

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: P647092

Luminaire Tested: **GALN-SA8C-835-U-5NQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647092  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8C-835-U-5NQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 40037.9 lumens  
Efficiency: N/A  
Efficacy: 93.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

Input Watts (W): 429  
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

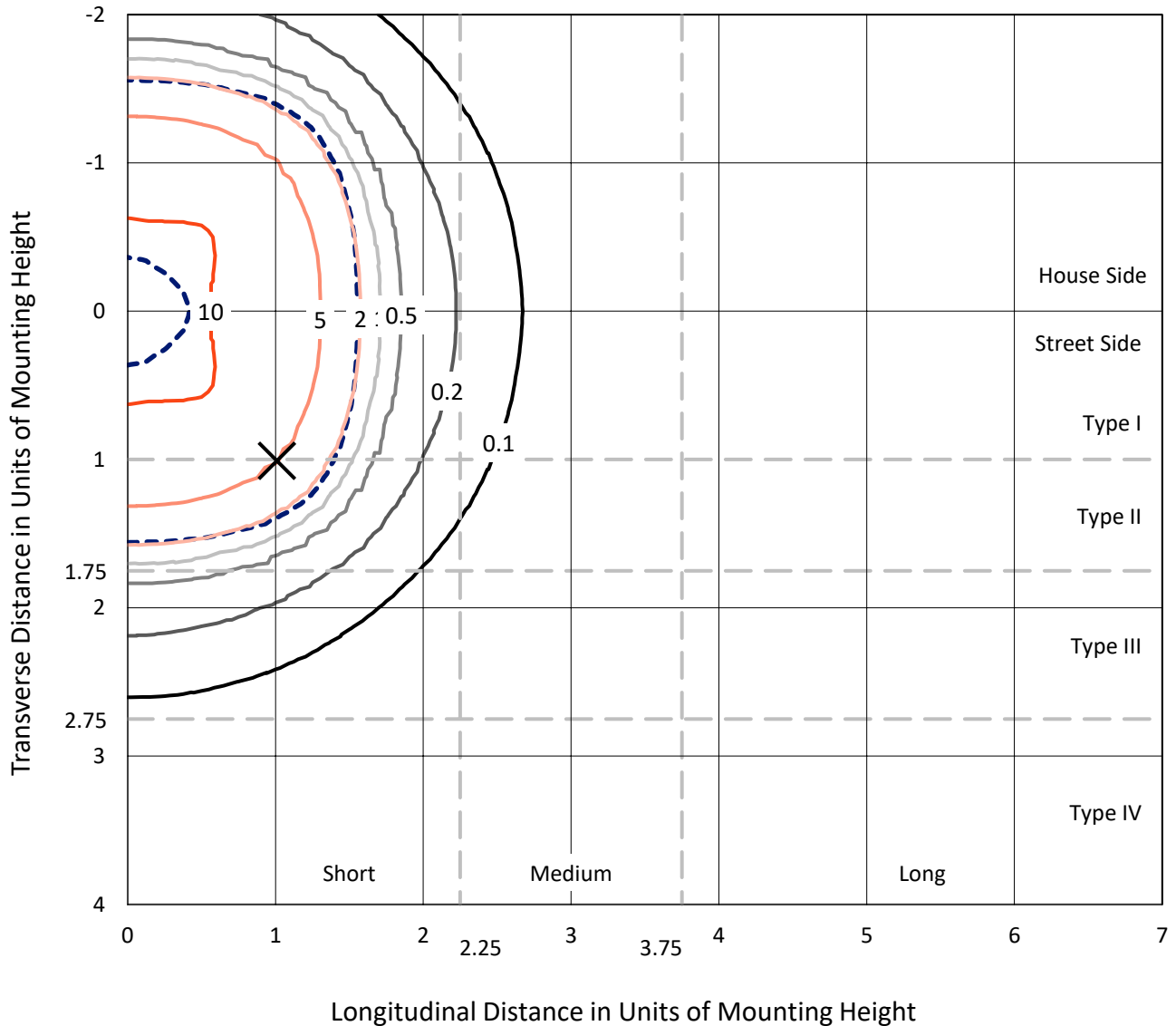




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### Iso-Footcandle Lines of Horizontal Illumination

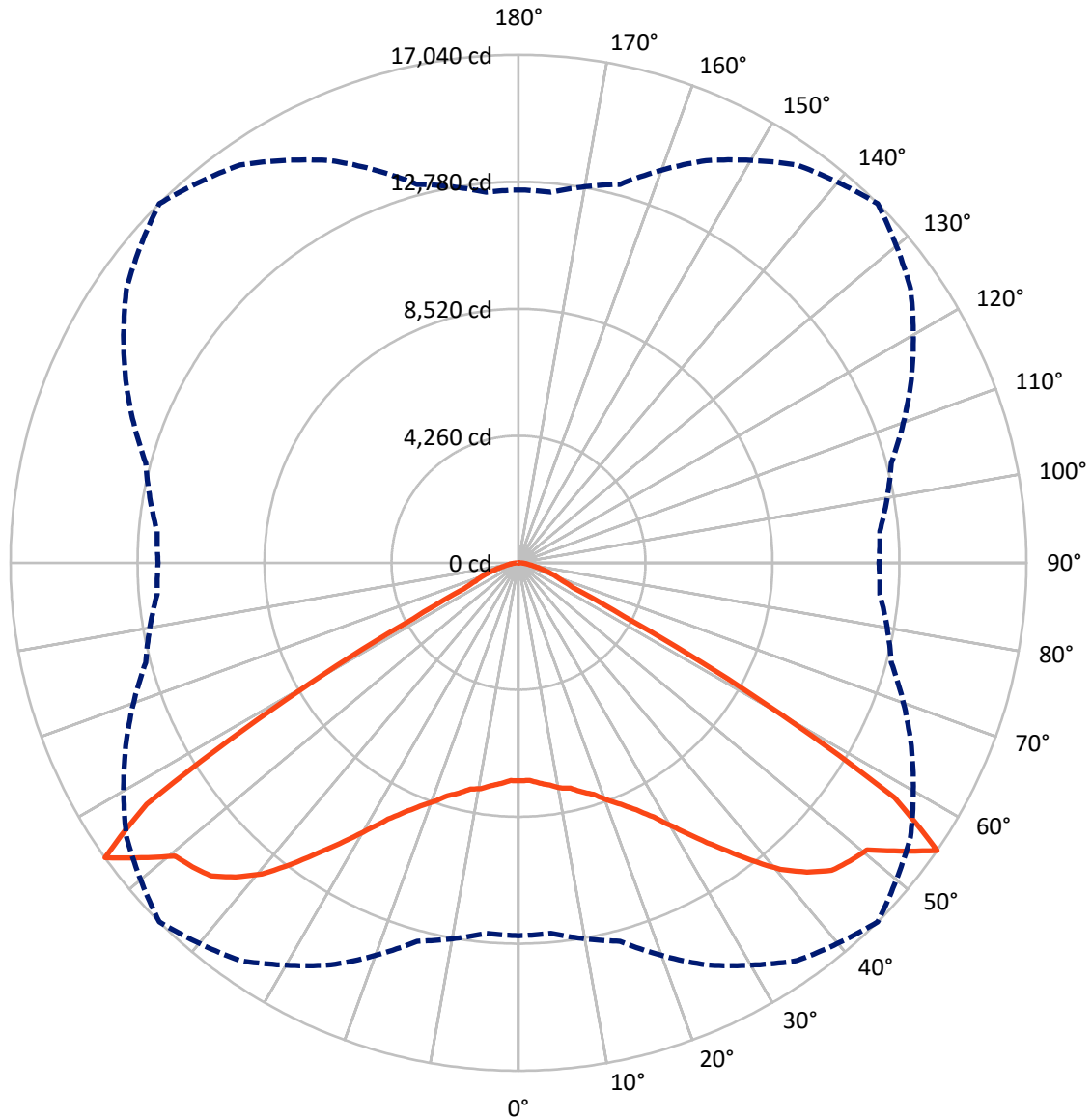
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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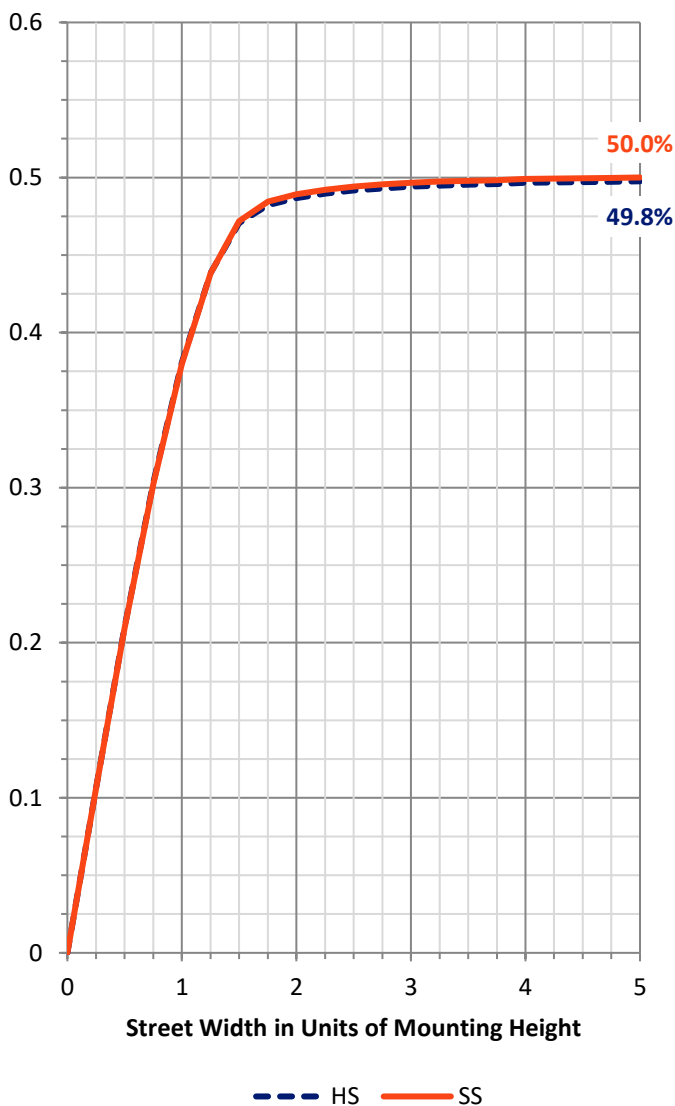
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	20019.0	0.0	20019.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	20019.0	0.0	20019.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	40037.9	0.0	40037.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	714.1	1.8
10°-20°	2262.8	5.7
20°-30°	4219.4	10.5
30°-40°	7064.6	17.6
40°-50°	10993.1	27.5
50°-60°	11414.3	28.5
60°-70°	2420.6	6.0
70°-80°	797.2	2.0
80°-90°	151.8	0.4
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°	40037.9	100.0
0°-180°	40037.9	100.0

**Coefficient of Utilization**

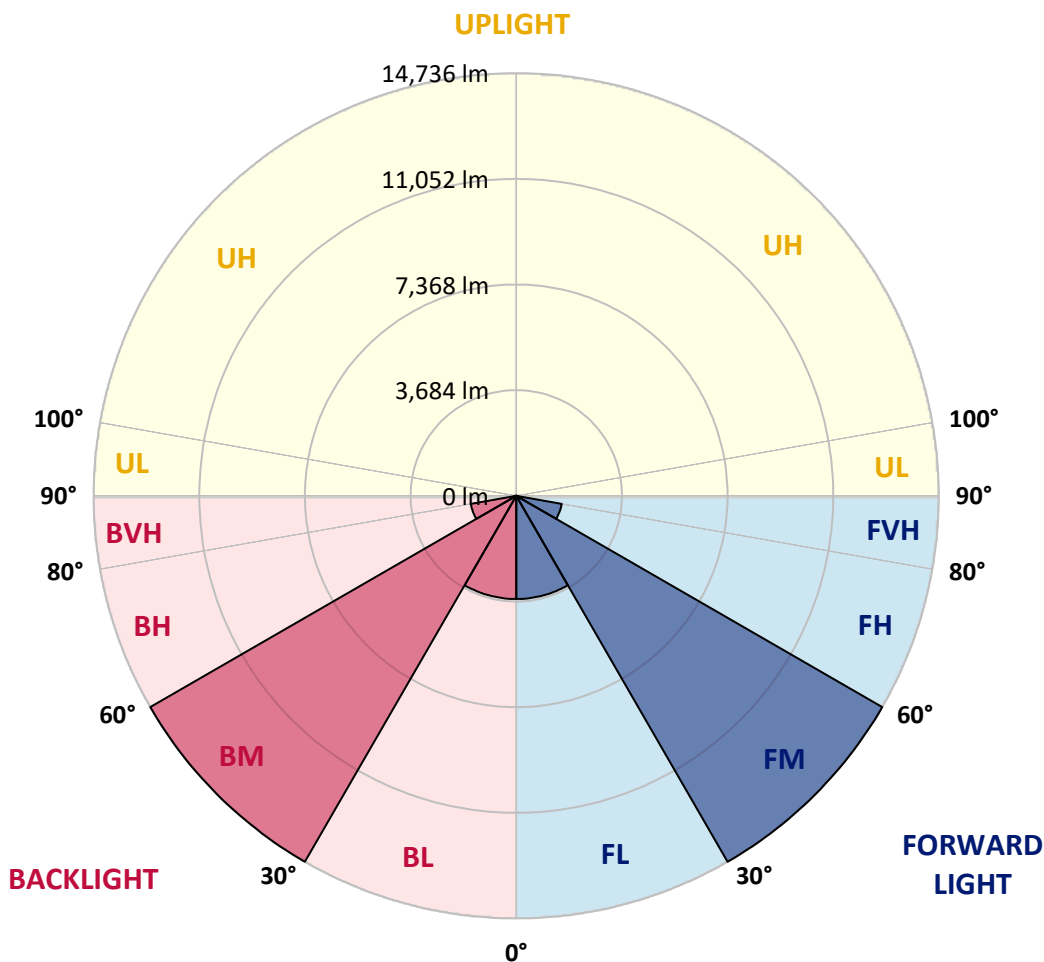


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3598.2	9.0			
FM (30°-60°)	14736.0	36.8			
FH (60°-80°)	1608.9	4.0			G1/1800
FVH (80°-90°)	75.9	0.2			G1/100
BL (0°-30°)	3598.2	9.0	B4/5000		
BM (30°-60°)	14736.0	36.8	B5		
BH (60°-80°)	1608.9	4.0	B3/2500		G1/1800
BVH (80°-90°)	75.9	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-G1**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7310.3	7310.3	7310.3	7310.3	7310.3	7310.3	7310.3	7310.3	7310.3	7310.3	7310.3
2.5°	7397.4	7363.6	7305.5	7349.0	7382.9	7310.3	7339.4	7353.9	7344.2	7305.5	7320.0
5°	7503.9	7484.5	7436.2	7470.0	7426.4	7426.4	7397.4	7358.7	7416.7	7407.1	7431.3
7.5°	7503.9	7479.7	7576.4	7513.5	7532.9	7532.9	7484.5	7445.8	7474.8	7431.3	7407.1
10°	7653.8	7687.7	7644.1	7658.7	7649.0	7682.9	7610.3	7586.1	7561.9	7547.4	7518.4
12.5°	7832.8	7808.6	7823.2	7813.5	7847.4	7760.2	7716.7	7663.5	7707.1	7644.1	7687.7
15°	7978.0	7963.5	7978.0	8016.7	7982.8	7978.0	7900.5	7847.4	7779.7	7794.1	7726.4
17.5°	8176.3	8161.8	8166.7	8200.5	8195.7	8171.5	8113.4	8011.8	7987.7	7948.9	7905.4
20°	8471.4	8447.2	8437.6	8452.1	8476.3	8495.6	8379.5	8340.8	8258.6	8195.7	8123.2
22.5°	8723.0	8713.4	8752.1	8689.2	8742.4	8800.5	8689.2	8669.8	8466.7	8432.8	8355.3
25°	9071.4	9056.9	9032.7	9124.6	9187.5	9182.6	9076.2	8969.8	8814.9	8776.3	8776.3
27.5°	9439.1	9356.8	9482.6	9506.8	9618.1	9652.0	9560.0	9405.2	9260.1	9177.9	9197.2
30°	9898.7	9821.3	9850.3	10024.5	10169.6	10295.4	10063.2	9835.8	9632.6	9487.5	9463.3
32.5°	10358.3	10280.9	10368.0	10537.3	10827.6	11016.3	10788.9	10392.2	10155.1	9942.2	9985.8
35°	10730.9	10788.9	10929.2	11185.6	11485.6	11790.4	11427.5	11122.7	10784.1	10547.0	10580.8
37.5°	11330.8	11509.8	11621.1	11916.2	12342.0	12656.4	12279.0	11882.3	11519.4	11209.8	11103.4
40°	12114.5	12235.5	12361.3	12709.6	13212.8	13527.3	13169.2	12651.6	12293.6	11974.3	11959.7
42.5°	12975.7	13091.8	13222.4	13648.2	13948.1	14185.2	13856.2	13580.4	13183.8	12932.2	12917.6
45°	13977.2	13895.0	14040.1	14320.7	14572.3	14727.1	14514.2	14378.8	14093.3	13861.1	13836.9
47.5°	14644.8	14572.3	14833.5	15085.1	15123.8	14954.5	14998.1	15123.8	14823.8	14441.7	14562.6
50°	15031.9	15031.9	15206.1	15438.3	15365.7	15148.0	15491.5	15501.2	15201.2	14862.6	14862.6
52.5°	14359.4	14509.4	15002.8	15762.4	16004.4	16067.2	15989.8	15660.9	14877.1	14185.2	14151.4
55°	12511.2	12477.4	13145.0	14886.8	16294.6	17039.7	16052.8	14538.4	12946.7	12167.7	12090.4
57.5°	8137.6	8176.3	9173.0	10948.5	13488.6	14877.1	13212.8	11084.0	9173.0	8099.0	8200.5
60°	3662.4	3793.1	4397.8	5723.4	7905.4	9037.5	7924.7	6013.8	4615.6	4005.9	4059.2
62.5°	2104.5	2128.7	2152.9	2554.5	3367.3	3981.7	3497.9	2699.6	2380.3	2273.9	2273.9
65°	1775.6	1761.0	1765.9	1799.7	1886.9	2012.6	1959.5	1886.9	1896.5	1886.9	1872.3
67.5°	1509.5	1528.8	1514.3	1538.5	1543.4	1562.7	1596.5	1625.6	1630.4	1640.1	1630.4
70°	1238.5	1243.4	1253.0	1272.4	1277.2	1291.8	1340.2	1364.3	1378.9	1378.9	1398.2
72.5°	948.3	943.4	953.1	972.5	996.7	1001.5	1045.0	1078.9	1098.2	1074.0	1078.9
75°	624.1	629.0	643.5	658.0	691.9	725.7	740.2	774.1	778.9	788.6	764.4
77.5°	372.6	382.2	396.7	425.7	454.8	483.8	517.6	541.8	551.5	541.8	512.9
80°	241.9	241.9	261.3	285.5	319.3	343.5	362.8	382.2	396.7	382.2	372.6
82.5°	149.9	149.9	174.1	203.2	227.4	241.9	270.9	295.1	309.6	300.0	285.5
85°	77.4	82.2	101.6	125.8	145.2	154.8	149.9	135.5	121.0	116.1	106.4
87.5°	24.2	24.2	29.0	29.0	24.2	24.2	29.0	24.2	29.0	29.0	29.0
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)