

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: P458890

Luminaire Tested: **GALN-SA4B-735-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458890
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-SA4B-735-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21993 lumens
Efficiency: N/A
Efficacy: 134.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

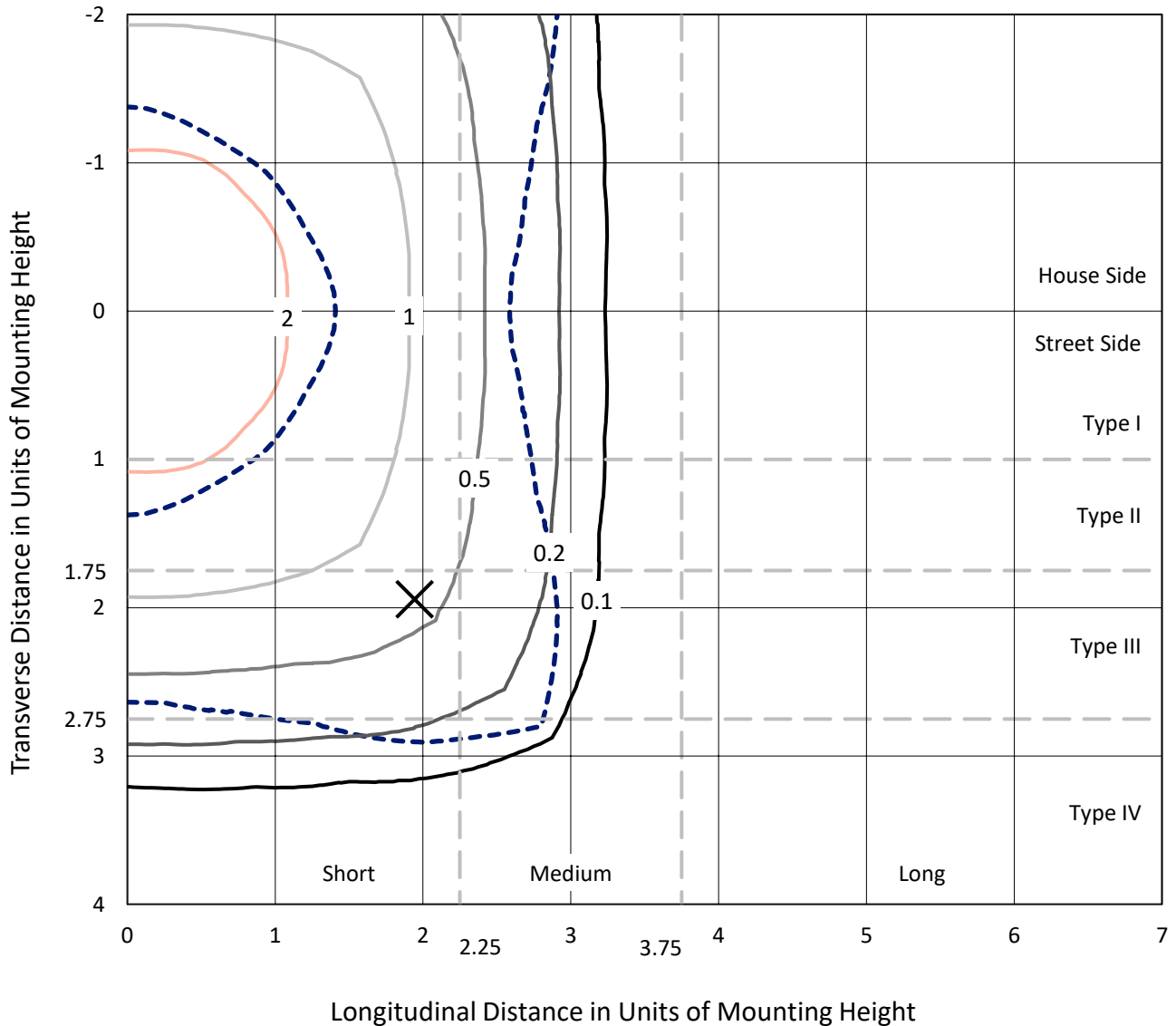
Input Watts (W): 164
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

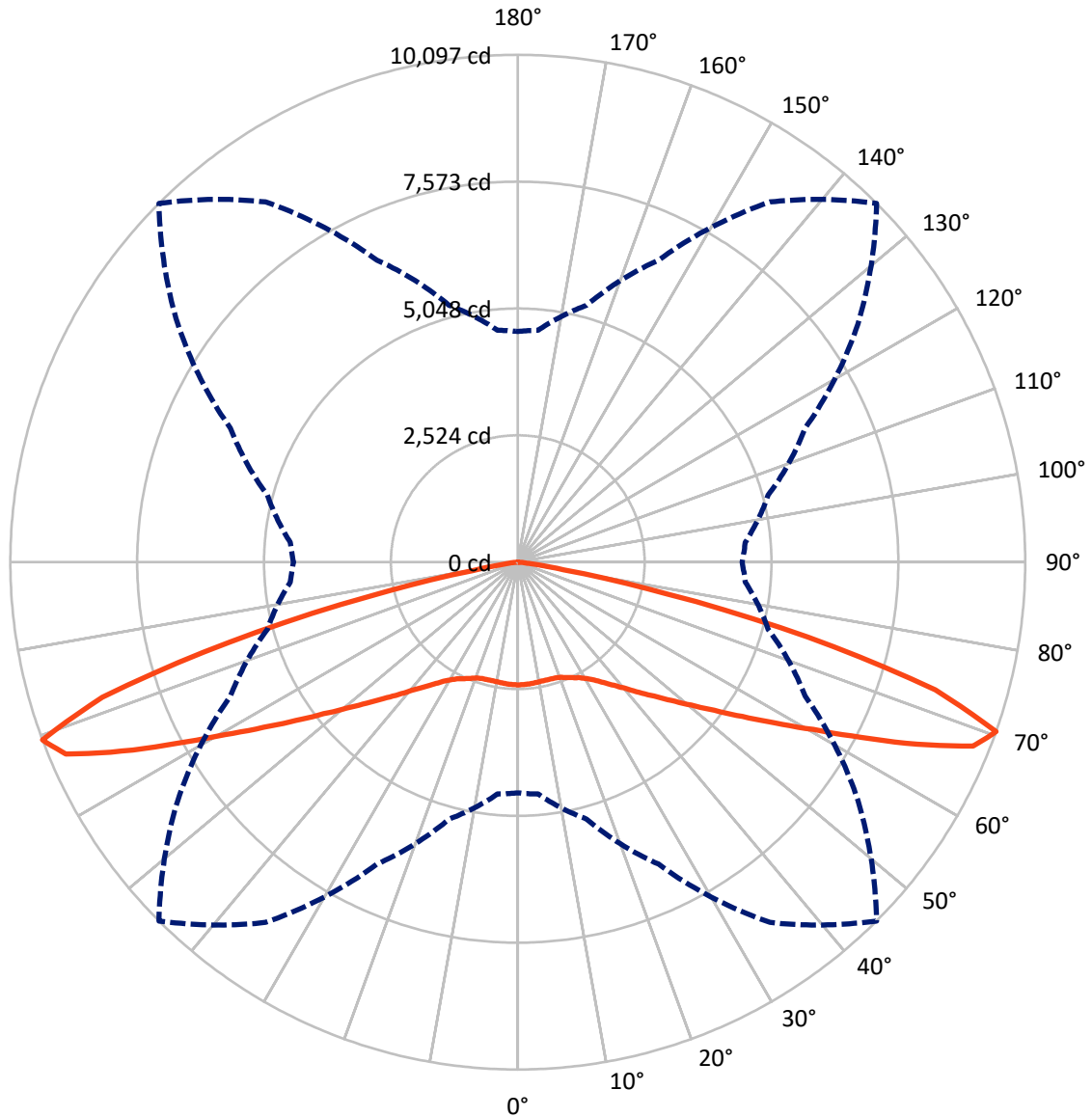
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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	10996.5	0.0	10996.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10996.5	0.0	10996.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	21993.0	0.0	21993.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.6	1.1
10°-20°	679.6	3.1
20°-30°	1162.3	5.3
30°-40°	1844.8	8.4
40°-50°	2976.2	13.5
50°-60°	4842.3	22.0
60°-70°	7019.7	31.9
70°-80°	3113.7	14.2
80°-90°	122.8	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°	21993.0	100.0
0°-180°	21993.0	100.0

Coefficient of Utilization



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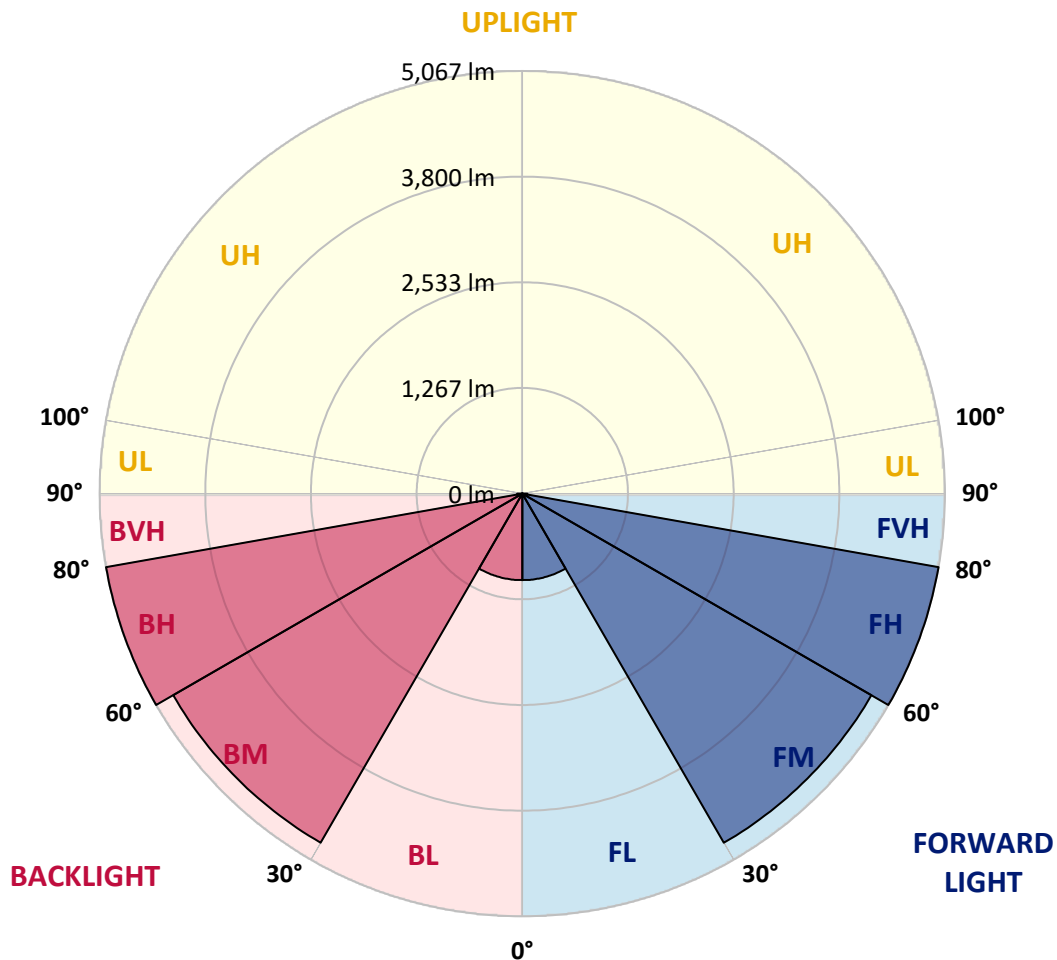
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1036.7	4.7			
FM (30°-60°)	4831.7	22.0			
FH (60°-80°)	5066.7	23.0			G3/7500
FVH (80°-90°)	61.4	0.3			G1/100
BL (0°-30°)	1036.7	4.7	B3/2500		
BM (30°-60°)	4831.7	22.0	B3/5000		
BH (60°-80°)	5066.7	23.0	B5		G3/7500
BVH (80°-90°)	61.4	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°	2442.2	2442.2	2442.2	2442.2	2442.2	2442.2	2442.2	2442.2	2442.2	2442.2	2442.2
2.5°	2442.2	2444.5	2441.1	2438.7	2437.6	2437.6	2436.4	2437.6	2444.5	2445.7	2442.2
5°	2435.3	2437.6	2436.4	2434.1	2432.9	2432.9	2431.8	2430.6	2436.4	2438.7	2437.6
7.5°	2426.0	2427.2	2426.0	2424.8	2426.0	2424.8	2421.4	2419.0	2423.7	2423.7	2422.5
10°	2409.8	2412.1	2410.9	2412.1	2414.4	2414.4	2409.8	2405.1	2406.3	2404.0	2404.0
12.5°	2390.1	2393.5	2394.7	2399.3	2405.1	2412.1	2401.7	2391.2	2388.9	2387.7	2386.6
15°	2377.3	2380.8	2385.4	2390.1	2400.5	2415.6	2400.5	2384.3	2379.6	2375.0	2372.7
17.5°	2373.8	2378.5	2385.4	2392.4	2406.3	2421.4	2408.6	2392.4	2380.8	2373.8	2371.5
20°	2383.1	2386.6	2397.0	2409.8	2429.5	2444.5	2431.8	2414.4	2397.0	2386.6	2383.1
22.5°	2401.7	2407.4	2420.2	2443.4	2471.2	2493.2	2475.8	2446.9	2419.0	2405.1	2400.5
25°	2442.2	2446.9	2461.9	2493.2	2525.7	2546.5	2528.0	2494.4	2456.1	2437.6	2431.8
27.5°	2503.7	2510.6	2526.8	2563.9	2590.6	2602.2	2589.4	2566.2	2538.4	2518.7	2514.1
30°	2590.6	2598.7	2623.0	2662.4	2679.8	2686.8	2681.0	2665.9	2646.2	2625.4	2620.7
32.5°	2707.7	2712.3	2740.1	2777.2	2793.4	2795.7	2788.8	2781.8	2749.4	2714.6	2712.3
35°	2838.6	2846.7	2880.4	2924.4	2939.5	2940.6	2926.7	2916.3	2878.0	2850.2	2850.2
37.5°	3012.5	3016.0	3048.4	3098.3	3114.5	3109.9	3102.9	3093.6	3053.1	3017.1	3018.3
40°	3216.5	3223.5	3251.3	3309.2	3309.2	3303.4	3308.1	3301.1	3260.5	3225.8	3226.9
42.5°	3458.7	3462.2	3495.8	3557.3	3552.6	3541.0	3545.7	3536.4	3510.9	3471.5	3457.6
45°	3717.2	3731.1	3789.1	3848.2	3838.9	3801.8	3820.4	3818.1	3794.9	3735.8	3739.2
47.5°	4029.0	4052.2	4107.8	4178.5	4168.1	4110.2	4131.0	4144.9	4112.5	4047.6	4036.0
50°	4380.2	4395.3	4477.6	4543.7	4534.4	4473.0	4520.5	4522.8	4441.7	4350.1	4350.1
52.5°	4754.6	4769.7	4881.0	4984.1	4989.9	4900.7	4938.9	4936.6	4804.5	4683.9	4660.7
55°	5174.2	5181.2	5324.9	5476.7	5509.2	5422.3	5426.9	5380.5	5209.0	5068.7	5056.0
57.5°	5607.7	5633.2	5792.0	5989.1	6085.3	6031.9	6007.6	5883.6	5717.8	5556.7	5548.6
60°	6087.6	6088.7	6295.1	6528.0	6722.8	6758.7	6659.0	6493.3	6278.8	6065.6	6056.3
62.5°	6420.2	6470.1	6730.9	7125.0	7473.9	7675.5	7412.4	7064.7	6642.8	6298.5	6263.8
65°	6488.6	6522.2	6919.8	7587.5	8300.3	8735.0	8126.4	7386.9	6667.1	6208.1	6184.9
67.5°	5935.7	5971.7	6507.2	7531.8	8879.8	9771.2	8590.1	7231.6	6254.5	5686.5	5641.3
70°	4591.2	4631.8	5293.6	6630.0	8751.2	10096.9	8259.7	6307.8	5158.0	4544.8	4462.5
72.5°	2441.1	2590.6	3156.2	4550.6	7103.0	8693.2	6772.6	4602.8	3326.6	2719.2	2610.3
75°	891.3	909.9	1225.2	2018.0	4132.2	5961.2	4291.0	2195.3	1262.3	974.8	925.0
77.5°	368.6	367.4	403.4	609.7	1501.0	3053.1	1674.9	644.5	402.2	372.1	367.4
80°	217.9	217.9	239.9	253.8	395.3	921.5	441.6	287.5	241.1	220.2	223.7
82.5°	97.4	103.2	151.8	160.0	191.3	252.7	213.3	183.1	157.6	109.0	98.5
85°	53.3	46.4	80.0	83.5	91.6	93.9	100.8	99.7	91.6	53.3	54.5
87.5°	10.4	12.8	23.2	17.4	19.7	17.4	23.2	32.5	33.6	18.5	15.1
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)