

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: P646870

Luminaire Tested: **GALN-SA4C-835-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646870
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-835-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22839.3 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

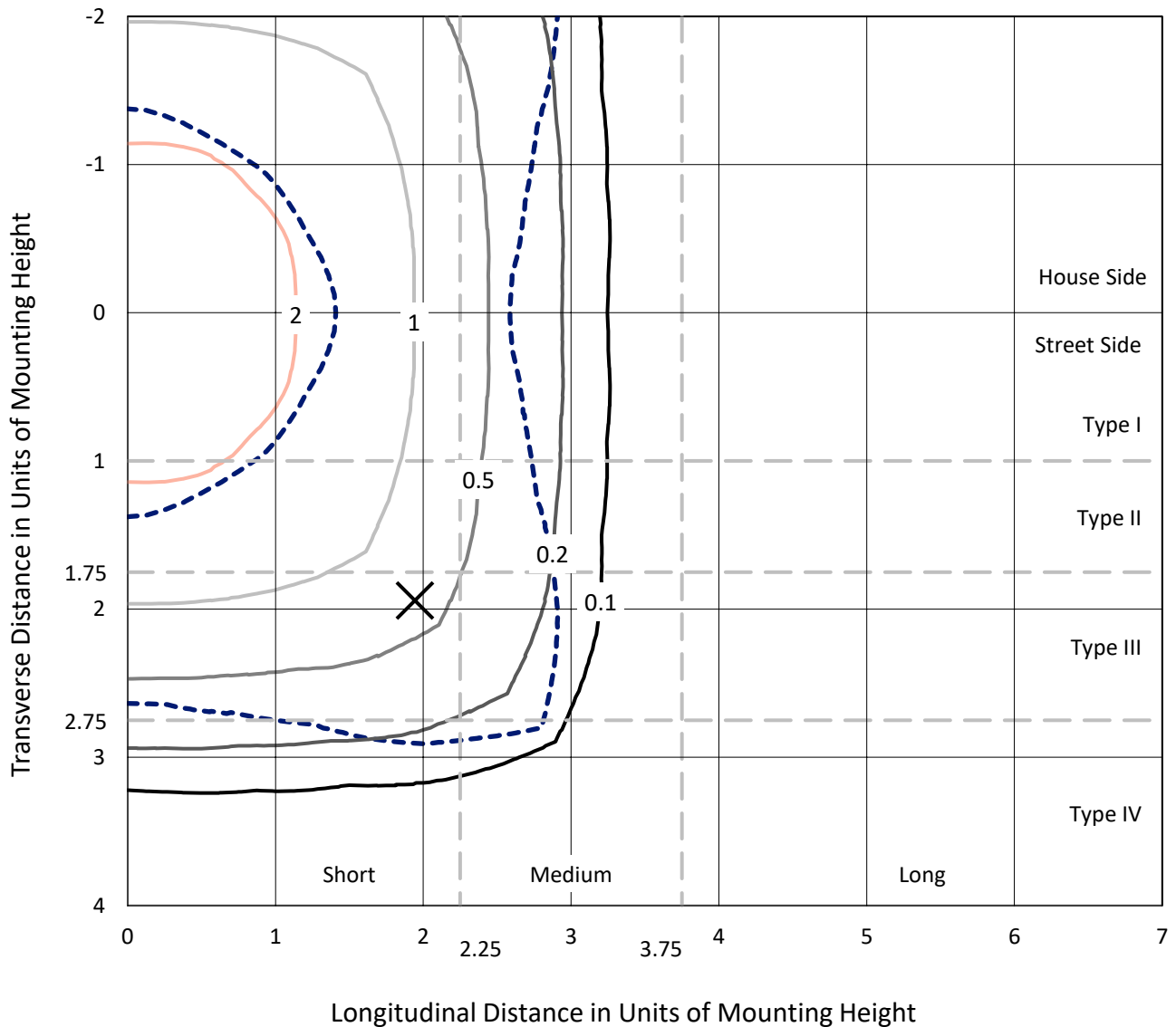
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

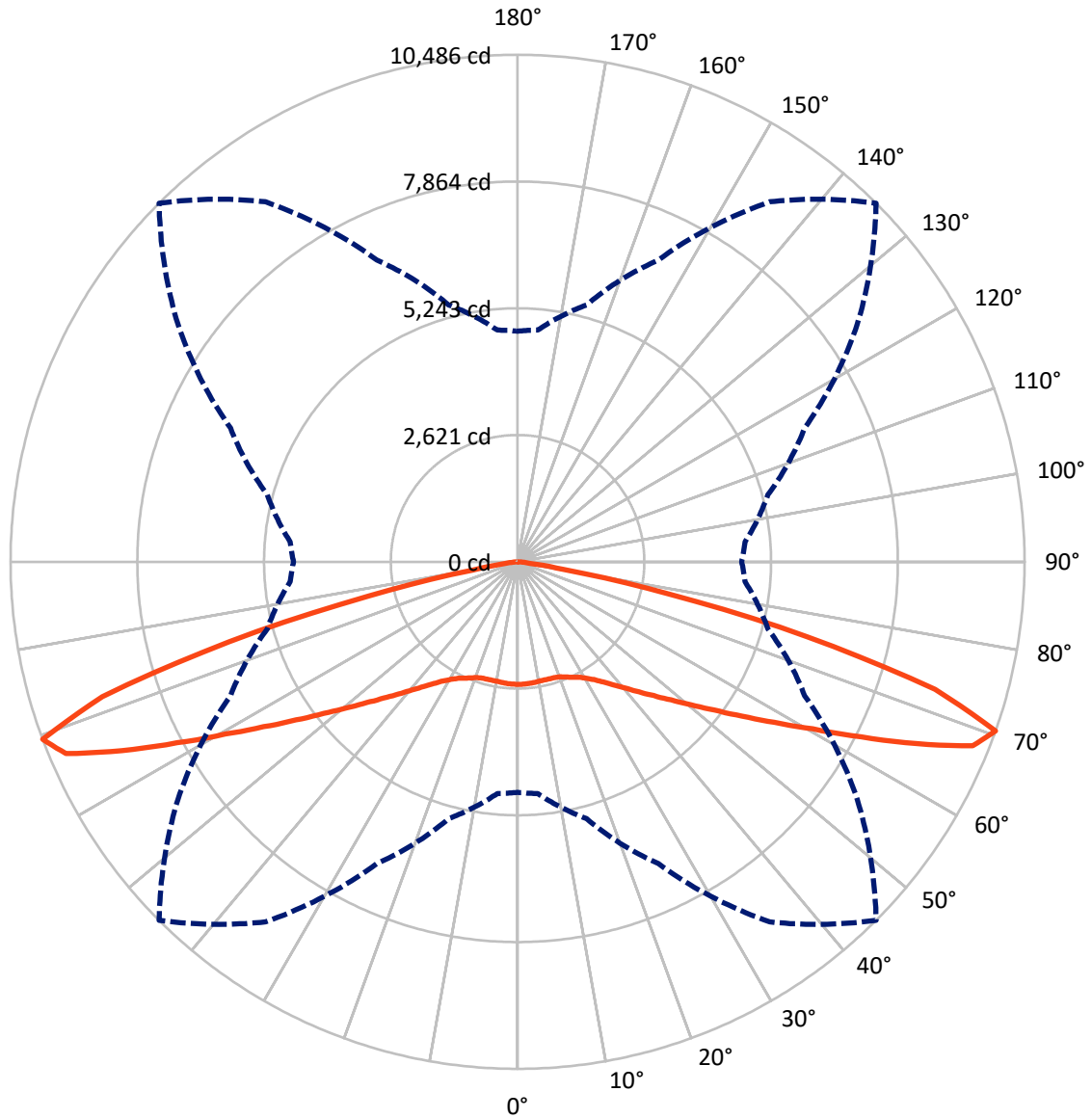
× Max cd
 - - - 1/2 Max cd



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 70-Deg Vertical

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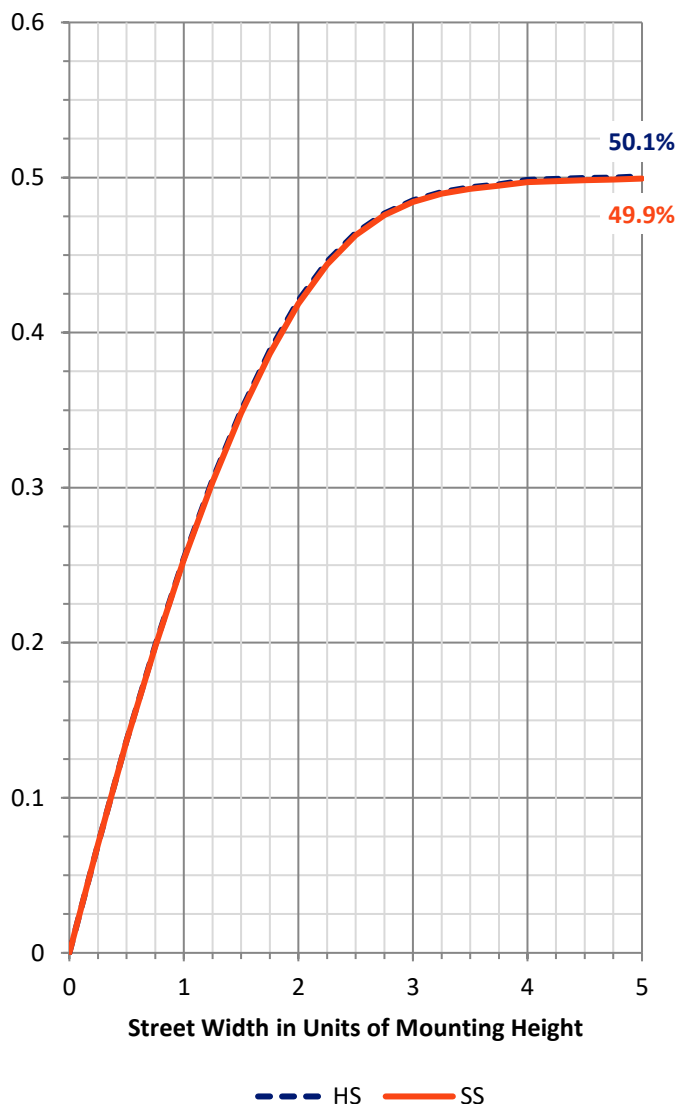
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11419.7	0.0	11419.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11419.7	0.0	11419.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	22839.3	0.0	22839.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.5	1.1
10°-20°	705.7	3.1
20°-30°	1207.0	5.3
30°-40°	1915.8	8.4
40°-50°	3090.7	13.5
50°-60°	5028.7	22.0
60°-70°	7289.8	31.9
70°-80°	3233.5	14.2
80°-90°	127.5	0.6
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°	22839.3	100.0
0°-180°	22839.3	100.0

Coefficient of Utilization



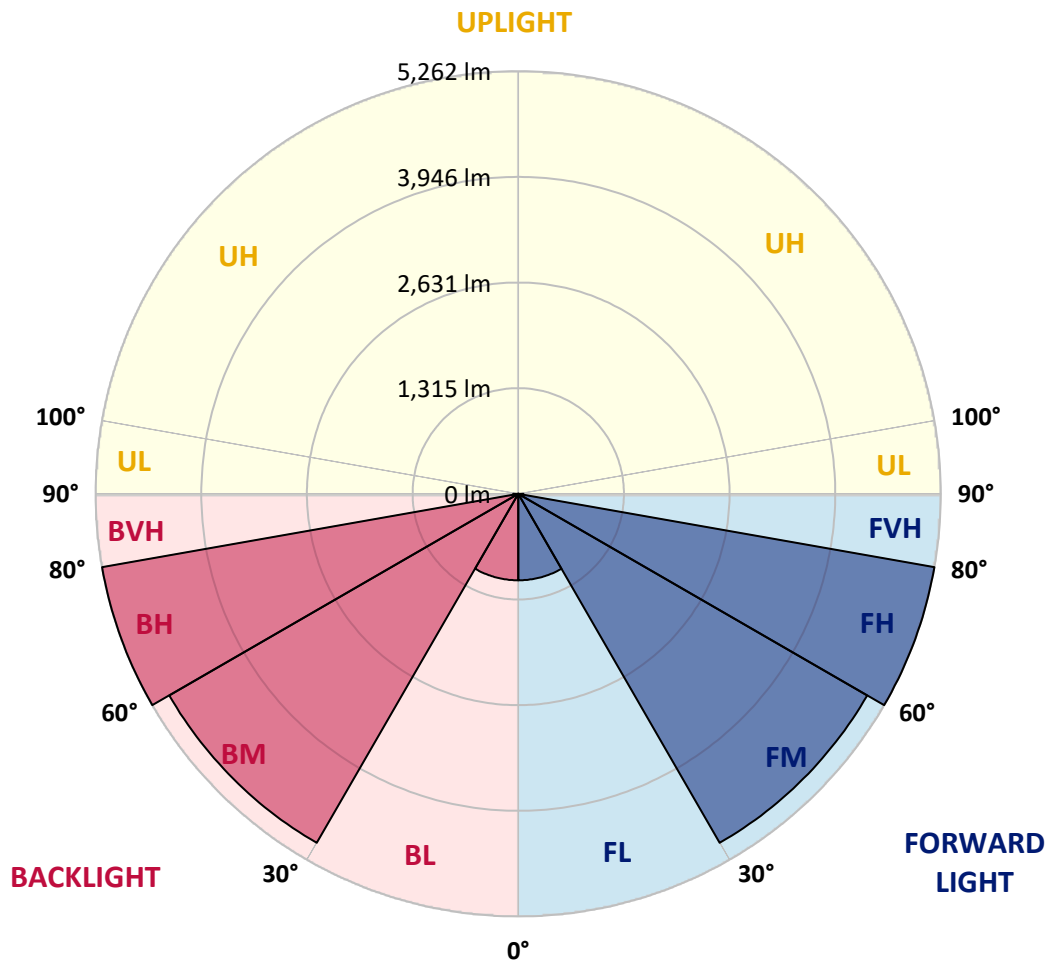
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1076.6	4.7			
FM (30°-60°)	5017.6	22.0			
FH (60°-80°)	5261.6	23.0			G3/7500
FVH (80°-90°)	63.8	0.3			G1/100
BL (0°-30°)	1076.6	4.7	B3/2500		
BM (30°-60°)	5017.6	22.0	B4/8500		
BH (60°-80°)	5261.6	23.0	B5		G3/7500
BVH (80°-90°)	63.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2536.2	2536.2	2536.2	2536.2	2536.2	2536.2	2536.2	2536.2	2536.2	2536.2	2536.2
2.5°	2536.2	2538.6	2535.0	2532.6	2531.4	2531.4	2530.2	2531.4	2538.6	2539.8	2536.2
5°	2529.0	2531.4	2530.2	2527.8	2526.6	2526.6	2525.3	2524.2	2530.2	2532.6	2531.4
7.5°	2519.4	2520.6	2519.4	2518.1	2519.4	2518.1	2514.5	2512.1	2517.0	2517.0	2515.7
10°	2502.5	2504.9	2503.7	2504.9	2507.3	2507.3	2502.5	2497.7	2498.9	2496.4	2496.4
12.5°	2482.0	2485.6	2486.9	2491.7	2497.7	2504.9	2494.1	2483.2	2480.9	2479.6	2478.4
15°	2468.8	2472.4	2477.3	2482.0	2492.8	2508.5	2492.8	2476.0	2471.2	2466.4	2463.9
17.5°	2465.2	2470.0	2477.3	2484.5	2498.9	2514.5	2501.3	2484.5	2472.4	2465.2	2462.8
20°	2474.8	2478.4	2489.2	2502.5	2523.0	2538.6	2525.3	2507.3	2489.2	2478.4	2474.8
22.5°	2494.1	2500.1	2513.4	2537.4	2566.3	2589.1	2571.1	2541.0	2512.1	2497.7	2492.8
25°	2536.2	2541.0	2556.7	2589.1	2622.9	2644.5	2625.2	2590.4	2550.6	2531.4	2525.3
27.5°	2600.0	2607.2	2624.1	2662.6	2690.3	2702.3	2689.1	2665.0	2636.1	2615.6	2610.8
30°	2690.3	2698.7	2724.0	2764.9	2782.9	2790.1	2784.2	2768.5	2748.0	2726.4	2721.6
32.5°	2811.8	2816.7	2845.6	2884.1	2900.9	2903.4	2896.1	2888.9	2855.2	2819.0	2816.7
35°	2947.8	2956.3	2991.2	3036.9	3052.6	3053.8	3039.4	3028.5	2988.8	2959.9	2959.9
37.5°	3128.4	3132.0	3165.7	3217.5	3234.3	3229.6	3222.3	3212.6	3170.5	3133.3	3134.4
40°	3340.3	3347.5	3376.4	3436.6	3436.6	3430.6	3435.3	3428.1	3386.0	3349.9	3351.1
42.5°	3591.9	3595.5	3630.4	3694.2	3689.3	3677.3	3682.1	3672.5	3646.0	3605.1	3590.7
45°	3860.3	3874.8	3934.9	3996.3	3986.6	3948.1	3967.4	3965.0	3940.9	3879.5	3883.1
47.5°	4184.0	4208.2	4265.9	4339.3	4328.5	4268.3	4290.0	4304.5	4270.7	4203.3	4191.3
50°	4548.8	4564.4	4649.9	4718.5	4708.9	4645.1	4694.4	4696.8	4612.6	4517.5	4517.5
52.5°	4937.6	4953.3	5068.8	5175.9	5182.0	5089.3	5129.0	5126.5	4989.4	4864.2	4840.1
55°	5373.3	5380.5	5529.8	5687.5	5721.2	5630.9	5635.7	5587.6	5409.4	5263.8	5250.6
57.5°	5823.5	5850.0	6014.9	6219.5	6319.4	6264.1	6238.8	6110.0	5937.9	5770.6	5762.1
60°	6321.9	6323.0	6537.3	6779.2	6981.5	7018.8	6915.3	6743.1	6520.4	6299.0	6289.4
62.5°	6667.3	6719.1	6989.9	7399.2	7761.5	7970.9	7697.7	7336.6	6898.4	6540.9	6504.8
65°	6738.3	6773.3	7186.1	7879.4	8619.7	9071.1	8439.2	7671.2	6923.7	6447.1	6422.9
67.5°	6164.2	6201.4	6757.6	7821.6	9221.5	10147.2	8920.6	7509.9	6495.1	5905.4	5858.4
70°	4767.8	4810.0	5497.3	6885.2	9088.0	10485.5	8577.6	6550.6	5356.5	4719.7	4634.3
72.5°	2535.0	2690.3	3277.7	4725.7	7376.3	9027.8	7033.2	4779.9	3454.6	2823.9	2710.7
75°	925.7	944.9	1272.3	2095.6	4291.2	6190.6	4456.1	2279.8	1310.8	1012.3	960.6
77.5°	382.8	381.6	418.9	633.1	1558.8	3170.5	1739.4	669.2	417.7	386.4	381.6
80°	226.3	226.3	249.2	263.6	410.4	956.9	458.6	298.5	250.4	228.7	232.3
82.5°	101.1	107.1	157.7	166.1	198.6	262.4	221.5	190.2	163.7	113.1	102.3
85°	55.4	48.2	83.1	86.7	95.1	97.5	104.7	103.5	95.1	55.4	56.6
87.5°	10.8	13.2	24.0	18.1	20.4	18.1	24.0	33.7	34.9	19.3	15.7
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)