

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: P529972

Luminaire Tested: **GALN-SA5A-830-U-RW-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529972
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-8)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5A-830-U-RW-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15946 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

Input Watts (W): 154
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

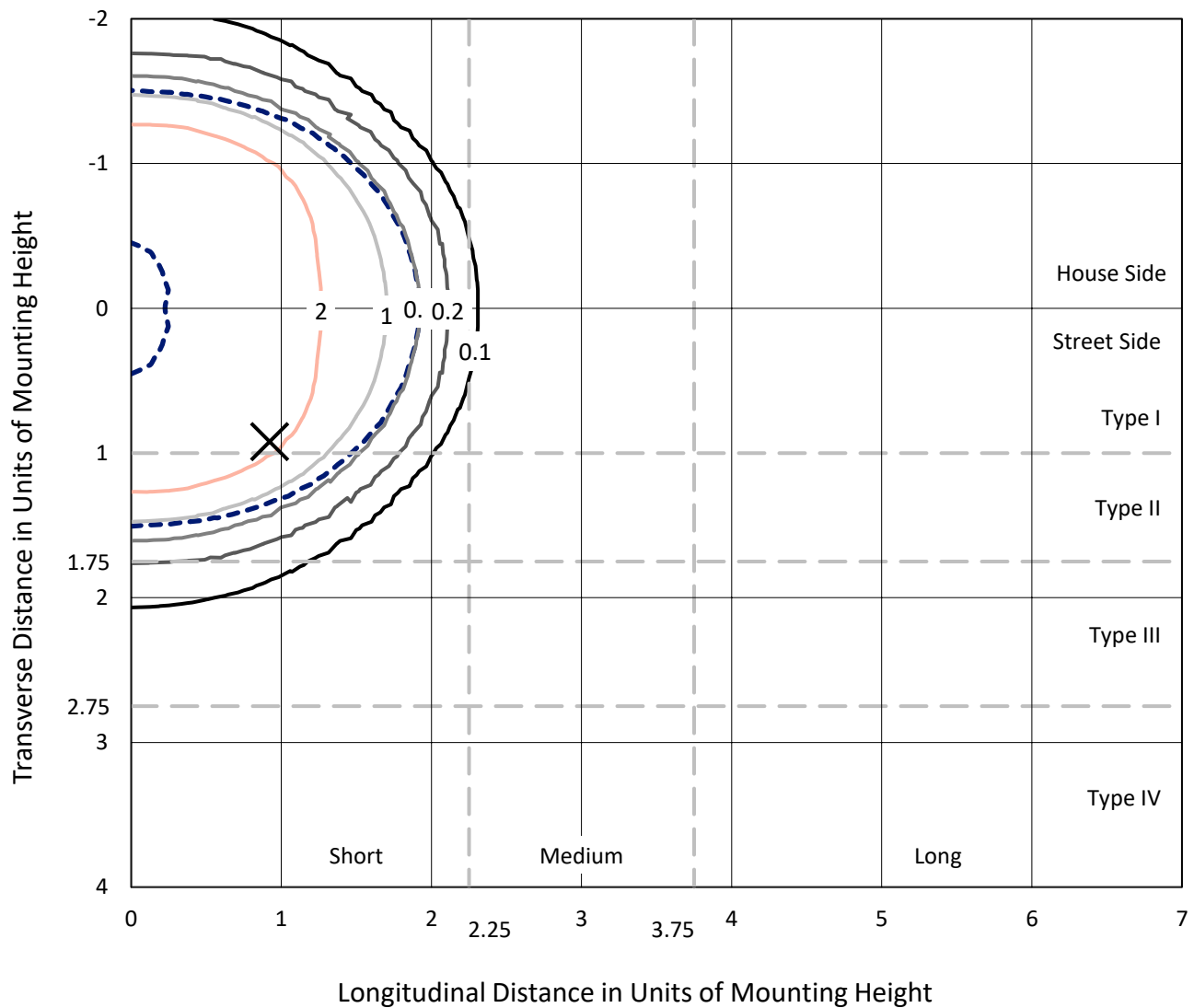


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

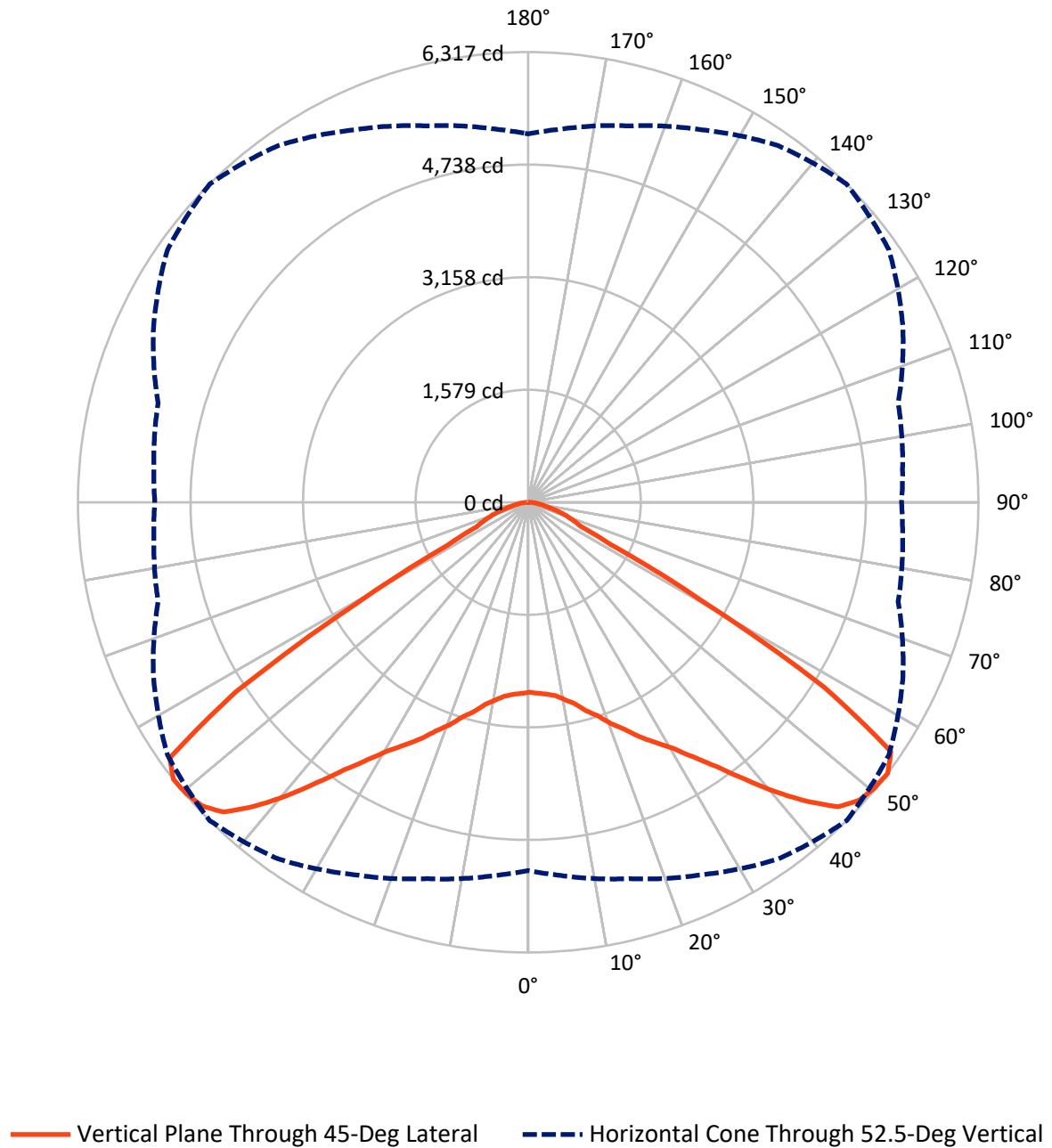


Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7973.0	0.0	7973.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7973.0	0.0	7973.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	15946.0	0.0	15946.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.9	1.6
10°-20°	860.5	5.4
20°-30°	1638.3	10.3
30°-40°	2813.2	17.6
40°-50°	4323.9	27.1
50°-60°	4390.8	27.5
60°-70°	1223.7	7.7
70°-80°	361.0	2.3
80°-90°	72.7	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°	15946.0	100.0
0°-180°	15946.0	100.0

Coefficient of Utilization



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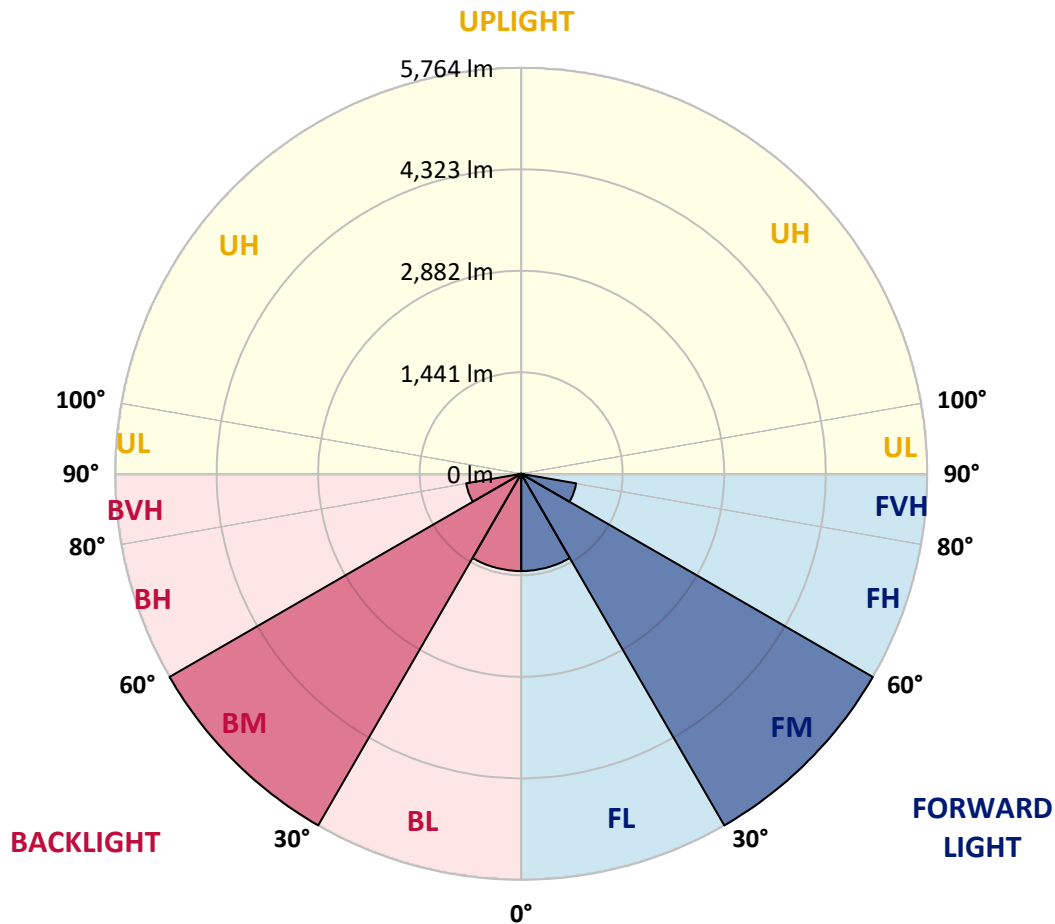
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1380.4	8.7			
FM	(30°-60°)	5763.9	36.1			
FH	(60°-80°)	792.3	5.0			G1/1800
FVH	(80°-90°)	36.4	0.2			G1/100
BL	(0°-30°)	1380.4	8.7	B3/2500		
BM	(30°-60°)	5763.9	36.1	B4/8500		
BH	(60°-80°)	792.3	5.0	B2/1000		G1/1800
BVH	(80°-90°)	36.4	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-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2665.6	2665.6	2665.6	2665.6	2665.6	2665.6	2665.6	2665.6	2665.6	2665.6	2665.6
2.5°	2671.5	2643.8	2653.7	2659.6	2685.4	2683.4	2677.5	2685.4	2693.3	2695.3	2691.3
5°	2669.5	2649.8	2657.7	2663.6	2689.3	2703.2	2699.2	2732.9	2756.6	2750.7	2780.4
7.5°	2653.7	2665.6	2655.7	2685.4	2707.1	2740.8	2776.4	2808.1	2837.7	2871.4	2877.3
10°	2689.3	2689.3	2707.1	2730.9	2788.3	2814.0	2865.5	2911.0	2968.4	3007.9	2992.1
12.5°	2726.9	2732.9	2732.9	2794.2	2841.7	2899.1	2946.6	3007.9	3089.1	3136.6	3160.3
15°	2764.5	2768.5	2788.3	2871.4	2942.6	3033.7	3077.2	3132.6	3178.1	3267.2	3269.1
17.5°	2798.2	2819.9	2879.3	2972.3	3061.4	3148.4	3217.7	3275.1	3314.7	3350.3	3342.4
20°	2924.8	2940.7	3002.0	3095.0	3227.6	3312.7	3336.4	3346.3	3372.1	3443.3	3421.5
22.5°	3047.5	3053.4	3110.8	3253.3	3346.3	3459.1	3484.9	3478.9	3488.8	3506.6	3538.3
25°	3174.2	3184.1	3263.2	3383.9	3514.5	3649.1	3670.9	3625.4	3611.5	3631.3	3633.3
27.5°	3336.4	3338.4	3439.3	3544.2	3692.6	3819.3	3852.9	3817.3	3752.0	3767.8	3793.6
30°	3542.2	3528.4	3629.3	3779.7	3936.0	4007.3	4064.7	4046.9	3975.6	3961.8	3940.0
32.5°	3779.7	3783.7	3874.7	4038.9	4141.8	4260.6	4321.9	4292.2	4246.7	4223.0	4236.8
35°	4114.1	4132.0	4193.3	4329.8	4496.1	4555.4	4652.4	4589.1	4470.3	4500.0	4525.8
37.5°	4389.2	4440.7	4555.4	4717.7	4816.7	4925.5	4961.1	4876.0	4788.9	4753.3	4838.4
40°	4810.7	4794.9	4921.5	5083.8	5230.2	5339.1	5293.6	5208.5	4992.8	4994.8	5018.5
42.5°	5172.9	5180.8	5277.7	5471.7	5671.5	5738.8	5594.4	5386.6	5147.1	5121.4	5172.9
45°	5477.6	5509.3	5564.7	5823.9	6019.8	6093.0	5825.9	5580.5	5259.9	5153.1	5238.2
47.5°	5586.4	5637.9	5758.6	5996.1	6190.0	6249.4	6035.7	5683.4	5364.8	5190.7	5236.2
50°	5602.3	5584.5	5782.4	6000.0	6170.2	6298.9	6110.9	5758.6	5339.1	5248.1	5234.2
52.5°	5168.9	5256.0	5467.7	5766.5	6110.9	6316.7	6178.1	5800.2	5374.7	5271.8	5238.2
55°	4183.4	4080.5	4466.4	4969.0	5602.3	6174.2	6154.4	5821.9	5396.5	5311.4	5265.9
57.5°	2335.1	2364.8	2582.5	3128.6	3945.9	4895.8	5471.7	5592.4	5386.6	5337.1	5360.9
60°	1080.5	1090.4	1183.4	1438.7	1945.3	2776.4	3534.3	4304.1	4658.3	4729.6	4729.6
62.5°	805.4	801.5	825.2	870.7	977.6	1276.4	1703.8	2315.3	2802.1	3142.5	3231.6
65°	728.2	726.3	738.1	754.0	761.9	803.4	898.4	1086.4	1244.7	1335.8	1319.9
67.5°	637.2	635.2	639.2	649.1	662.9	684.7	708.4	748.0	803.4	799.5	789.6
70°	514.5	514.5	520.5	528.4	544.2	569.9	597.6	625.3	672.8	682.7	680.7
72.5°	379.9	374.0	385.9	401.7	417.5	449.2	478.9	504.6	538.3	548.2	544.2
75°	241.4	245.4	253.3	271.1	298.8	320.6	352.2	374.0	395.8	403.7	405.7
77.5°	134.6	138.5	152.4	174.1	201.8	225.6	253.3	271.1	285.0	286.9	288.9
80°	81.1	83.1	97.0	116.8	140.5	166.2	188.0	205.8	217.7	211.7	209.8
82.5°	49.5	51.5	63.3	81.1	100.9	120.7	144.5	160.3	172.2	164.2	156.3
85°	25.7	27.7	37.6	49.5	65.3	75.2	75.2	67.3	65.3	61.3	59.4
87.5°	7.9	7.9	9.9	11.9	9.9	11.9	13.9	15.8	15.8	17.8	15.8
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)