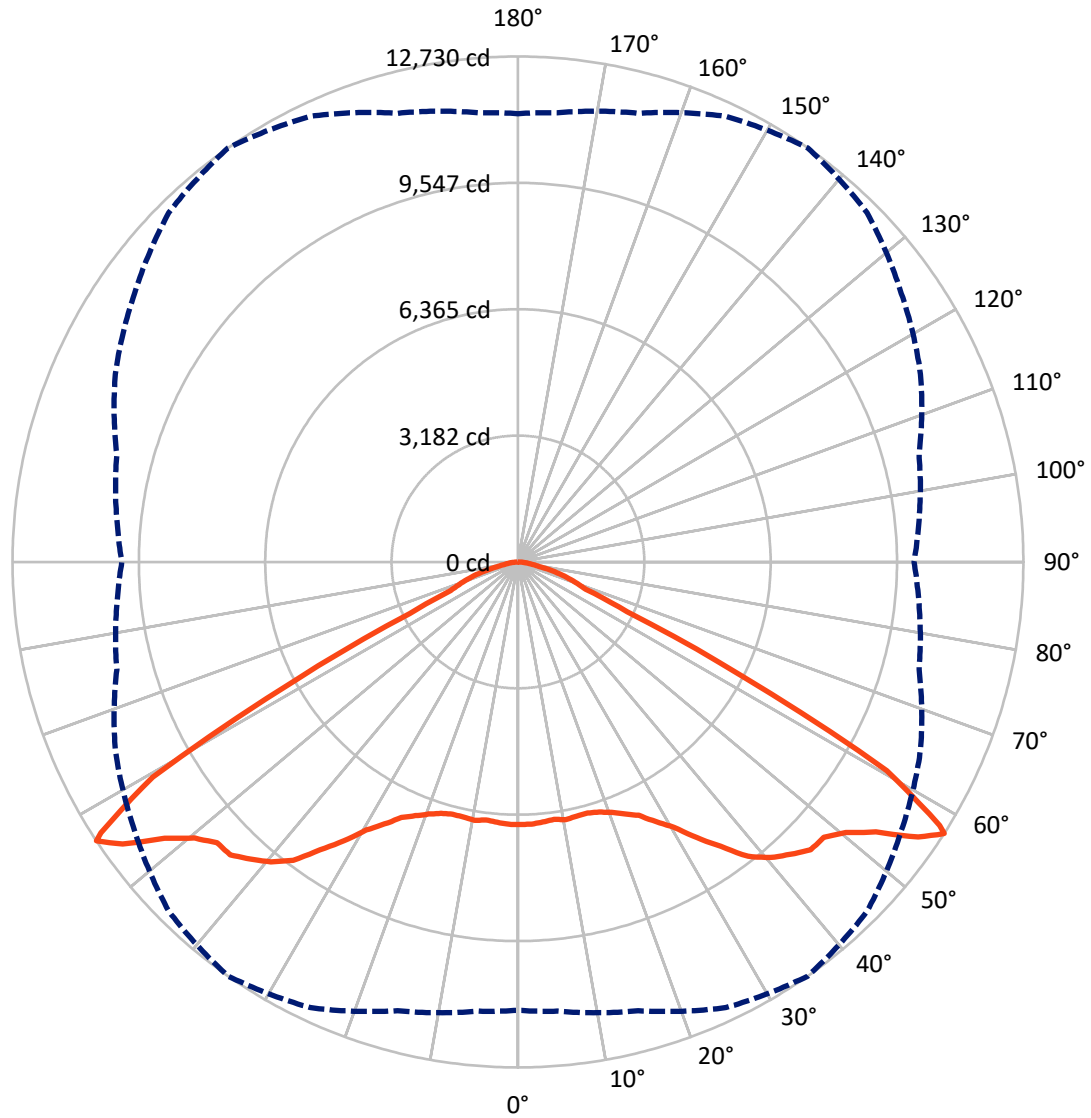
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 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	16735.5	0.0	16735.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	16735.5	0.0	16735.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	33471.0	0.0	33471.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	626.7	1.9
10°-20°	1856.0	5.5
20°-30°	3241.6	9.7
30°-40°	5311.4	15.9
40°-50°	7787.8	23.3
50°-60°	9809.3	29.3
60°-70°	3689.2	11.0
70°-80°	980.9	2.9
80°-90°	168.2	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°	33471.0	100.0
0°-180°	33471.0	100.0



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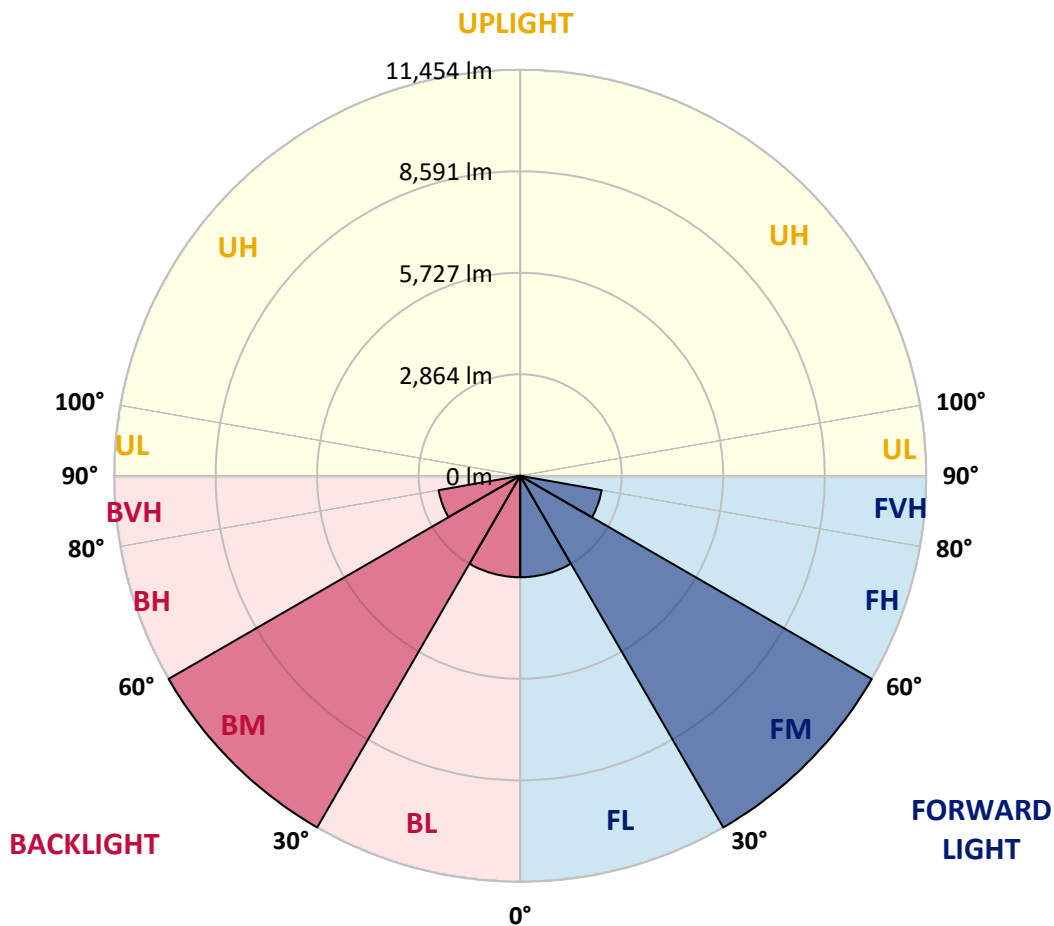
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2862.1	8.6			
FM (30°-60°)	11454.2	34.2			
FH (60°-80°)	2335.1	7.0			G2/5000
FVH (80°-90°)	84.1	0.3			G1/100
BL (0°-30°)	2862.1	8.6	B4/5000		
BM (30°-60°)	11454.2	34.2	B5		
BH (60°-80°)	2335.1	7.0	B3/2500		G2/5000
BVH (80°-90°)	84.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6610.3	6610.3	6610.3	6610.3	6610.3	6610.3	6610.3	6610.3	6610.3	6610.3	6610.3
2.5°	6577.3	6643.3	6614.4	6597.9	6610.3	6589.7	6556.7	6593.8	6585.5	6552.5	6540.2
5°	6560.8	6610.3	6577.3	6610.3	6577.3	6635.0	6618.5	6556.7	6630.9	6560.8	6585.5
7.5°	6548.4	6564.9	6573.2	6556.7	6544.3	6614.4	6577.3	6548.4	6507.2	6494.8	6515.4
10°	6519.6	6560.8	6498.9	6581.4	6597.9	6548.4	6548.4	6494.8	6461.8	6441.2	6511.3
12.5°	6593.8	6523.7	6515.4	6556.7	6569.0	6589.7	6531.9	6503.1	6441.2	6449.5	6437.1
15°	6507.2	6536.0	6540.2	6548.4	6560.8	6610.3	6556.7	6494.8	6470.1	6383.5	6391.7
17.5°	6540.2	6511.3	6540.2	6635.0	6618.5	6655.6	6597.9	6503.1	6445.3	6395.8	6461.8
20°	6597.9	6585.5	6597.9	6713.4	6734.0	6767.0	6717.5	6630.9	6519.6	6461.8	6494.8
22.5°	6659.8	6651.5	6659.8	6771.1	6890.7	6931.9	6882.4	6680.4	6622.6	6515.4	6478.3
25°	6771.1	6779.3	6865.9	6989.7	7068.0	7146.4	7055.6	6911.3	6725.7	6659.8	6581.4
27.5°	7018.5	7039.1	7088.6	7270.1	7406.1	7476.3	7348.4	7150.5	7035.0	6898.9	6878.3
30°	7323.7	7323.7	7410.3	7567.0	7752.5	7859.8	7703.1	7468.0	7327.8	7253.6	7208.2
32.5°	7727.8	7682.4	7715.4	7991.7	8280.4	8371.1	8160.8	7872.1	7649.4	7550.5	7517.5
35°	8074.2	8103.1	8177.3	8474.2	8795.8	9006.1	8676.2	8301.0	8074.2	7983.5	7967.0
37.5°	8523.7	8573.2	8610.3	9018.5	9406.1	9484.5	9167.0	8865.9	8589.6	8515.4	8474.2
40°	9158.7	9125.7	9138.1	9439.1	9789.6	9839.1	9525.7	9311.3	9084.5	9039.1	9039.1
42.5°	9682.4	9645.3	9686.5	9797.9	10065.9	10028.8	9855.6	9698.9	9604.1	9554.6	9604.1
45°	9999.9	9991.7	10065.9	10148.4	10338.1	10214.4	10078.3	10103.0	10012.3	9929.8	9925.7
47.5°	10346.3	10292.7	10383.5	10507.2	10362.8	10305.1	10296.9	10350.5	10321.6	10177.3	10131.9
50°	10515.4	10494.8	10639.1	10783.5	10705.1	10573.1	10602.0	10688.6	10317.5	10123.7	10012.3
52.5°	10969.0	10973.1	11249.4	11327.8	11294.8	11101.0	11162.8	10927.8	10490.7	10218.5	10230.9
55°	11682.4	11653.5	11962.8	12193.8	12230.9	11983.4	11686.5	11356.6	10808.2	10531.9	10449.4
57°	11290.7	11356.6	11698.9	12383.4	12729.8	12437.1	11789.6	11187.6	10457.7	10123.7	9975.2
57.5°	10767.0	10874.2	11468.0	12156.6	12519.5	12494.8	11661.8	10874.2	10222.6	9703.0	9715.4
60°	7888.6	7909.2	8445.3	9538.1	10672.1	10696.9	9682.4	8639.1	7913.4	7348.4	7426.8
62.5°	4160.8	4255.6	4470.1	5348.4	6329.9	6569.0	5954.6	5418.5	4791.7	4362.9	4404.1
65°	2202.1	2189.7	2292.8	2540.2	3022.7	3146.4	3063.9	2639.2	2420.6	2350.5	2354.6
67.5°	1789.7	1810.3	1797.9	1810.3	1843.3	1896.9	1884.5	1901.0	1913.4	1934.0	1929.9
70°	1517.5	1517.5	1525.8	1529.9	1529.9	1554.6	1583.5	1637.1	1641.2	1661.8	1670.1
72.5°	1195.9	1187.6	1200.0	1228.9	1233.0	1253.6	1294.8	1327.8	1340.2	1340.2	1315.5
75°	812.4	820.6	837.1	861.9	886.6	923.7	956.7	977.3	985.6	973.2	960.8
77.5°	457.7	466.0	478.3	515.5	544.3	577.3	614.4	635.0	655.7	659.8	635.0
80°	272.2	272.2	292.8	321.6	354.6	387.6	420.6	445.4	453.6	453.6	441.2
82.5°	164.9	169.1	185.6	214.4	243.3	263.9	292.8	313.4	329.9	325.8	317.5
85°	86.6	86.6	103.1	127.8	148.5	169.1	169.1	156.7	148.5	127.8	119.6
87.5°	28.9	24.7	33.0	33.0	28.9	33.0	33.0	37.1	37.1	37.1	37.1
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)