

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: P648140

Luminaire Tested: **GALN-SA9A-835-U-5WQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648140  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9A-835-U-5WQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27539.7 lumens  
Efficiency: N/A  
Efficacy: 100.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G2

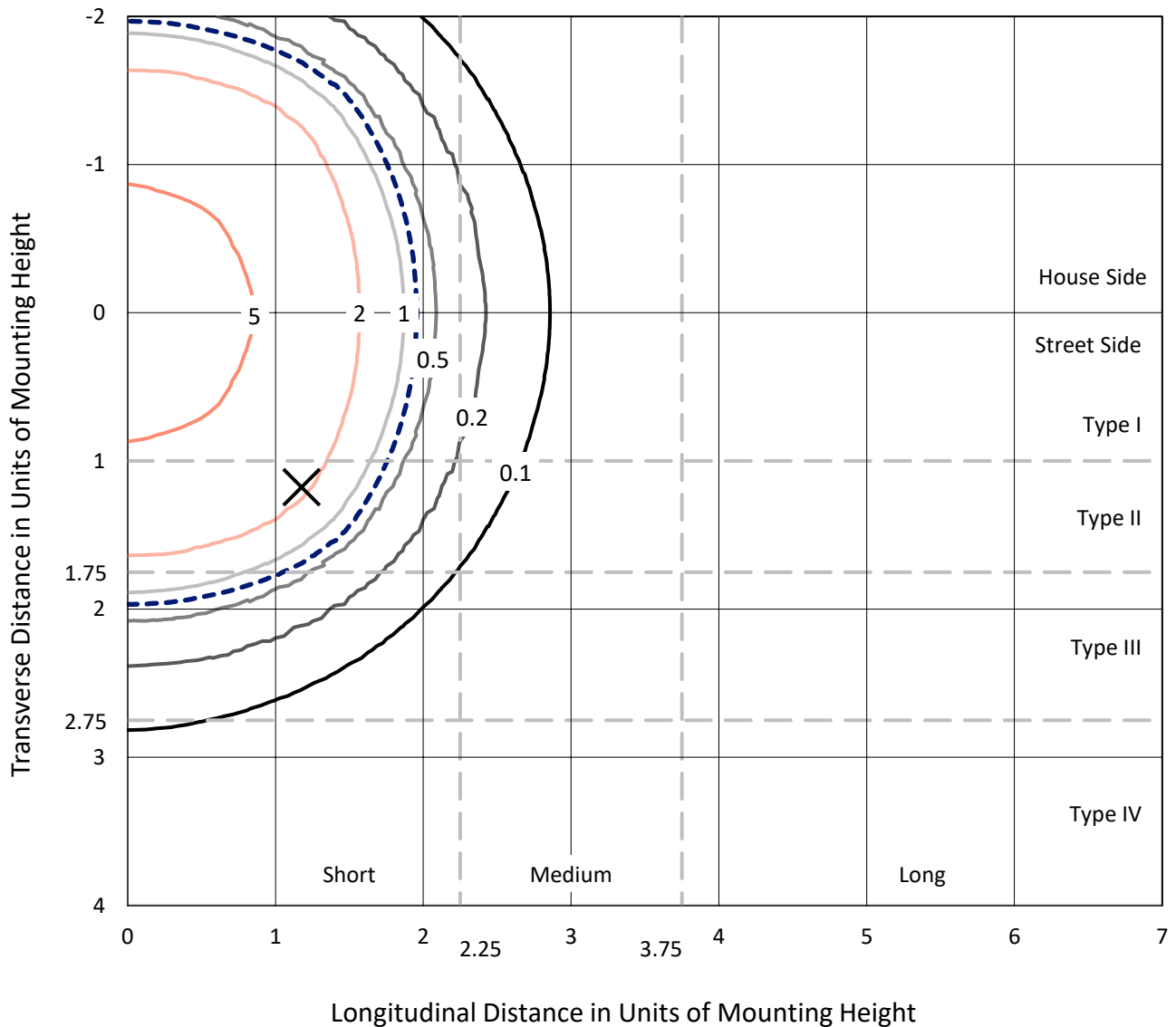
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

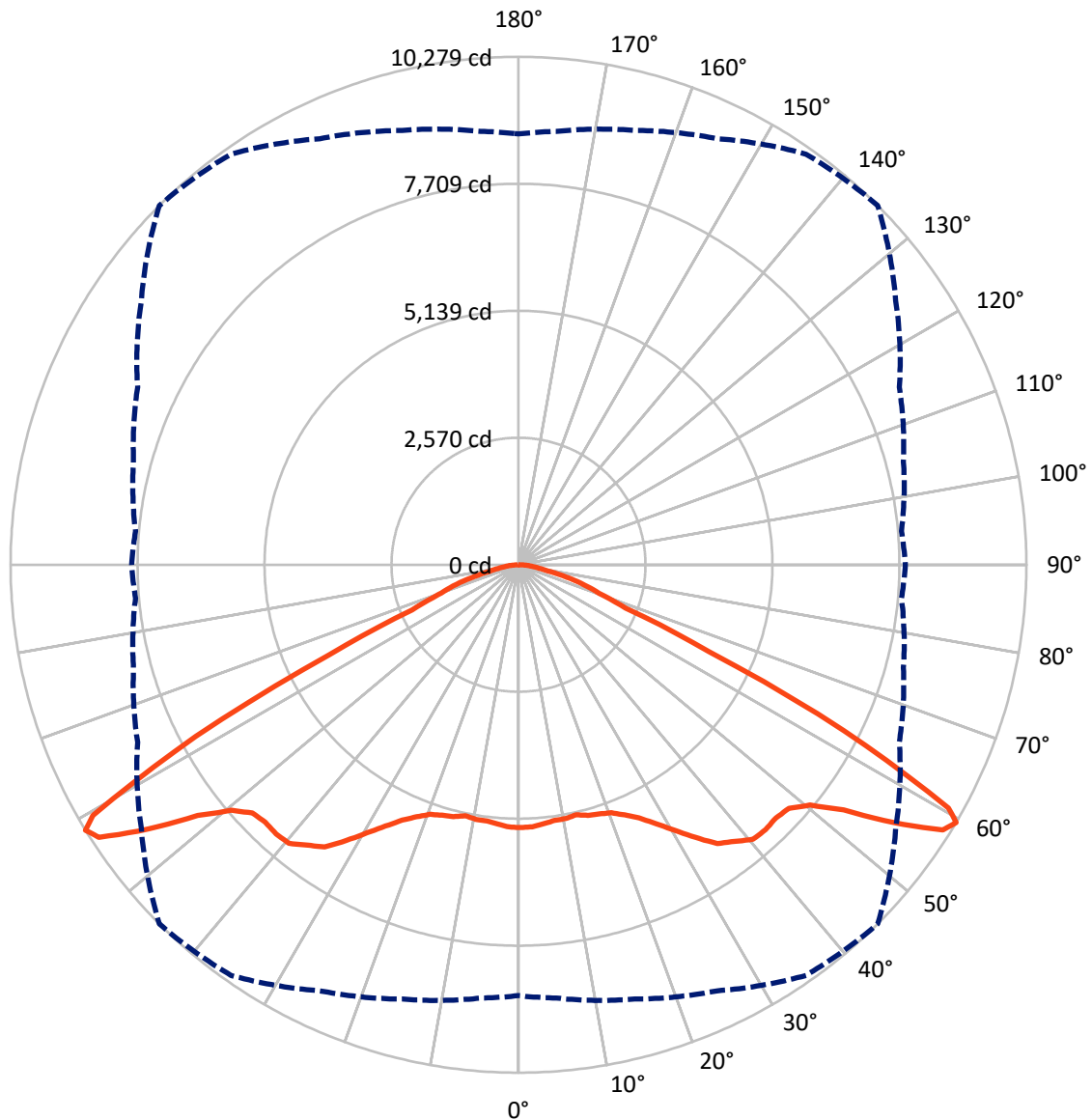
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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 59-Deg Vertical

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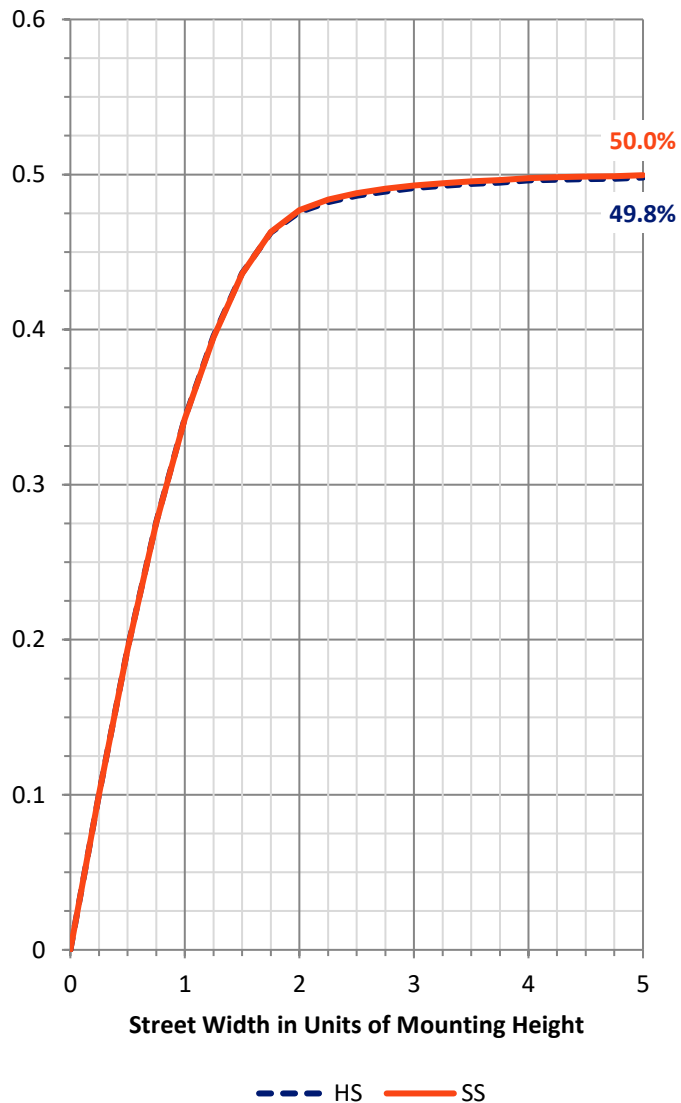
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13769.8	0.0	13769.8
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	13769.8	0.0	13769.8
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	27539.7	0.0	27539.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	501.4	1.8
10°-20°	1491.2	5.4
20°-30°	2603.8	9.5
30°-40°	4158.7	15.1
40°-50°	5664.9	20.6
50°-60°	7660.5	27.8
60°-70°	4201.0	15.3
70°-80°	1074.8	3.9
80°-90°	183.3	0.7
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°	27539.7	100.0
0°-180°	27539.7	100.0

**Coefficient of Utilization**

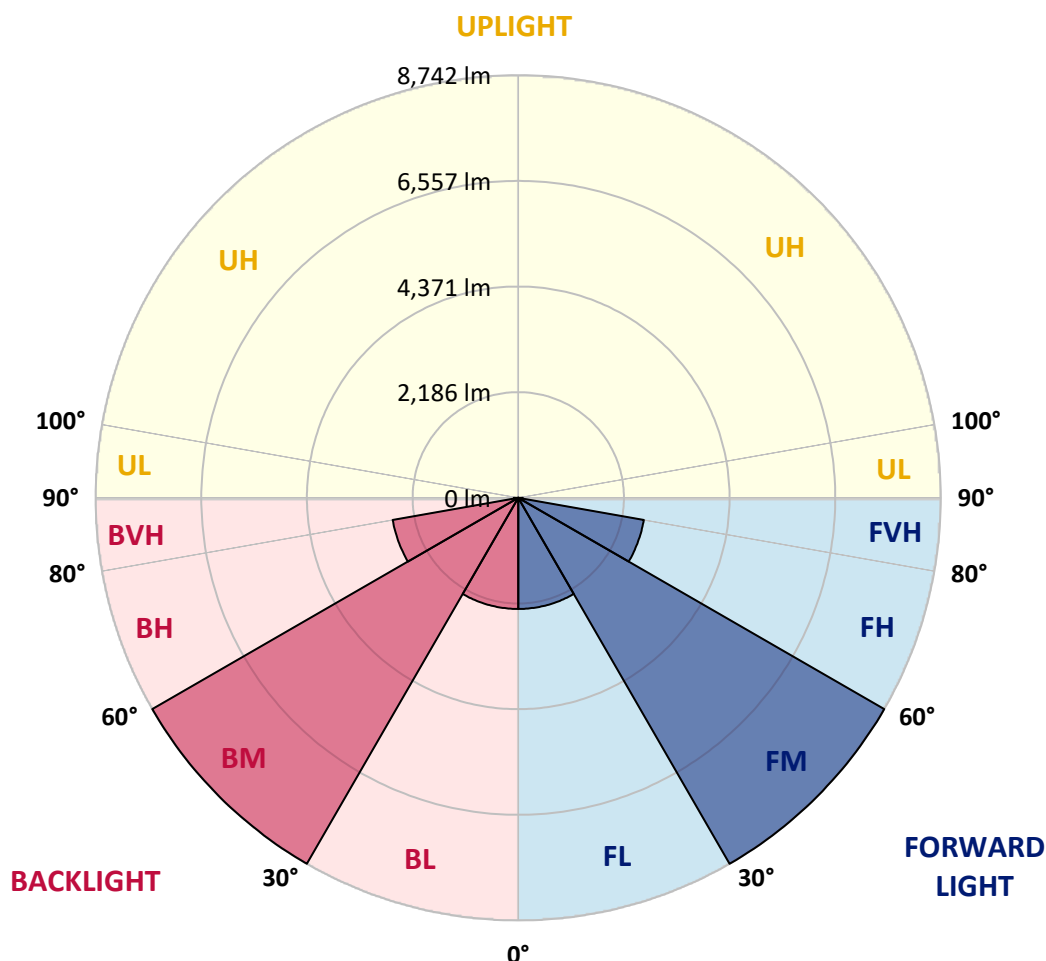


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2298.2	8.3			
FM (30°-60°)	8742.1	31.7			
FH (60°-80°)	2637.9	9.6			G2/5000
FVH (80°-90°)	91.7	0.3			G1/100
BL (0°-30°)	2298.2	8.3	B3/2500		
BM (30°-60°)	8742.1	31.7	B5		
BH (60°-80°)	2637.9	9.6	B4/5000		G2/5000
BVH (80°-90°)	91.7	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°	5319.3	5319.3	5319.3	5319.3	5319.3	5319.3	5319.3	5319.3	5319.3	5319.3	5319.3
2.5°	5287.6	5326.4	5298.2	5322.9	5319.3	5308.7	5291.1	5280.6	5266.4	5287.6	5252.3
5°	5266.4	5298.2	5330.0	5287.6	5287.6	5266.4	5255.8	5234.7	5234.7	5231.1	5227.5
7.5°	5301.7	5269.9	5255.8	5262.9	5269.9	5224.0	5255.8	5213.4	5178.1	5202.9	5231.1
10°	5269.9	5284.1	5231.1	5255.8	5217.0	5224.0	5202.9	5231.1	5192.3	5192.3	5192.3
12.5°	5301.7	5262.9	5280.6	5262.9	5252.3	5192.3	5220.5	5188.8	5185.2	5220.5	5188.8
15°	5365.3	5301.7	5287.6	5252.3	5262.9	5262.9	5234.7	5238.2	5199.4	5220.5	5227.5
17.5°	5344.1	5308.7	5298.2	5255.8	5291.1	5301.7	5248.8	5213.4	5238.2	5234.7	5231.1
20°	5361.7	5375.8	5365.3	5372.3	5386.4	5358.1	5308.7	5259.3	5227.5	5273.4	5269.9
22.5°	5474.7	5460.6	5453.5	5446.4	5471.1	5499.4	5432.3	5354.6	5354.6	5386.4	5400.5
25°	5566.4	5562.9	5559.4	5591.2	5675.9	5675.9	5591.2	5492.3	5467.6	5488.8	5471.1
27.5°	5700.6	5739.4	5725.3	5781.8	5905.3	5933.5	5820.6	5704.1	5637.1	5612.3	5644.1
30°	6007.6	5961.8	5972.3	6032.4	6141.8	6233.5	6060.6	5937.0	5845.3	5841.7	5855.9
32.5°	6212.4	6247.7	6279.4	6336.0	6508.8	6579.5	6371.2	6170.0	6113.5	6081.8	6092.4
35°	6621.8	6590.0	6583.0	6639.4	6812.4	6928.9	6667.7	6491.2	6417.1	6487.7	6487.7
37.5°	7010.1	6921.9	6854.8	6928.9	7087.8	7101.9	6879.5	6784.2	6745.4	6826.6	6823.1
40°	7193.7	7186.6	7031.3	7073.6	7285.4	7306.6	7098.4	6985.4	6978.3	7084.2	7190.1
42.5°	7384.2	7317.2	7161.9	7190.1	7320.7	7327.8	7130.1	7098.4	7176.0	7278.4	7285.4
45°	7416.0	7359.6	7260.7	7190.1	7285.4	7306.6	7190.1	7211.3	7218.3	7341.9	7341.9
47.5°	7479.5	7472.5	7416.0	7363.1	7380.7	7363.1	7288.9	7320.7	7426.6	7486.7	7458.4
50°	7656.0	7581.9	7638.4	7592.5	7596.0	7645.4	7578.4	7610.1	7589.0	7536.1	7500.7
52.5°	8044.3	8009.0	8058.5	8090.2	8125.5	8238.5	8160.8	7991.4	7832.5	7691.3	7687.8
55°	8612.6	8637.4	8732.6	8895.0	9032.7	9212.7	8838.5	8432.6	8178.4	7956.1	7970.2
57.5°	9149.1	9131.5	9262.1	9632.7	10035.1	10126.9	9392.7	8813.8	8400.8	8259.6	8199.7
59°	8718.5	8803.2	9099.7	9512.7	10144.5	10278.7	9318.6	8503.2	8065.5	7779.6	7829.0
60°	8040.8	8072.6	8337.3	8912.7	9766.8	9996.2	8820.9	8023.2	7440.8	7274.9	7348.9
62.5°	5682.9	5658.2	5848.8	6318.3	7084.2	7394.8	6558.3	5997.1	5630.0	5446.4	5488.8
65°	3021.4	3134.4	3212.1	3505.0	3911.0	4239.2	3893.3	3649.8	3445.0	3293.3	3289.8
67.5°	2040.2	2026.1	2043.7	2110.8	2248.5	2340.2	2333.2	2209.6	2192.0	2163.7	2195.5
70°	1719.0	1712.0	1680.2	1680.2	1708.4	1729.6	1754.3	1768.4	1796.7	1831.9	1828.4
72.5°	1394.3	1376.6	1355.5	1344.8	1380.1	1390.8	1422.5	1436.6	1461.3	1457.8	1489.6
75°	921.3	921.3	945.9	974.2	984.8	1006.0	1009.5	1051.9	1051.9	1058.9	1030.7
77.5°	515.4	501.2	518.9	547.1	571.8	610.7	649.5	681.2	698.9	691.9	691.9
80°	300.0	300.0	317.7	349.5	381.2	416.5	444.7	469.5	487.1	480.1	466.0
82.5°	187.1	187.1	204.8	236.5	261.2	282.3	321.2	353.0	374.1	367.1	349.5
85°	95.3	95.3	116.5	137.7	169.4	183.5	180.0	165.9	162.4	144.7	144.7
87.5°	24.7	24.7	35.3	38.8	31.8	35.3	35.3	35.3	35.3	35.3	38.8
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)