

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: P652589

Luminaire Tested: **GALN-SA9B-840-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652589
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-840-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38292.4 lumens
Efficiency: N/A
Efficacy: 105.2 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

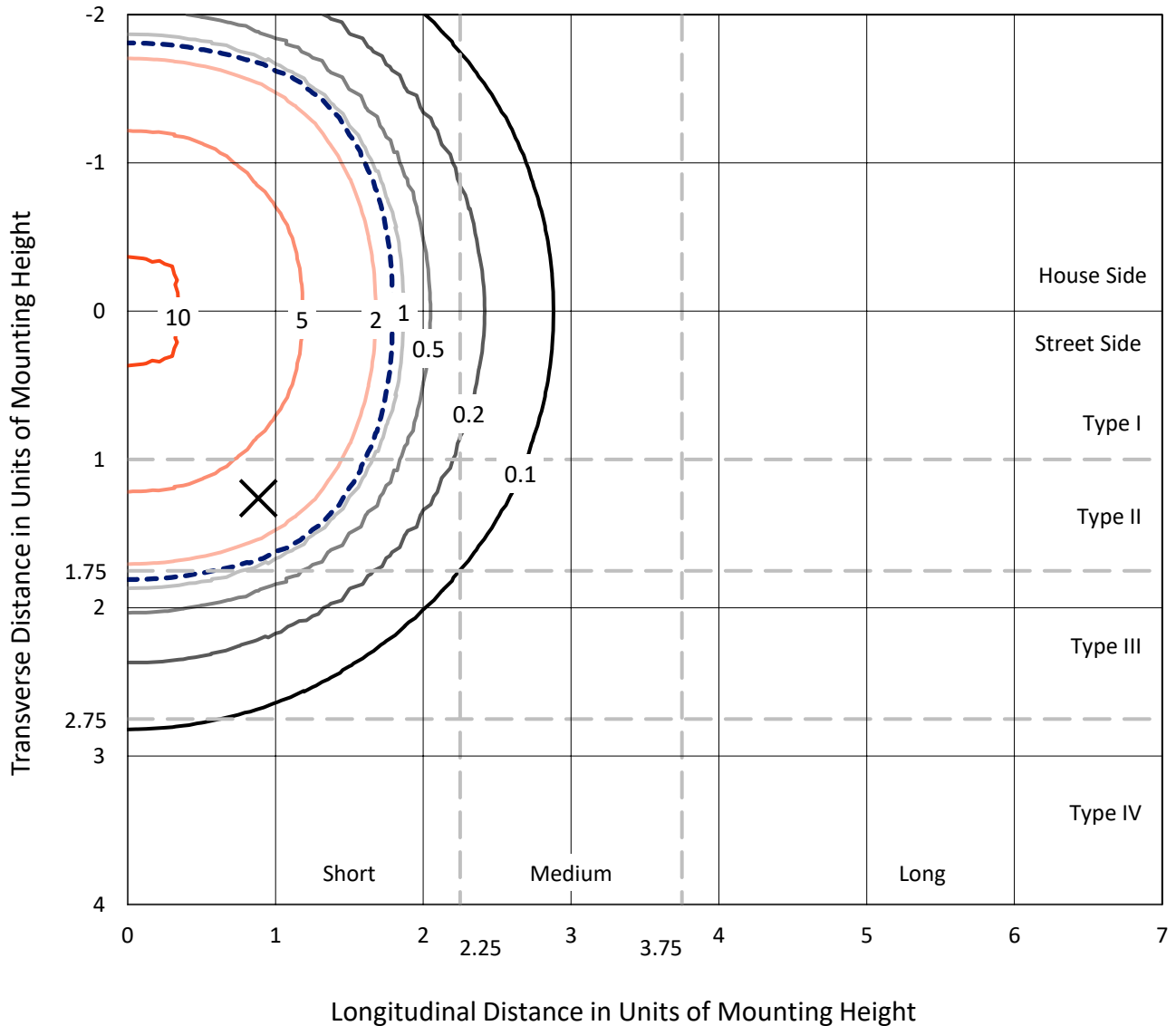
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

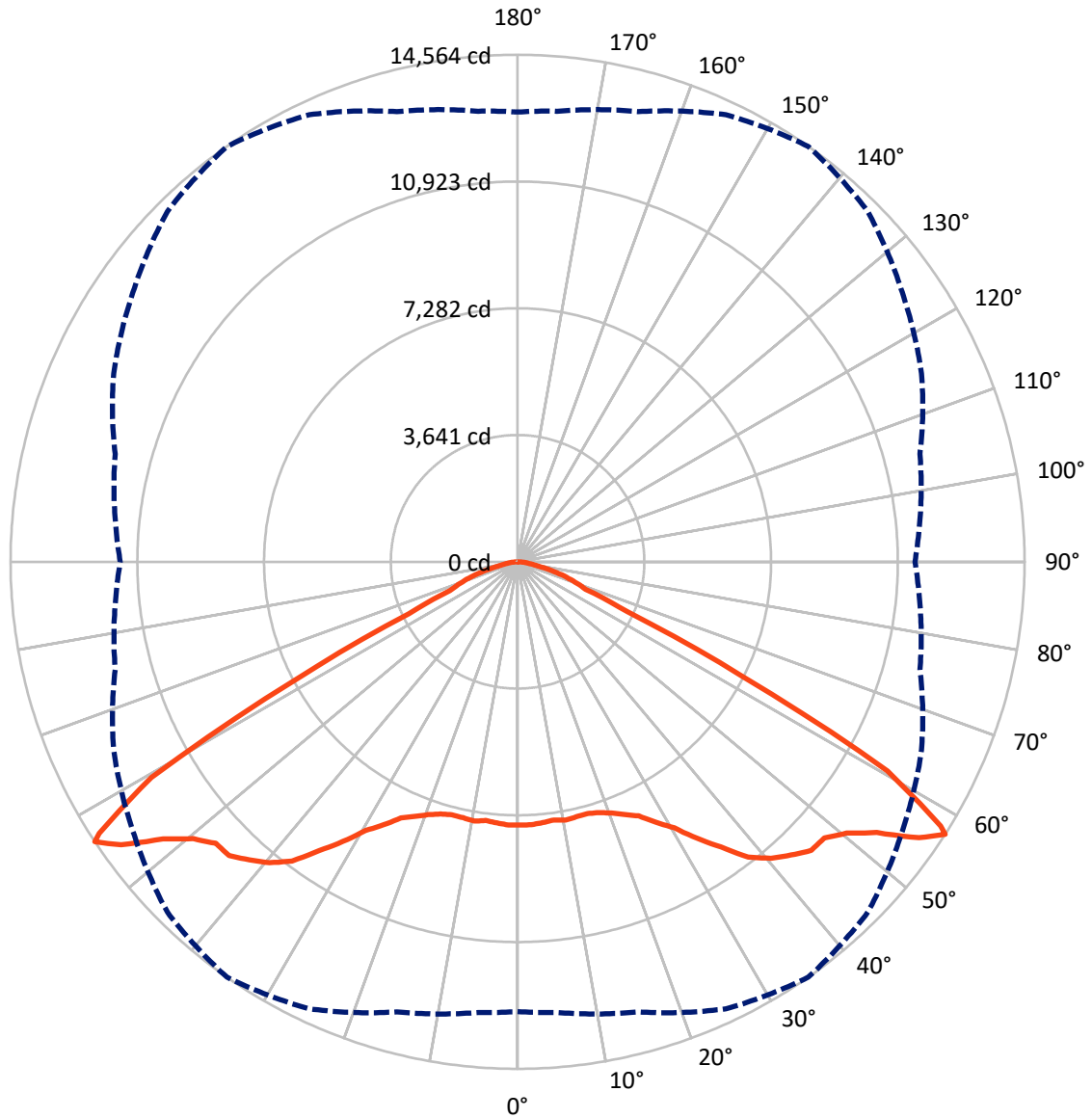
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19146.2	0.0	19146.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19146.2	0.0	19146.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	38292.4	0.0	38292.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	716.9	1.9
10°-20°	2123.4	5.5
20°-30°	3708.5	9.7
30°-40°	6076.5	15.9
40°-50°	8909.6	23.3
50°-60°	11222.3	29.3
60°-70°	4220.6	11.0
70°-80°	1122.2	2.9
80°-90°	192.4	0.5
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°	38292.4	100.0
0°-180°	38292.4	100.0

Coefficient of Utilization



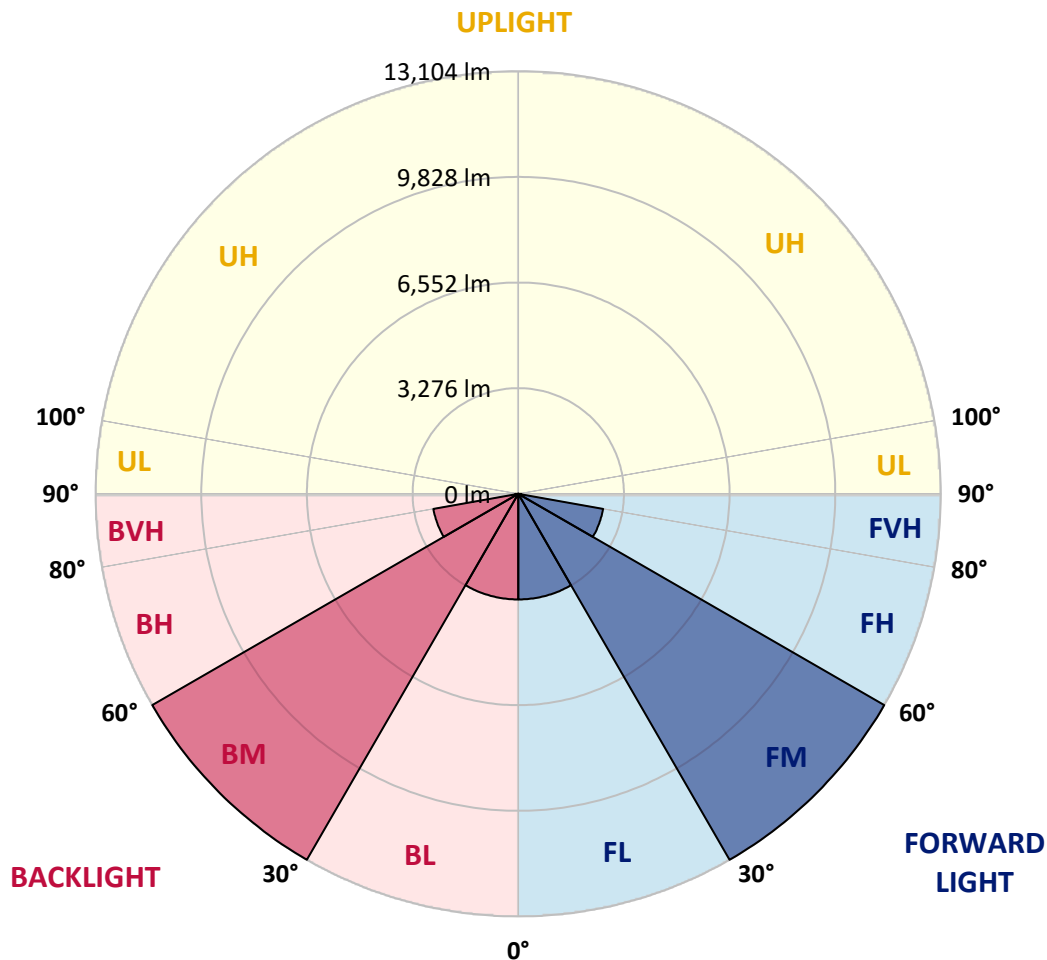
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3274.4	8.6			
FM (30°-60°)	13104.2	34.2			
FH (60°-80°)	2671.4	7.0			G2/5000
FVH (80°-90°)	96.2	0.3			G1/100
BL (0°-30°)	3274.4	8.6	B4/5000		
BM (30°-60°)	13104.2	34.2	B5		
BH (60°-80°)	2671.4	7.0	B4/5000		G2/5000
BVH (80°-90°)	96.2	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°	7562.4	7562.4	7562.4	7562.4	7562.4	7562.4	7562.4	7562.4	7562.4	7562.4	7562.4
2.5°	7524.8	7600.2	7567.1	7548.3	7562.4	7538.9	7501.1	7543.6	7534.2	7496.4	7482.3
5°	7505.8	7562.4	7524.8	7562.4	7524.8	7590.8	7571.9	7501.1	7586.1	7505.8	7534.2
7.5°	7491.7	7510.6	7520.0	7501.1	7487.0	7567.1	7524.8	7491.7	7444.5	7430.4	7454.0
10°	7458.7	7505.8	7435.1	7529.5	7548.3	7491.7	7491.7	7430.4	7392.6	7369.0	7449.2
12.5°	7543.6	7463.4	7454.0	7501.1	7515.3	7538.9	7472.9	7439.8	7369.0	7378.5	7364.3
15°	7444.5	7477.6	7482.3	7491.7	7505.8	7562.4	7501.1	7430.4	7402.1	7303.0	7312.4
17.5°	7482.3	7449.2	7482.3	7590.8	7571.9	7614.3	7548.3	7439.8	7373.7	7317.1	7392.6
20°	7548.3	7534.2	7548.3	7680.4	7704.0	7741.7	7685.1	7586.1	7458.7	7392.6	7430.4
22.5°	7619.1	7609.6	7619.1	7746.5	7883.3	7930.5	7873.9	7642.7	7576.7	7454.0	7411.5
25°	7746.5	7755.9	7854.9	7996.5	8086.1	8175.8	8072.0	7906.8	7694.6	7619.1	7529.5
27.5°	8029.5	8053.1	8109.8	8317.3	8473.0	8553.2	8407.0	8180.5	8048.4	7892.7	7869.2
30°	8378.6	8378.6	8477.7	8657.0	8869.3	8992.0	8812.7	8543.7	8383.3	8298.4	8246.5
32.5°	8840.9	8789.0	8826.8	9142.9	9473.1	9576.9	9336.4	9006.1	8751.4	8638.1	8600.4
35°	9237.3	9270.3	9355.2	9694.9	10062.8	10303.4	9926.1	9496.7	9237.3	9133.4	9114.6
37.5°	9751.5	9808.1	9850.5	10317.6	10761.1	10850.7	10487.4	10143.0	9827.0	9742.1	9694.9
40°	10478.0	10440.3	10454.4	10798.8	11199.8	11256.4	10897.8	10652.5	10393.1	10341.2	10341.2
42.5°	11077.1	11034.7	11081.9	11209.3	11515.9	11473.4	11275.3	11096.0	10987.5	10930.9	10987.5
45°	11440.4	11431.0	11515.9	11610.3	11827.2	11685.7	11530.0	11558.4	11454.6	11360.2	11355.5
47.5°	11836.7	11775.3	11879.1	12020.7	11855.6	11789.6	11780.1	11841.4	11808.4	11643.3	11591.4
50°	12030.2	12006.5	12171.6	12336.8	12247.1	12096.2	12129.2	12228.3	11803.7	11581.9	11454.6
52.5°	12549.1	12553.8	12869.9	12959.5	12921.8	12700.0	12770.8	12501.9	12001.8	11690.5	11704.6
55°	13365.3	13332.2	13686.0	13950.3	13992.7	13709.6	13370.0	12992.5	12365.1	12049.0	11954.6
57°	12917.1	12992.5	13384.1	14167.2	14563.5	14228.5	13487.9	12799.1	11964.1	11581.9	11412.1
57.5°	12317.9	12440.6	13119.9	13907.8	14322.9	14294.6	13341.6	12440.6	11695.2	11100.8	11114.9
60°	9024.9	9048.6	9661.8	10912.1	12209.4	12237.7	11077.1	9883.6	9053.3	8407.0	8496.5
62.5°	4760.1	4868.6	5114.0	6118.9	7241.7	7515.3	6812.4	6199.1	5482.0	4991.3	5038.5
65°	2519.2	2505.1	2623.1	2906.1	3458.1	3599.6	3505.3	3019.4	2769.3	2689.1	2693.8
67.5°	2047.5	2071.0	2056.9	2071.0	2108.8	2170.1	2156.0	2174.8	2189.0	2212.6	2207.9
70°	1736.1	1736.1	1745.6	1750.3	1750.3	1778.5	1811.6	1872.9	1877.6	1901.2	1910.7
72.5°	1368.1	1358.7	1372.8	1405.9	1410.6	1434.2	1481.3	1519.1	1533.2	1533.2	1505.0
75°	929.4	938.8	957.7	986.0	1014.3	1056.8	1094.5	1118.1	1127.5	1113.4	1099.2
77.5°	523.7	533.1	547.2	589.7	622.8	660.4	702.9	726.5	750.1	754.8	726.5
80°	311.3	311.3	335.0	368.0	405.7	443.5	481.2	509.5	519.0	519.0	504.8
82.5°	188.7	193.4	212.3	245.3	278.4	301.9	335.0	358.5	377.4	372.7	363.2
85°	99.1	99.1	117.9	146.2	169.8	193.4	193.4	179.3	169.8	146.2	136.8
87.5°	33.1	28.3	37.8	37.8	33.1	37.8	37.8	42.5	42.5	42.5	42.5
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)