

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: P648411

Luminaire Tested: **GALN-SA5B-835-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648411
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)
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-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15328 lumens
Efficiency: N/A
Efficacy: 75.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

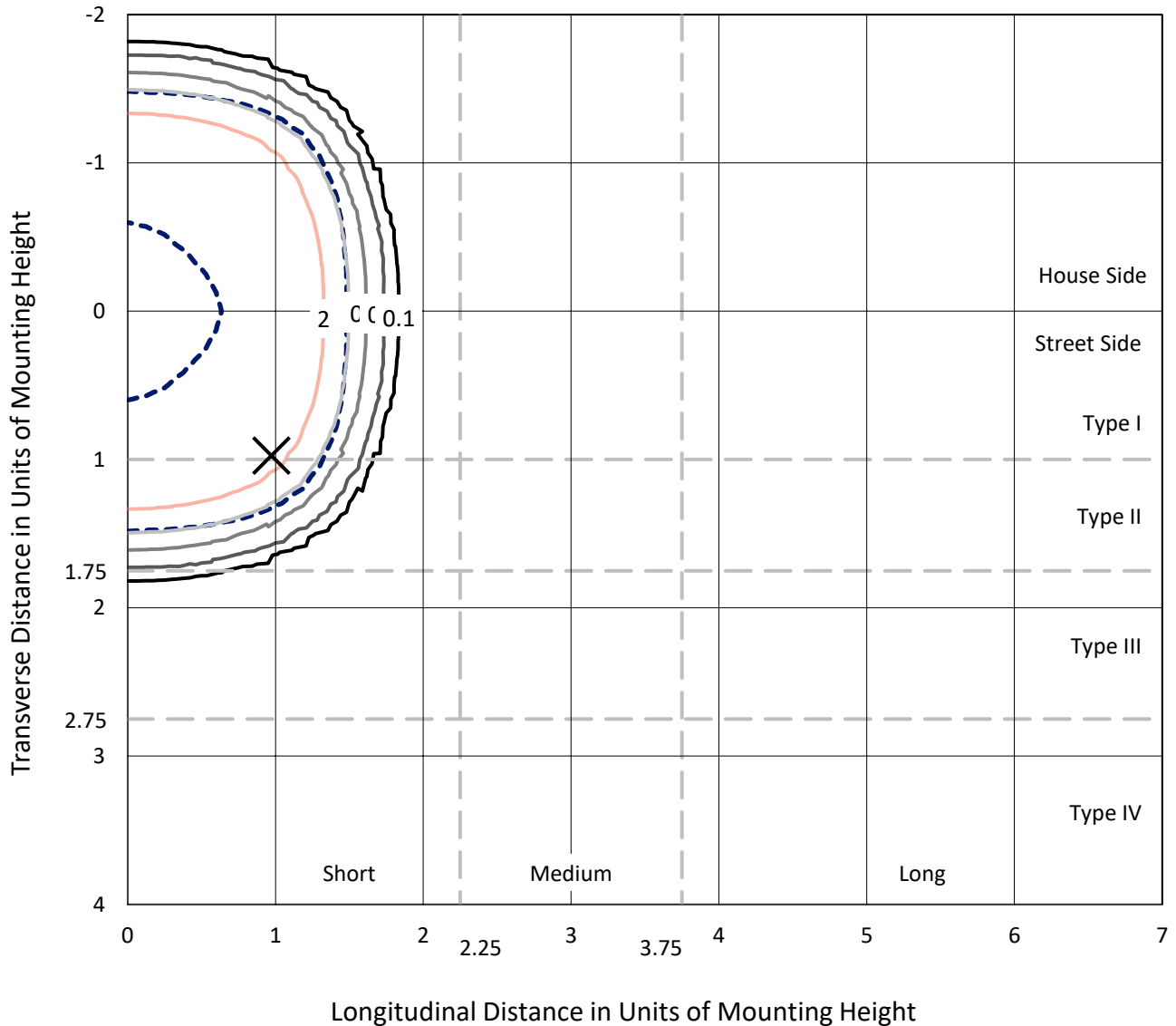
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

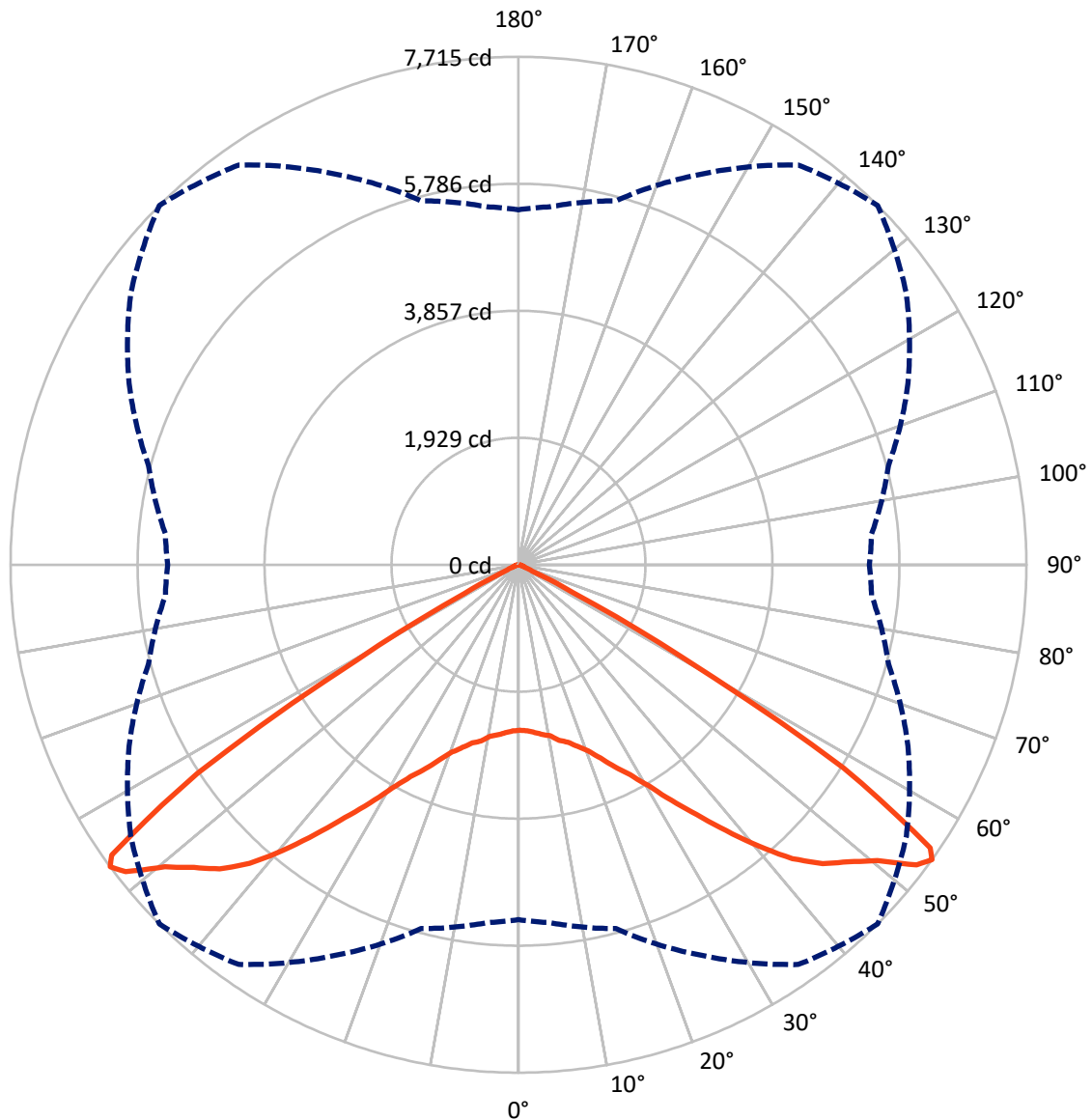
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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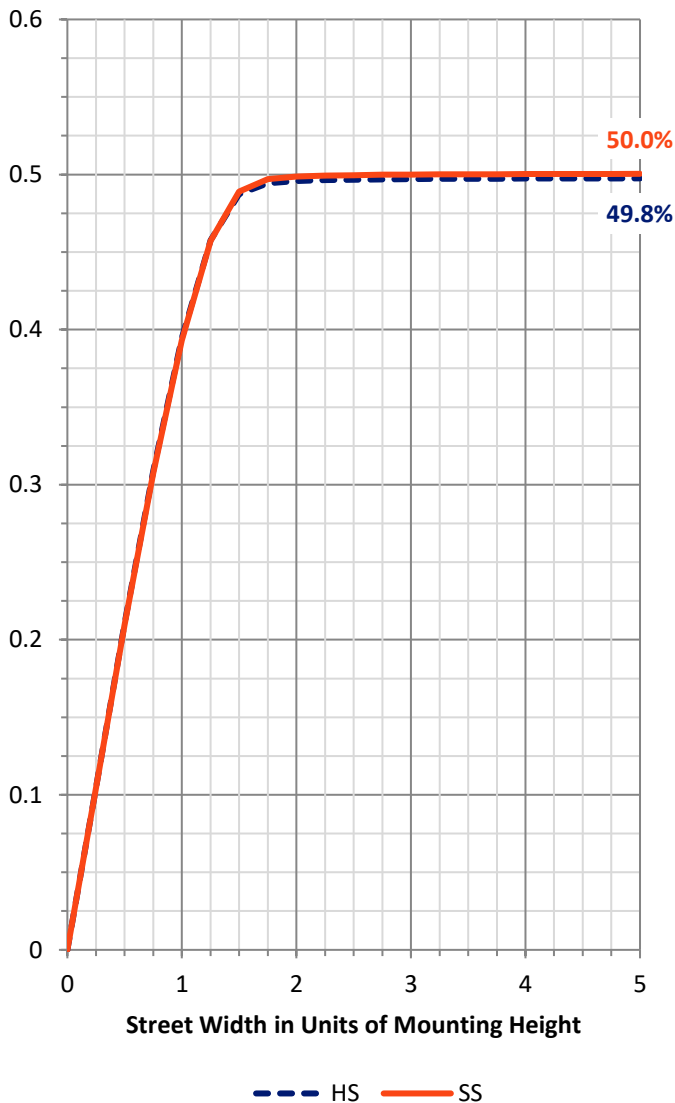
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7664.0	0.0	7664.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7664.0	0.0	7664.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	15328.0	0.0	15328.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.0	1.6
10°-20°	796.6	5.2
20°-30°	1561.3	10.2
30°-40°	2807.6	18.3
40°-50°	4806.1	31.4
50°-60°	4650.3	30.3
60°-70°	398.1	2.6
70°-80°	47.2	0.3
80°-90°	14.8	0.1
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°	15328.0	100.0
0°-180°	15328.0	100.0

Coefficient of Utilization

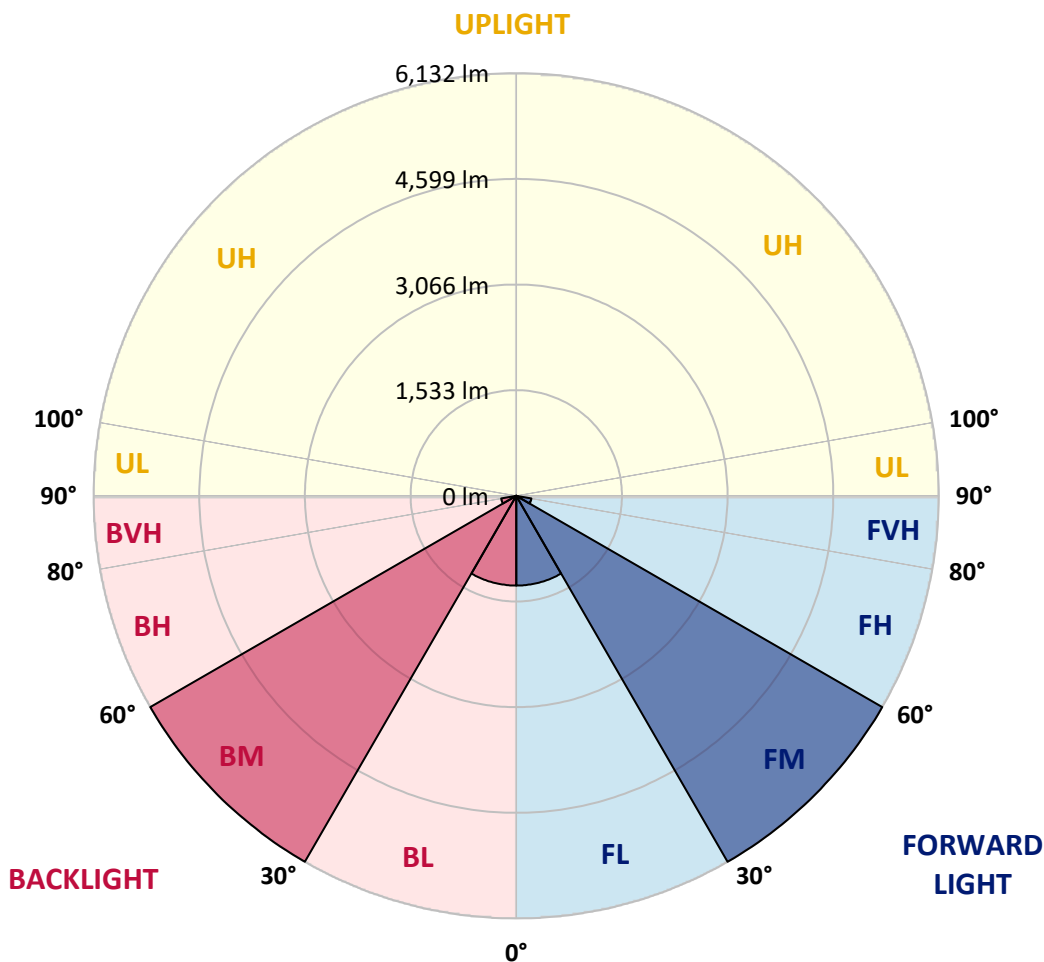


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1302.0	8.5			
FM (30°-60°)	6132.0	40.0			
FH (60°-80°)	222.6	1.5			G0/660
FVH (80°-90°)	7.4	0.0			G0/10
BL (0°-30°)	1302.0	8.5	B3/2500		
BM (30°-60°)	6132.0	40.0	B4/8500		
BH (60°-80°)	222.6	1.5	B1/500		G0/660
BVH (80°-90°)	7.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G0
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2513.4	2513.4	2513.4	2513.4	2513.4	2513.4	2513.4	2513.4	2513.4	2513.4	2513.4
2.5°	2525.5	2540.1	2530.3	2537.6	2537.6	2525.5	2532.8	2503.6	2523.1	2508.5	2510.9
5°	2564.3	2561.9	2561.9	2564.3	2554.6	2559.5	2549.8	2540.1	2532.8	2523.1	2552.2
7.5°	2612.9	2612.9	2595.9	2600.7	2595.9	2603.2	2583.7	2564.3	2557.0	2549.8	2544.9
10°	2659.0	2654.1	2646.9	2668.7	2651.7	2642.0	2632.3	2620.2	2593.5	2583.7	2574.0
12.5°	2727.0	2724.6	2714.9	2736.7	2727.0	2736.7	2700.3	2668.7	2663.8	2632.3	2649.3
15°	2807.1	2829.0	2812.0	2812.0	2807.1	2795.0	2780.4	2765.9	2722.2	2710.0	2712.5
17.5°	2911.6	2904.3	2906.7	2906.7	2931.0	2899.4	2870.2	2833.8	2812.0	2804.7	2780.4
20°	3011.1	3020.8	3018.4	3035.4	3049.9	3016.0	2984.4	2979.5	2918.9	2928.6	2894.6
22.5°	3185.9	3178.7	3190.8	3202.9	3193.2	3188.4	3159.2	3122.8	3069.4	3045.1	3040.2
25°	3370.5	3358.4	3336.5	3365.6	3380.2	3402.1	3346.2	3326.8	3244.2	3207.8	3210.2
27.5°	3528.4	3545.3	3569.6	3581.8	3618.2	3610.9	3572.0	3508.9	3445.8	3404.5	3377.8
30°	3744.5	3754.2	3795.4	3812.5	3875.6	3892.6	3831.9	3759.0	3647.4	3593.9	3562.3
32.5°	3943.6	4011.6	4009.2	4094.2	4196.2	4266.6	4157.3	4045.6	3933.9	3870.8	3814.9
35°	4266.6	4254.4	4324.8	4414.7	4579.8	4659.9	4540.9	4412.3	4242.3	4140.3	4096.6
37.5°	4567.7	4572.6	4667.2	4810.5	4999.9	5123.8	5019.3	4808.1	4633.2	4502.1	4441.4
40°	5004.8	5014.5	5111.7	5274.3	5488.0	5621.5	5500.2	5286.4	5053.3	4951.4	4951.4
42.5°	5517.2	5558.4	5621.5	5762.4	5954.2	6102.4	5993.1	5825.5	5590.0	5458.8	5478.3
45°	6044.1	6063.6	6104.8	6313.6	6403.5	6476.3	6374.3	6296.7	6138.8	5978.5	5951.8
47.5°	6537.0	6544.3	6665.8	6731.3	6801.8	6741.0	6806.6	6704.6	6527.3	6371.9	6340.3
50°	6755.6	6743.4	6915.8	7115.0	7168.4	7061.6	7005.7	6937.7	6668.2	6481.2	6398.6
52.5°	6119.4	6189.8	6510.3	7064.0	7481.6	7571.5	7246.1	6932.8	6430.2	6066.0	6010.1
54°	5390.9	5456.4	5721.1	6541.9	7411.3	7714.8	7190.3	6524.9	5815.8	5383.6	5327.8
55°	4669.7	4596.8	5077.6	5915.4	7081.0	7588.5	6969.3	5997.9	5186.9	4791.1	4713.3
57.5°	2527.9	2540.1	2945.6	3737.2	4975.7	5818.2	5138.4	4057.7	3064.6	2620.2	2581.3
60°	801.3	820.7	998.0	1510.4	2377.3	2838.7	2433.2	1629.4	1126.7	903.3	866.9
62.5°	250.1	259.8	284.2	422.5	650.8	930.0	728.5	437.1	325.4	298.7	303.6
65°	153.0	153.0	155.4	165.1	194.3	225.8	218.5	191.8	184.6	179.7	177.3
67.5°	99.6	97.2	102.0	109.3	114.2	116.6	123.9	131.2	128.7	123.9	123.9
70°	60.7	58.3	63.1	72.8	75.2	80.1	87.4	97.2	94.7	89.8	92.2
72.5°	34.0	34.0	36.4	43.7	51.0	55.8	63.1	70.4	72.8	70.4	70.4
75°	12.1	14.6	19.4	26.7	31.6	38.8	46.1	53.4	60.7	55.8	53.4
77.5°	4.9	4.9	9.7	17.0	24.3	31.6	43.7	51.0	55.8	51.0	46.1
80°	2.4	2.4	7.3	14.6	21.8	29.1	36.4	43.7	46.1	41.3	36.4
82.5°	2.4	2.4	7.3	14.6	21.8	26.7	38.8	43.7	48.5	43.7	36.4
85°	0.0	2.4	7.3	14.6	19.4	21.8	21.8	14.6	12.1	7.3	7.3
87.5°	0.0	0.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)