

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: P530068

Luminaire Tested: **GALN-SA5B-735-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530068
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-SA5B-735-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 23430 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

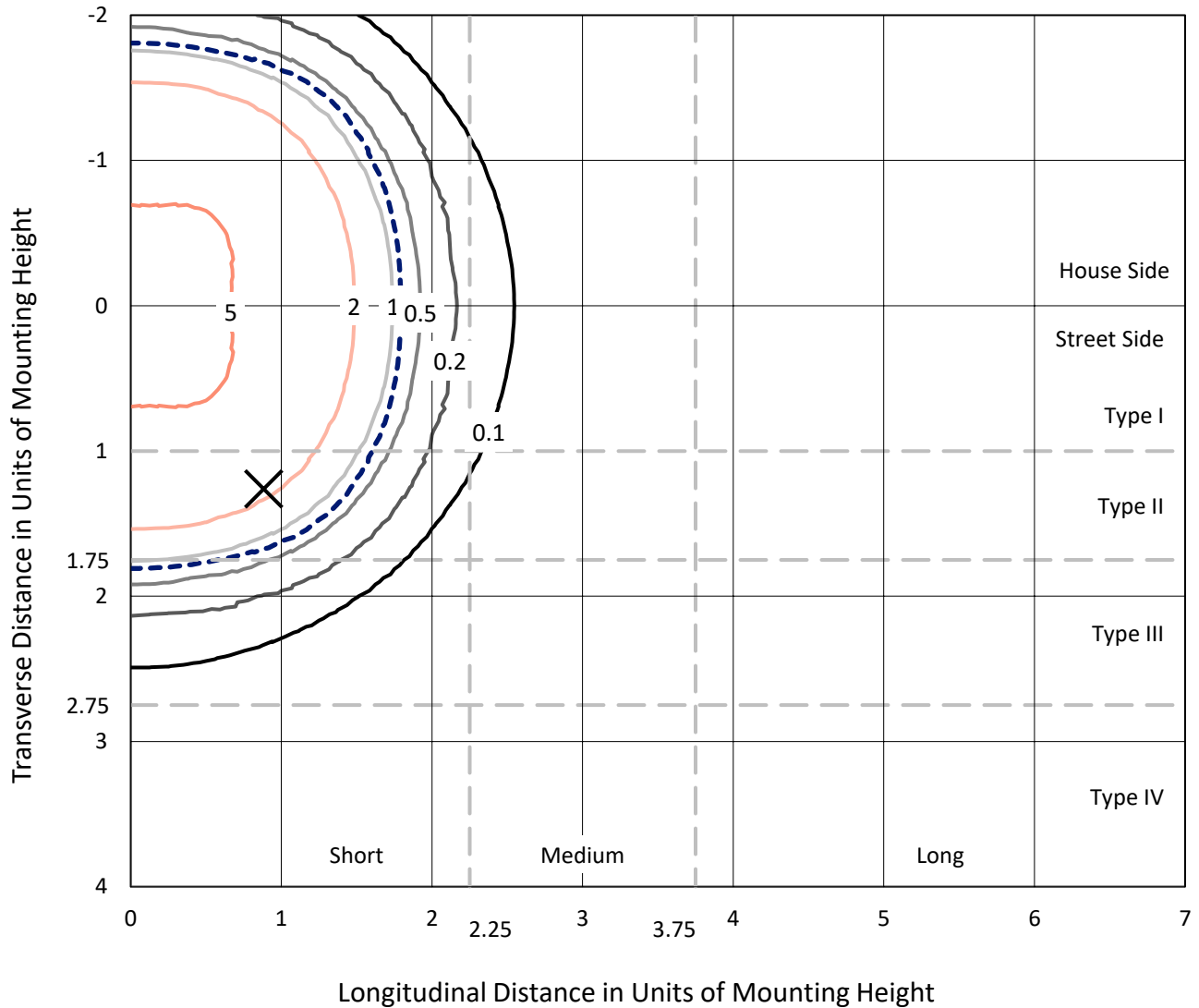
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

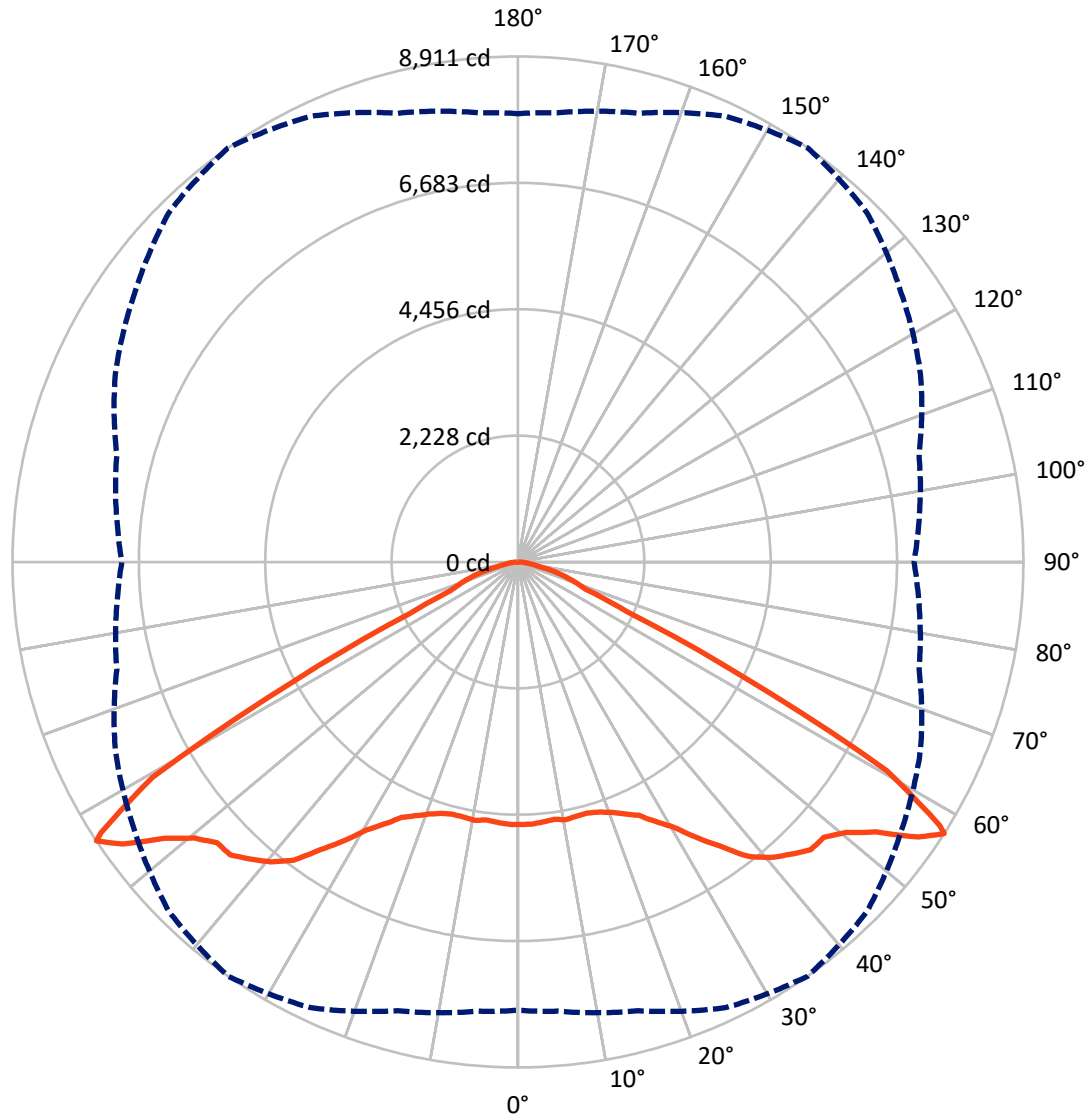
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type V - Short - N/A

REPORT NUMBER: P530068
CATALOG NUMBER: GALN-SA5B-735-U-5MQ-GRSWH

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	11715.0	0.0	11715.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11715.0	0.0	11715.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	23430.0	0.0	23430.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	438.7	1.9
10°-20°	1299.2	5.5
20°-30°	2269.1	9.7
30°-40°	3718.0	15.9
40°-50°	5451.5	23.3
50°-60°	6866.6	29.3
60°-70°	2582.5	11.0
70°-80°	686.7	2.9
80°-90°	117.7	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°	23430.0	100.0
0°-180°	23430.0	100.0

Coefficient of Utilization



REPORT NUMBER: P530068

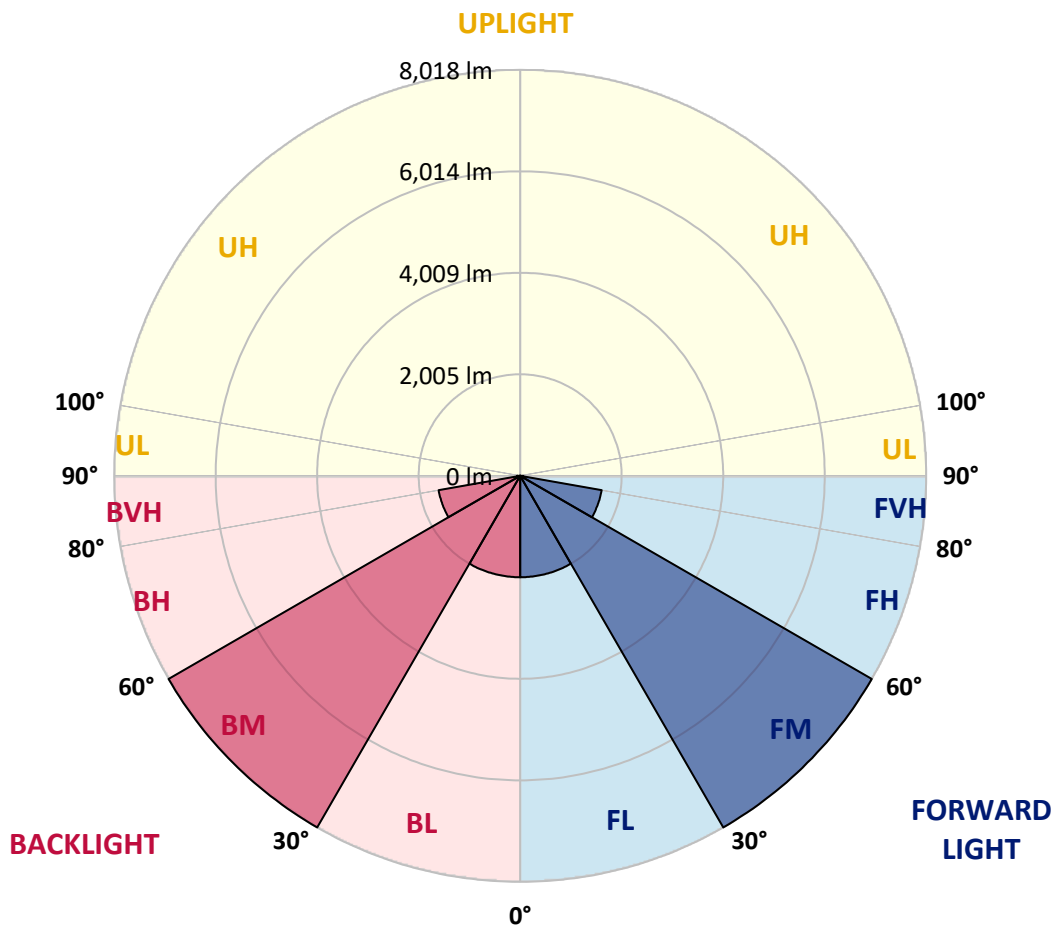
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2003.5	8.6			
FM (30°-60°)	8018.1	34.2			
FH (60°-80°)	1634.6	7.0			G1/1800
FVH (80°-90°)	58.9	0.3			G1/100
BL (0°-30°)	2003.5	8.6	B3/2500		
BM (30°-60°)	8018.1	34.2	B4/8500		
BH (60°-80°)	1634.6	7.0	B3/2500		G1/1800
BVH (80°-90°)	58.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4627.3	4627.3	4627.3	4627.3	4627.3	4627.3	4627.3	4627.3	4627.3	4627.3	4627.3
2.5°	4604.2	4650.3	4630.1	4618.6	4627.3	4612.8	4589.7	4615.7	4609.9	4586.8	4578.2
5°	4592.6	4627.3	4604.2	4627.3	4604.2	4644.6	4633.0	4589.7	4641.7	4592.6	4609.9
7.5°	4584.0	4595.5	4601.3	4589.7	4581.1	4630.1	4604.2	4584.0	4555.1	4546.4	4560.9
10°	4563.7	4592.6	4549.3	4607.0	4618.6	4584.0	4584.0	4546.4	4523.3	4508.9	4558.0
12.5°	4615.7	4566.6	4560.9	4589.7	4598.4	4612.8	4572.4	4552.2	4508.9	4514.7	4506.0
15°	4555.1	4575.3	4578.2	4584.0	4592.6	4627.3	4589.7	4546.4	4529.1	4468.5	4474.3
17.5°	4578.2	4558.0	4578.2	4644.6	4633.0	4659.0	4618.6	4552.2	4511.8	4477.1	4523.3
20°	4618.6	4609.9	4618.6	4699.4	4713.9	4736.9	4702.3	4641.7	4563.7	4523.3	4546.4
22.5°	4661.9	4656.1	4661.9	4739.8	4823.5	4852.4	4817.8	4676.3	4635.9	4560.9	4534.9
25°	4739.8	4745.6	4806.2	4892.8	4947.7	5002.5	4939.0	4838.0	4708.1	4661.9	4607.0
27.5°	4913.0	4927.5	4962.1	5089.1	5184.4	5233.4	5144.0	5005.4	4924.6	4829.3	4814.9
30°	5126.6	5126.6	5187.3	5296.9	5426.8	5501.9	5392.2	5227.7	5129.5	5077.6	5045.8
32.5°	5409.5	5377.8	5400.9	5594.3	5796.3	5859.8	5712.6	5510.6	5354.7	5285.4	5262.3
35°	5652.0	5672.2	5724.2	5932.0	6157.2	6304.4	6073.4	5810.8	5652.0	5588.5	5577.0
37.5°	5966.6	6001.3	6027.3	6313.0	6584.4	6639.2	6417.0	6206.2	6012.8	5960.9	5932.0
40°	6411.2	6388.1	6396.8	6607.5	6852.8	6887.5	6668.1	6518.0	6359.2	6327.5	6327.5
42.5°	6777.8	6751.8	6780.7	6858.6	7046.2	7020.3	6899.0	6789.3	6722.9	6688.3	6722.9
45°	7000.1	6994.3	7046.2	7104.0	7236.8	7150.2	7054.9	7072.2	7008.7	6951.0	6948.1
47.5°	7242.5	7205.0	7268.5	7355.1	7254.1	7213.7	7207.9	7245.4	7225.2	7124.2	7092.4
50°	7360.9	7346.4	7447.5	7548.5	7493.7	7401.3	7421.5	7482.1	7222.3	7086.7	7008.7
52.5°	7678.4	7681.3	7874.7	7929.5	7906.5	7770.8	7814.1	7649.5	7343.6	7153.0	7161.7
55°	8177.8	8157.6	8374.1	8535.7	8561.7	8388.5	8180.7	7949.8	7565.8	7372.4	7314.7
57°	7903.6	7949.8	8189.3	8668.5	8911.0	8706.0	8252.8	7831.4	7320.5	7086.7	6982.7
57.5°	7537.0	7612.0	8027.7	8509.8	8763.8	8746.5	8163.4	7612.0	7155.9	6792.2	6800.9
60°	5522.1	5536.5	5911.8	6676.8	7470.6	7487.9	6777.8	6047.5	5539.4	5144.0	5198.8
62.5°	2912.6	2979.0	3129.1	3743.9	4431.0	4598.4	4168.3	3793.0	3354.3	3054.0	3082.9
65°	1541.5	1532.8	1605.0	1778.2	2115.9	2202.5	2144.8	1847.4	1694.4	1645.4	1648.3
67.5°	1252.8	1267.2	1258.6	1267.2	1290.3	1327.8	1319.2	1330.7	1339.4	1353.8	1350.9
70°	1062.3	1062.3	1068.0	1070.9	1070.9	1088.3	1108.5	1146.0	1148.9	1163.3	1169.1
72.5°	837.1	831.3	840.0	860.2	863.1	877.5	906.4	929.5	938.2	938.2	920.8
75°	568.7	574.4	586.0	603.3	620.6	646.6	669.7	684.1	689.9	681.2	672.6
77.5°	320.4	326.2	334.8	360.8	381.0	404.1	430.1	444.5	459.0	461.9	444.5
80°	190.5	190.5	205.0	225.2	248.2	271.3	294.4	311.8	317.5	317.5	308.9
82.5°	115.5	118.4	129.9	150.1	170.3	184.7	205.0	219.4	230.9	228.0	222.3
85°	60.6	60.6	72.2	89.5	103.9	118.4	118.4	109.7	103.9	89.5	83.7
87.5°	20.2	17.3	23.1	23.1	20.2	23.1	23.1	26.0	26.0	26.0	26.0
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)