

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: P529946

Luminaire Tested: **GALN-SA5A-827-U-RW-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529946
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-827-U-RW-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 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: 14752 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

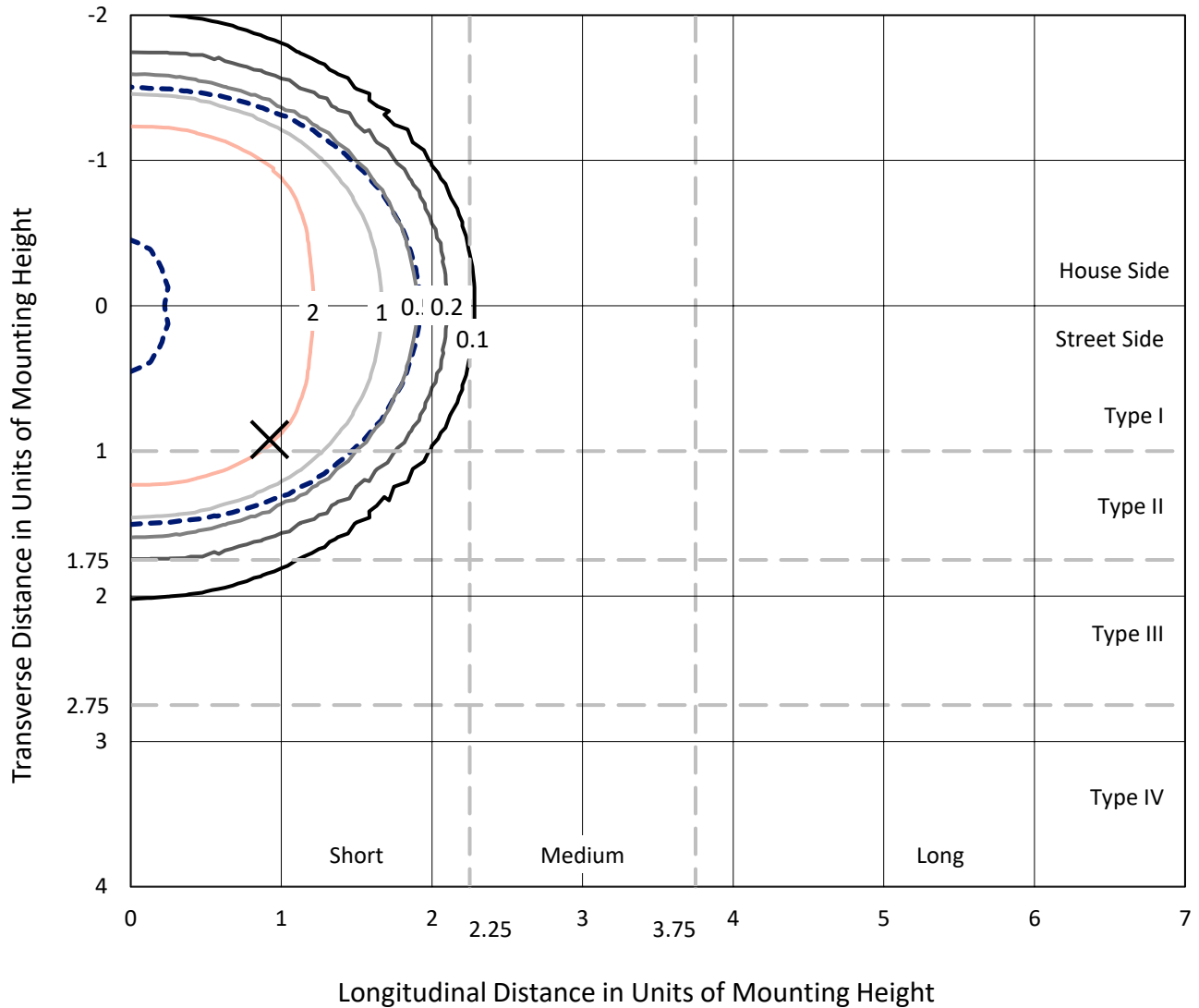
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

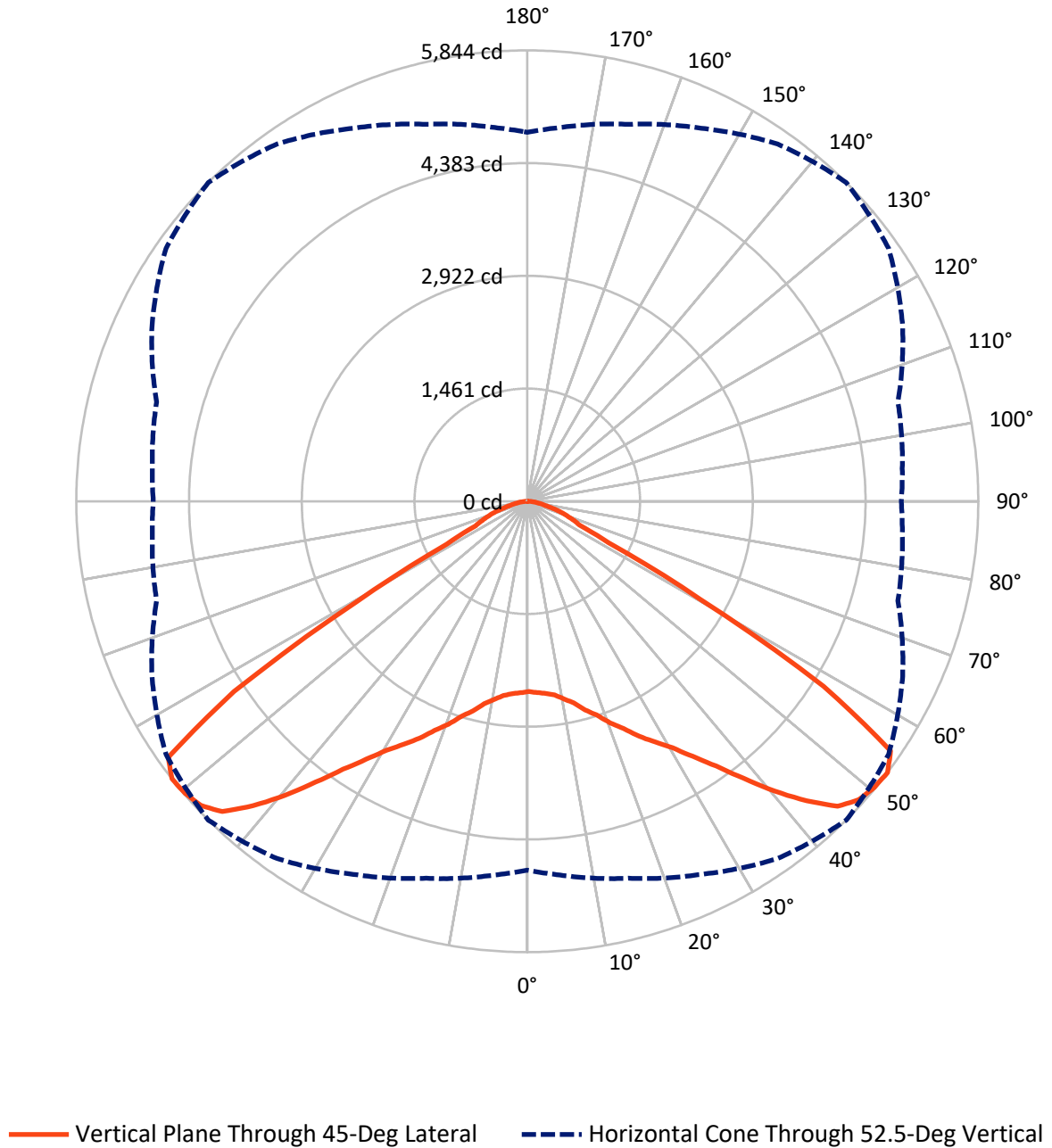
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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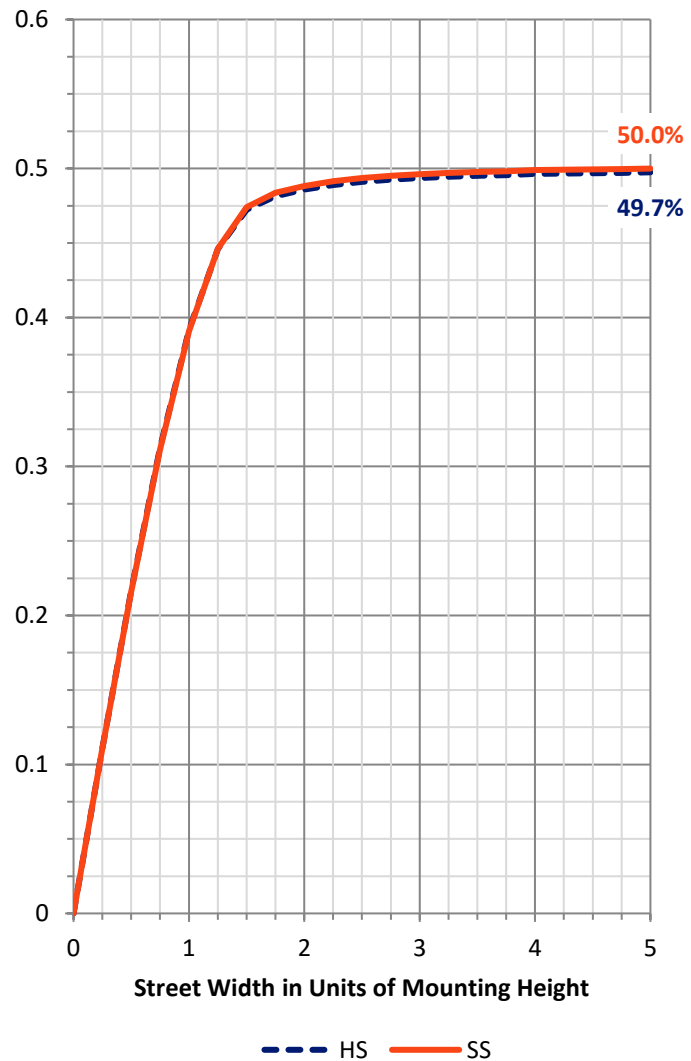
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7376.0	0.0	7376.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7376.0	0.0	7376.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	14752.0	0.0	14752.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.3	1.6
10°-20°	796.1	5.4
20°-30°	1515.7	10.3
30°-40°	2602.5	17.6
40°-50°	4000.1	27.1
50°-60°	4062.1	27.5
60°-70°	1132.0	7.7
70°-80°	333.9	2.3
80°-90°	67.3	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°	14752.0	100.0
0°-180°	14752.0	100.0



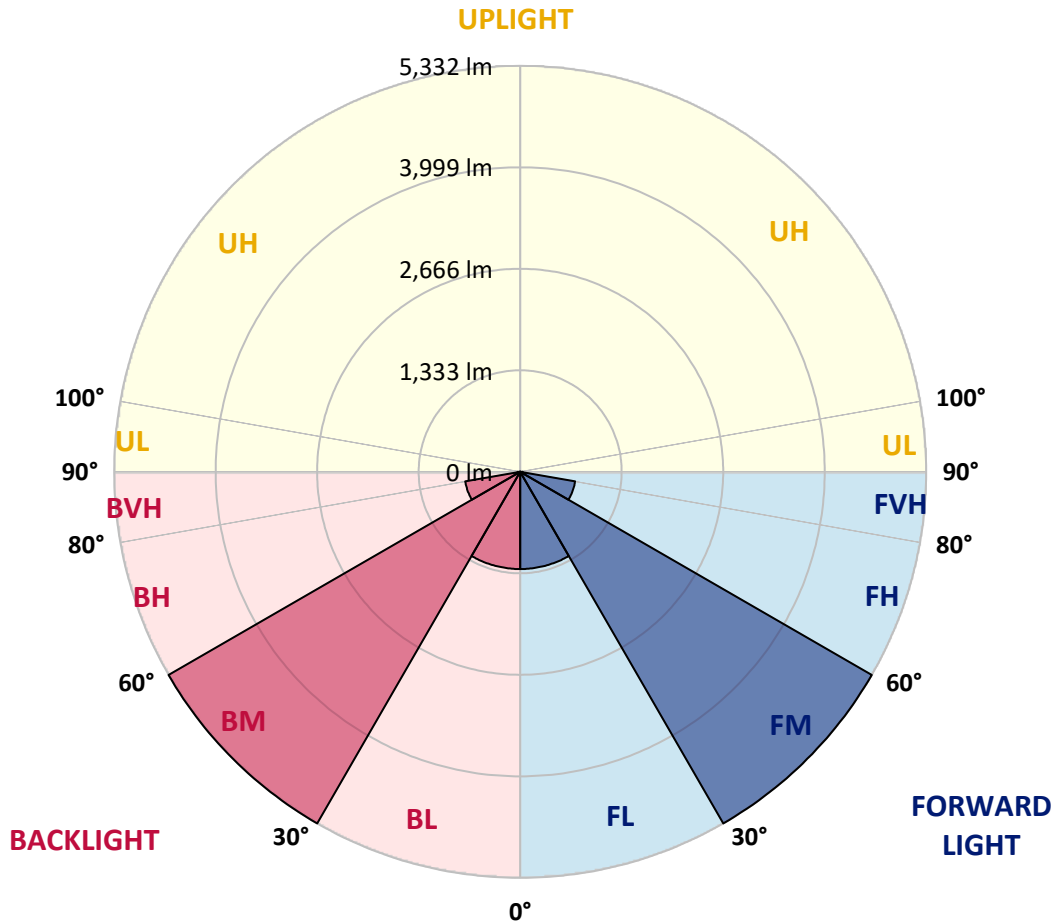
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1277.0	8.7			
FM (30°-60°)	5332.4	36.1			
FH (60°-80°)	733.0	5.0			G1/1800
FVH (80°-90°)	33.6	0.2			G1/100
BL (0°-30°)	1277.0	8.7	B3/2500		
BM (30°-60°)	5332.4	36.1	B4/8500		
BH (60°-80°)	733.0	5.0	B2/1000		G1/1800
BVH (80°-90°)	33.6	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°	2466.0	2466.0	2466.0	2466.0	2466.0	2466.0	2466.0	2466.0	2466.0	2466.0	2466.0
2.5°	2471.5	2445.9	2455.0	2460.5	2484.3	2482.5	2477.0	2484.3	2491.6	2493.5	2489.8
5°	2469.7	2451.3	2458.7	2464.2	2488.0	2500.8	2497.1	2528.2	2550.2	2544.7	2572.2
7.5°	2455.0	2466.0	2456.8	2484.3	2504.4	2535.6	2568.5	2597.8	2625.3	2656.4	2661.9
10°	2488.0	2488.0	2504.4	2526.4	2579.5	2603.3	2650.9	2693.0	2746.1	2782.7	2768.1
12.5°	2522.7	2528.2	2528.2	2585.0	2628.9	2682.0	2726.0	2782.7	2857.8	2901.7	2923.7
15°	2557.5	2561.2	2579.5	2656.4	2722.3	2806.5	2846.8	2898.0	2940.1	3022.5	3024.4
17.5°	2588.7	2608.8	2663.7	2749.8	2832.1	2912.7	2976.8	3029.9	3066.5	3099.4	3092.1
20°	2705.8	2720.5	2777.2	2863.3	2985.9	3064.6	3086.6	3095.8	3119.6	3185.5	3165.3
22.5°	2819.3	2824.8	2877.9	3009.7	3095.8	3200.1	3223.9	3218.4	3227.6	3244.1	3273.3
25°	2936.5	2945.6	3018.9	3130.5	3251.4	3375.9	3396.0	3353.9	3341.1	3359.4	3361.2
27.5°	3086.6	3088.4	3181.8	3278.8	3416.1	3533.3	3564.4	3531.5	3471.1	3485.7	3509.5
30°	3277.0	3264.2	3357.6	3496.7	3641.3	3707.2	3760.3	3743.8	3677.9	3665.1	3645.0
32.5°	3496.7	3500.4	3584.6	3736.5	3831.7	3941.6	3998.3	3970.8	3928.7	3906.8	3919.6
35°	3806.1	3822.6	3879.3	4005.6	4159.4	4214.3	4304.0	4245.5	4135.6	4163.1	4186.9
37.5°	4060.6	4108.2	4214.3	4364.5	4456.0	4556.7	4589.6	4510.9	4430.4	4397.4	4476.1
40°	4450.5	4435.9	4553.0	4703.1	4838.6	4939.3	4897.2	4818.5	4618.9	4620.8	4642.7
42.5°	4785.5	4792.8	4882.6	5062.0	5246.9	5309.1	5175.5	4983.2	4761.7	4737.9	4785.5
45°	5067.5	5096.7	5148.0	5387.8	5569.1	5636.8	5389.7	5162.7	4866.1	4767.2	4845.9
47.5°	5168.1	5215.7	5327.4	5547.1	5726.5	5781.4	5583.7	5257.9	4963.1	4802.0	4844.1
50°	5182.8	5166.3	5349.4	5550.8	5708.2	5827.2	5653.3	5327.4	4939.3	4855.1	4842.3
52.5°	4781.9	4862.4	5058.3	5334.7	5653.3	5843.7	5715.5	5365.9	4972.3	4877.1	4845.9
55°	3870.2	3775.0	4132.0	4597.0	5182.8	5711.9	5693.6	5386.0	4992.4	4913.7	4871.6
57.5°	2160.3	2187.7	2389.1	2894.4	3650.5	4529.2	5062.0	5173.6	4983.2	4937.5	4959.4
60°	999.6	1008.7	1094.8	1330.9	1799.6	2568.5	3269.7	3981.8	4309.5	4375.4	4375.4
62.5°	745.1	741.4	763.4	805.5	904.4	1180.8	1576.3	2142.0	2592.3	2907.2	2989.6
65°	673.7	671.9	682.9	697.5	704.8	743.3	831.2	1005.1	1151.5	1235.7	1221.1
67.5°	589.5	587.7	591.3	600.5	613.3	633.4	655.4	692.0	743.3	739.6	730.5
70°	476.0	476.0	481.5	488.8	503.5	527.2	552.9	578.5	622.4	631.6	629.8
72.5°	351.5	346.0	357.0	371.6	386.3	415.6	443.0	466.8	498.0	507.1	503.5
75°	223.3	227.0	234.3	250.8	276.4	296.6	325.9	346.0	366.1	373.5	375.3
77.5°	124.5	128.2	141.0	161.1	186.7	208.7	234.3	250.8	263.6	265.5	267.3
80°	75.1	76.9	89.7	108.0	130.0	153.8	173.9	190.4	201.4	195.9	194.1
82.5°	45.8	47.6	58.6	75.1	93.4	111.7	133.6	148.3	159.3	152.0	144.6
85°	23.8	25.6	34.8	45.8	60.4	69.6	69.6	62.2	60.4	56.8	54.9
87.5°	7.3	7.3	9.2	11.0	9.2	11.0	12.8	14.6	14.6	16.5	14.6
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)