

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: P647378

Luminaire Tested: **GALN-SA4D-835-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647378
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-SA4D-835-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24722.4 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 245
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

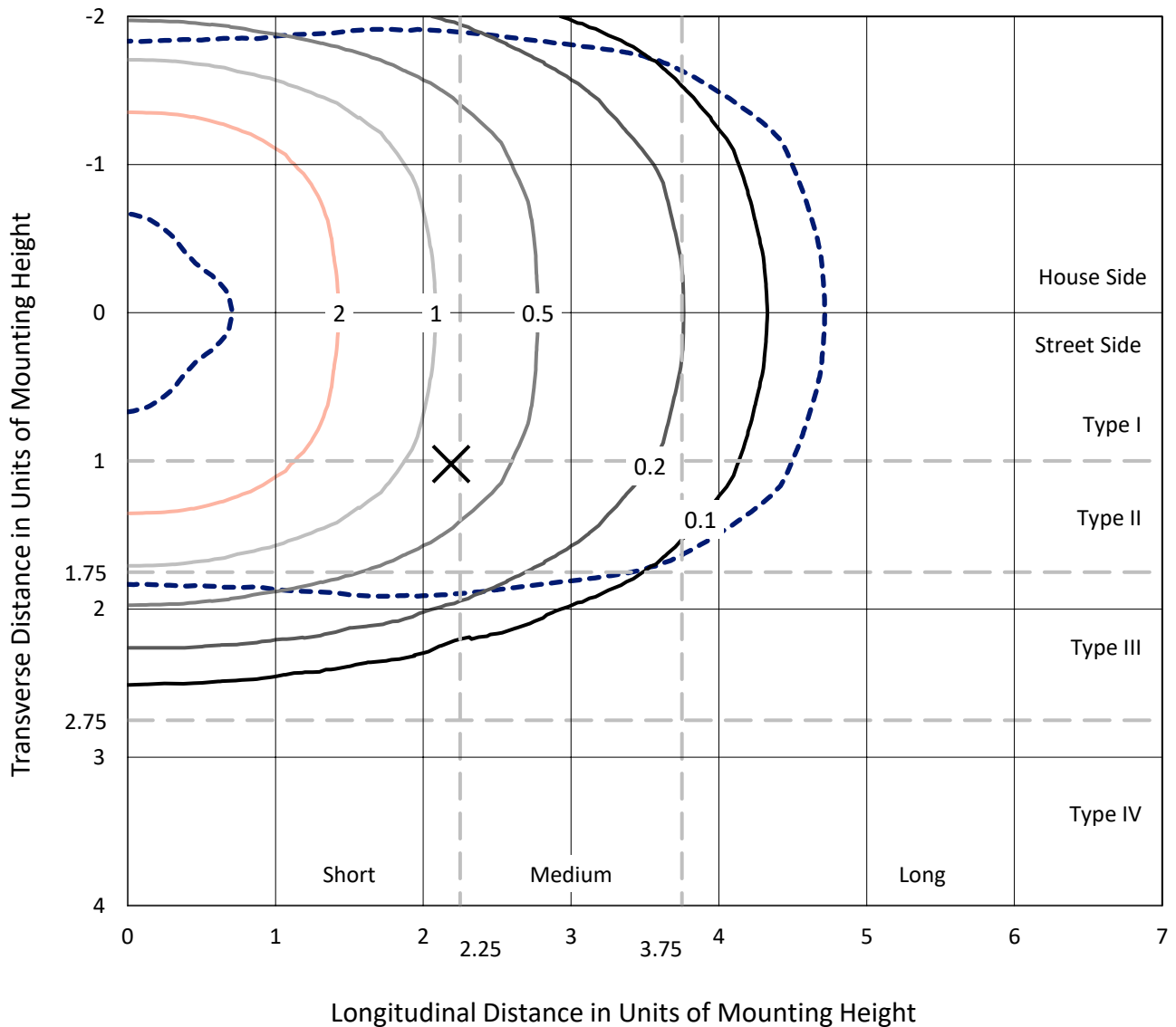




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Iso-Footcandle Lines of Horizontal Illumination

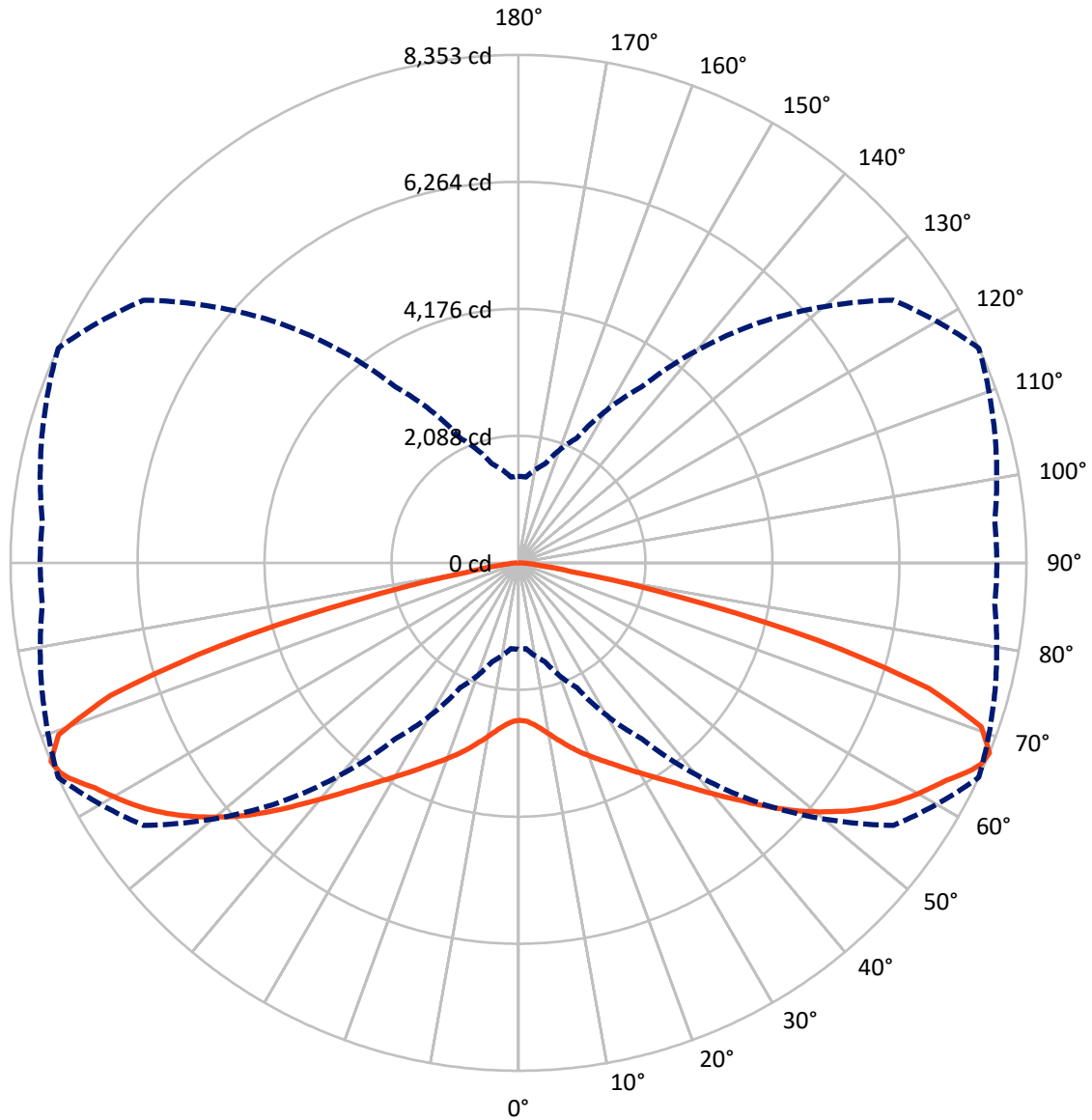
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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

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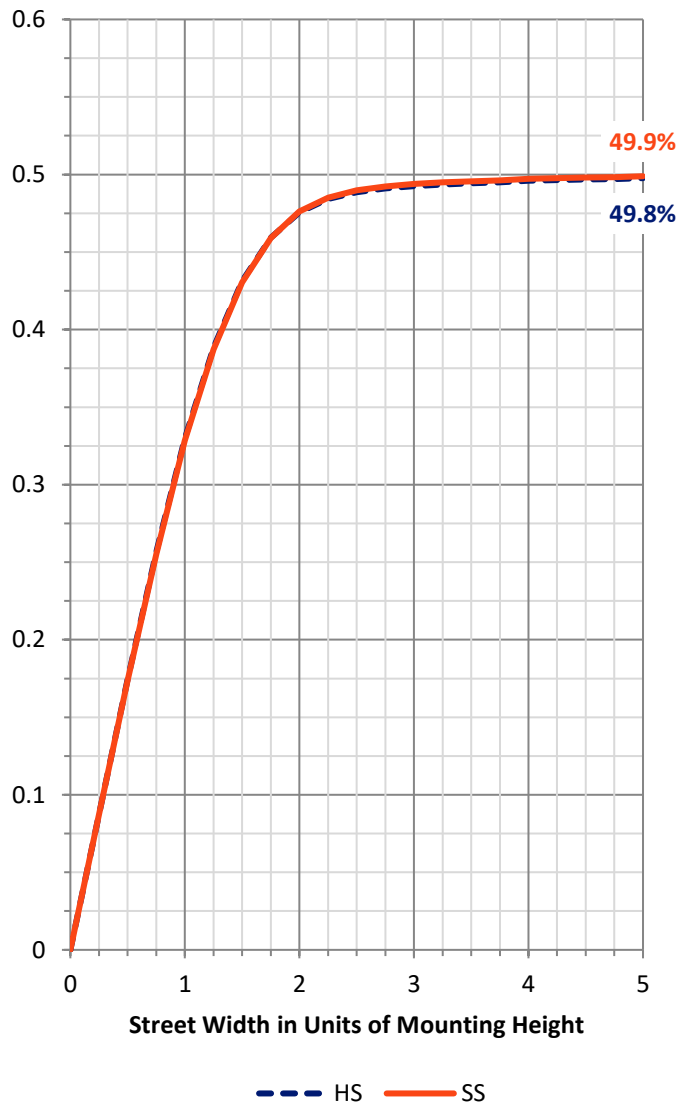
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12361.2	0.0	12361.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12361.2	0.0	12361.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	24722.4	0.0	24722.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.4	1.0
10°-20°	854.8	3.5
20°-30°	1672.0	6.8
30°-40°	2843.8	11.5
40°-50°	4500.9	18.2
50°-60°	5968.1	24.1
60°-70°	5629.8	22.8
70°-80°	2783.1	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°	24722.4	100.0
0°-180°	24722.4	100.0

Coefficient of Utilization



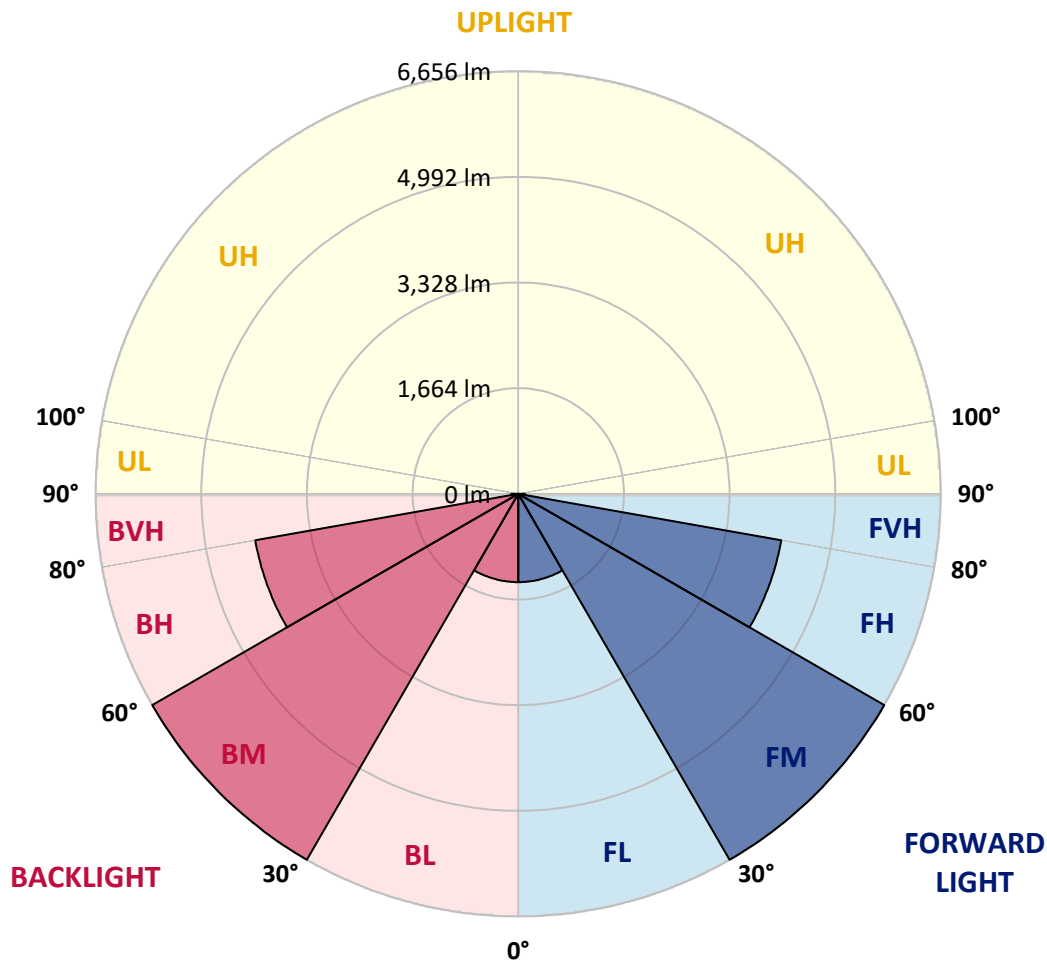
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1391.1	5.6			
FM (30°-60°)	6656.5	26.9			
FH (60°-80°)	4206.4	17.0			G2/5000
FVH (80°-90°)	107.2	0.4			G2/225
BL (0°-30°)	1391.1	5.6	B3/2500		
BM (30°-60°)	6656.5	26.9	B4/8500		
BH (60°-80°)	4206.4	17.0	B4/5000		G4/5000
BVH (80°-90°)	107.2	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°	2589.5	2589.5	2589.5	2589.5	2589.5	2589.5	2589.5	2589.5	2589.5	2589.5	2589.5
2.5°	2576.2	2578.9	2581.5	2585.5	2590.8	2598.7	2604.0	2608.0	2618.6	2619.9	2618.6
5°	2566.9	2569.6	2576.2	2588.1	2605.4	2629.2	2647.7	2670.3	2687.5	2699.4	2696.7
7.5°	2565.6	2570.9	2581.5	2606.7	2639.8	2680.8	2723.3	2761.6	2794.8	2821.2	2817.3
10°	2586.8	2593.5	2610.7	2647.7	2699.4	2759.0	2818.6	2875.6	2923.3	2957.7	2969.6
12.5°	2622.6	2627.9	2659.7	2715.3	2789.4	2863.7	2931.2	3001.4	3067.6	3125.9	3125.9
15°	2684.8	2694.1	2733.8	2814.7	2906.0	2992.1	3061.0	3135.1	3206.7	3272.9	3292.7
17.5°	2770.9	2784.2	2843.8	2947.1	3063.6	3143.1	3208.0	3268.9	3331.2	3394.8	3404.0
20°	2888.8	2902.0	2981.5	3106.0	3243.8	3339.1	3382.9	3397.4	3427.9	3488.8	3496.8
22.5°	3049.1	3062.3	3151.0	3291.5	3445.1	3548.4	3567.0	3532.5	3524.6	3572.3	3577.5
25°	3230.5	3242.5	3344.4	3495.5	3654.4	3766.9	3761.7	3676.9	3629.2	3658.3	3666.3
27.5°	3434.5	3451.7	3555.1	3711.3	3883.5	3982.9	3967.0	3843.8	3741.8	3736.5	3739.1
30°	3695.4	3714.0	3812.0	3961.7	4131.2	4222.6	4189.5	4023.9	3866.3	3813.3	3813.3
32.5°	3970.9	4017.3	4116.6	4272.9	4405.4	4471.6	4421.3	4222.6	4013.3	3939.1	3935.2
35°	4329.9	4355.0	4453.1	4605.4	4704.7	4756.4	4659.7	4446.4	4205.4	4118.0	4106.1
37.5°	4680.9	4702.1	4816.0	4961.7	5082.2	5079.6	4948.5	4712.6	4443.8	4345.8	4337.8
40°	5039.9	5062.3	5192.2	5326.0	5446.5	5435.9	5277.0	5013.3	4727.3	4617.4	4638.5
42.5°	5351.1	5376.2	5523.3	5714.0	5822.6	5820.0	5635.9	5339.2	5041.2	4943.2	4961.7
45°	5634.5	5657.1	5827.9	6046.5	6205.4	6225.3	6023.9	5710.0	5404.1	5278.3	5283.5
47.5°	5834.5	5877.0	6055.7	6306.1	6522.0	6592.2	6394.8	6087.5	5735.2	5604.1	5612.1
50°	5986.9	6013.4	6208.1	6492.9	6765.7	6911.4	6752.4	6437.2	6066.4	5927.3	5945.8
52.5°	6005.5	6037.2	6249.1	6577.6	6927.3	7148.5	7070.3	6779.0	6404.1	6261.0	6300.8
55°	5854.4	5873.0	6126.0	6524.7	6990.9	7324.7	7344.5	7096.8	6726.0	6617.4	6643.8
57.5°	5423.9	5471.6	5792.2	6276.9	6903.5	7418.7	7549.8	7385.6	7051.8	6944.5	6986.9
60°	4718.0	4765.7	5087.5	5702.1	6573.7	7375.0	7719.4	7641.2	7347.2	7261.1	7283.6
62.5°	3696.8	3692.8	4091.5	4845.1	5918.0	7160.4	7845.2	7887.6	7638.6	7530.0	7564.4
65°	2396.1	2408.0	2793.4	3605.4	4928.6	6614.7	7873.0	8201.5	7924.7	7760.4	7785.6
66°	1927.2	1963.0	2290.1	3038.5	4424.0	6257.1	7789.6	8294.2	8012.1	7813.4	7825.3
67.5°	1422.6	1415.9	1684.8	2262.3	3532.5	5577.6	7528.6	8352.5	8111.4	7861.1	7866.4
70°	812.0	810.6	906.0	1242.4	2076.8	3927.2	6345.8	8073.0	8312.7	8033.3	8018.7
72.5°	593.4	589.4	602.7	686.1	1013.3	1982.8	4377.6	7055.8	8209.4	8005.5	7964.4
75°	498.0	495.4	492.7	503.3	568.2	898.0	2323.2	5075.6	7123.3	7514.1	7471.7
77.5°	406.6	406.6	407.9	405.3	407.9	472.9	962.9	2720.6	4337.8	4842.5	4960.4
80°	317.9	316.6	339.1	329.8	308.6	303.3	426.5	875.6	1439.8	1431.8	1181.5
82.5°	234.4	218.5	258.3	251.7	227.9	193.4	249.0	373.5	480.8	312.6	231.8
85°	148.4	147.0	182.8	166.9	139.1	91.4	119.2	160.3	198.6	120.5	98.0
87.5°	26.5	25.1	58.3	42.4	42.4	26.5	33.1	43.7	64.9	45.0	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)