

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: P648422

Luminaire Tested: **GALN-SA5B-835-U-RW-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648422
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-8)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-835-U-RW-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19550.7 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

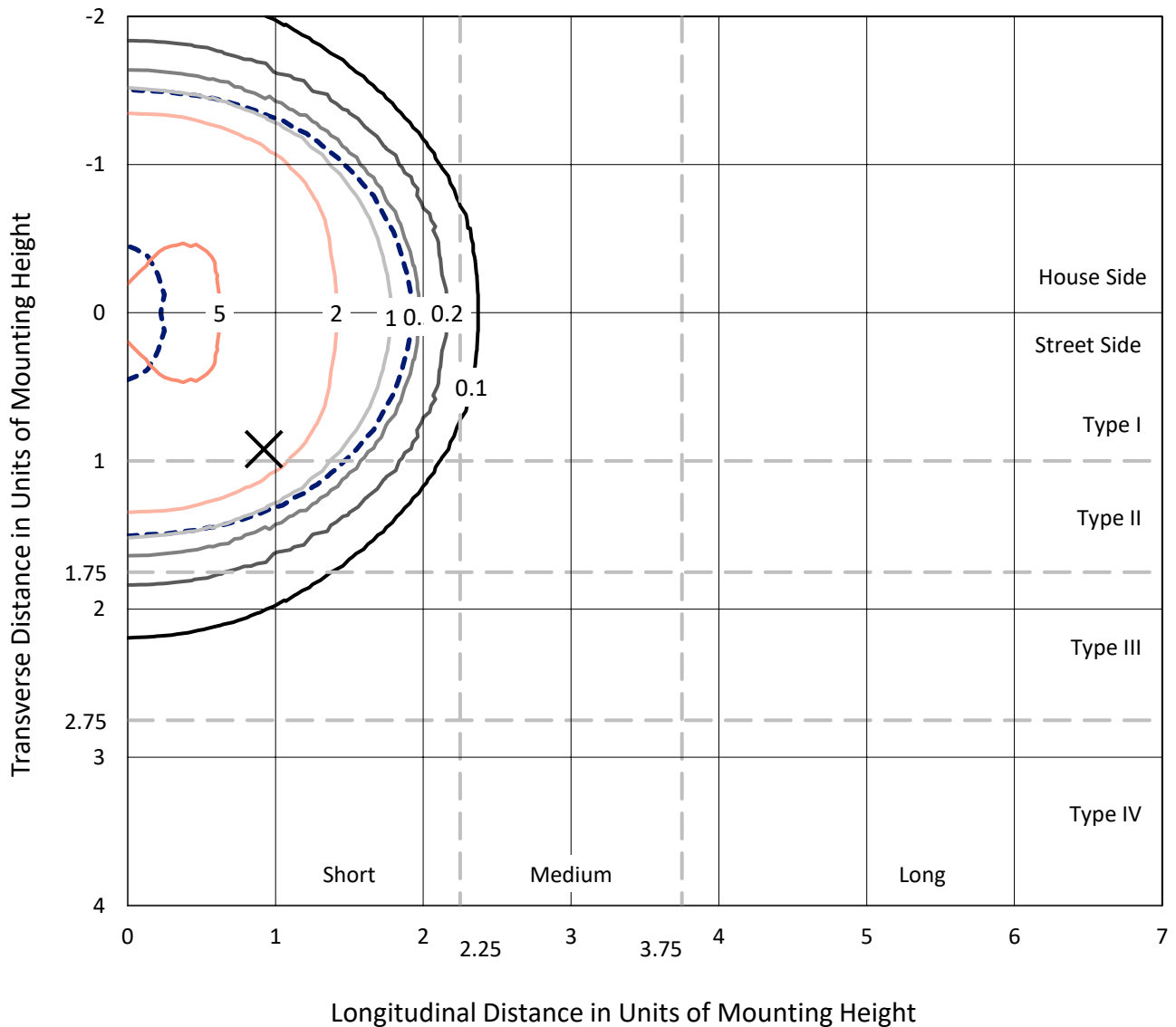
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

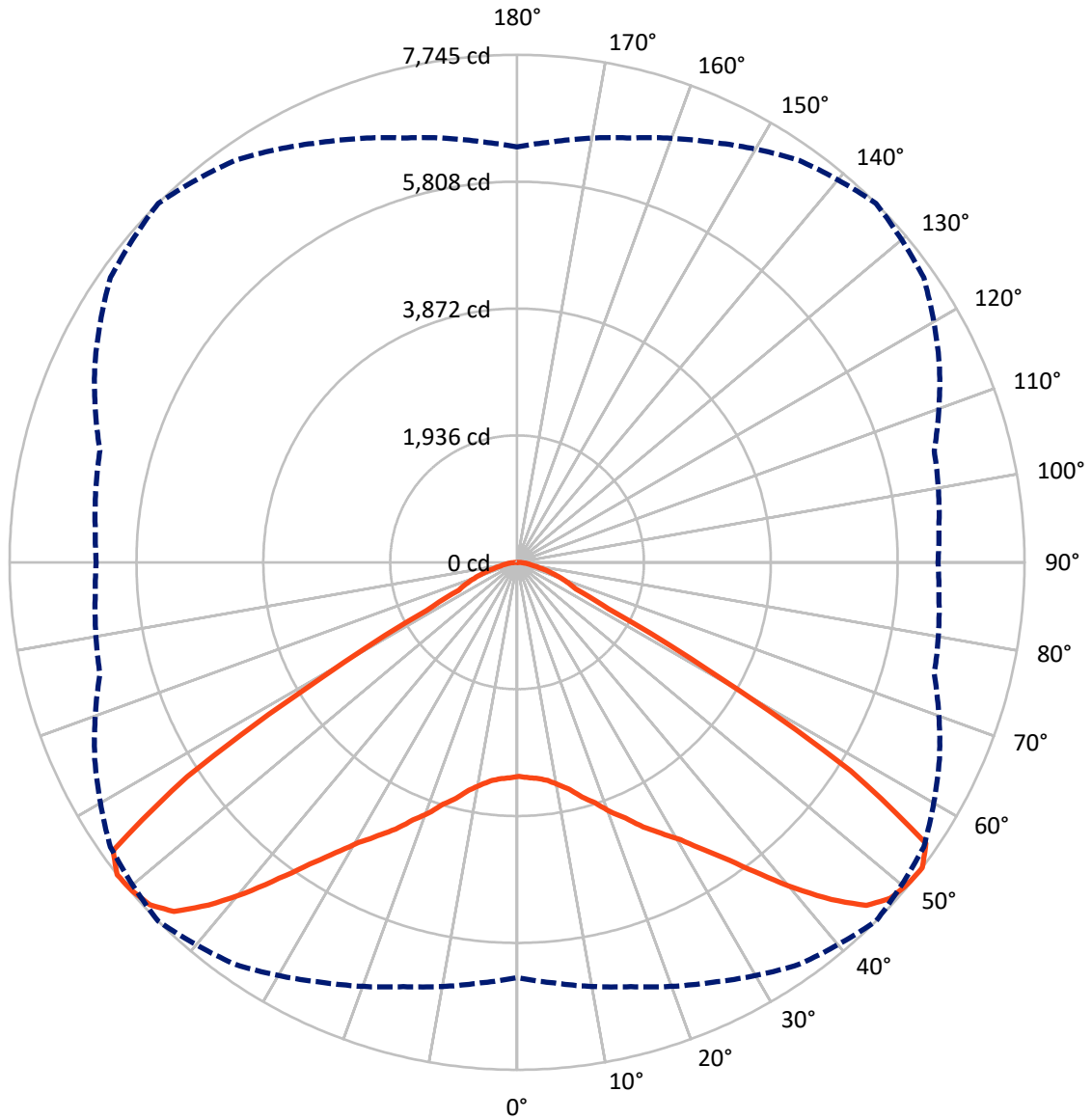
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type V - Short - N/A

REPORT NUMBER: P648422
CATALOG NUMBER: GALN-SA5B-835-U-RW-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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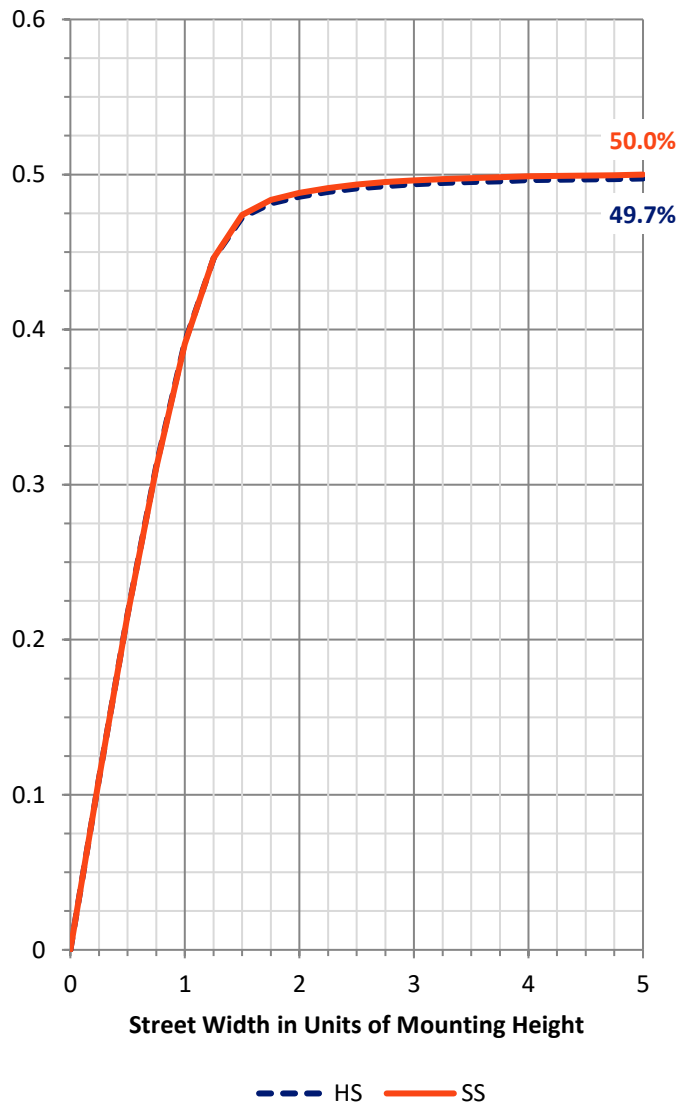
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9775.4	0.0	9775.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9775.4	0.0	9775.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	19550.7	0.0	19550.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.1	1.6
10°-20°	1055.1	5.4
20°-30°	2008.7	10.3
30°-40°	3449.1	17.6
40°-50°	5301.3	27.1
50°-60°	5383.4	27.5
60°-70°	1500.3	7.7
70°-80°	442.6	2.3
80°-90°	89.1	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°	19550.7	100.0
0°-180°	19550.7	100.0

Coefficient of Utilization



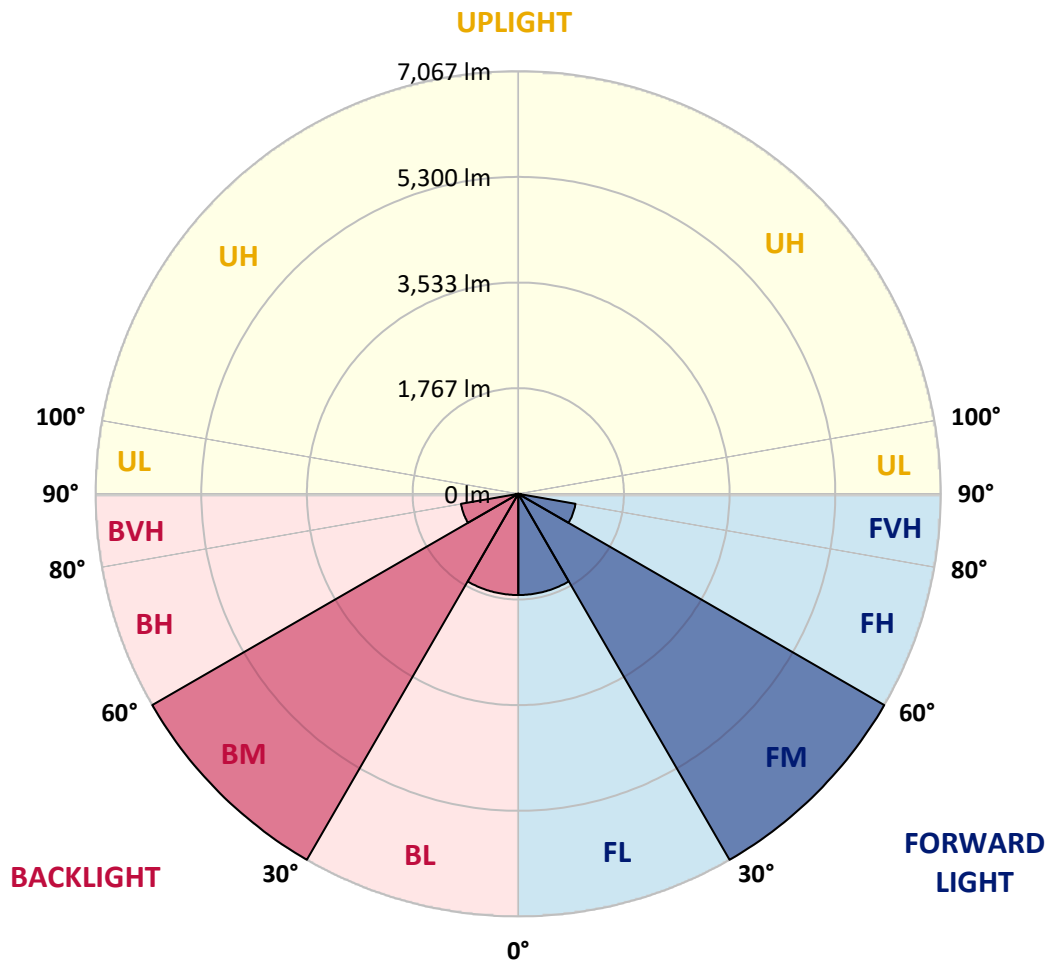
REPORT NUMBER: P648422
 CATALOG NUMBER: GALN-SA5B-835-U-RW-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1692.4	8.7			
FM (30°-60°)	7066.9	36.1			
FH (60°-80°)	971.4	5.0			G1/1800
FVH (80°-90°)	44.6	0.2			G1/100
BL (0°-30°)	1692.4	8.7	B3/2500		
BM (30°-60°)	7066.9	36.1	B4/8500		
BH (60°-80°)	971.4	5.0	B2/1000		G1/1800
BVH (80°-90°)	44.6	0.2			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°	3268.2	3268.2	3268.2	3268.2	3268.2	3268.2	3268.2	3268.2	3268.2	3268.2	3268.2
2.5°	3275.4	3241.5	3253.6	3260.9	3292.4	3290.0	3282.7	3292.4	3302.1	3304.6	3299.7
5°	3273.0	3248.7	3258.5	3265.7	3297.3	3314.3	3309.4	3350.7	3379.7	3372.5	3408.9
7.5°	3253.6	3268.2	3256.0	3292.4	3319.1	3360.3	3404.0	3442.9	3479.3	3520.5	3527.8
10°	3297.3	3297.3	3319.1	3348.3	3418.6	3450.1	3513.2	3569.0	3639.4	3687.9	3668.5
12.5°	3343.4	3350.7	3350.7	3425.9	3484.1	3554.4	3612.7	3687.9	3787.4	3845.6	3874.8
15°	3389.5	3394.3	3418.6	3520.5	3607.8	3719.4	3772.8	3840.8	3896.6	4005.7	4008.2
17.5°	3430.7	3457.4	3530.2	3644.2	3753.4	3860.2	3945.1	4015.5	4064.0	4107.6	4097.9
20°	3586.0	3605.4	3680.6	3794.7	3957.2	4061.6	4090.6	4102.8	4134.3	4221.7	4195.0
22.5°	3736.4	3743.7	3814.1	3988.8	4102.8	4241.1	4272.6	4265.3	4277.5	4299.3	4338.1
25°	3891.7	3903.8	4000.9	4148.9	4309.0	4474.0	4500.7	4444.9	4427.9	4452.1	4454.6
27.5°	4090.6	4093.1	4216.8	4345.4	4527.4	4682.7	4723.9	4680.2	4600.2	4619.6	4651.1
30°	4343.0	4326.0	4449.7	4634.1	4825.8	4913.2	4983.6	4961.7	4874.3	4857.3	4830.6
32.5°	4634.1	4639.0	4750.6	4952.0	5078.1	5223.7	5299.0	5262.5	5206.7	5177.6	5194.6
35°	5044.2	5066.0	5141.3	5308.7	5512.5	5585.2	5704.2	5626.5	5480.9	5517.3	5548.8
37.5°	5381.4	5444.5	5585.2	5784.2	5905.5	6039.0	6082.6	5978.3	5871.6	5827.9	5932.2
40°	5898.2	5878.8	6034.1	6233.1	6412.6	6546.0	6490.2	6385.9	6121.4	6123.8	6153.0
42.5°	6342.2	6351.9	6470.8	6708.6	6953.7	7036.1	6859.0	6604.3	6310.7	6279.1	6342.2
45°	6715.9	6754.7	6822.6	7140.5	7380.6	7470.4	7142.9	6842.0	6448.9	6317.9	6422.3
47.5°	6849.3	6912.4	7060.4	7351.5	7589.3	7662.1	7400.1	6968.2	6577.6	6364.1	6419.9
50°	6868.7	6846.9	7089.5	7356.4	7565.0	7722.7	7492.3	7060.4	6546.0	6434.5	6417.5
52.5°	6337.4	6444.1	6703.7	7070.1	7492.3	7744.6	7574.7	7111.4	6589.7	6463.5	6422.3
55°	5129.1	5002.9	5476.1	6092.3	6868.7	7569.9	7545.6	7138.1	6616.4	6512.1	6456.2
57.5°	2863.0	2899.4	3166.3	3835.9	4837.9	6002.6	6708.6	6856.6	6604.3	6543.6	6572.7
60°	1324.8	1336.9	1450.9	1763.9	2385.0	3404.0	4333.3	5277.1	5711.4	5798.7	5798.7
62.5°	987.5	982.7	1011.7	1067.5	1198.5	1564.9	2089.0	2838.7	3435.6	3852.9	3962.1
65°	892.9	890.4	905.0	924.4	934.1	985.1	1101.5	1332.0	1526.1	1637.7	1618.3
67.5°	781.3	778.9	783.7	795.8	812.8	839.5	868.6	917.1	985.1	980.2	968.1
70°	630.9	630.9	638.1	647.8	667.2	698.7	732.7	766.7	824.9	837.0	834.6
72.5°	465.8	458.5	473.1	492.5	511.9	550.8	587.2	618.7	659.9	672.0	667.2
75°	296.0	300.8	310.5	332.4	366.4	393.1	431.9	458.5	485.2	494.9	497.4
77.5°	165.0	169.8	186.8	213.5	247.5	276.6	310.5	332.4	349.4	351.8	354.2
80°	99.4	101.9	118.9	143.1	172.3	203.8	230.5	252.4	266.9	259.6	257.2
82.5°	60.7	63.1	77.7	99.4	123.7	148.0	177.1	196.5	211.1	201.4	191.7
85°	31.6	34.0	46.1	60.7	80.1	92.2	92.2	82.5	80.1	75.2	72.8
87.5°	9.7	9.7	12.1	14.6	12.1	14.6	17.0	19.4	19.4	21.8	19.4
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)