

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: P648632

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

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648632  
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-SA9B-835-U-5NQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 3500K, 800mA 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: 36380.5 lumens  
Efficiency: N/A  
Efficacy: 99.9 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

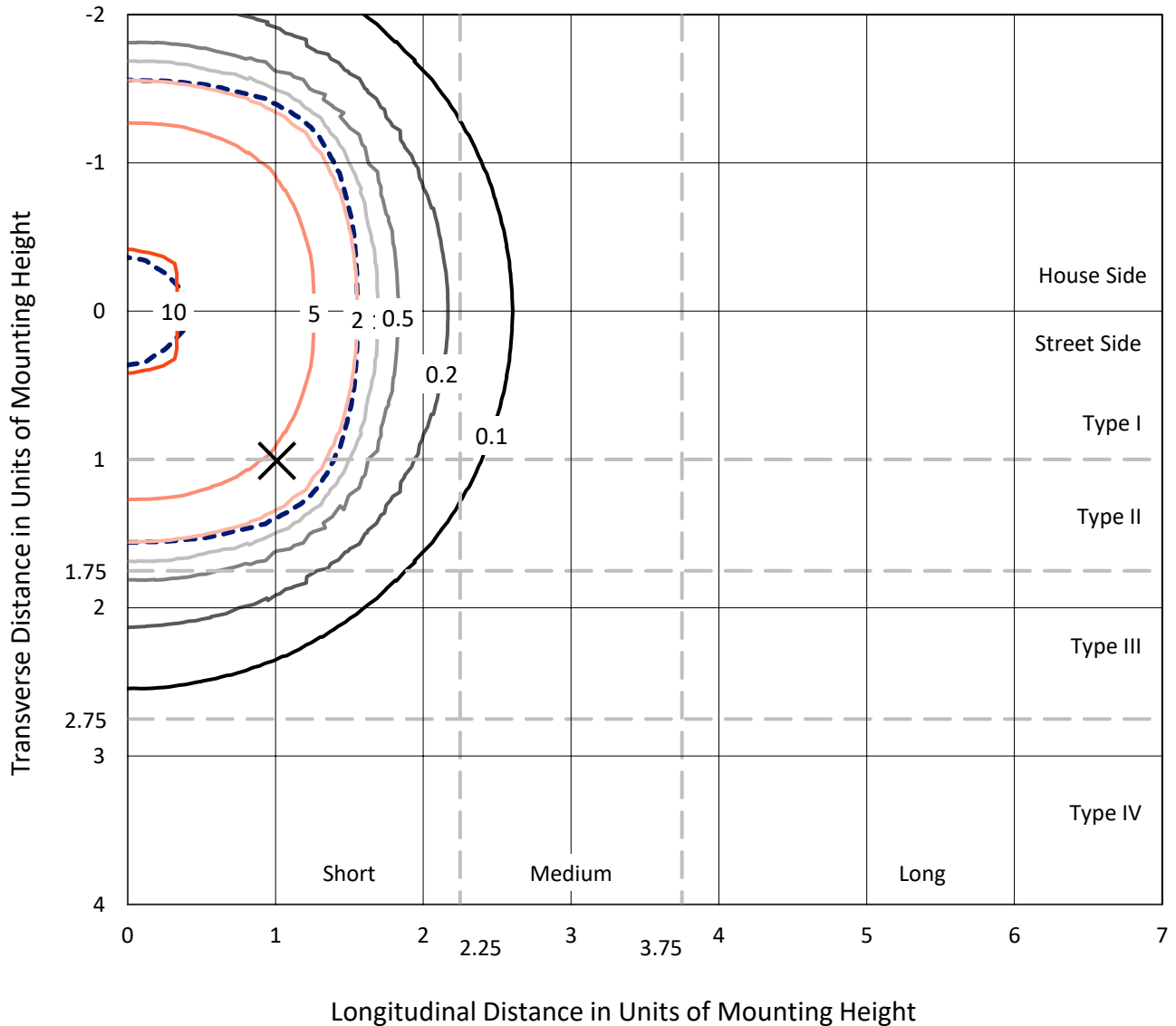
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

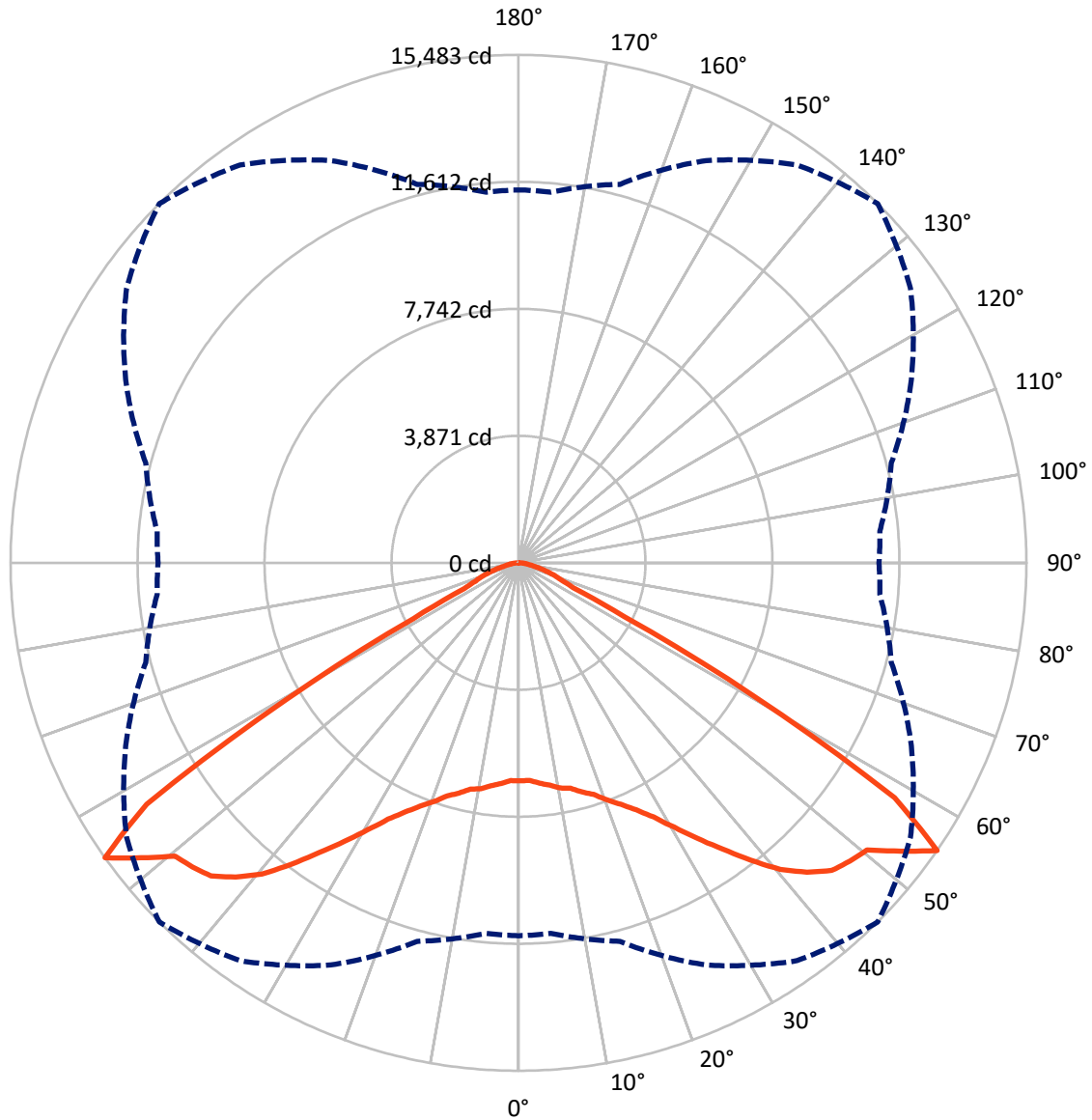
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 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	18190.3	0.0	18190.3
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	18190.3	0.0	18190.3
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	36380.5	0.0	36380.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	648.9	1.8
10°-20°	2056.1	5.7
20°-30°	3834.0	10.5
30°-40°	6419.3	17.6
40°-50°	9988.9	27.5
50°-60°	10371.6	28.5
60°-70°	2199.5	6.0
70°-80°	724.4	2.0
80°-90°	138.0	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°	36380.5	100.0
0°-180°	36380.5	100.0

**Coefficient of Utilization**



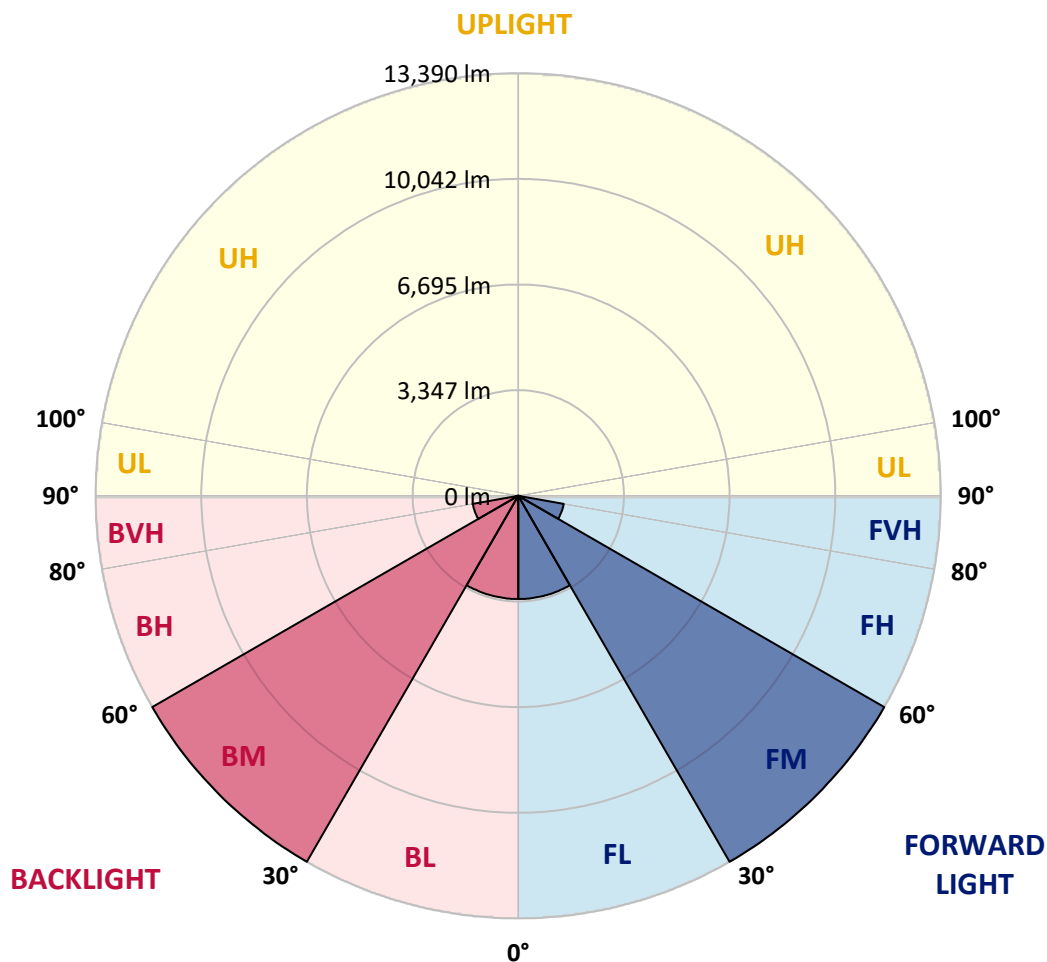
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3269.5	9.0			
FM (30°-60°)	13389.9	36.8			
FH (60°-80°)	1461.9	4.0			G1/1800
FVH (80°-90°)	69.0	0.2			G1/100
BL (0°-30°)	3269.5	9.0	B4/5000		
BM (30°-60°)	13389.9	36.8	B5		
BH (60°-80°)	1461.9	4.0	B3/2500		G1/1800
BVH (80°-90°)	69.0	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°	6642.6	6642.6	6642.6	6642.6	6642.6	6642.6	6642.6	6642.6	6642.6	6642.6	6642.6
2.5°	6721.7	6690.9	6638.1	6677.7	6708.5	6642.6	6668.9	6682.1	6673.4	6638.1	6651.4
5°	6818.4	6800.8	6756.8	6787.6	6748.1	6748.1	6721.7	6686.5	6739.3	6730.4	6752.4
7.5°	6818.4	6796.4	6884.3	6827.2	6844.8	6844.8	6800.8	6765.7	6792.0	6752.4	6730.4
10°	6954.7	6985.5	6945.8	6959.1	6950.3	6981.1	6915.1	6893.1	6871.1	6858.0	6831.6
12.5°	7117.3	7095.3	7108.5	7099.8	7130.5	7051.4	7011.8	6963.5	7003.0	6945.8	6985.5
15°	7249.2	7236.0	7249.2	7284.4	7253.6	7249.2	7178.9	7130.5	7069.0	7082.2	7020.6
17.5°	7429.4	7416.3	7420.6	7451.4	7447.0	7425.0	7372.3	7279.9	7258.0	7222.9	7183.2
20°	7697.6	7675.6	7666.8	7680.1	7702.0	7719.6	7614.0	7578.9	7504.2	7447.0	7381.1
22.5°	7926.2	7917.4	7952.6	7895.5	7943.8	7996.5	7895.5	7877.8	7693.2	7662.4	7592.1
25°	8242.7	8229.6	8207.6	8291.1	8348.3	8343.8	8247.1	8150.4	8009.7	7974.5	7974.5
27.5°	8576.8	8502.1	8616.4	8638.4	8739.5	8770.2	8686.8	8546.1	8414.2	8339.4	8357.0
30°	8994.5	8924.2	8950.5	9108.8	9240.7	9355.0	9144.0	8937.3	8752.7	8620.8	8598.8
32.5°	9412.1	9341.7	9420.9	9574.8	9838.6	10010.0	9803.3	9442.9	9227.5	9034.0	9073.6
35°	9750.6	9803.3	9930.9	10163.8	10436.4	10713.3	10383.7	10106.7	9798.9	9583.5	9614.3
37.5°	10295.7	10458.4	10559.5	10827.6	11214.5	11500.2	11157.4	10796.9	10467.1	10185.8	10089.1
40°	11007.9	11117.8	11232.1	11548.6	12005.8	12291.5	11966.3	11495.8	11170.5	10880.4	10867.2
42.5°	11790.4	11895.9	12014.6	12401.5	12674.0	12889.4	12590.5	12339.9	11979.4	11750.9	11737.6
45°	12700.4	12625.6	12757.6	13012.5	13241.2	13381.8	13188.4	13065.3	12805.9	12594.9	12572.9
47.5°	13307.1	13241.2	13478.5	13707.1	13742.3	13588.4	13628.0	13742.3	13469.7	13122.5	13232.3
50°	13658.7	13658.7	13817.1	14028.0	13962.1	13764.3	14076.4	14085.2	13812.6	13504.9	13504.9
52.5°	13047.7	13184.0	13632.3	14322.6	14542.3	14599.5	14529.2	14230.2	13518.1	12889.4	12858.7
55°	11368.4	11337.6	11944.3	13526.9	14806.1	15483.1	14586.4	13210.4	11764.0	11056.3	10985.9
57.5°	7394.3	7429.4	8335.0	9948.4	12256.4	13518.1	12005.8	10071.5	8335.0	7359.1	7451.4
60°	3327.8	3446.5	3996.0	5200.6	7183.2	8211.9	7200.9	5464.4	4193.9	3640.0	3688.3
62.5°	1912.3	1934.3	1956.2	2321.1	3059.7	3618.0	3178.4	2453.1	2162.9	2066.2	2066.2
65°	1613.4	1600.2	1604.6	1635.4	1714.5	1828.8	1780.5	1714.5	1723.3	1714.5	1701.3
67.5°	1371.6	1389.2	1376.0	1398.0	1402.4	1420.0	1450.7	1477.1	1481.5	1490.3	1481.5
70°	1125.4	1129.8	1138.6	1156.2	1160.6	1173.8	1217.7	1239.7	1252.9	1252.9	1270.5
72.5°	861.6	857.2	866.0	883.6	905.6	910.0	949.5	980.3	997.9	975.9	980.3
75°	567.1	571.5	584.7	597.9	628.7	659.4	672.6	703.4	707.8	716.6	694.6
77.5°	338.5	347.3	360.5	386.9	413.3	439.6	470.3	492.4	501.1	492.4	466.0
80°	219.8	219.8	237.4	259.4	290.2	312.1	329.7	347.3	360.5	347.3	338.5
82.5°	136.2	136.2	158.2	184.6	206.6	219.8	246.2	268.2	281.3	272.6	259.4
85°	70.3	74.7	92.3	114.3	131.9	140.7	136.2	123.1	109.9	105.5	96.7
87.5°	22.0	22.0	26.4	26.4	22.0	22.0	26.4	22.0	26.4	26.4	26.4
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)