

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: P648301

Luminaire Tested: **GALN-SA3B-835-U-5NQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648301  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3B-835-U-5NQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9136.9 lumens  
Efficiency: N/A  
Efficacy: 75.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G0

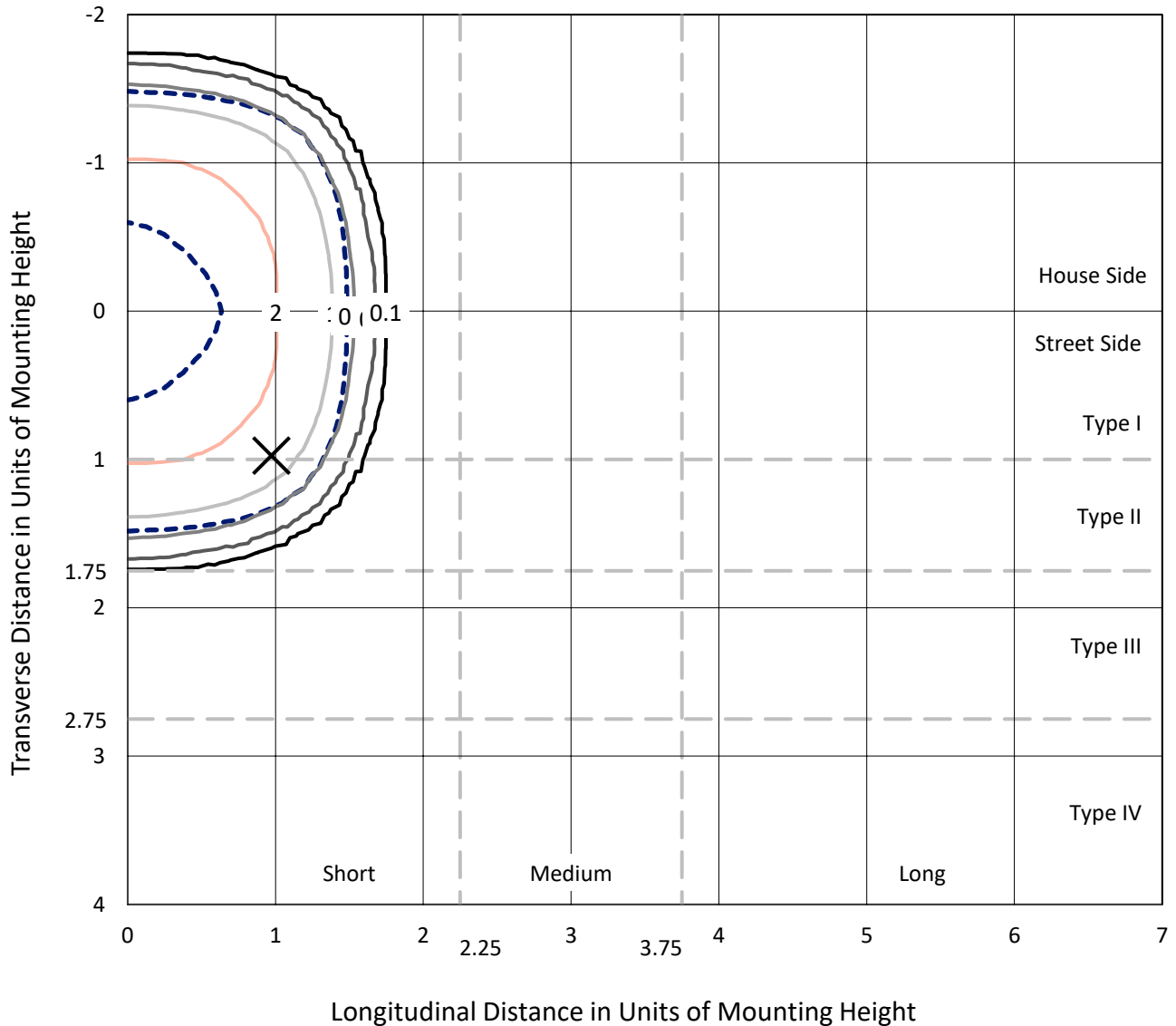
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

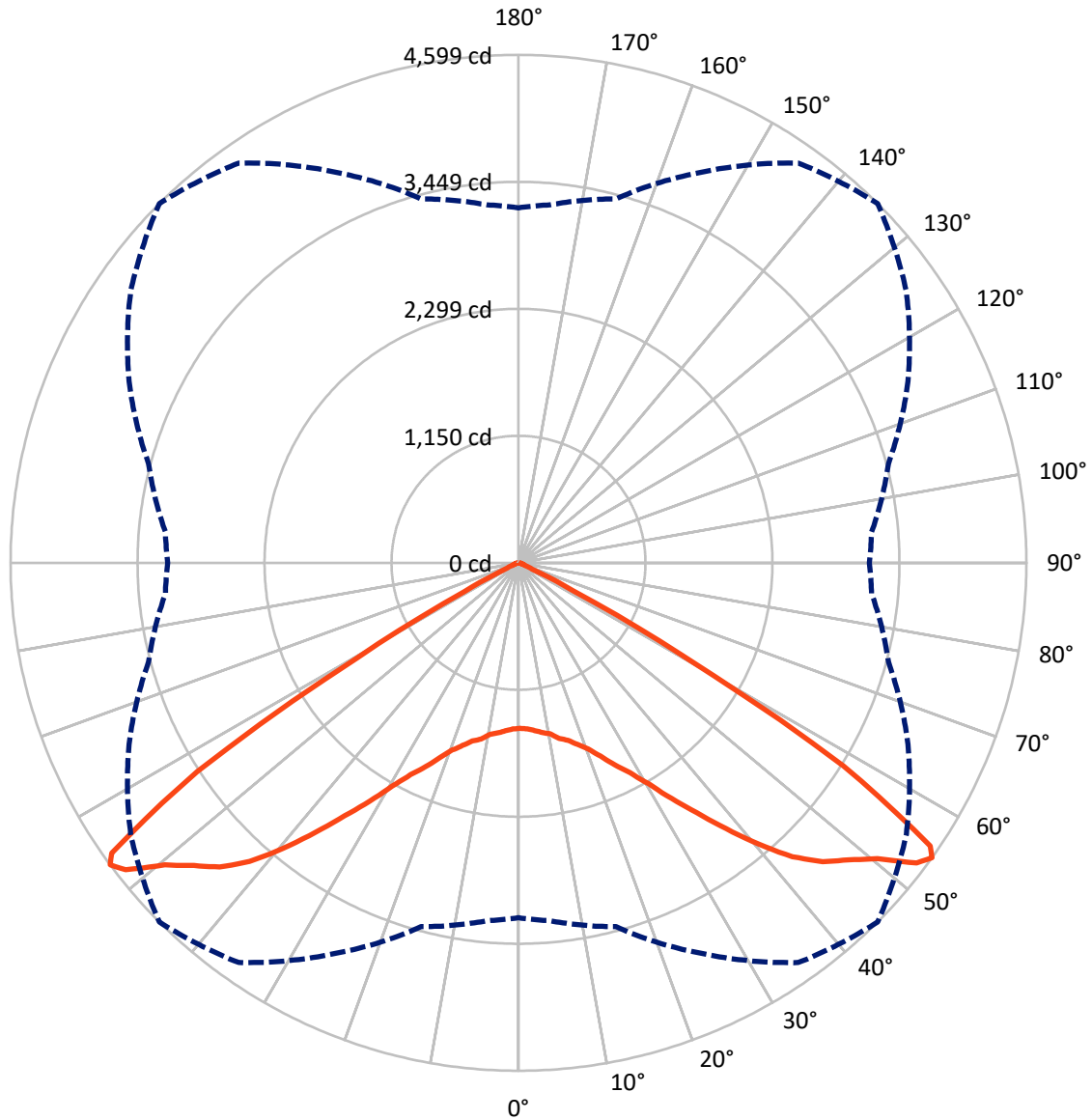
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 54-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4568.4	0.0	4568.4
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4568.4	0.0	4568.4
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	9136.9	0.0	9136.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.6	1.6
10°-20°	474.9	5.2
20°-30°	930.7	10.2
30°-40°	1673.6	18.3
40°-50°	2864.8	31.4
50°-60°	2772.0	30.3
60°-70°	237.3	2.6
70°-80°	28.1	0.3
80°-90°	8.8	0.1
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°	9136.9	100.0
0°-180°	9136.9	100.0

**Coefficient of Utilization**

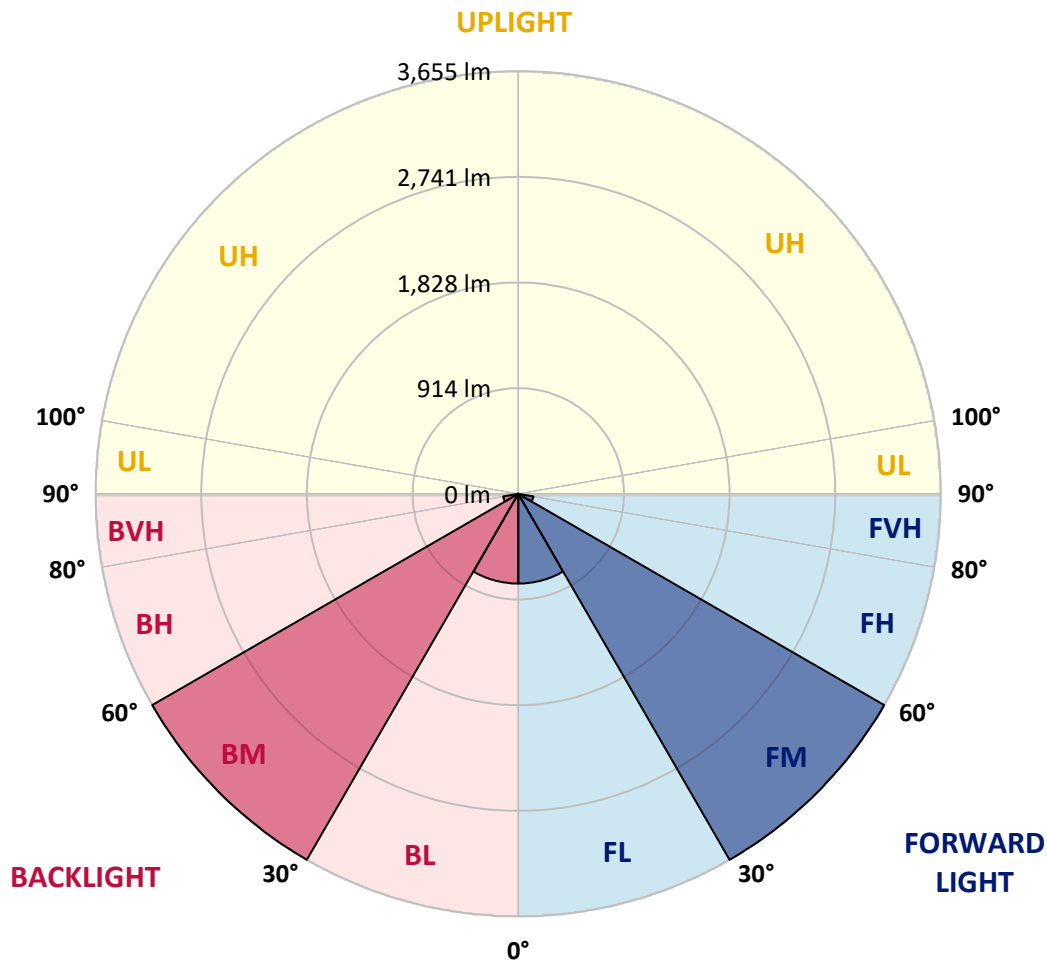


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	776.1	8.5			
FM (30°-60°)	3655.2	40.0			
FH (60°-80°)	132.7	1.5			G0/660
FVH (80°-90°)	4.4	0.0			G0/10
BL (0°-30°)	776.1	8.5	B2/1000		
BM (30°-60°)	3655.2	40.0	B3/5000		
BH (60°-80°)	132.7	1.5	B1/500		G0/660
BVH (80°-90°)	4.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G0**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1498.2	1498.2	1498.2	1498.2	1498.2	1498.2	1498.2	1498.2	1498.2	1498.2	1498.2
2.5°	1505.4	1514.1	1508.3	1512.6	1512.6	1505.4	1509.7	1492.4	1503.9	1495.3	1496.7
5°	1528.6	1527.1	1527.1	1528.6	1522.8	1525.7	1519.9	1514.1	1509.7	1503.9	1521.3
7.5°	1557.5	1557.5	1547.4	1550.3	1547.4	1551.7	1540.2	1528.6	1524.2	1519.9	1517.0
10°	1585.0	1582.1	1577.7	1590.8	1580.6	1574.8	1569.1	1561.9	1546.0	1540.2	1534.4
12.5°	1625.5	1624.1	1618.3	1631.3	1625.5	1631.3	1609.6	1590.8	1587.9	1569.1	1579.2
15°	1673.3	1686.3	1676.2	1676.2	1673.3	1666.1	1657.4	1648.7	1622.6	1615.4	1616.8
17.5°	1735.5	1731.2	1732.6	1732.6	1747.1	1728.3	1710.9	1689.2	1676.2	1671.9	1657.4
20°	1794.9	1800.7	1799.3	1809.4	1818.0	1797.8	1779.0	1776.1	1739.9	1745.7	1725.4
22.5°	1899.1	1894.8	1902.0	1909.3	1903.5	1900.6	1883.2	1861.5	1829.6	1815.2	1812.3
25°	2009.1	2001.9	1988.8	2006.2	2014.9	2028.0	1994.6	1983.1	1933.9	1912.2	1913.6
27.5°	2103.2	2113.3	2127.8	2135.1	2156.8	2152.4	2129.3	2091.6	2054.0	2029.4	2013.5
30°	2232.0	2237.8	2262.4	2272.6	2310.2	2320.3	2284.2	2240.7	2174.2	2142.3	2123.5
32.5°	2350.7	2391.3	2389.8	2440.5	2501.3	2543.3	2478.1	2411.6	2344.9	2307.3	2274.0
35°	2543.3	2536.0	2577.9	2631.5	2730.0	2777.8	2706.8	2630.1	2528.8	2467.9	2441.9
37.5°	2722.7	2725.6	2782.1	2867.5	2980.4	3054.2	2992.0	2866.0	2761.8	2683.7	2647.5
40°	2983.3	2989.1	3047.0	3144.0	3271.3	3350.9	3278.6	3151.2	3012.2	2951.4	2951.4
42.5°	3288.7	3313.3	3350.9	3434.9	3549.3	3637.6	3572.4	3472.5	3332.1	3254.0	3265.6
45°	3602.8	3614.4	3639.0	3763.5	3817.0	3860.4	3799.7	3753.3	3659.3	3563.7	3547.8
47.5°	3896.7	3901.0	3973.3	4012.5	4054.5	4018.3	4057.3	3996.5	3890.9	3798.3	3779.4
50°	4026.9	4019.7	4122.5	4241.1	4273.0	4209.3	4176.1	4135.5	3974.8	3863.3	3814.1
52.5°	3647.7	3689.7	3880.7	4210.7	4459.7	4513.3	4319.3	4132.6	3832.9	3615.8	3582.5
54°	3213.4	3252.5	3410.3	3899.6	4417.8	4598.7	4286.1	3889.4	3466.7	3209.1	3175.8
55°	2783.6	2740.1	3026.7	3526.1	4220.9	4523.4	4154.3	3575.3	3091.8	2855.9	2809.6
57.5°	1506.8	1514.1	1755.8	2227.7	2965.9	3468.2	3062.9	2418.8	1826.7	1561.9	1538.7
60°	477.7	489.2	594.9	900.4	1417.1	1692.1	1450.4	971.2	671.7	538.5	516.8
62.5°	149.1	154.9	169.4	251.9	387.9	554.4	434.3	260.6	193.9	178.1	181.0
65°	91.2	91.2	92.6	98.4	115.8	134.6	130.3	114.3	110.0	107.1	105.7
67.5°	59.4	57.9	60.8	65.1	68.0	69.5	73.8	78.1	76.7	73.8	73.8
70°	36.2	34.8	37.7	43.5	44.9	47.8	52.1	57.9	56.5	53.6	55.0
72.5°	20.3	20.3	21.7	26.1	30.4	33.3	37.7	42.0	43.5	42.0	42.0
75°	7.2	8.7	11.6	15.9	18.8	23.2	27.5	31.9	36.2	33.3	31.9
77.5°	2.9	2.9	5.8	10.1	14.5	18.8	26.1	30.4	33.3	30.4	27.5
80°	1.4	1.4	4.3	8.7	13.0	17.4	21.7	26.1	27.5	24.6	21.7
82.5°	1.4	1.4	4.3	8.7	13.0	15.9	23.2	26.1	29.0	26.1	21.7
85°	0.0	1.4	4.3	8.7	11.6	13.0	13.0	8.7	7.2	4.3	4.3
87.5°	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)