

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: P652383

Luminaire Tested: **GALN-SA5B-840-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652383
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-840-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24725.4 lumens
Efficiency: N/A
Efficacy: 121.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

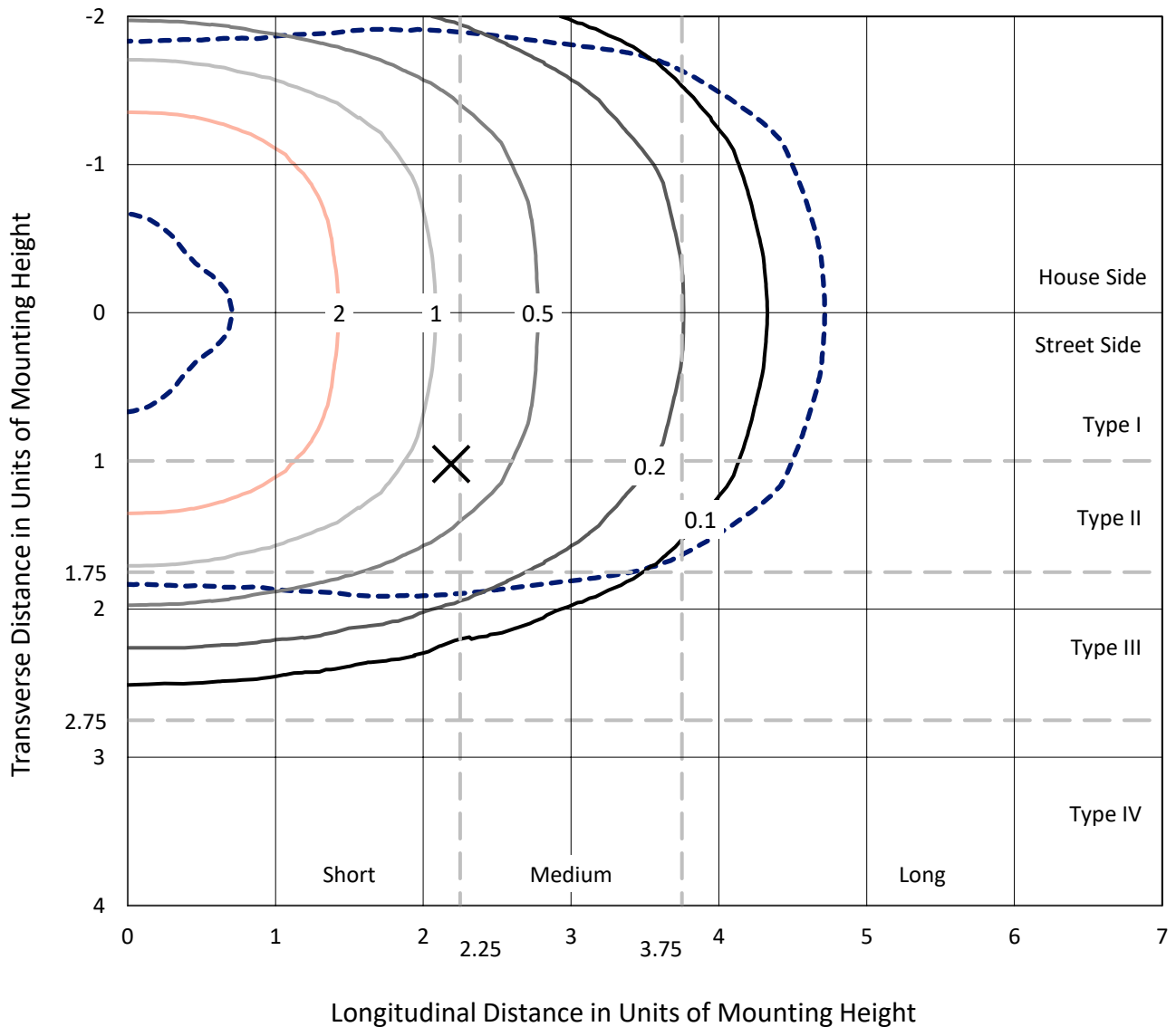
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P652383
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Iso-Footcandle Lines of Horizontal Illumination

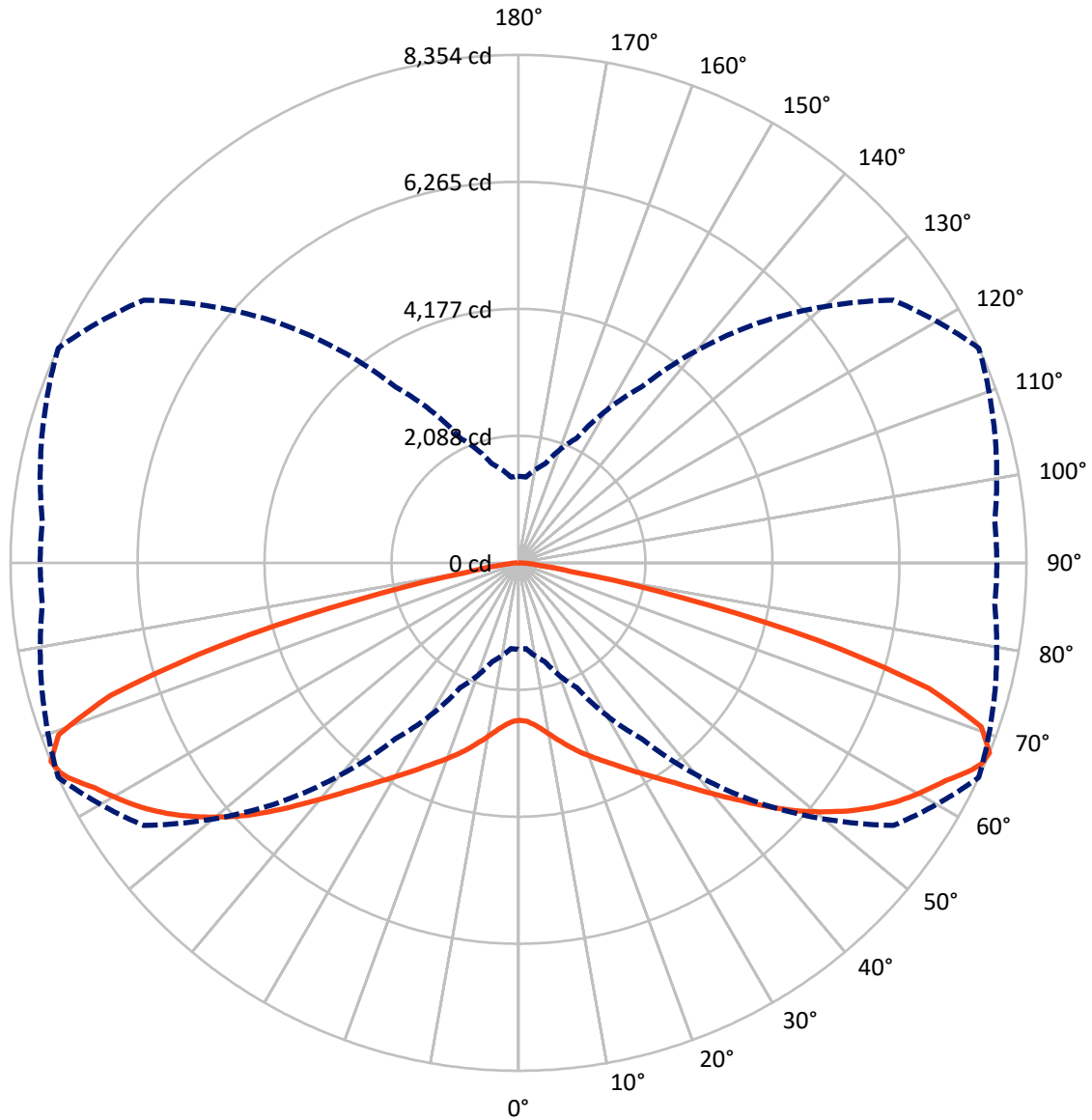
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type III - Short - N/A

REPORT NUMBER: P652383
CATALOG NUMBER: GALN-SA5B-840-U-RW

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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 CATALOG NUMBER: GALN-SA5B-840-U-RW

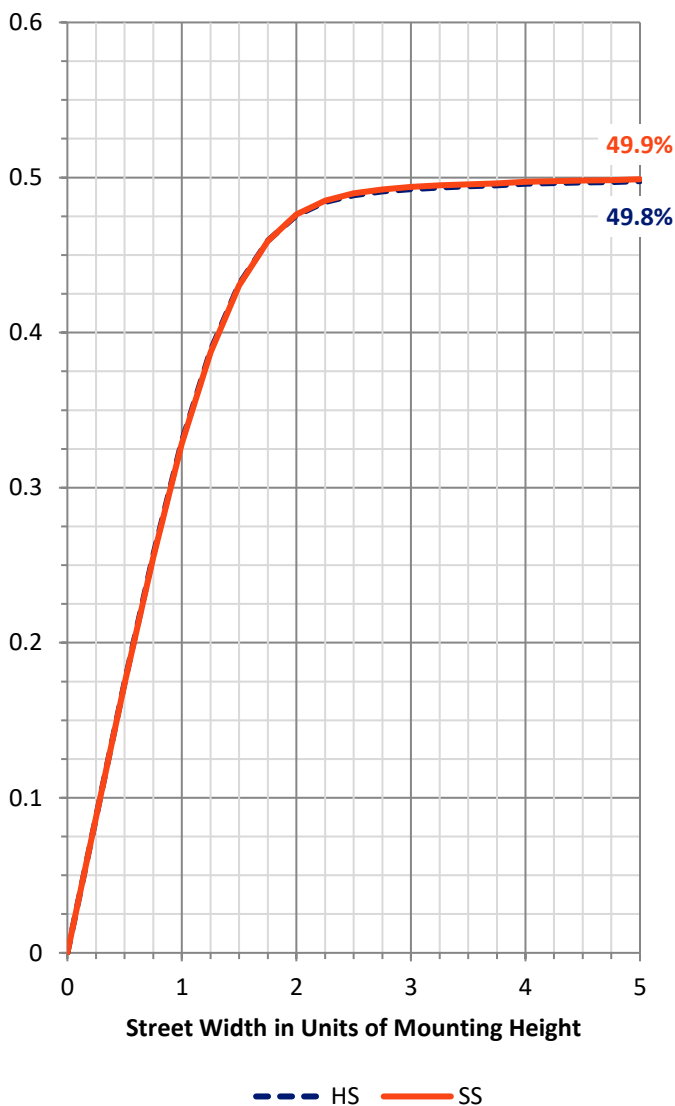
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12362.7	0.0	12362.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12362.7	0.0	12362.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	24725.4	0.0	24725.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.4	1.0
10°-20°	854.9	3.5
20°-30°	1672.2	6.8
30°-40°	2844.2	11.5
40°-50°	4501.5	18.2
50°-60°	5968.9	24.1
60°-70°	5630.5	22.8
70°-80°	2783.4	11.3
80°-90°	214.5	0.9
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°	24725.4	100.0
0°-180°	24725.4	100.0

Coefficient of Utilization

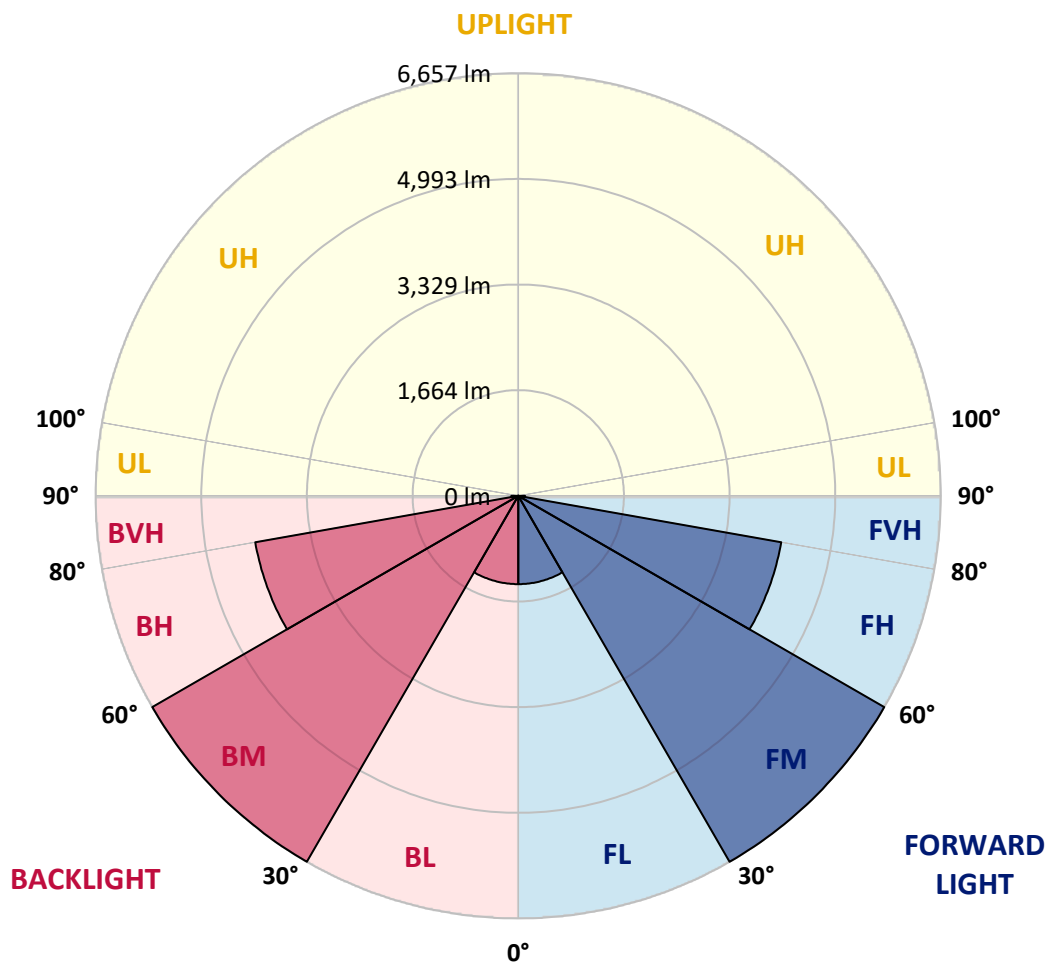


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1391.2	5.6			
FM (30°-60°)	6657.3	26.9			
FH (60°-80°)	4207.0	17.0			G2/5000
FVH (80°-90°)	107.3	0.4			G2/225
BL (0°-30°)	1391.2	5.6	B3/2500		
BM (30°-60°)	6657.3	26.9	B4/8500		
BH (60°-80°)	4207.0	17.0	B4/5000		G4/5000
BVH (80°-90°)	107.3	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2589.8	2589.8	2589.8	2589.8	2589.8	2589.8	2589.8	2589.8	2589.8	2589.8	2589.8
2.5°	2576.5	2579.2	2581.8	2585.8	2591.1	2599.0	2604.3	2608.3	2618.9	2620.2	2618.9
5°	2567.2	2569.9	2576.5	2588.4	2605.7	2629.5	2648.1	2670.6	2687.8	2699.7	2697.1
7.5°	2565.9	2571.2	2581.8	2607.0	2640.1	2681.2	2723.6	2762.0	2795.1	2821.6	2817.6
10°	2587.1	2593.7	2611.0	2648.1	2699.7	2759.3	2818.9	2875.9	2923.6	2958.0	2970.0
12.5°	2622.9	2628.2	2660.0	2715.6	2789.8	2863.9	2931.6	3001.8	3068.0	3126.2	3126.2
15°	2685.1	2694.4	2734.2	2815.0	2906.3	2992.4	3061.3	3135.5	3207.1	3273.3	3293.2
17.5°	2771.3	2784.5	2844.1	2947.5	3064.0	3143.5	3208.4	3269.3	3331.6	3395.2	3404.5
20°	2889.2	2902.4	2981.8	3106.4	3244.2	3339.5	3383.3	3397.8	3428.3	3489.2	3497.2
22.5°	3049.5	3062.7	3151.4	3291.8	3445.5	3548.9	3567.4	3533.0	3525.0	3572.7	3578.0
25°	3231.0	3242.8	3344.8	3495.9	3654.8	3767.4	3762.1	3677.4	3629.7	3658.8	3666.8
27.5°	3434.9	3452.1	3555.5	3711.8	3884.0	3983.3	3967.4	3844.2	3742.3	3737.0	3739.6
30°	3695.9	3714.4	3812.4	3962.1	4131.7	4223.1	4190.0	4024.4	3866.7	3813.8	3813.8
32.5°	3971.5	4017.8	4117.1	4273.5	4405.9	4472.2	4421.8	4223.1	4013.8	3939.7	3935.6
35°	4330.4	4355.5	4453.6	4605.9	4705.3	4756.9	4660.2	4447.0	4205.9	4118.5	4106.5
37.5°	4681.4	4702.6	4816.6	4962.3	5082.8	5080.1	4949.0	4713.2	4444.3	4346.3	4338.4
40°	5040.4	5063.0	5192.8	5326.6	5447.2	5436.6	5277.5	5014.0	4727.8	4617.8	4639.0
42.5°	5351.7	5376.9	5523.9	5714.7	5823.3	5820.6	5636.6	5339.8	5041.8	4943.7	4962.3
45°	5635.2	5657.7	5828.6	6047.2	6206.2	6226.0	6024.7	5710.7	5404.8	5278.9	5284.2
47.5°	5835.3	5877.7	6056.5	6306.8	6522.8	6593.0	6395.6	6088.3	5735.9	5604.8	5612.7
50°	5987.6	6014.1	6208.9	6493.6	6766.5	6912.3	6753.2	6438.0	6067.1	5928.0	5946.5
52.5°	6006.2	6038.0	6249.9	6578.4	6928.2	7149.3	7071.2	6779.7	6404.9	6261.8	6301.5
55°	5855.1	5873.7	6126.7	6525.4	6991.7	7325.5	7345.4	7097.7	6726.7	6618.2	6644.7
57.5°	5424.6	5472.3	5792.9	6277.7	6904.3	7419.6	7550.8	7386.5	7052.6	6945.3	6987.7
60°	4718.5	4766.2	5088.1	5702.8	6574.4	7375.9	7720.3	7642.2	7348.1	7262.0	7284.5
62.5°	3697.2	3693.3	4092.0	4845.7	5918.7	7161.3	7846.1	7888.5	7639.5	7530.8	7565.3
65°	2396.3	2408.3	2793.8	3605.8	4929.2	6615.5	7873.9	8202.4	7925.6	7761.3	7786.5
66°	1927.4	1963.2	2290.4	3038.9	4424.5	6257.8	7790.5	8295.2	8013.0	7814.3	7826.3
67.5°	1422.7	1416.1	1685.0	2262.5	3533.0	5578.3	7529.6	8353.5	8112.4	7862.0	7867.3
70°	812.1	810.7	906.1	1242.6	2077.1	3927.7	6346.6	8074.0	8313.8	8034.2	8019.7
72.5°	593.5	589.5	602.7	686.2	1013.4	1983.1	4378.1	7056.6	8210.4	8006.4	7965.4
75°	498.1	495.4	492.8	503.4	568.3	898.1	2323.5	5076.2	7124.2	7514.9	7472.5
77.5°	406.7	406.7	408.0	405.4	408.0	472.9	963.0	2720.9	4338.4	4843.1	4961.0
80°	317.9	316.6	339.1	329.8	308.6	303.3	426.6	875.6	1440.0	1432.0	1181.6
82.5°	234.5	218.6	258.4	251.7	227.8	193.4	249.0	373.6	480.9	312.6	231.8
85°	148.4	147.0	182.8	166.9	139.1	91.4	119.3	160.3	198.7	120.5	98.1
87.5°	26.5	25.1	58.3	42.4	42.4	26.5	33.1	43.7	64.9	45.1	33.1
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)