

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: P454134

Luminaire Tested: **GALN-SA5B-727-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454134
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-SA5B-727-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 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: 24995 lumens
Efficiency: N/A
Efficacy: 122.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

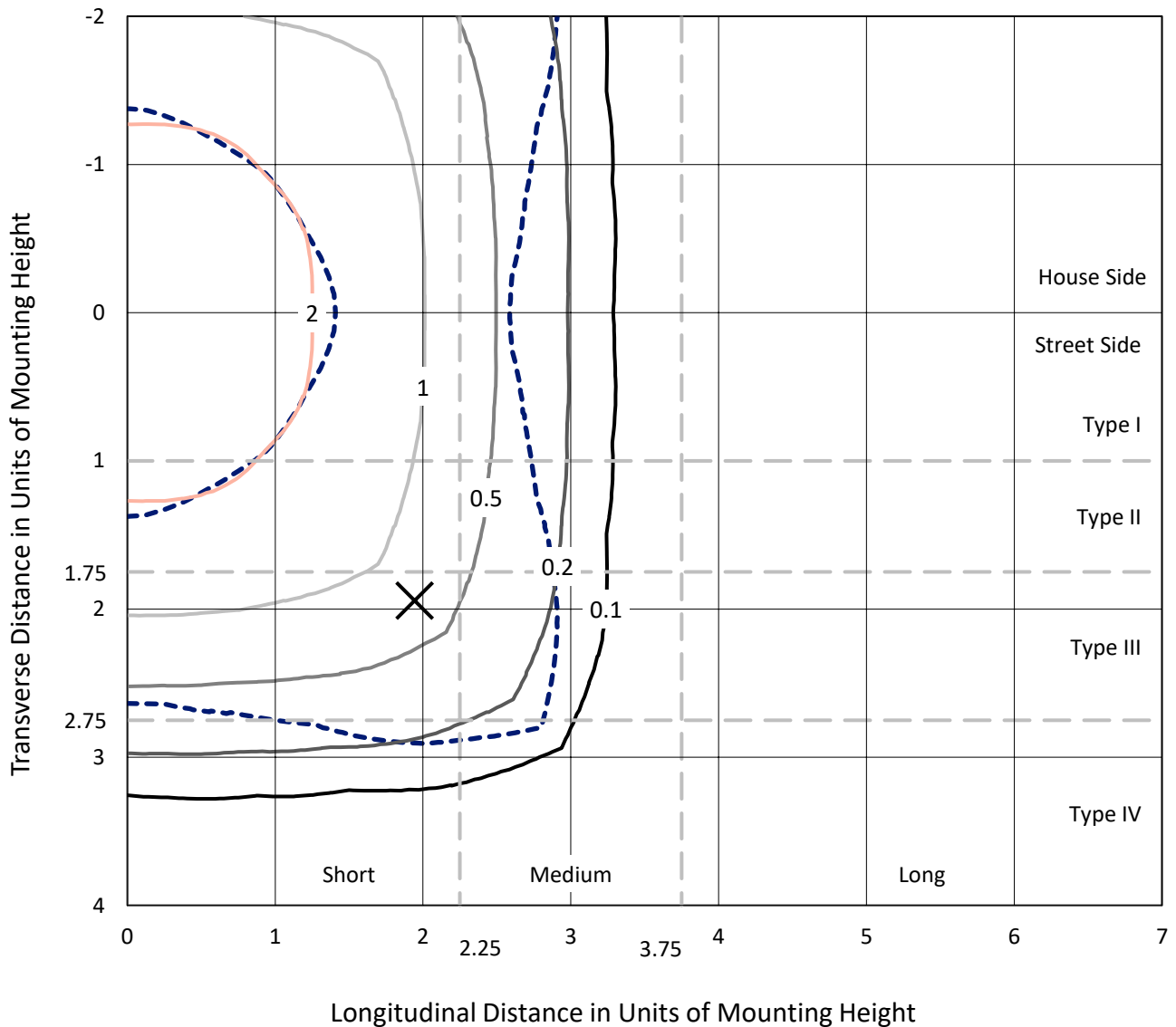
Input Watts (W): 204
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

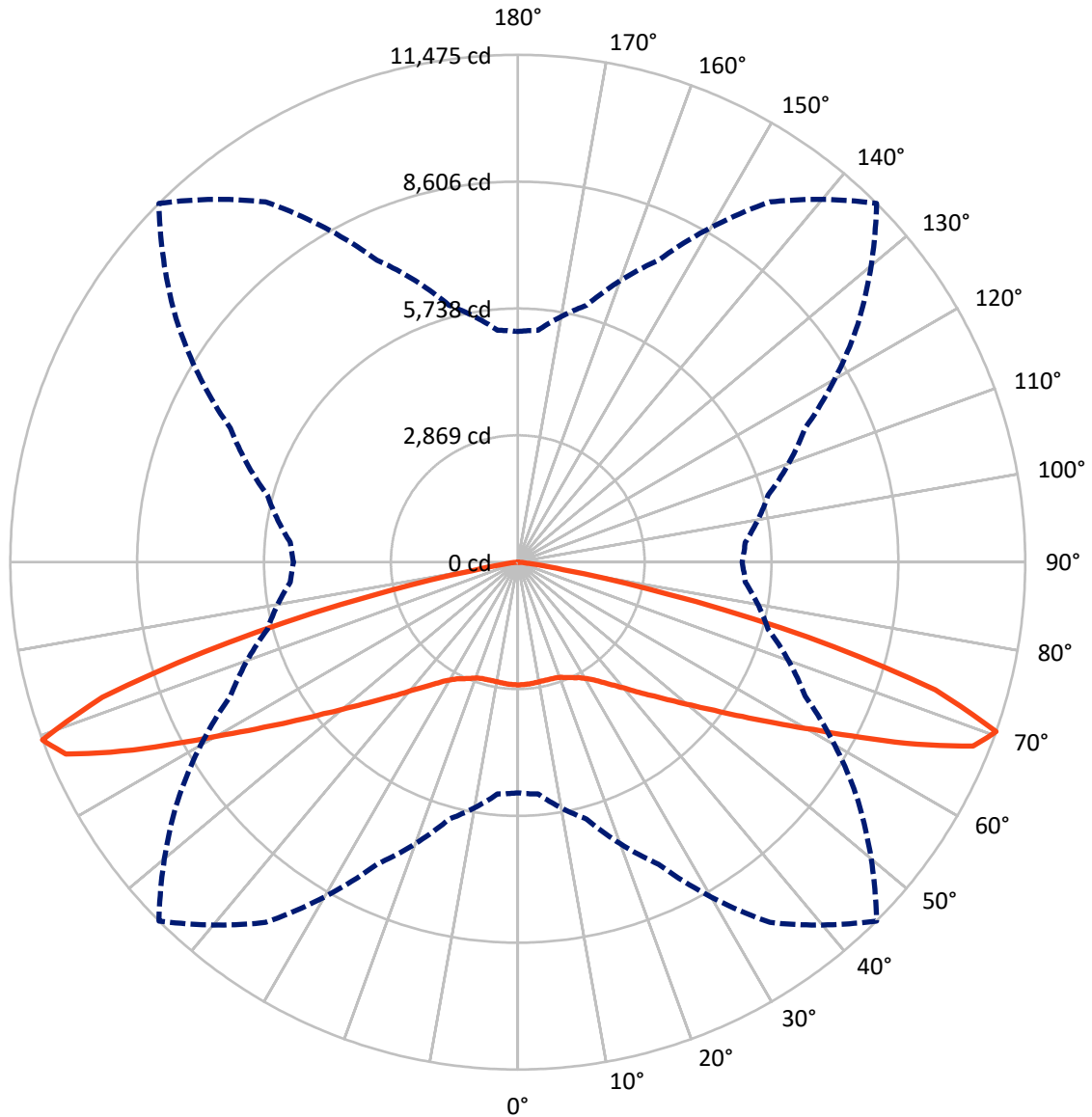
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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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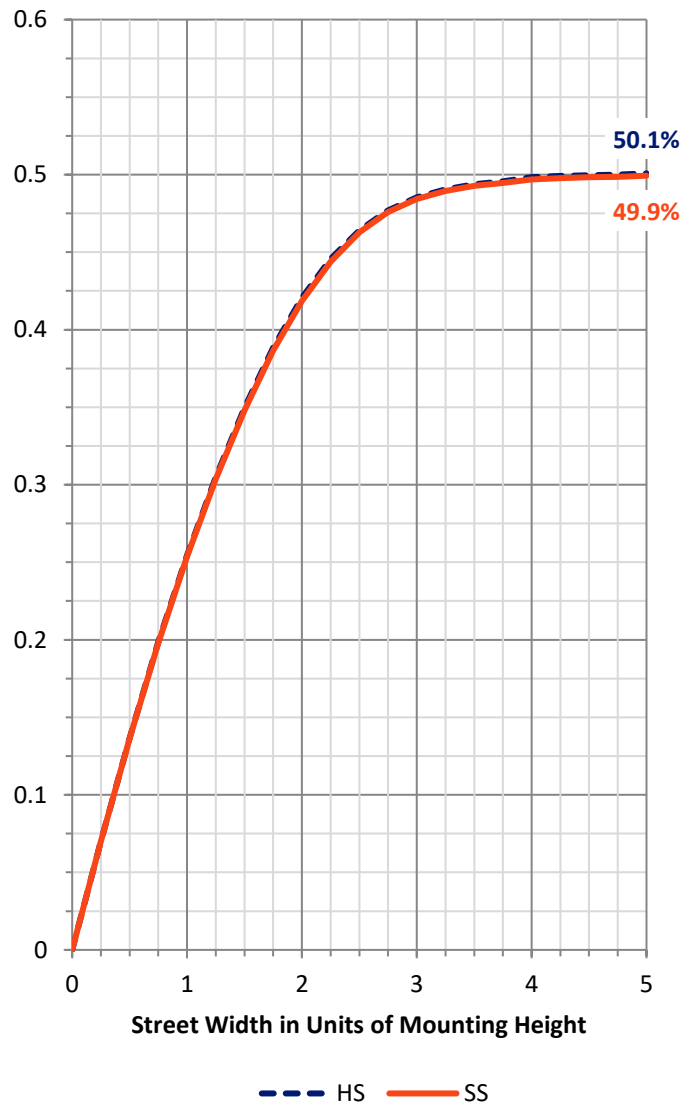
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12497.5	0.0	12497.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12497.5	0.0	12497.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	24995.0	0.0	24995.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.2	1.1
10°-20°	772.4	3.1
20°-30°	1321.0	5.3
30°-40°	2096.6	8.4
40°-50°	3382.4	13.5
50°-60°	5503.3	22.0
60°-70°	7977.8	31.9
70°-80°	3538.7	14.2
80°-90°	139.6	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°	24995.0	100.0
0°-180°	24995.0	100.0



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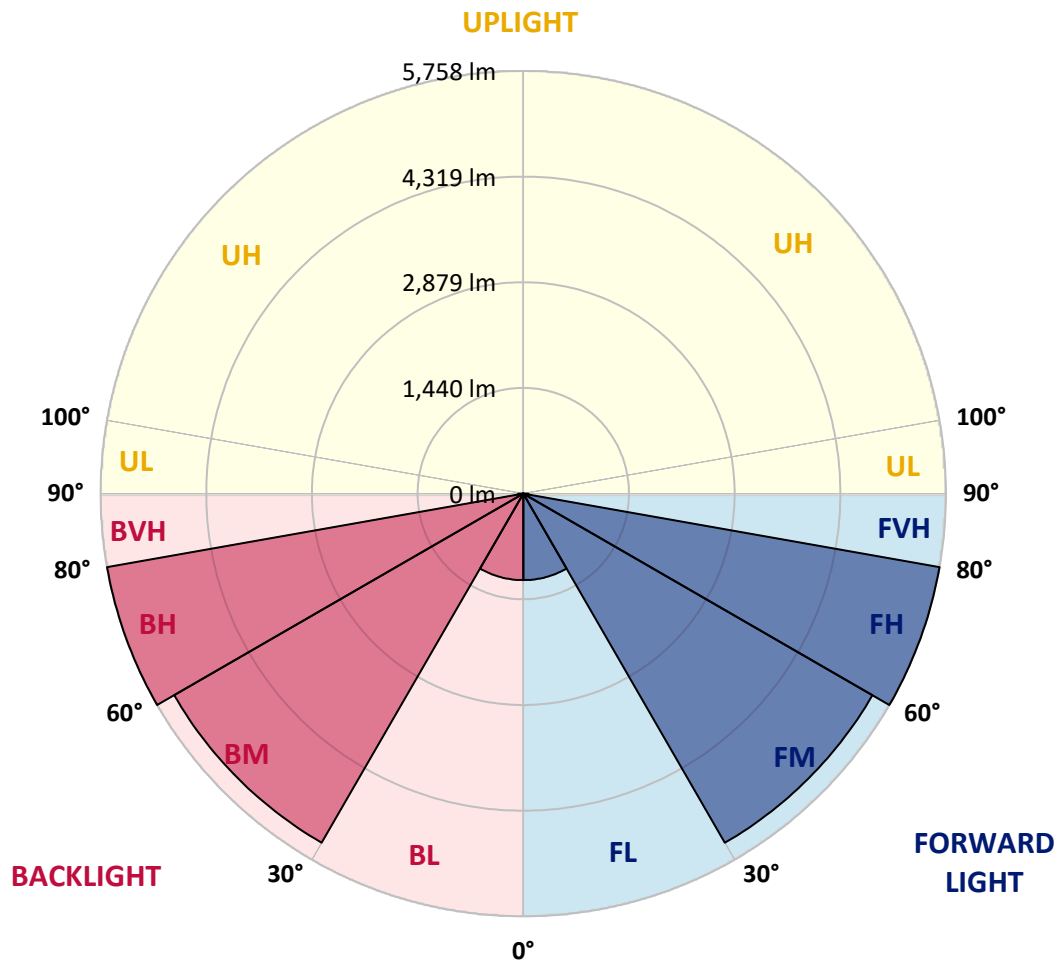
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1178.3	4.7			
FM (30°-60°)	5491.2	22.0			
FH (60°-80°)	5758.2	23.0			G3/7500
FVH (80°-90°)	69.8	0.3			G1/100
BL (0°-30°)	1178.3	4.7	B3/2500		
BM (30°-60°)	5491.2	22.0	B4/8500		
BH (60°-80°)	5758.2	23.0	B5		G3/7500
BVH (80°-90°)	69.8	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°	2775.6	2775.6	2775.6	2775.6	2775.6	2775.6	2775.6	2775.6	2775.6	2775.6	2775.6
2.5°	2775.6	2778.2	2774.3	2771.6	2770.3	2770.3	2769.0	2770.3	2778.2	2779.5	2775.6
5°	2767.7	2770.3	2769.0	2766.4	2765.0	2765.0	2763.7	2762.4	2769.0	2771.6	2770.3
7.5°	2757.1	2758.5	2757.1	2755.8	2757.1	2755.8	2751.9	2749.2	2754.5	2754.5	2753.2
10°	2738.7	2741.3	2740.0	2741.3	2744.0	2744.0	2738.7	2733.4	2734.7	2732.1	2732.1
12.5°	2716.3	2720.2	2721.6	2726.8	2733.4	2741.3	2729.5	2717.6	2715.0	2713.7	2712.3
15°	2701.8	2705.8	2711.0	2716.3	2728.2	2745.3	2728.2	2709.7	2704.4	2699.2	2696.5
17.5°	2697.9	2703.1	2711.0	2718.9	2734.7	2751.9	2737.4	2718.9	2705.8	2697.9	2695.2
20°	2708.4	2712.3	2724.2	2738.7	2761.1	2778.2	2763.7	2744.0	2724.2	2712.3	2708.4
22.5°	2729.5	2736.1	2750.5	2776.9	2808.5	2833.5	2813.8	2780.8	2749.2	2733.4	2728.2
25°	2775.6	2780.8	2798.0	2833.5	2870.4	2894.1	2873.1	2834.9	2791.4	2770.3	2763.7
27.5°	2845.4	2853.3	2871.7	2913.9	2944.2	2957.4	2942.9	2916.5	2884.9	2862.5	2857.3
30°	2944.2	2953.4	2981.1	3025.9	3045.6	3053.5	3046.9	3029.8	3007.4	2983.7	2978.4
32.5°	3077.2	3082.5	3114.1	3156.3	3174.7	3177.4	3169.5	3161.5	3124.7	3085.1	3082.5
35°	3226.1	3235.3	3273.5	3323.6	3340.7	3342.0	3326.2	3314.4	3270.9	3239.3	3239.3
37.5°	3423.7	3427.6	3464.5	3521.2	3539.6	3534.3	3526.4	3515.9	3469.8	3429.0	3430.3
40°	3655.5	3663.4	3695.1	3760.9	3760.9	3754.3	3759.6	3751.7	3705.6	3666.1	3667.4
42.5°	3930.9	3934.8	3973.0	4042.8	4037.6	4024.4	4029.7	4019.1	3990.1	3945.4	3929.5
45°	4224.6	4240.4	4306.3	4373.5	4362.9	4320.8	4341.9	4339.2	4312.9	4245.7	4249.6
47.5°	4579.0	4605.3	4668.6	4748.9	4737.1	4671.2	4694.9	4710.7	4673.8	4600.1	4586.9
50°	4978.1	4995.2	5088.8	5163.9	5153.3	5083.5	5137.5	5140.2	5047.9	4943.9	4943.9
52.5°	5403.6	5420.7	5547.2	5664.4	5671.0	5569.6	5613.1	5610.4	5460.3	5323.3	5296.9
55°	5880.5	5888.4	6051.7	6224.3	6261.2	6162.4	6167.7	6115.0	5920.0	5760.6	5746.1
57.5°	6373.2	6402.1	6582.6	6806.6	6915.9	6855.3	6827.6	6686.7	6498.3	6315.2	6306.0
60°	6918.5	6919.8	7154.3	7419.1	7640.4	7681.2	7568.0	7379.6	7135.9	6893.5	6883.0
62.5°	7296.6	7353.2	7649.6	8097.5	8494.0	8723.2	8424.2	8029.0	7549.5	7158.3	7118.8
65°	7374.3	7412.5	7864.4	8623.1	9433.3	9927.3	9235.7	8395.2	7577.2	7055.5	7029.2
67.5°	6746.0	6786.8	7395.4	8559.9	10091.9	11104.9	9762.6	8218.7	7108.2	6462.7	6411.4
70°	5217.9	5264.0	6016.2	7535.0	9945.7	11475.1	9387.2	7168.8	5862.0	5165.2	5071.7
72.5°	2774.3	2944.2	3587.0	5171.8	8072.5	9879.8	7697.1	5231.0	3780.7	3090.4	2966.6
75°	1013.0	1034.1	1392.4	2293.4	4696.2	6774.9	4876.7	2495.0	1434.6	1107.9	1051.2
77.5°	418.9	417.6	458.4	692.9	1705.9	3469.8	1903.5	732.4	457.1	422.9	417.6
80°	247.7	247.7	272.7	288.5	449.2	1047.3	501.9	326.7	274.0	250.3	254.2
82.5°	110.7	117.2	172.6	181.8	217.4	287.2	242.4	208.1	179.2	123.8	112.0
85°	60.6	52.7	90.9	94.8	104.1	106.7	114.6	113.3	104.1	60.6	61.9
87.5°	11.9	14.5	26.3	19.8	22.4	19.8	26.3	36.9	38.2	21.1	17.1
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)