

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: P648358

Luminaire Tested: **GALN-SA4B-835-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648358
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-835-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18394.2 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

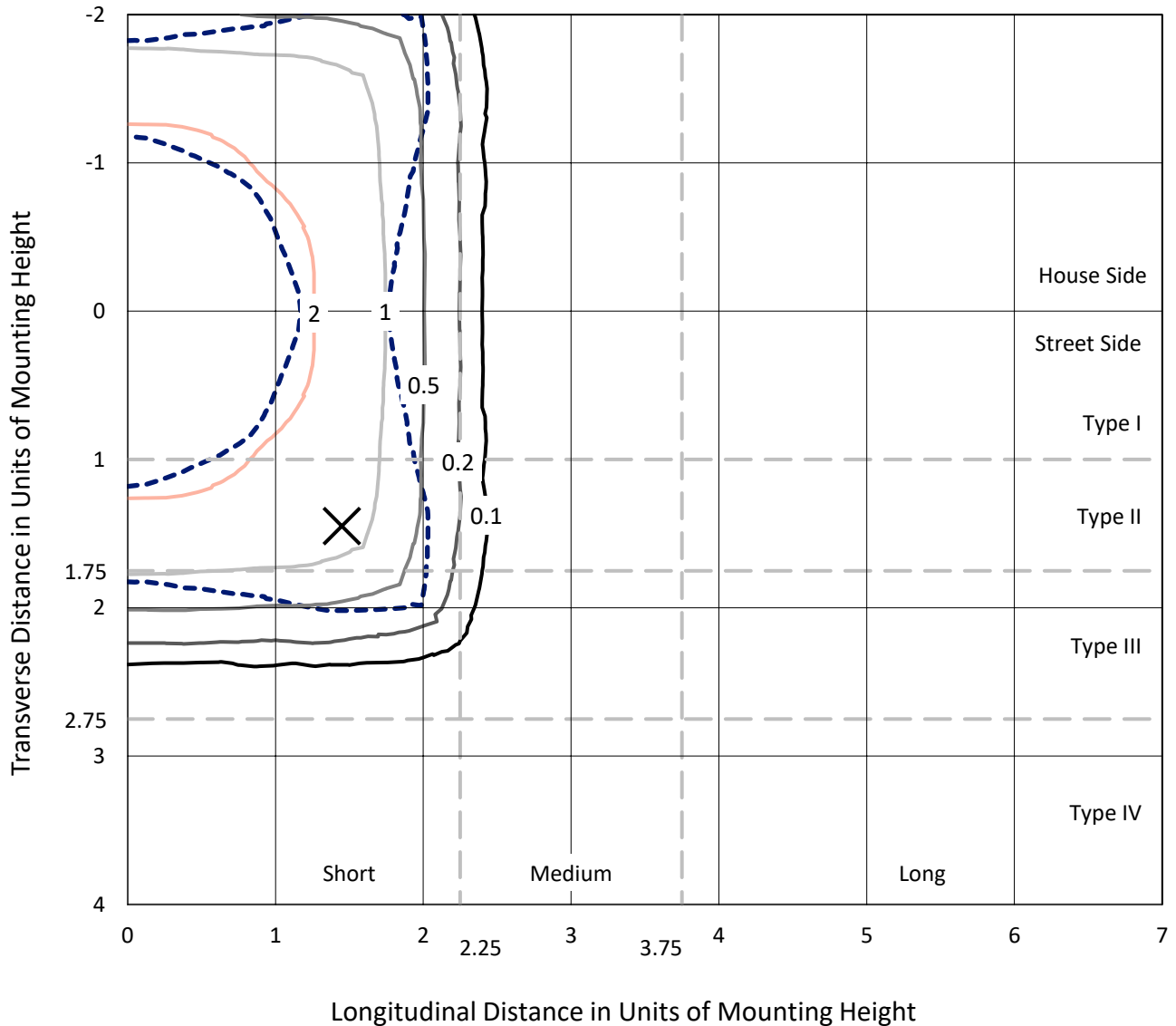
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

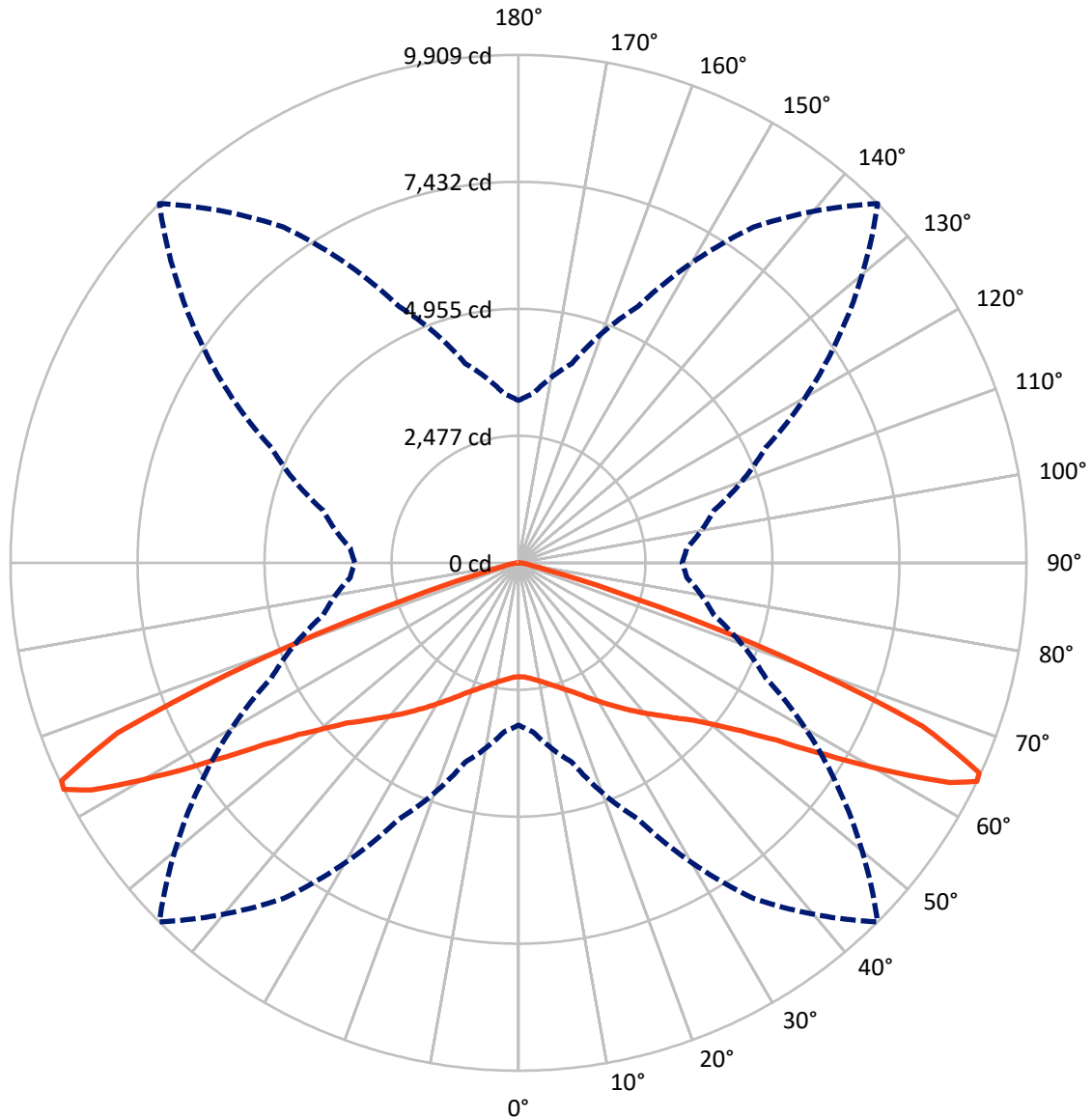
× Max cd
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9197.1	0.0	9197.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9197.1	0.0	9197.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	18394.2	0.0	18394.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.4	1.2
10°-20°	704.5	3.8
20°-30°	1331.4	7.2
30°-40°	2204.9	12.0
40°-50°	3442.2	18.7
50°-60°	5321.6	28.9
60°-70°	4588.8	24.9
70°-80°	520.0	2.8
80°-90°	62.3	0.3
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°	18394.2	100.0
0°-180°	18394.2	100.0

Coefficient of Utilization



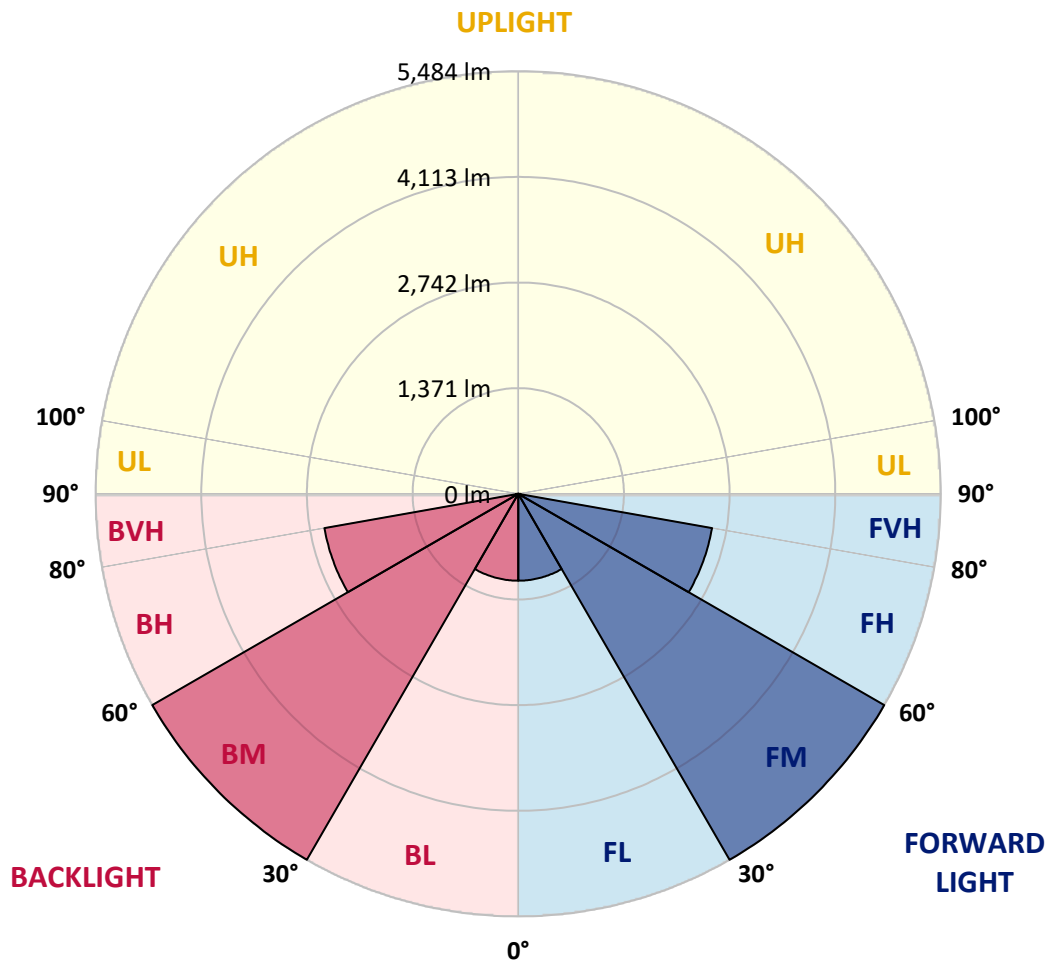
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1127.2	6.1			
FM (30°-60°)	5484.4	29.8			
FH (60°-80°)	2554.4	13.9			G2/5000
FVH (80°-90°)	31.1	0.2			G1/100
BL (0°-30°)	1127.2	6.1	B3/2500		
BM (30°-60°)	5484.4	29.8	B4/8500		
BH (60°-80°)	2554.4	13.9	B4/5000		G2/5000
BVH (80°-90°)	31.1	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-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2223.3	2223.3	2223.3	2223.3	2223.3	2223.3	2223.3	2223.3	2223.3	2223.3	2223.3
2.5°	2232.0	2236.9	2233.0	2232.0	2231.1	2231.1	2231.1	2232.0	2235.9	2238.8	2236.9
5°	2260.3	2264.2	2262.2	2261.2	2260.3	2261.2	2259.3	2258.3	2261.2	2261.2	2260.3
7.5°	2295.4	2300.2	2298.3	2300.2	2301.2	2302.2	2297.3	2293.4	2292.4	2295.4	2293.4
10°	2343.0	2347.0	2348.0	2348.9	2350.9	2349.9	2344.1	2337.3	2336.2	2335.3	2334.3
12.5°	2396.7	2399.6	2400.6	2404.4	2407.4	2408.4	2401.5	2395.7	2386.0	2387.9	2384.0
15°	2457.1	2462.9	2461.9	2467.8	2475.6	2477.6	2470.7	2461.0	2452.2	2447.3	2444.4
17.5°	2531.1	2535.0	2533.1	2538.9	2548.7	2553.5	2547.6	2535.0	2526.3	2515.5	2509.7
20°	2618.8	2625.6	2627.6	2627.6	2636.4	2641.2	2632.4	2628.5	2614.9	2607.1	2602.2
22.5°	2718.2	2721.1	2727.0	2732.8	2741.5	2739.6	2736.7	2730.9	2718.2	2711.4	2703.5
25°	2830.2	2833.1	2847.8	2860.4	2863.4	2861.4	2857.5	2854.6	2842.9	2827.3	2821.5
27.5°	2960.8	2966.6	2986.1	2997.8	2997.8	2998.7	2991.0	3000.7	2975.4	2956.8	2954.9
30°	3124.4	3128.3	3144.9	3156.6	3150.7	3145.9	3143.9	3153.7	3126.4	3093.2	3085.5
32.5°	3286.2	3299.8	3314.4	3339.7	3319.3	3310.5	3308.6	3315.4	3284.2	3247.2	3236.5
35°	3459.6	3469.3	3496.6	3518.0	3499.5	3479.1	3487.9	3509.2	3472.2	3422.6	3420.6
37.5°	3651.5	3660.3	3695.4	3717.8	3704.1	3669.1	3683.7	3709.0	3672.0	3610.6	3598.0
40°	3851.3	3869.7	3913.6	3937.0	3914.5	3867.8	3895.1	3922.4	3889.2	3818.1	3789.9
42.5°	4075.3	4104.6	4167.8	4179.6	4136.7	4073.4	4121.1	4164.9	4141.6	4059.7	4049.0
45°	4337.4	4354.9	4432.9	4458.2	4398.7	4319.9	4379.3	4459.2	4441.6	4347.1	4326.7
47.5°	4630.7	4647.2	4728.1	4766.0	4691.0	4584.9	4692.0	4796.3	4785.5	4684.2	4674.5
50°	4977.5	4981.4	5093.4	5136.2	5061.2	4969.7	5065.1	5194.7	5151.9	5022.3	5020.4
52.5°	5357.4	5362.3	5503.6	5586.4	5544.5	5441.2	5554.2	5633.1	5524.1	5354.5	5341.9
55°	5686.8	5711.1	5904.0	6124.2	6181.6	6106.6	6140.8	6103.7	5834.8	5597.1	5560.1
57.5°	5821.2	5868.9	6162.1	6573.3	6947.4	7058.5	6795.4	6442.8	5958.6	5622.4	5586.4
60°	5492.8	5544.5	5999.5	6779.8	7734.6	8216.9	7477.4	6500.2	5677.0	5204.4	5148.0
62.5°	4398.7	4413.4	5082.7	6293.7	8193.5	9442.5	7764.9	6010.2	4857.7	4215.6	4193.2
64°	3165.4	3315.4	4024.6	5518.2	7992.8	9909.2	7599.2	5323.3	3945.8	3295.9	3190.7
65°	2367.5	2408.4	3244.3	4712.5	7639.1	9874.1	7277.7	4666.7	3267.7	2522.4	2405.5
67.5°	894.3	899.3	1197.4	2348.9	5438.3	8495.6	5554.2	2538.9	1376.6	995.7	959.6
70°	371.2	378.0	439.4	790.1	2337.3	5454.8	2678.3	915.8	503.7	408.2	402.4
72.5°	271.8	275.7	294.3	350.7	719.0	2239.8	880.7	388.8	295.2	264.0	261.1
75°	213.4	215.3	228.9	258.2	335.1	620.6	366.3	266.9	225.0	202.6	200.7
77.5°	162.7	167.6	177.3	196.8	225.0	294.3	242.6	199.7	173.4	154.9	152.0
80°	112.0	117.9	136.4	144.2	151.0	191.0	165.6	151.0	135.5	113.0	106.2
82.5°	69.1	73.1	91.6	98.4	95.4	107.2	106.2	108.1	96.5	70.2	65.3
85°	36.0	38.0	49.7	51.6	47.8	43.8	54.6	63.3	59.4	39.9	39.0
87.5°	7.8	8.8	10.7	9.7	10.7	10.7	13.6	20.4	21.5	13.6	12.7
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)