

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: P533812

Luminaire Tested: **GALN-SA9B-735-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533812
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-735-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 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: 42415 lumens
Efficiency: N/A
Efficacy: 116.5 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

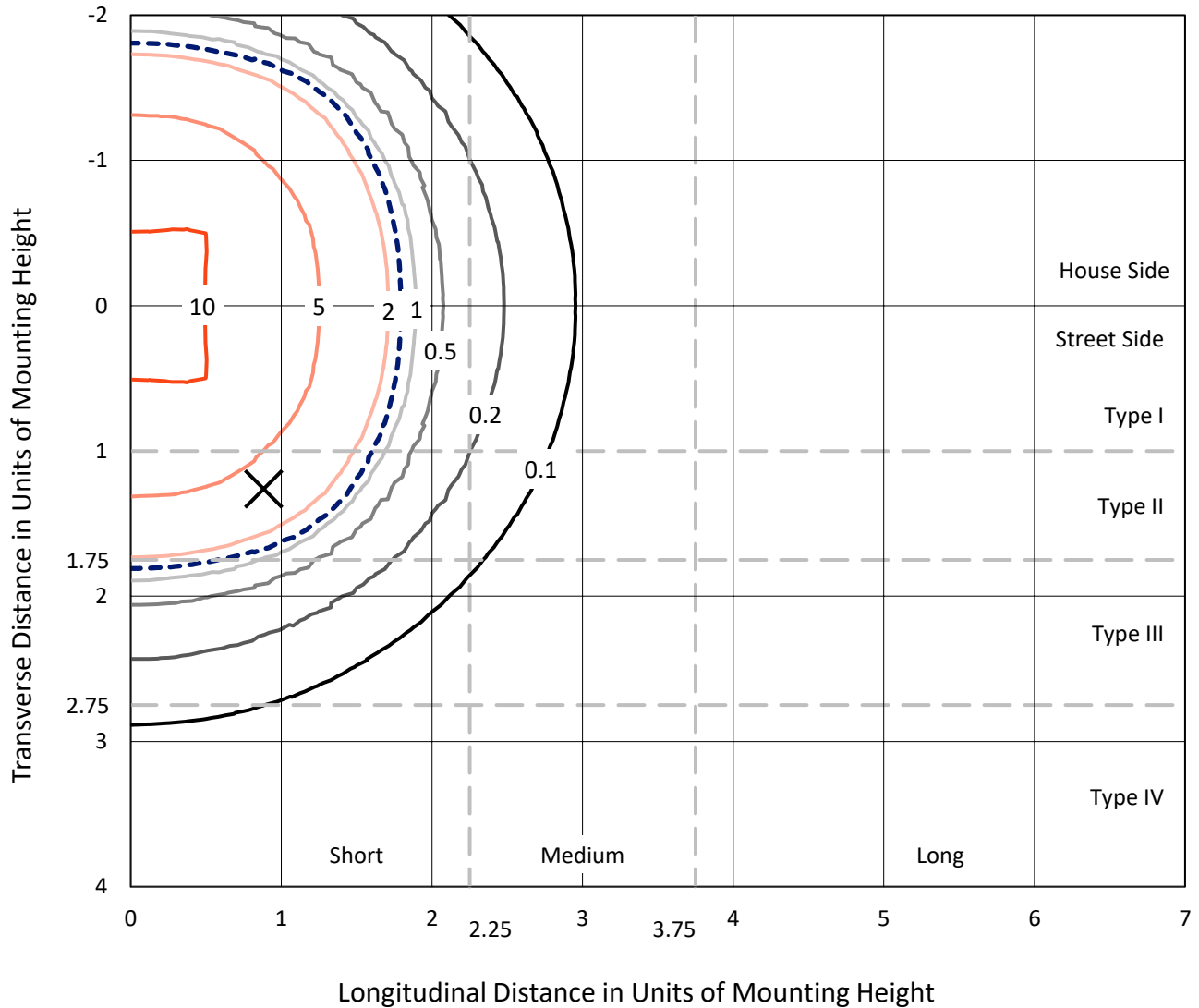
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

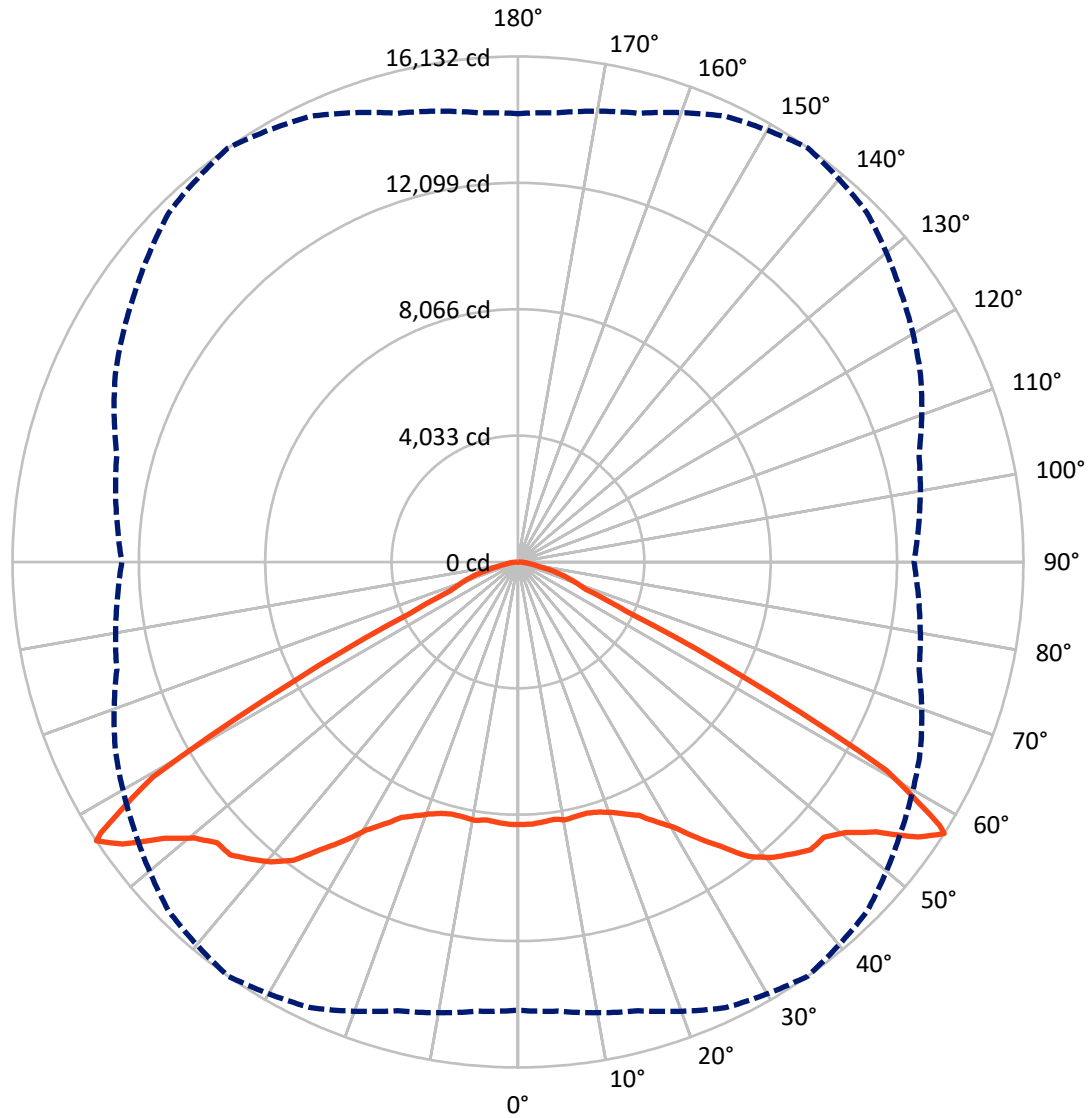
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 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	21207.5	0.0	21207.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21207.5	0.0	21207.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	42415.0	0.0	42415.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	794.1	1.9
10°-20°	2352.0	5.5
20°-30°	4107.7	9.7
30°-40°	6730.7	15.9
40°-50°	9868.8	23.3
50°-60°	12430.5	29.3
60°-70°	4675.0	11.0
70°-80°	1243.0	2.9
80°-90°	213.1	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°	42415.0	100.0
0°-180°	42415.0	100.0

Coefficient of Utilization



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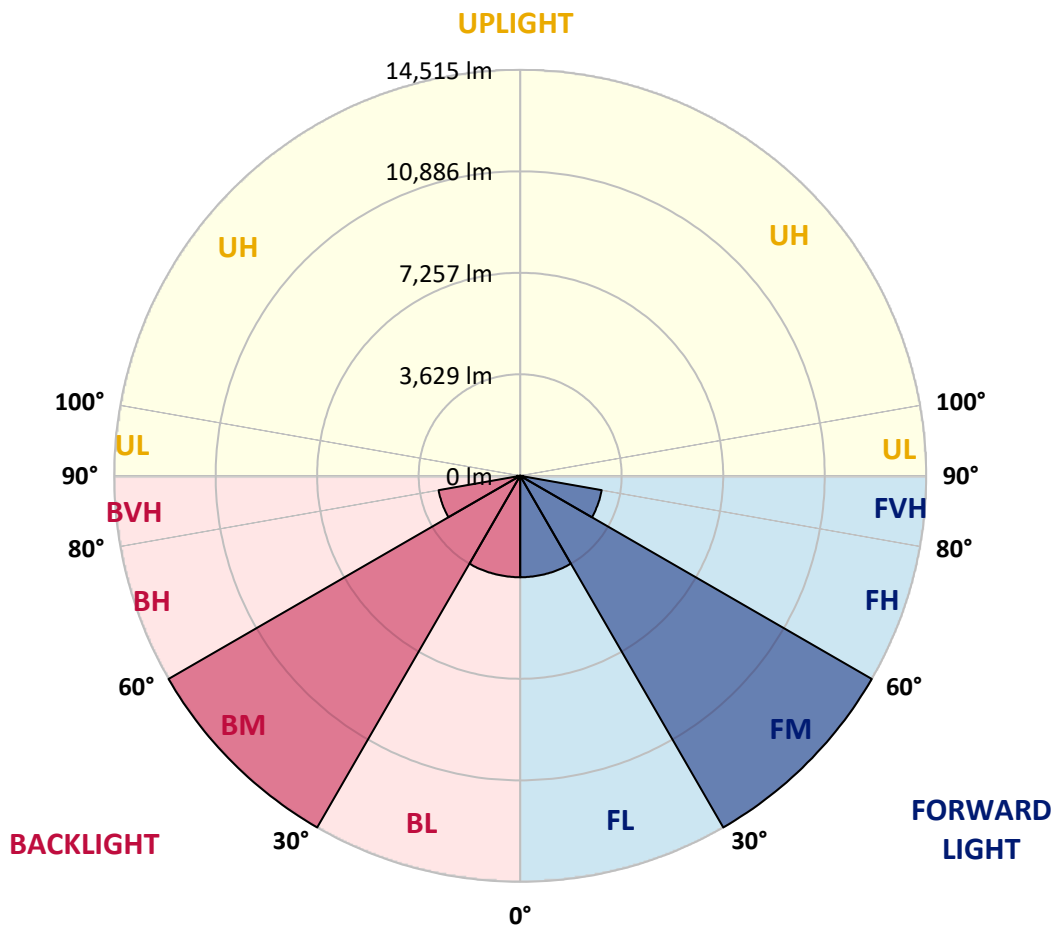
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3626.9	8.6			
FM (30°-60°)	14515.0	34.2			
FH (60°-80°)	2959.0	7.0			G2/5000
FVH (80°-90°)	106.6	0.3			G2/225
BL (0°-30°)	3626.9	8.6	B4/5000		
BM (30°-60°)	14515.0	34.2	B5		
BH (60°-80°)	2959.0	7.0	B4/5000		G2/5000
BVH (80°-90°)	106.6	0.3			G2/225
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°	8376.6	8376.6	8376.6	8376.6	8376.6	8376.6	8376.6	8376.6	8376.6	8376.6	8376.6
2.5°	8334.8	8418.5	8381.9	8361.0	8376.6	8350.5	8308.7	8355.7	8345.3	8303.5	8287.8
5°	8313.9	8376.6	8334.8	8376.6	8334.8	8408.0	8387.1	8308.7	8402.8	8313.9	8345.3
7.5°	8298.3	8319.2	8329.6	8308.7	8293.0	8381.9	8334.8	8298.3	8246.0	8230.3	8256.5
10°	8261.7	8313.9	8235.6	8340.1	8361.0	8298.3	8298.3	8230.3	8188.5	8162.4	8251.2
12.5°	8355.7	8266.9	8256.5	8308.7	8324.4	8350.5	8277.4	8240.8	8162.4	8172.9	8157.2
15°	8246.0	8282.6	8287.8	8298.3	8313.9	8376.6	8308.7	8230.3	8199.0	8089.2	8099.7
17.5°	8287.8	8251.2	8287.8	8408.0	8387.1	8434.1	8361.0	8240.8	8167.6	8104.9	8188.5
20°	8361.0	8345.3	8361.0	8507.3	8533.4	8575.2	8512.5	8402.8	8261.7	8188.5	8230.3
22.5°	8439.4	8428.9	8439.4	8580.4	8732.0	8784.2	8721.5	8465.5	8392.3	8256.5	8209.4
25°	8580.4	8590.9	8700.6	8857.4	8956.7	9056.0	8941.0	8758.1	8523.0	8439.4	8340.1
27.5°	8894.0	8920.1	8982.8	9212.7	9385.2	9474.0	9312.0	9061.2	8914.9	8742.4	8716.3
30°	9280.7	9280.7	9390.4	9589.0	9824.1	9960.0	9761.4	9463.6	9285.9	9191.8	9134.4
32.5°	9792.8	9735.3	9777.1	10127.2	10493.0	10608.0	10341.5	9975.7	9693.5	9568.1	9526.3
35°	10231.7	10268.3	10362.4	10738.6	11146.2	11412.7	10994.7	10519.1	10231.7	10116.8	10095.9
37.5°	10801.3	10864.0	10911.1	11428.4	11919.6	12018.9	11616.5	11235.1	10884.9	10790.9	10738.6
40°	11606.1	11564.3	11579.9	11961.4	12405.6	12468.3	12071.2	11799.4	11512.0	11454.5	11454.5
42.5°	12269.7	12222.7	12275.0	12416.0	12755.7	12708.7	12489.2	12290.6	12170.4	12107.7	12170.4
45°	12672.1	12661.6	12755.7	12860.2	13100.6	12943.8	12771.4	12802.7	12687.8	12583.3	12578.0
47.5°	13111.1	13043.1	13158.1	13314.8	13132.0	13058.8	13048.3	13116.3	13079.7	12896.8	12839.3
50°	13325.3	13299.2	13482.1	13665.0	13565.7	13398.5	13435.0	13544.8	13074.5	12828.9	12687.8
52.5°	13900.1	13905.3	14255.5	14354.7	14312.9	14067.3	14145.7	13847.9	13293.9	12949.1	12964.7
55°	14804.1	14767.6	15159.5	15452.1	15499.2	15185.6	14809.4	14391.3	13696.3	13346.2	13241.7
57°	14307.7	14391.3	14825.1	15692.5	16131.5	15760.4	14940.0	14177.1	13252.1	12828.9	12640.7
57.5°	13644.1	13779.9	14532.4	15405.1	15864.9	15833.6	14778.0	13779.9	12954.3	12295.9	12311.5
60°	9996.6	10022.7	10702.0	12086.8	13523.9	13555.2	12269.7	10947.6	10027.9	9312.0	9411.3
62.5°	5272.6	5392.8	5664.6	6777.6	8021.3	8324.4	7545.8	6866.4	6072.2	5528.7	5580.9
65°	2790.5	2774.8	2905.4	3219.0	3830.4	3987.1	3882.6	3344.4	3067.4	2978.6	2983.8
67.5°	2267.9	2294.0	2278.4	2294.0	2335.8	2403.8	2388.1	2409.0	2424.7	2450.8	2445.6
70°	1923.0	1923.0	1933.5	1938.7	1938.7	1970.1	2006.6	2074.6	2079.8	2105.9	2116.4
72.5°	1515.4	1505.0	1520.7	1557.2	1562.5	1588.6	1640.8	1682.6	1698.3	1698.3	1667.0
75°	1029.4	1039.9	1060.8	1092.2	1123.5	1170.5	1212.3	1238.5	1248.9	1233.2	1217.6
77.5°	580.0	590.5	606.2	653.2	689.8	731.6	778.6	804.7	830.9	836.1	804.7
80°	344.9	344.9	371.0	407.6	449.4	491.2	533.0	564.4	574.8	574.8	559.1
82.5°	209.0	214.2	235.2	271.7	308.3	334.4	371.0	397.1	418.0	412.8	402.4
85°	109.7	109.7	130.6	162.0	188.1	214.2	214.2	198.6	188.1	162.0	151.5
87.5°	36.6	31.4	41.8	41.8	36.6	41.8	41.8	47.0	47.0	47.0	47.0
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)