

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: P648299

Luminaire Tested: **GALN-SA3B-835-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648299
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3B-835-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11740.3 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

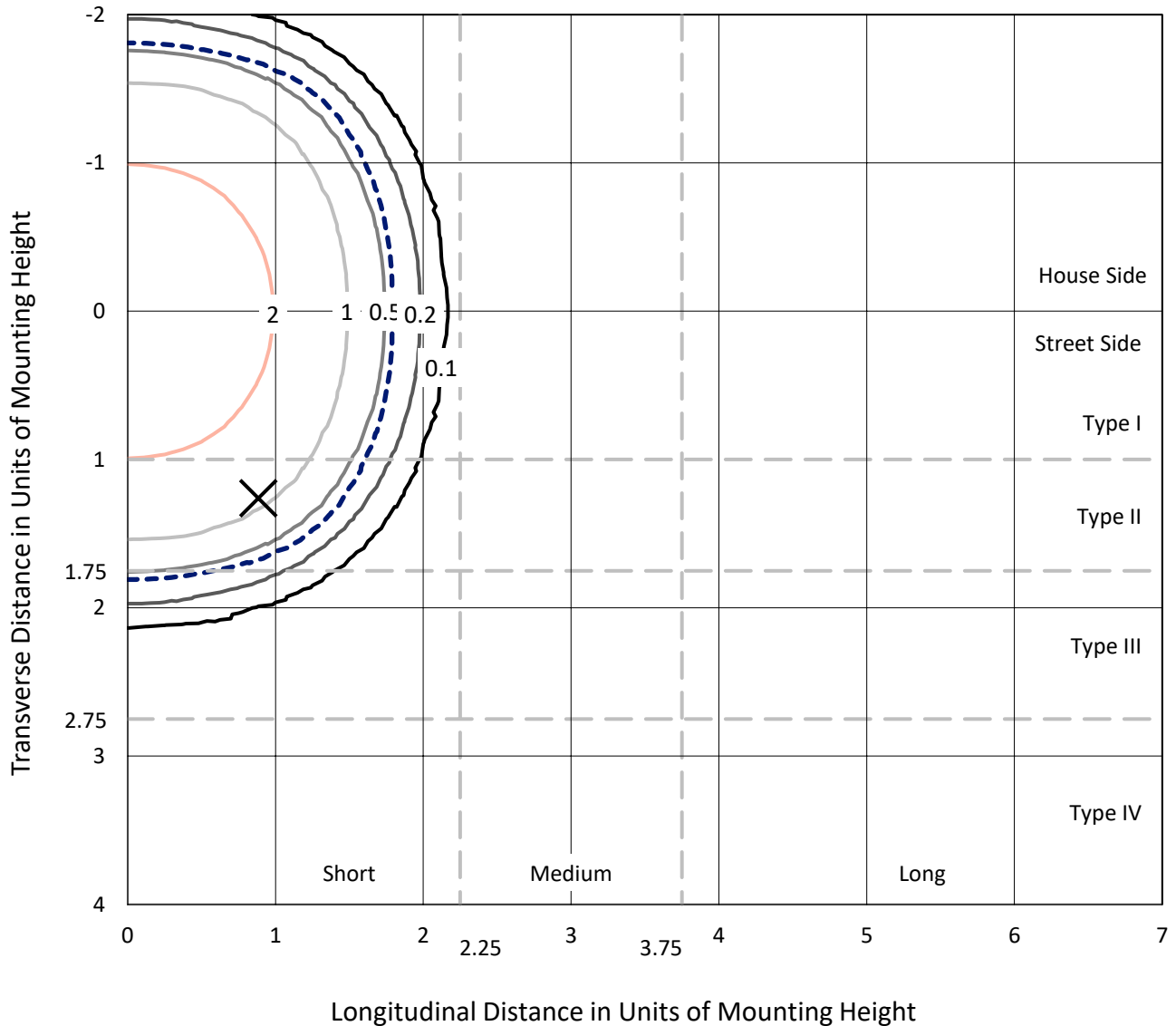
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

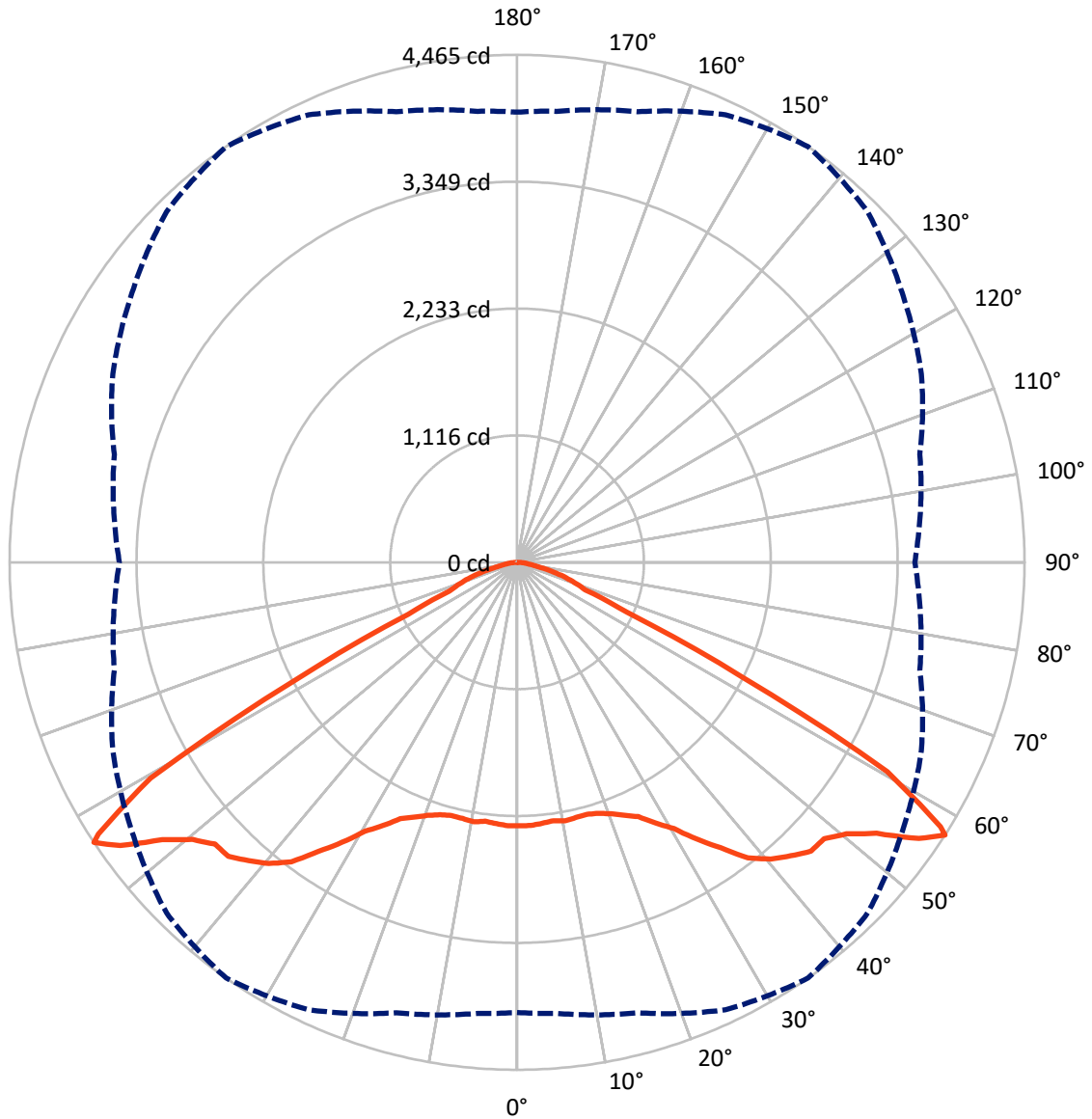
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5870.1	0.0	5870.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5870.1	0.0	5870.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	11740.3	0.0	11740.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.8	1.9
10°-20°	651.0	5.5
20°-30°	1137.0	9.7
30°-40°	1863.0	15.9
40°-50°	2731.6	23.3
50°-60°	3440.7	29.3
60°-70°	1294.0	11.0
70°-80°	344.1	2.9
80°-90°	59.0	0.5
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°	11740.3	100.0
0°-180°	11740.3	100.0

Coefficient of Utilization



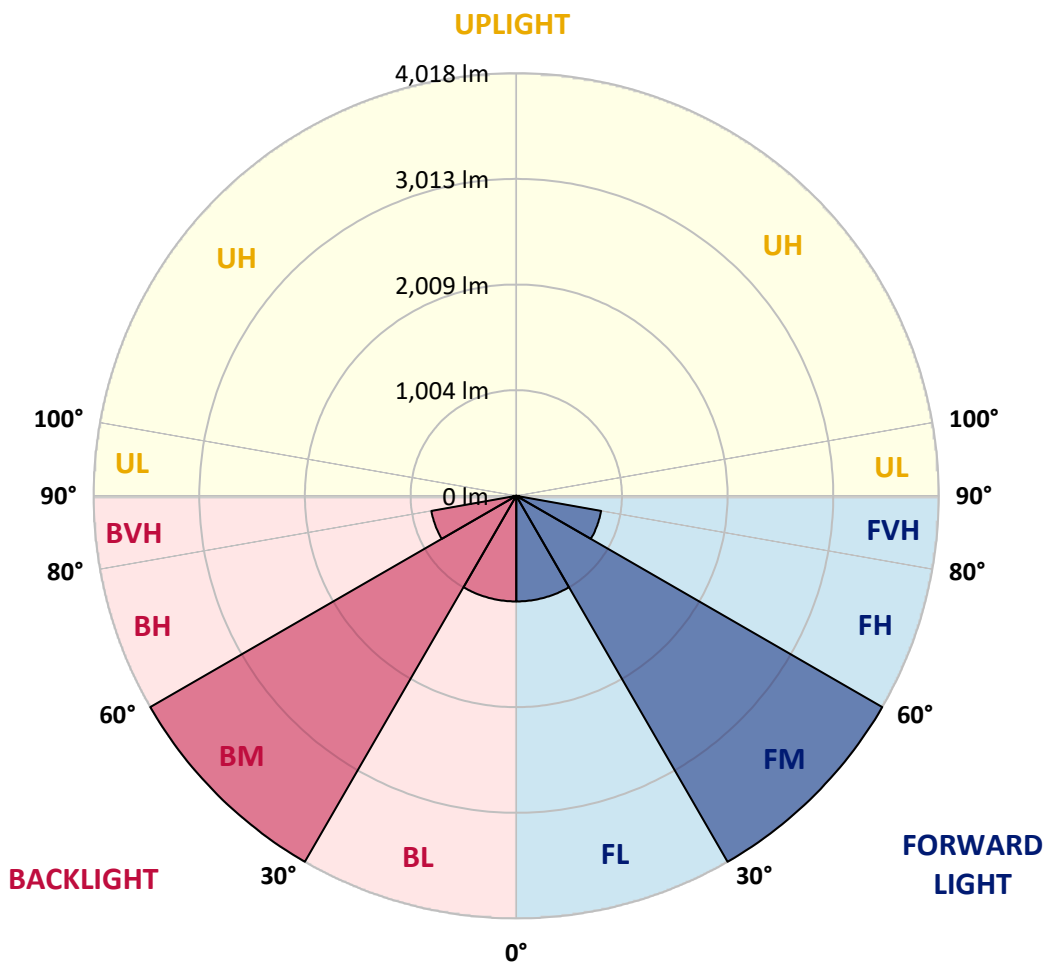
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1003.9	8.6			
FM (30°-60°)	4017.7	34.2			
FH (60°-80°)	819.0	7.0			G1/1800
FVH (80°-90°)	29.5	0.3			G1/100
BL (0°-30°)	1003.9	8.6	B3/2500		
BM (30°-60°)	4017.7	34.2	B3/5000		
BH (60°-80°)	819.0	7.0	B2/1000		G1/1800
BVH (80°-90°)	29.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2318.6	2318.6	2318.6	2318.6	2318.6	2318.6	2318.6	2318.6	2318.6	2318.6	2318.6
2.5°	2307.0	2330.2	2320.1	2314.3	2318.6	2311.4	2299.8	2312.8	2309.9	2298.3	2294.0
5°	2301.2	2318.6	2307.0	2318.6	2307.0	2327.3	2321.5	2299.8	2325.8	2301.2	2309.9
7.5°	2296.9	2302.7	2305.6	2299.8	2295.4	2320.1	2307.0	2296.9	2282.4	2278.1	2285.3
10°	2286.8	2301.2	2279.5	2308.5	2314.3	2296.9	2296.9	2278.1	2266.6	2259.3	2283.9
12.5°	2312.8	2288.2	2285.3	2299.8	2304.1	2311.4	2291.1	2281.0	2259.3	2262.2	2257.9
15°	2282.4	2292.6	2294.0	2296.9	2301.2	2318.6	2299.8	2278.1	2269.4	2239.1	2242.0
17.5°	2294.0	2283.9	2294.0	2327.3	2321.5	2334.5	2314.3	2281.0	2260.8	2243.4	2266.6
20°	2314.3	2309.9	2314.3	2354.8	2362.0	2373.6	2356.2	2325.8	2286.8	2266.6	2278.1
22.5°	2336.0	2333.1	2336.0	2375.0	2417.0	2431.4	2414.1	2343.2	2322.9	2285.3	2272.3
25°	2375.0	2377.9	2408.3	2451.7	2479.2	2506.7	2474.8	2424.2	2359.1	2336.0	2308.5
27.5°	2461.8	2469.0	2486.4	2550.1	2597.8	2622.3	2577.6	2508.1	2467.6	2419.9	2412.7
30°	2568.9	2568.9	2599.2	2654.2	2719.3	2756.9	2701.9	2619.4	2570.3	2544.3	2528.4
32.5°	2710.6	2694.7	2706.3	2803.1	2904.5	2936.2	2862.5	2761.2	2683.1	2648.4	2636.8
35°	2832.1	2842.2	2868.3	2972.4	3085.3	3159.0	3043.3	2911.7	2832.1	2800.3	2794.5
37.5°	2989.7	3007.1	3020.1	3163.3	3299.3	3326.8	3215.4	3109.8	3012.9	2986.9	2972.4
40°	3212.5	3201.0	3205.3	3310.8	3433.8	3451.2	3341.2	3266.0	3186.5	3170.6	3170.6
42.5°	3396.2	3383.2	3397.7	3436.7	3530.7	3517.7	3456.9	3402.0	3368.7	3351.4	3368.7
45°	3507.6	3504.7	3530.7	3559.7	3626.2	3582.8	3535.1	3543.8	3511.9	3483.0	3481.5
47.5°	3629.0	3610.3	3642.1	3685.5	3634.8	3614.6	3611.7	3630.5	3620.4	3569.8	3553.9
50°	3688.4	3681.2	3731.8	3782.4	3755.0	3708.6	3718.8	3749.2	3618.9	3551.0	3511.9
52.5°	3847.5	3848.9	3945.9	3973.3	3961.7	3893.8	3915.5	3833.0	3679.7	3584.3	3588.6
55°	4097.8	4087.6	4196.1	4277.1	4290.1	4203.3	4099.2	3983.4	3791.1	3694.2	3665.2
57°	3960.3	3983.4	4103.5	4343.6	4465.1	4362.4	4135.3	3924.2	3668.1	3551.0	3498.9
57.5°	3776.6	3814.2	4022.5	4264.1	4391.4	4382.7	4090.5	3814.2	3585.7	3403.5	3407.8
60°	2767.0	2774.2	2962.2	3345.6	3743.4	3752.1	3396.2	3030.3	2775.7	2577.6	2605.0
62.5°	1459.4	1492.7	1568.0	1876.0	2220.3	2304.1	2088.7	1900.6	1680.8	1530.3	1544.8
65°	772.4	768.0	804.2	891.0	1060.3	1103.6	1074.7	925.7	849.1	824.5	825.9
67.5°	627.7	635.0	630.6	635.0	646.5	665.4	661.0	666.8	671.1	678.4	676.9
70°	532.3	532.3	535.2	536.6	536.6	545.3	555.5	574.3	575.7	582.9	585.8
72.5°	419.5	416.6	420.9	431.0	432.5	439.7	454.1	465.7	470.1	470.1	461.4
75°	284.9	287.8	293.6	302.3	311.0	324.0	335.6	342.8	345.7	341.4	337.0
77.5°	160.5	163.4	167.8	180.8	190.9	202.5	215.5	222.8	230.0	231.5	222.8
80°	95.4	95.4	102.7	112.8	124.4	135.9	147.5	156.2	159.1	159.1	154.8
82.5°	57.9	59.3	65.1	75.2	85.3	92.6	102.7	109.9	115.7	114.2	111.3
85°	30.4	30.4	36.2	44.9	52.1	59.3	59.3	55.0	52.1	44.9	42.0
87.5°	10.1	8.7	11.6	11.6	10.1	11.6	11.6	13.0	13.0	13.0	13.0
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)