

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: P529030

Luminaire Tested: **GALN-SA4A-830-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529030
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4A-830-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12949 lumens
Efficiency: N/A
Efficacy: 107.0 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



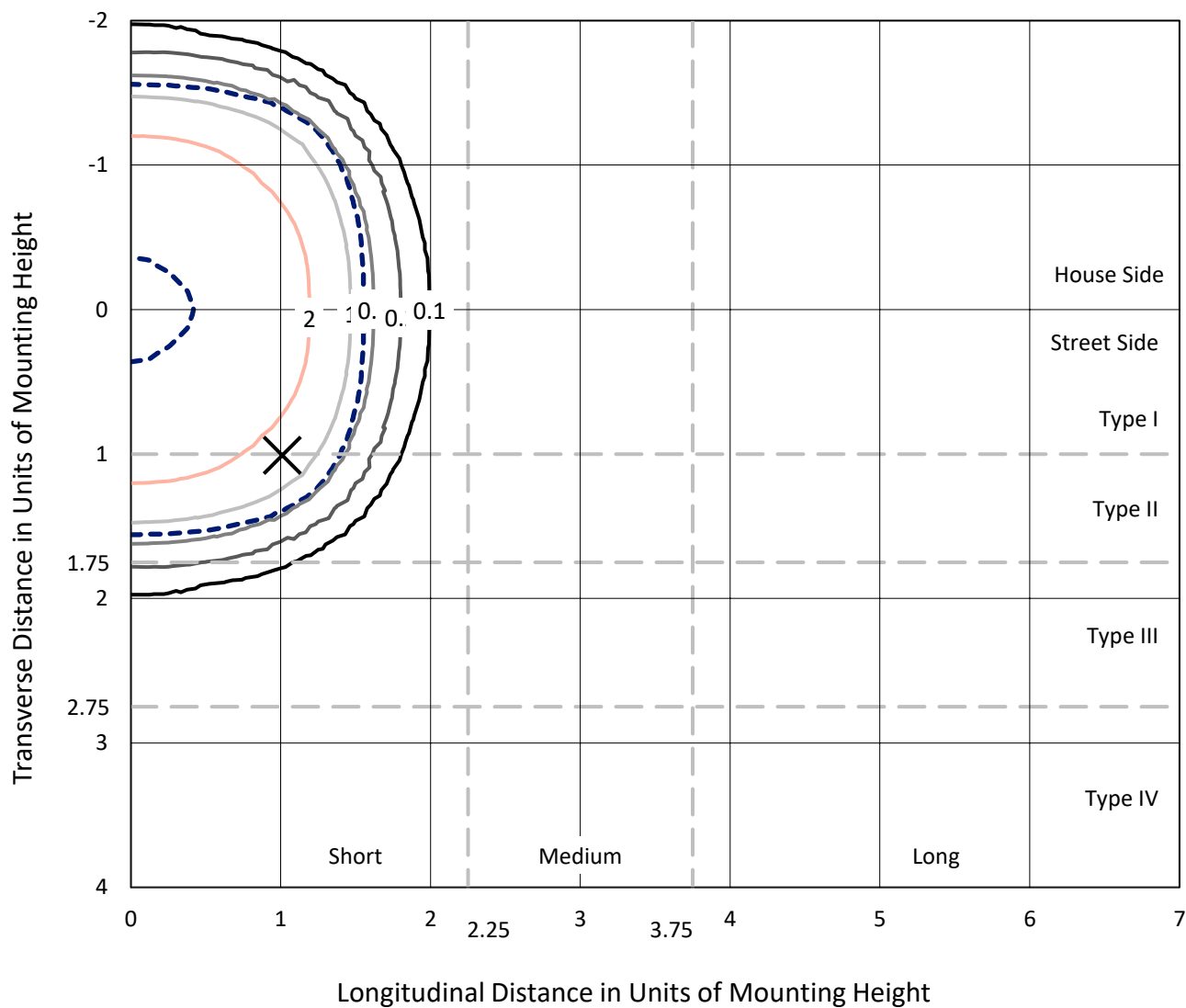
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

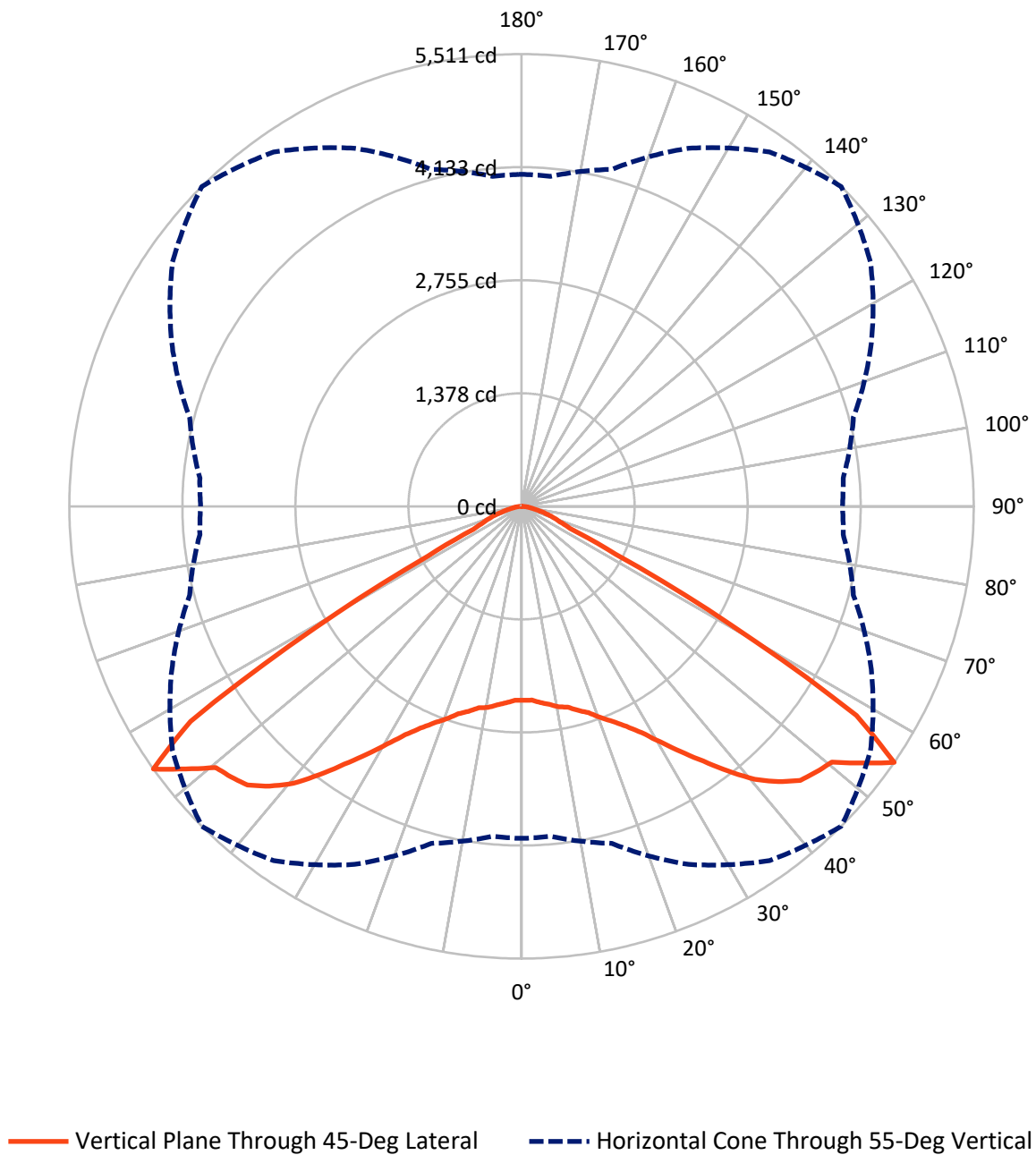


Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6474.5	0.0	6474.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6474.5	0.0	6474.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	12949.0	0.0	12949.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.0	1.8
10°-20°	731.8	5.7
20°-30°	1364.6	10.5
30°-40°	2284.8	17.6
40°-50°	3555.4	27.5
50°-60°	3691.6	28.5
60°-70°	782.9	6.0
70°-80°	257.8	2.0
80°-90°	49.1	0.4
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°	12949.0	100.0
0°-180°	12949.0	100.0

Coefficient of Utilization



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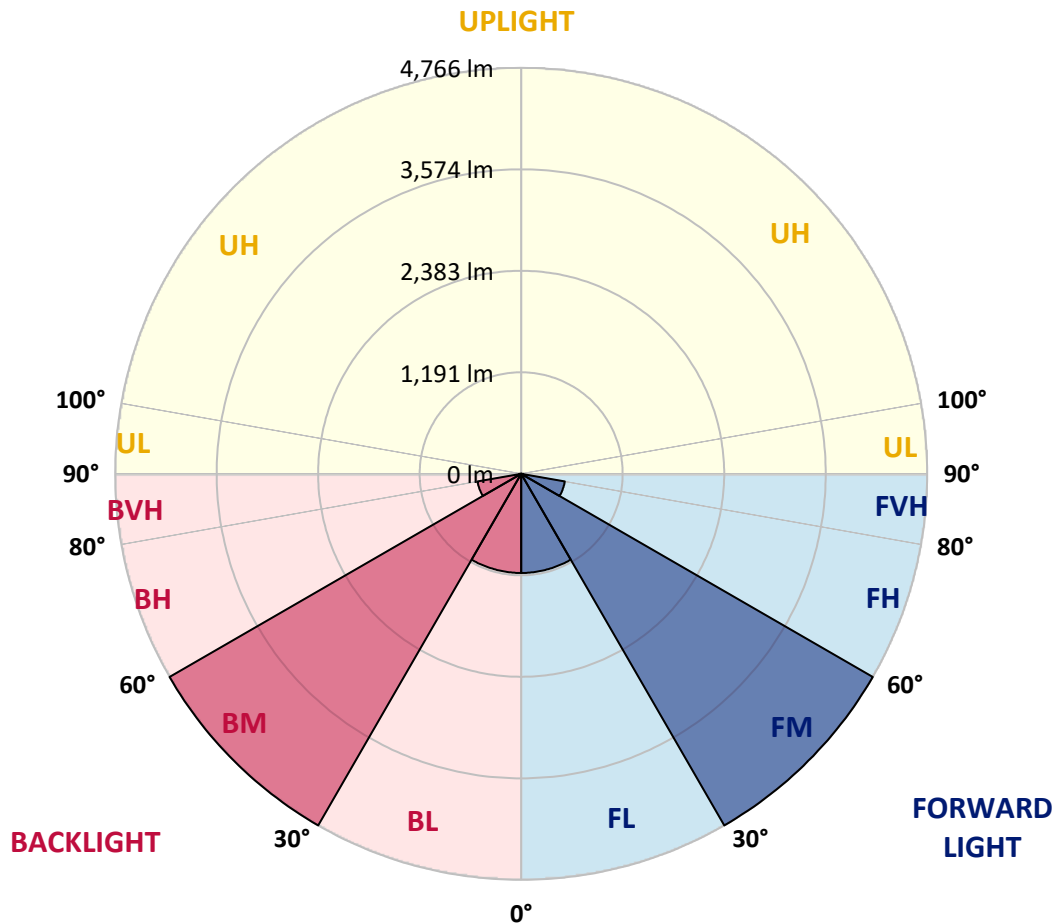
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1163.7	9.0			
FM	(30°-60°)	4765.9	36.8			
FH	(60°-80°)	520.3	4.0			G0/660
FVH	(80°-90°)	24.5	0.2			G1/100
BL	(0°-30°)	1163.7	9.0	B3/2500		
BM	(30°-60°)	4765.9	36.8	B3/5000		
BH	(60°-80°)	520.3	4.0	B2/1000		G0/660
BVH	(80°-90°)	24.5	0.2			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°	2364.3	2364.3	2364.3	2364.3	2364.3	2364.3	2364.3	2364.3	2364.3	2364.3	2364.3
2.5°	2392.5	2381.5	2362.7	2376.8	2387.8	2364.3	2373.7	2378.4	2375.2	2362.7	2367.4
5°	2426.9	2420.6	2405.0	2415.9	2401.8	2401.8	2392.5	2379.9	2398.7	2395.6	2403.4
7.5°	2426.9	2419.1	2450.4	2430.0	2436.3	2436.3	2420.6	2408.1	2417.5	2403.4	2395.6
10°	2475.4	2486.3	2472.3	2477.0	2473.8	2484.8	2461.3	2453.5	2445.7	2441.0	2431.6
12.5°	2533.3	2525.5	2530.2	2527.0	2538.0	2509.8	2495.7	2478.5	2492.6	2472.3	2486.3
15°	2580.2	2575.5	2580.2	2592.7	2581.8	2580.2	2555.2	2538.0	2516.1	2520.8	2498.9
17.5°	2644.4	2639.7	2641.2	2652.2	2650.6	2642.8	2624.0	2591.2	2583.4	2570.8	2556.8
20°	2739.8	2732.0	2728.9	2733.6	2741.4	2747.7	2710.1	2697.6	2671.0	2650.6	2627.2
22.5°	2821.2	2818.1	2830.6	2810.2	2827.5	2846.2	2810.2	2804.0	2738.3	2727.3	2702.3
25°	2933.9	2929.2	2921.3	2951.1	2971.4	2969.8	2935.4	2901.0	2850.9	2838.4	2838.4
27.5°	3052.8	3026.2	3066.9	3074.7	3110.7	3121.6	3091.9	3041.8	2994.9	2968.3	2974.5
30°	3201.4	3176.4	3185.8	3242.1	3289.0	3329.7	3254.6	3181.1	3115.4	3068.4	3060.6
32.5°	3350.1	3325.0	3353.2	3408.0	3501.8	3562.9	3489.3	3361.0	3284.4	3215.5	3229.6
35°	3470.6	3489.3	3534.7	3617.6	3714.6	3813.2	3695.9	3597.3	3487.8	3411.1	3422.0
37.5°	3664.6	3722.5	3758.5	3853.9	3991.6	4093.3	3971.3	3843.0	3725.6	3625.5	3591.0
40°	3918.1	3957.2	3997.9	4110.5	4273.3	4375.0	4259.2	4091.7	3976.0	3872.7	3868.0
42.5°	4196.6	4234.1	4276.4	4414.1	4511.1	4587.8	4481.4	4392.2	4263.9	4182.5	4177.8
45°	4520.5	4493.9	4540.8	4631.6	4712.9	4763.0	4694.2	4650.4	4558.0	4482.9	4475.1
47.5°	4736.4	4712.9	4797.4	4878.8	4891.3	4836.6	4850.6	4891.3	4794.3	4670.7	4709.8
50°	4861.6	4861.6	4917.9	4993.0	4969.6	4899.1	5010.2	5013.4	4916.4	4806.8	4806.8
52.5°	4644.1	4692.6	4852.2	5097.9	5176.1	5196.4	5171.4	5065.0	4811.5	4587.8	4576.8
55°	4046.4	4035.4	4251.3	4814.6	5270.0	5510.9	5191.7	4702.0	4187.2	3935.3	3910.2
57.5°	2631.9	2644.4	2966.7	3541.0	4362.4	4811.5	4273.3	3584.8	2966.7	2619.3	2652.2
60°	1184.5	1226.7	1422.3	1851.1	2556.8	2922.9	2563.0	1944.9	1492.7	1295.6	1312.8
62.5°	680.7	688.5	696.3	826.2	1089.0	1287.8	1131.3	873.1	769.8	735.4	735.4
65°	574.3	569.6	571.1	582.1	610.2	650.9	633.7	610.2	613.4	610.2	605.5
67.5°	488.2	494.5	489.8	497.6	499.1	505.4	516.4	525.7	527.3	530.4	527.3
70°	400.6	402.1	405.3	411.5	413.1	417.8	433.4	441.3	445.9	445.9	452.2
72.5°	306.7	305.1	308.3	314.5	322.3	323.9	338.0	348.9	355.2	347.4	348.9
75°	201.8	203.4	208.1	212.8	223.8	234.7	239.4	250.4	251.9	255.0	247.2
77.5°	120.5	123.6	128.3	137.7	147.1	156.5	167.4	175.2	178.4	175.2	165.9
80°	78.2	78.2	84.5	92.3	103.3	111.1	117.4	123.6	128.3	123.6	120.5
82.5°	48.5	48.5	56.3	65.7	73.5	78.2	87.6	95.4	100.1	97.0	92.3
85°	25.0	26.6	32.9	40.7	46.9	50.1	48.5	43.8	39.1	37.6	34.4
87.5°	7.8	7.8	9.4	9.4	7.8	7.8	9.4	7.8	9.4	9.4	9.4
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)