

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: P648633

Luminaire Tested: **GALN-SA9B-835-U-5NQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648633  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9B-835-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 42152.8 lumens  
Efficiency: N/A  
Efficacy: 115.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

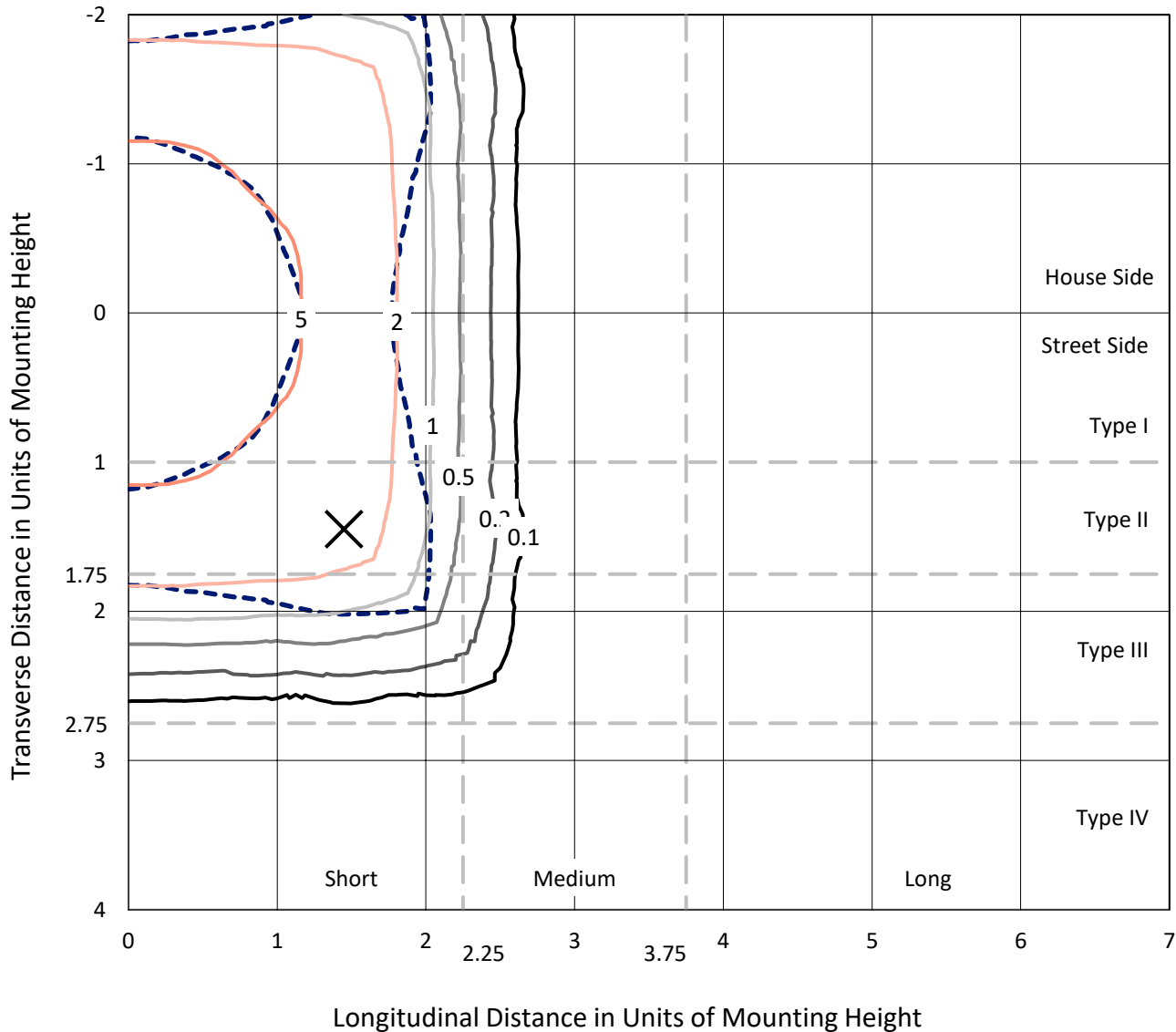
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

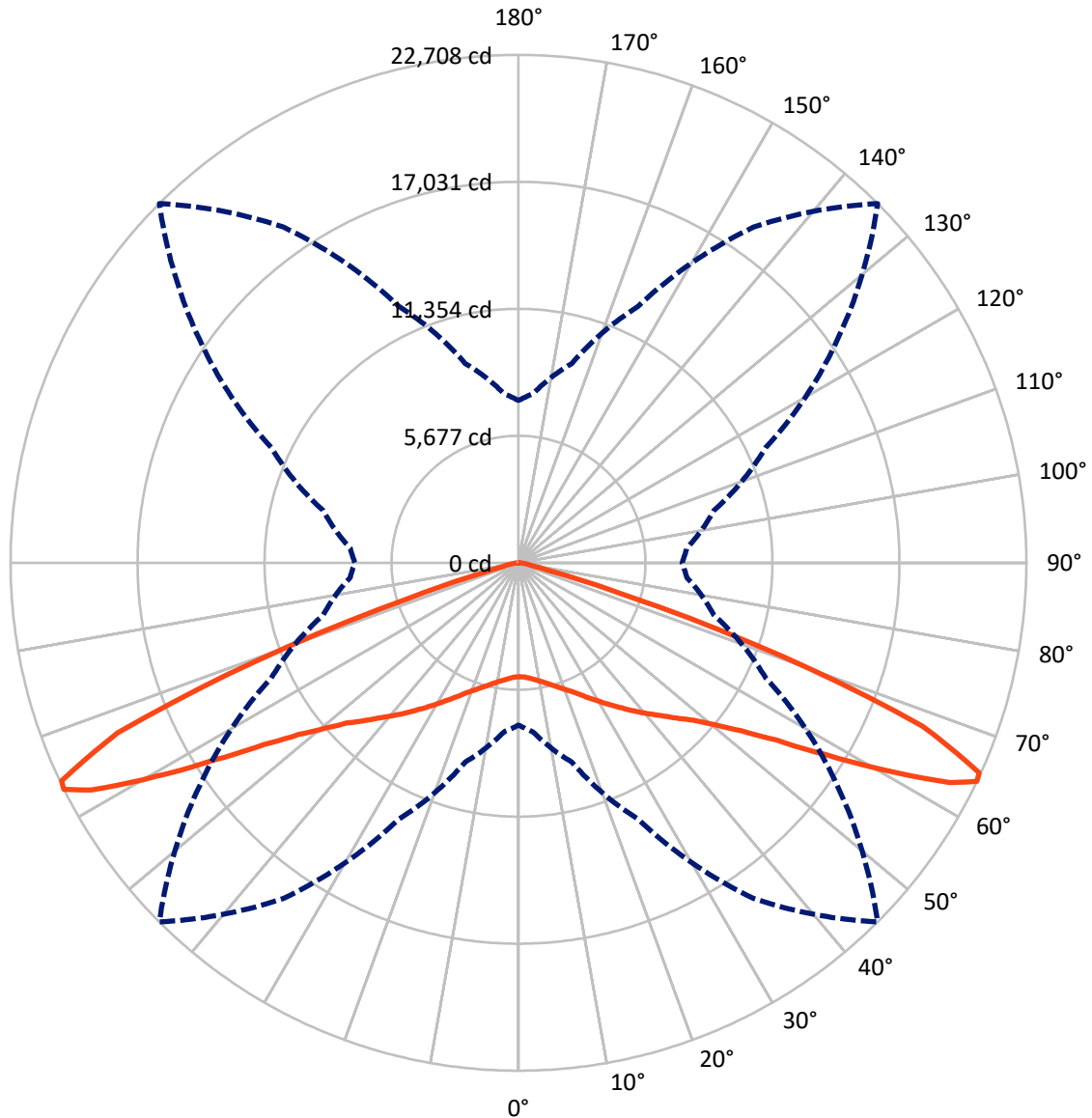
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	21076.4	0.0	21076.4
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	21076.4	0.0	21076.4
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	42152.8	0.0	42152.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	500.5	1.2
10°-20°	1614.5	3.8
20°-30°	3051.0	7.2
30°-40°	5052.9	12.0
40°-50°	7888.3	18.7
50°-60°	12195.2	28.9
60°-70°	10515.8	24.9
70°-80°	1191.7	2.8
80°-90°	142.8	0.3
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°	42152.8	100.0
0°-180°	42152.8	100.0

**Coefficient of Utilization**



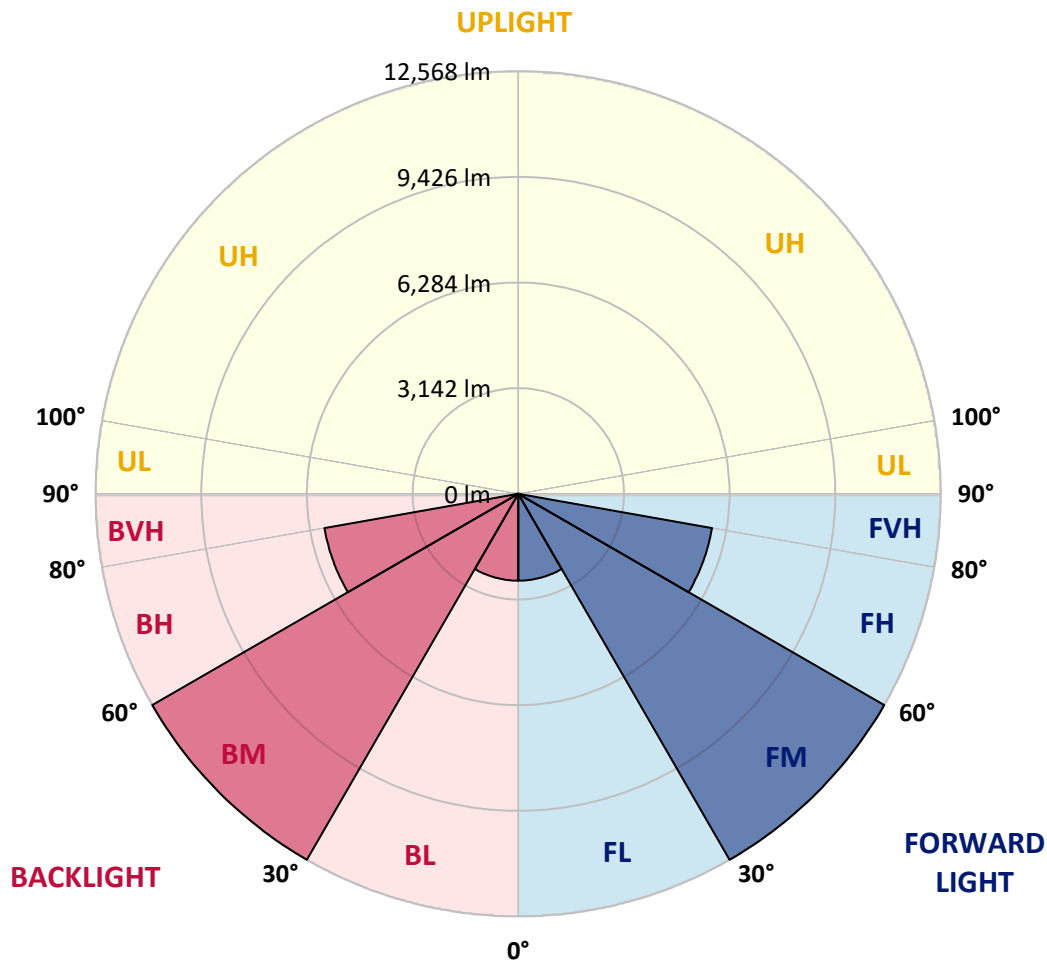
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2583.1	6.1			
FM (30°-60°)	12568.2	29.8			
FH (60°-80°)	5853.7	13.9			G3/7500
FVH (80°-90°)	71.4	0.2			G1/100
BL (0°-30°)	2583.1	6.1	B4/5000		
BM (30°-60°)	12568.2	29.8	B5		
BH (60°-80°)	5853.7	13.9	B5		G3/7500
BVH (80°-90°)	71.4	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-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5094.9	5094.9	5094.9	5094.9	5094.9	5094.9	5094.9	5094.9	5094.9	5094.9	5094.9
2.5°	5114.9	5126.1	5117.2	5114.9	5112.8	5112.8	5112.8	5114.9	5123.9	5130.6	5126.1
5°	5179.7	5188.6	5184.2	5182.0	5179.7	5182.0	5177.5	5175.2	5182.0	5182.0	5179.7
7.5°	5260.1	5271.2	5266.8	5271.2	5273.5	5275.7	5264.6	5255.7	5253.4	5260.1	5255.7
10°	5369.5	5378.4	5380.6	5382.9	5387.4	5385.1	5371.7	5356.1	5353.8	5351.6	5349.4
12.5°	5492.3	5499.0	5501.2	5510.1	5516.9	5519.1	5503.5	5490.1	5467.7	5472.2	5463.2
15°	5630.7	5644.1	5641.9	5655.3	5673.1	5677.6	5662.0	5639.6	5619.5	5608.4	5601.7
17.5°	5800.4	5809.3	5804.8	5818.2	5840.6	5851.8	5838.4	5809.3	5789.2	5764.7	5751.3
20°	6001.3	6017.0	6021.4	6021.4	6041.5	6052.7	6032.5	6023.6	5992.4	5974.5	5963.4
22.5°	6229.1	6235.7	6249.1	6262.5	6282.6	6278.2	6271.4	6258.0	6229.1	6213.4	6195.6
25°	6485.8	6492.5	6526.0	6555.0	6561.7	6557.2	6548.3	6541.7	6514.8	6479.1	6465.7
27.5°	6785.0	6798.4	6843.0	6869.8	6869.8	6872.1	6854.2	6876.5	6818.4	6776.1	6771.6
30°	7160.1	7169.0	7207.0	7233.7	7220.4	7209.2	7204.7	7227.0	7164.5	7088.7	7070.7
32.5°	7530.7	7561.9	7595.4	7653.5	7606.6	7586.5	7582.0	7597.7	7526.2	7441.4	7416.8
35°	7928.1	7950.4	8012.9	8062.1	8019.6	7972.7	7992.9	8042.0	7957.1	7843.2	7838.8
37.5°	8367.9	8388.0	8468.4	8519.7	8488.5	8408.1	8441.6	8499.6	8414.8	8274.1	8245.1
40°	8825.6	8868.0	8968.5	9022.1	8970.8	8863.6	8926.0	8988.6	8912.7	8749.7	8685.0
42.5°	9339.2	9406.1	9551.2	9578.0	9479.8	9334.6	9444.1	9544.5	9490.9	9303.4	9278.9
45°	9939.7	9979.9	10158.5	10216.5	10080.3	9899.5	10035.7	10218.8	10178.6	9962.0	9915.1
47.5°	10611.7	10649.7	10835.0	10922.1	10750.1	10506.8	10752.4	10991.3	10966.7	10734.5	10712.2
50°	11406.5	11415.4	11672.3	11770.4	11598.6	11388.7	11607.5	11904.4	11806.2	11509.2	11504.8
52.5°	12277.3	12288.4	12612.2	12802.0	12705.9	12469.3	12728.3	12909.1	12659.1	12270.5	12241.6
55°	13031.9	13087.7	13529.8	14034.3	14166.1	13994.2	14072.3	13987.4	13371.3	12826.5	12741.7
57.5°	13340.0	13449.4	14121.4	15063.6	15920.9	16175.4	15572.6	14764.4	13654.8	12884.6	12802.0
60°	12587.6	12705.9	13748.5	15536.9	17724.9	18830.1	17135.5	14896.2	13009.5	11926.7	11797.2
62.5°	10080.3	10113.9	11647.7	14422.9	18776.5	21638.7	17794.1	13773.1	11131.9	9660.7	9609.3
64°	7253.9	7597.7	9223.0	12645.7	18316.6	22708.2	17414.5	12199.1	9042.2	7553.0	7311.9
65°	5425.3	5519.1	7434.7	10799.3	17506.1	22627.8	16677.8	10694.3	7488.3	5780.3	5512.4
67.5°	2049.6	2060.7	2743.9	5382.9	12462.5	19468.6	12728.3	5818.2	3154.7	2281.7	2199.1
70°	850.7	866.2	1006.9	1810.7	5356.1	12500.5	6137.5	2098.7	1154.3	935.5	922.1
72.5°	622.9	631.8	674.2	803.7	1647.7	5132.8	2018.3	890.8	676.5	605.0	598.4
75°	489.0	493.4	524.7	591.6	768.0	1422.2	839.5	611.8	515.8	464.4	459.9
77.5°	372.9	384.0	406.4	451.0	515.8	674.2	555.9	457.7	397.4	355.0	348.3
80°	256.7	270.1	312.6	330.4	346.1	437.6	379.5	346.1	310.3	259.0	243.4
82.5°	158.5	167.5	209.8	225.5	218.8	245.6	243.4	247.8	221.0	160.7	149.6
85°	82.6	87.1	113.8	118.3	109.4	100.5	125.0	145.1	136.2	91.5	89.3
87.5°	17.9	20.1	24.6	22.3	24.6	24.6	31.2	46.9	49.1	31.2	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)