

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: P647598

Luminaire Tested: **GALN-SA8D-835-U-RW**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647598  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8D-835-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 50464.3 lumens  
Efficiency: N/A  
Efficacy: 102.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B5 - U0 - G5

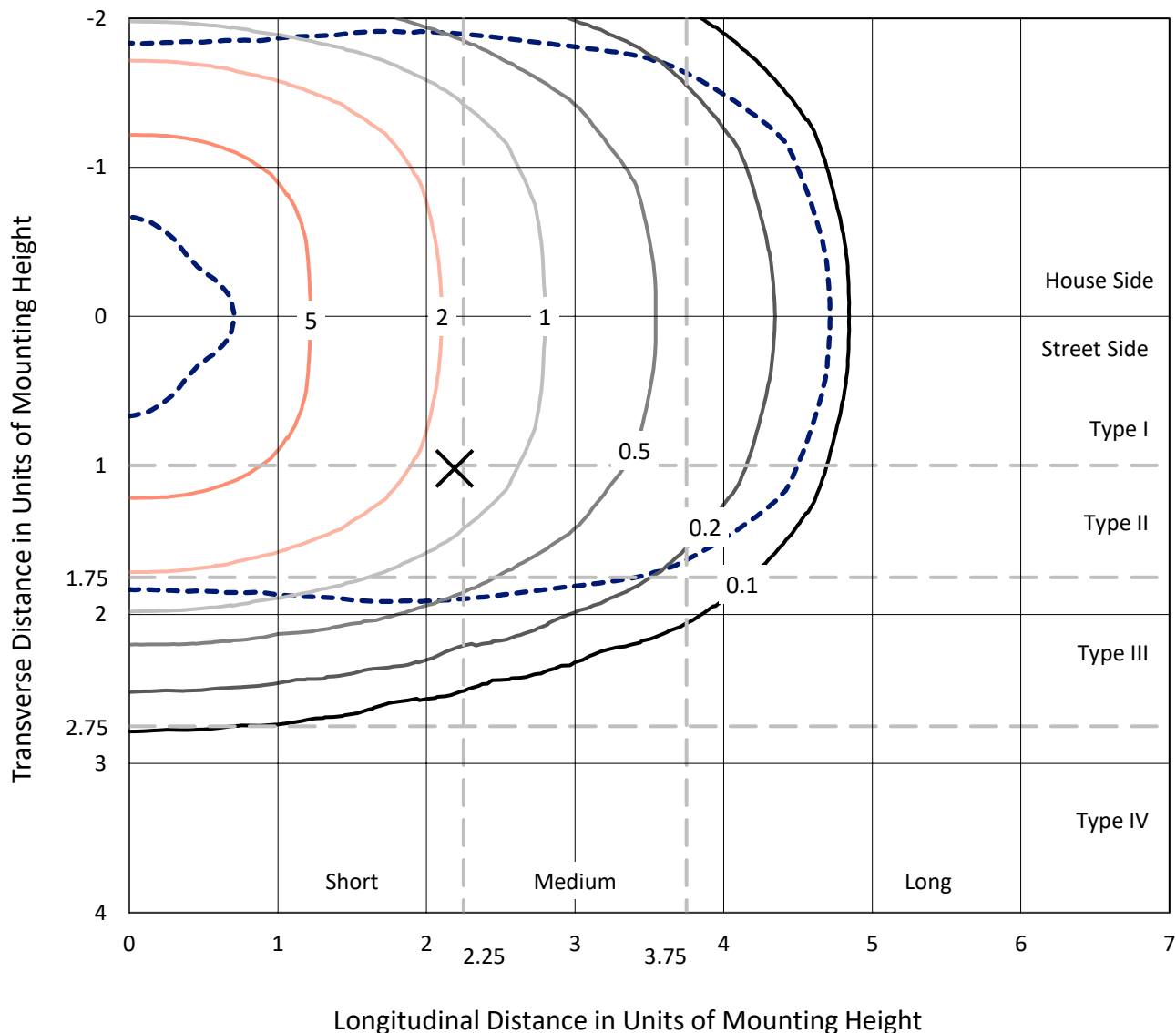
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

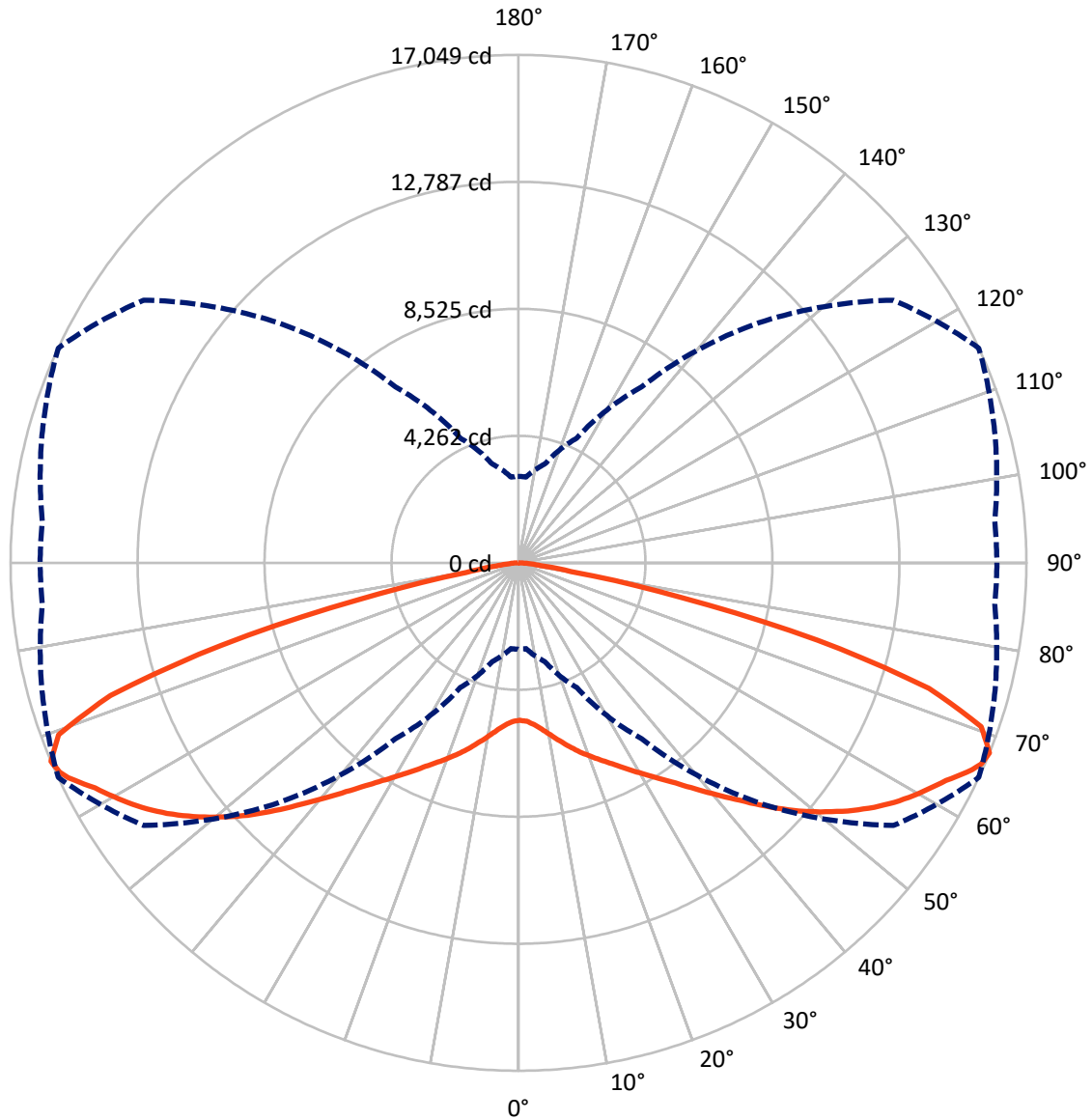
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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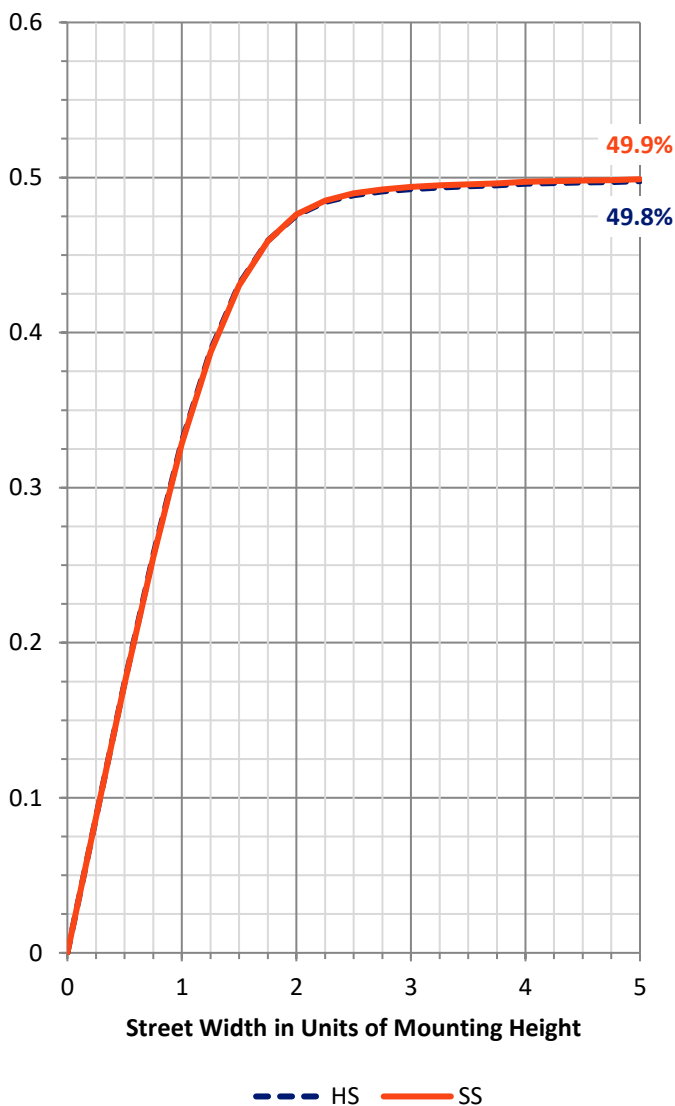
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	25232.2	0.0	25232.2
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	25232.2	0.0	25232.2
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	50464.3	0.0	50464.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	521.3	1.0
10°-20°	1744.8	3.5
20°-30°	3412.9	6.8
30°-40°	5804.9	11.5
40°-50°	9187.5	18.2
50°-60°	12182.4	24.1
60°-70°	11491.7	22.8
70°-80°	5681.0	11.3
80°-90°	437.8	0.9
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°	50464.3	100.0
0°-180°	50464.3	100.0

**Coefficient of Utilization**

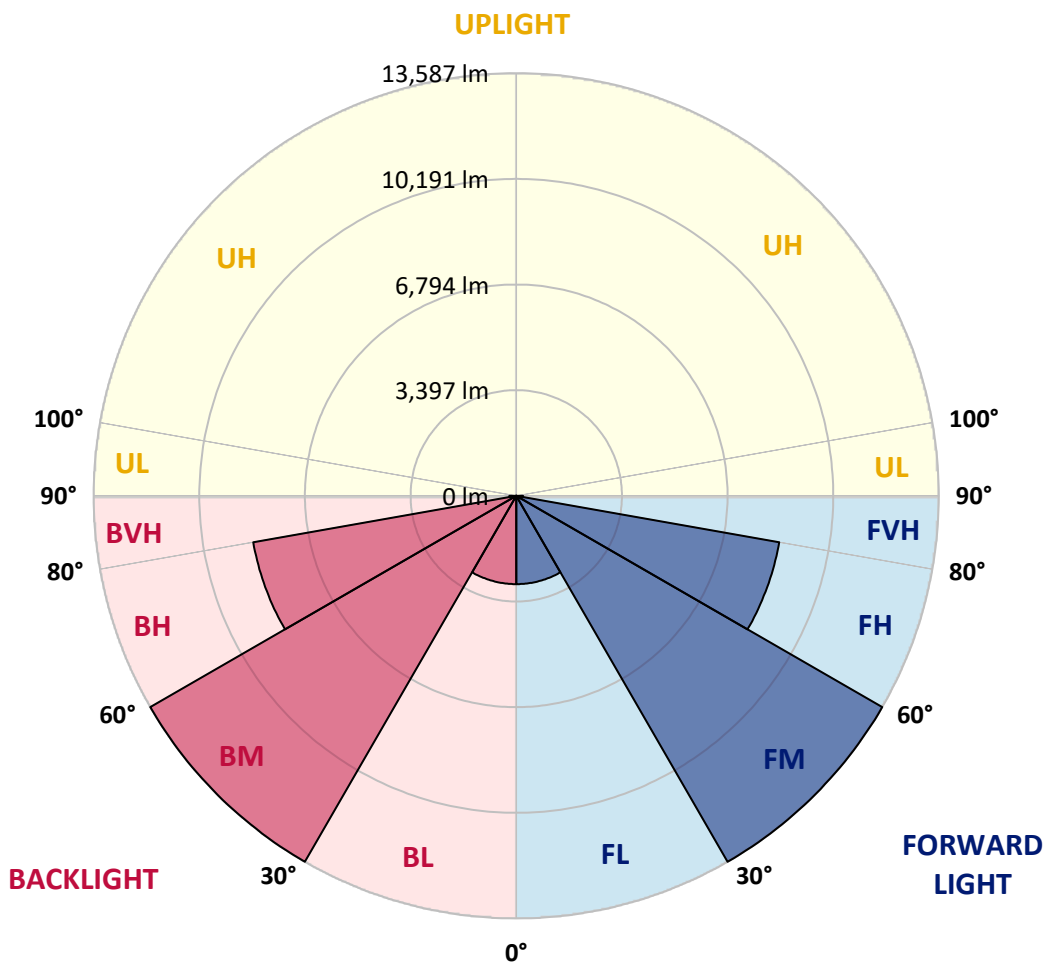


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2839.5	5.6			
FM (30°-60°)	13587.4	26.9			
FH (60°-80°)	8586.4	17.0			G4/12000
FVH (80°-90°)	218.9	0.4			G2/225
BL (0°-30°)	2839.5	5.6	B4/5000		
BM (30°-60°)	13587.4	26.9	B5		
BH (60°-80°)	8586.4	17.0	B5		G5
BVH (80°-90°)	218.9	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5285.7	5285.7	5285.7	5285.7	5285.7	5285.7	5285.7	5285.7	5285.7	5285.7	5285.7
2.5°	5258.6	5264.0	5269.5	5277.6	5288.4	5304.6	5315.5	5323.5	5345.1	5347.9	5345.1
5°	5239.8	5245.2	5258.6	5283.0	5318.1	5366.8	5404.7	5450.6	5485.8	5510.1	5504.7
7.5°	5237.0	5247.8	5269.5	5320.9	5388.4	5472.2	5558.8	5637.2	5704.8	5758.8	5750.7
10°	5280.3	5293.8	5328.9	5404.7	5510.1	5631.7	5753.4	5869.7	5967.0	6037.3	6061.7
12.5°	5353.3	5364.1	5429.0	5542.5	5694.0	5845.3	5983.2	6126.5	6261.7	6380.7	6380.7
15°	5480.4	5499.3	5580.4	5745.3	5931.9	6107.6	6248.2	6399.6	6545.6	6680.8	6721.4
17.5°	5656.1	5683.2	5804.8	6015.7	6253.6	6415.8	6548.3	6672.6	6799.7	6929.6	6948.4
20°	5896.7	5923.8	6085.9	6340.1	6621.3	6816.0	6905.2	6935.0	6997.1	7121.5	7137.7
22.5°	6223.9	6250.9	6432.0	6718.6	7032.3	7243.1	7281.0	7210.7	7194.5	7291.8	7302.6
25°	6594.3	6618.6	6826.8	7135.0	7459.5	7689.3	7678.5	7505.4	7408.1	7467.5	7483.8
27.5°	7010.7	7045.8	7256.7	7575.7	7927.2	8130.0	8097.6	7846.1	7637.9	7627.0	7632.5
30°	7543.3	7581.1	7781.2	8086.7	8432.8	8619.3	8551.8	8213.7	7892.0	7783.9	7783.9
32.5°	8105.6	8200.3	8403.1	8722.1	8992.4	9127.6	9024.9	8619.3	8192.1	8040.8	8032.6
35°	8838.3	8889.7	9089.8	9400.7	9603.5	9708.9	9511.6	9076.2	8584.2	8405.7	8381.4
37.5°	9554.8	9598.1	9830.6	10127.9	10374.0	10368.6	10100.9	9619.7	9070.8	8870.8	8854.6
40°	10287.5	10333.5	10598.5	10871.5	11117.5	11095.9	10771.5	10233.4	9649.5	9425.0	9468.3
42.5°	10922.8	10974.2	11274.3	11663.6	11885.4	11880.0	11504.1	10898.5	10290.2	10090.1	10127.9
45°	11501.5	11547.4	11896.2	12342.3	12666.7	12707.3	12296.3	11655.6	11031.0	10774.2	10785.0
47.5°	11909.7	11996.3	12361.2	12872.2	13313.0	13456.2	13053.4	12426.1	11706.9	11439.2	11455.5
50°	12220.7	12274.7	12672.2	13253.4	13810.4	14107.8	13783.4	13139.9	12382.8	12099.0	12136.8
52.5°	12258.5	12323.4	12755.9	13426.5	14140.3	14591.8	14432.3	13837.4	13072.3	12780.3	12861.4
55°	11950.3	11988.1	12504.5	13318.4	14270.0	14951.4	14991.9	14486.3	13729.3	13507.6	13561.6
57.5°	11071.5	11168.9	11823.2	12812.8	14091.6	15143.3	15411.0	15075.7	14394.4	14175.4	14262.0
60°	9630.5	9727.8	10384.9	11639.4	13418.3	15054.1	15757.0	15597.5	14997.3	14821.6	14867.5
62.5°	7546.0	7537.9	8351.6	9890.1	12080.0	14616.1	16013.9	16100.4	15592.1	15370.4	15440.7
65°	4890.9	4915.3	5702.0	7359.4	10060.4	13502.2	16070.7	16741.2	16176.2	15840.9	15892.2
66°	3933.9	4006.8	4674.7	6202.2	9030.3	12772.2	15900.4	16930.4	16354.6	15949.0	15973.4
67.5°	2903.8	2890.2	3439.1	4617.9	7210.7	11385.2	15367.7	17049.4	16557.3	16046.3	16057.1
70°	1657.4	1654.6	1849.3	2536.1	4239.4	8016.4	12953.3	16478.9	16968.3	16397.8	16368.1
72.5°	1211.2	1203.2	1230.2	1400.5	2068.3	4047.4	8935.7	14402.5	16757.4	16341.1	16257.2
75°	1016.6	1011.2	1005.8	1027.4	1159.9	1833.1	4742.2	10360.5	14540.4	15338.0	15251.4
77.5°	830.1	830.1	832.7	827.3	832.7	965.2	1965.6	5553.3	8854.6	9884.7	10125.3
80°	648.9	646.2	692.2	673.2	629.9	619.1	870.6	1787.1	2938.9	2922.7	2411.7
82.5°	478.6	446.1	527.2	513.7	465.0	394.7	508.3	762.4	981.4	638.1	473.2
85°	302.8	300.1	373.1	340.7	283.9	186.6	243.4	327.1	405.5	246.0	200.1
87.5°	54.1	51.4	118.9	86.5	86.5	54.1	67.6	89.2	132.5	91.9	67.6
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)