

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: P454864

Luminaire Tested: **GALN-SA6A-730-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454864
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6A-730-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25481 lumens
Efficiency: N/A
Efficacy: 140.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 182
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

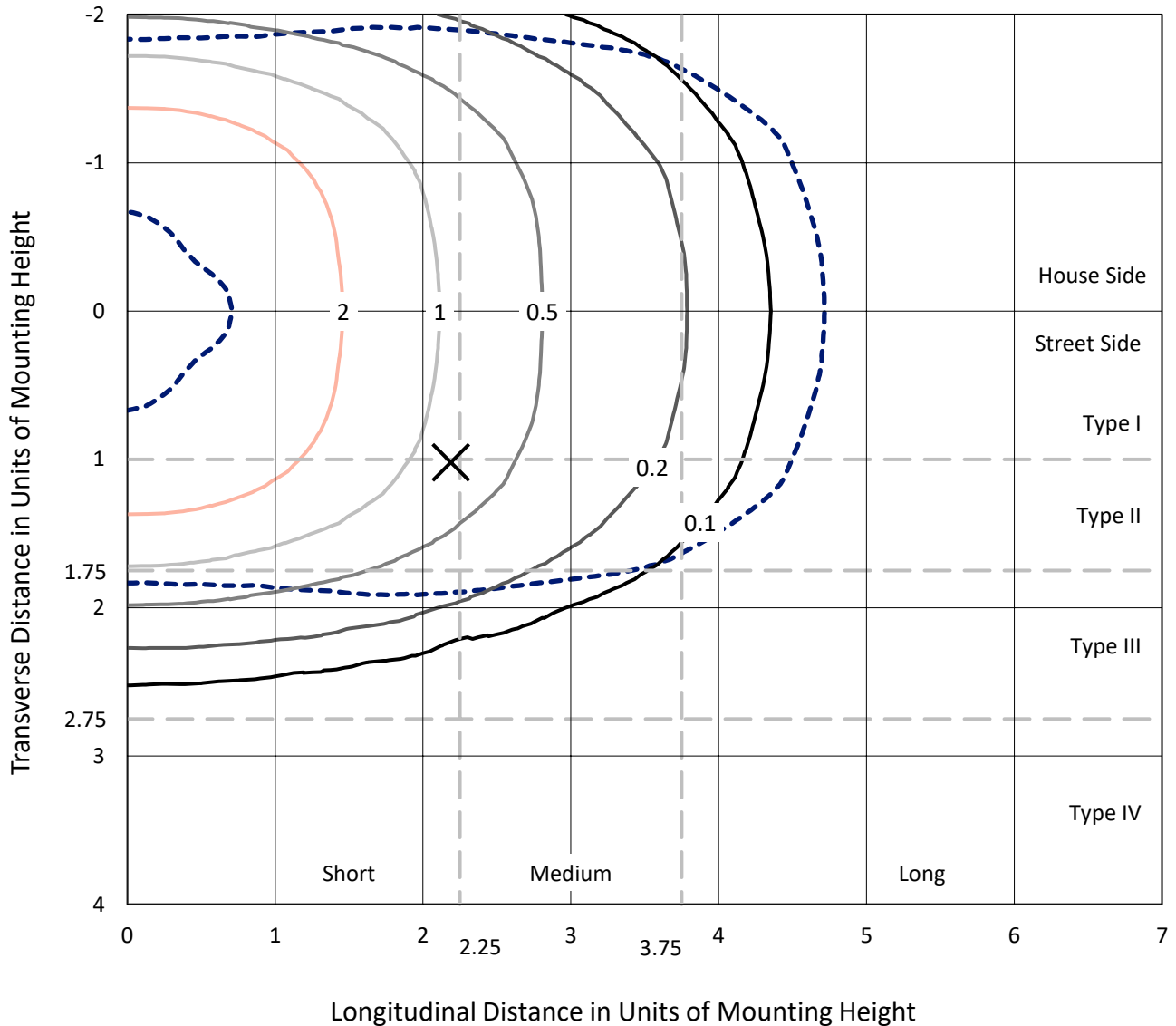




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Iso-Footcandle Lines of Horizontal Illumination

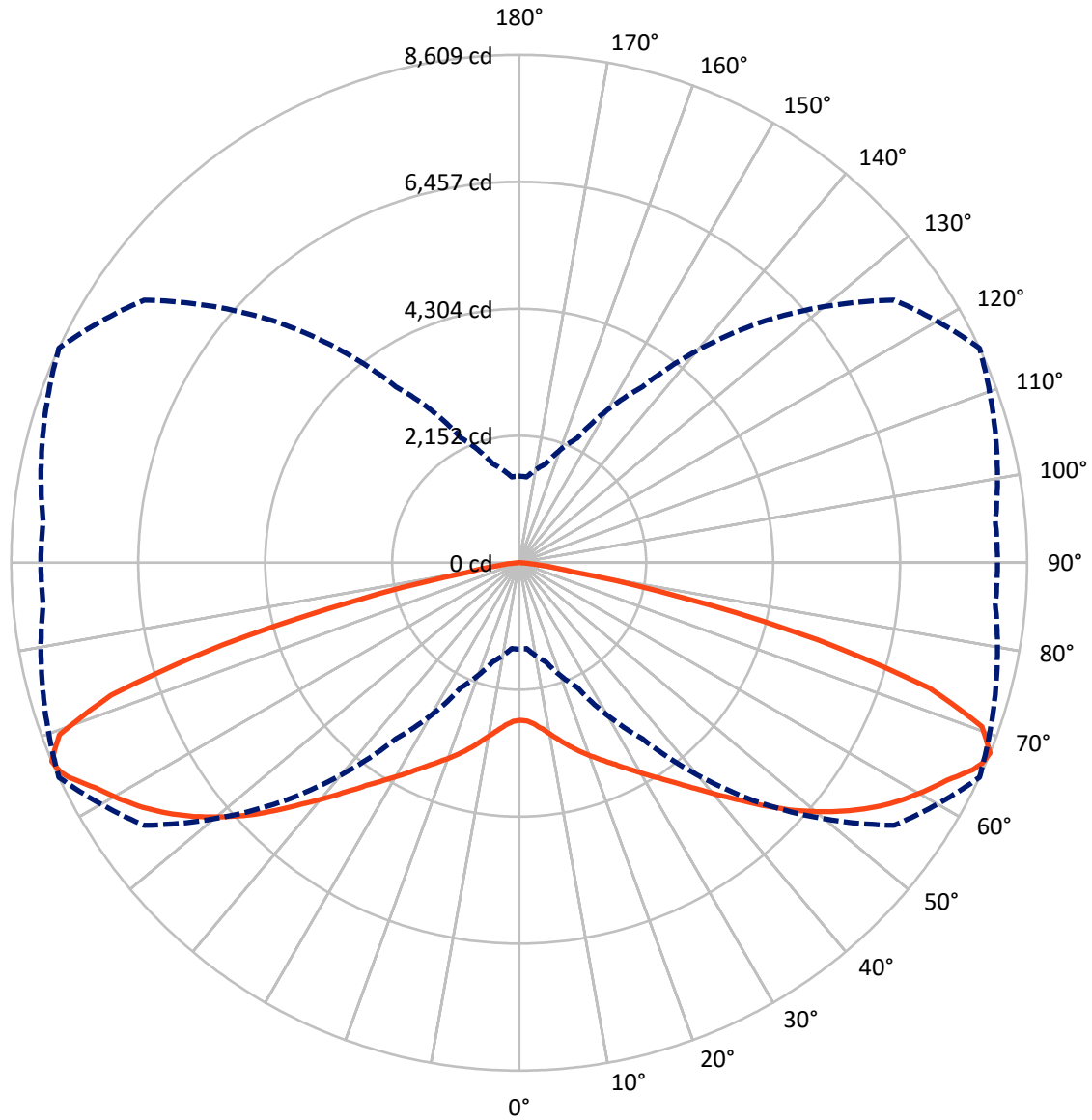
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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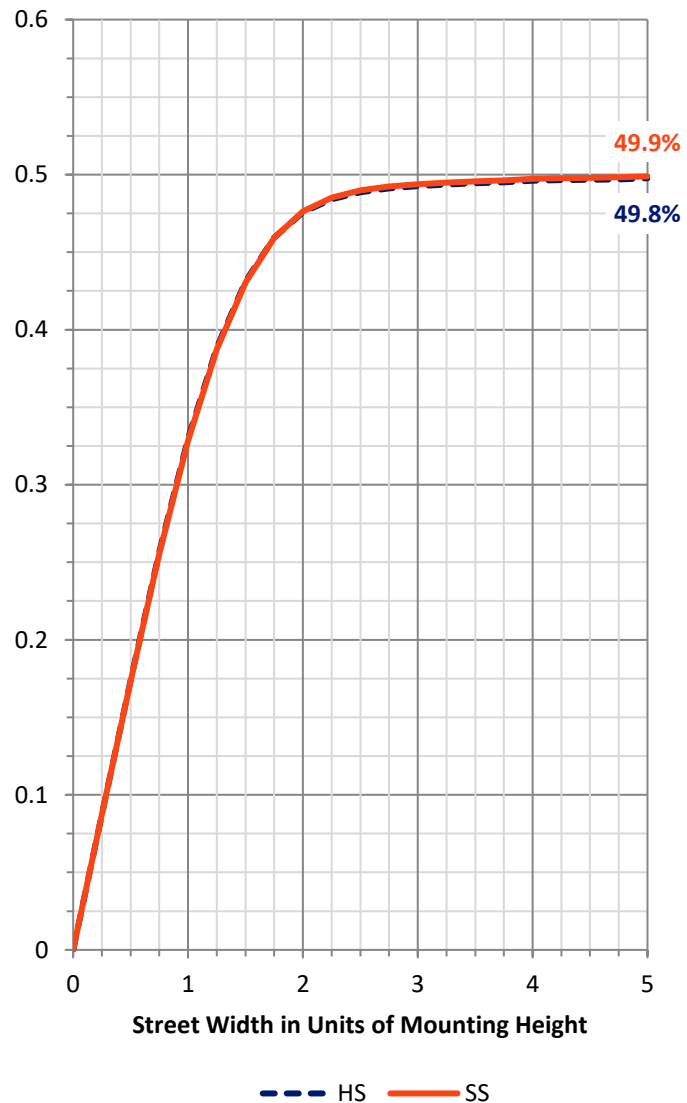
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12740.5	0.0	12740.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12740.5	0.0	12740.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	25481.0	0.0	25481.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.2	1.0
10°-20°	881.0	3.5
20°-30°	1723.3	6.8
30°-40°	2931.1	11.5
40°-50°	4639.0	18.2
50°-60°	6151.3	24.1
60°-70°	5802.5	22.8
70°-80°	2868.5	11.3
80°-90°	221.1	0.9
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°	25481.0	100.0
0°-180°	25481.0	100.0



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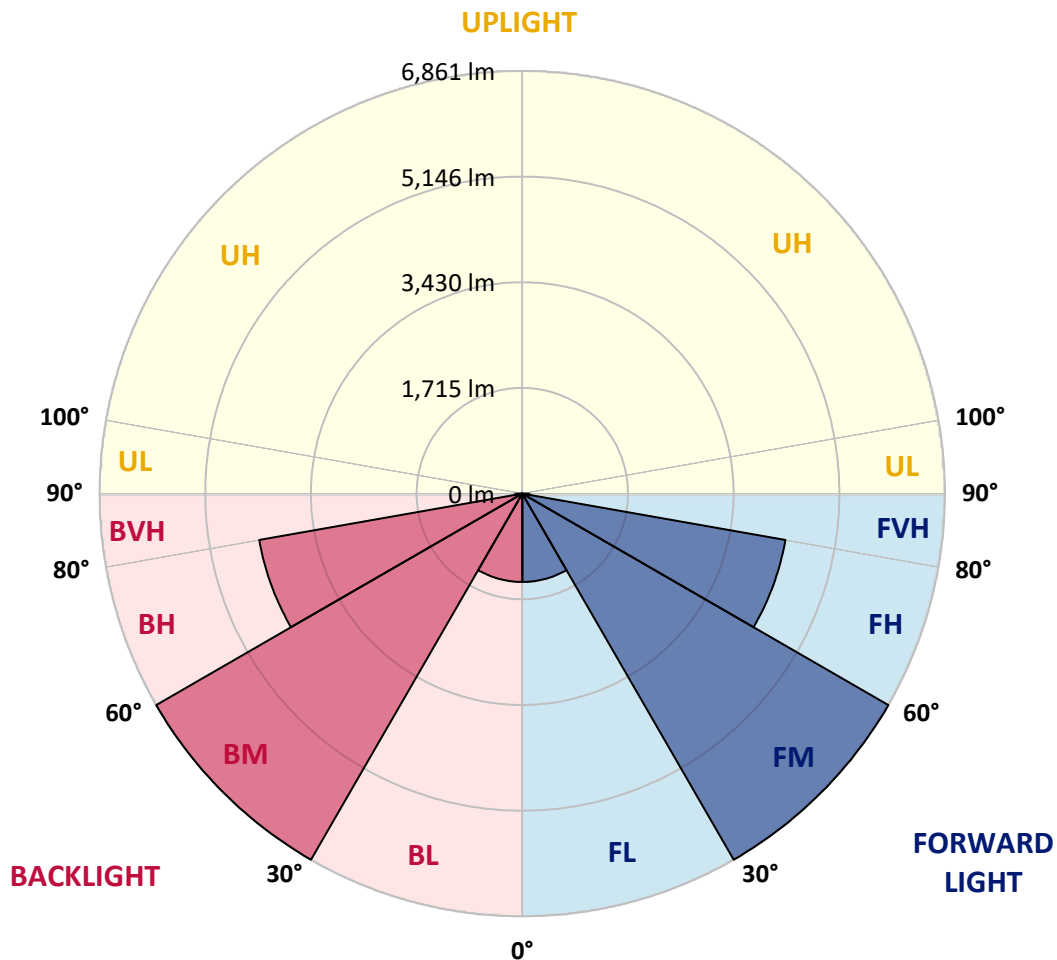
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1433.8	5.6			
FM	(30°-60°)	6860.7	26.9			
FH	(60°-80°)	4335.5	17.0			G2/5000
FVH	(80°-90°)	110.5	0.4			G2/225
BL	(0°-30°)	1433.8	5.6	B3/2500		
BM	(30°-60°)	6860.7	26.9	B4/8500		
BH	(60°-80°)	4335.5	17.0	B4/5000		G4/5000
BVH	(80°-90°)	110.5	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2668.9	2668.9	2668.9	2668.9	2668.9	2668.9	2668.9	2668.9	2668.9	2668.9	2668.9
2.5°	2655.3	2658.0	2660.7	2664.8	2670.3	2678.5	2683.9	2688.0	2698.9	2700.3	2698.9
5°	2645.7	2648.4	2655.3	2667.5	2685.3	2709.9	2729.0	2752.2	2769.9	2782.2	2779.5
7.5°	2644.3	2649.8	2660.7	2686.7	2720.8	2763.1	2806.8	2846.4	2880.5	2907.8	2903.7
10°	2666.2	2673.0	2690.8	2729.0	2782.2	2843.7	2905.1	2963.8	3012.9	3048.4	3060.7
12.5°	2703.0	2708.5	2741.3	2798.6	2875.1	2951.5	3021.1	3093.5	3161.7	3221.8	3221.8
15°	2767.2	2776.8	2817.7	2901.0	2995.2	3083.9	3154.9	3231.4	3305.1	3373.3	3393.8
17.5°	2855.9	2869.6	2931.0	3037.5	3157.6	3239.6	3306.4	3369.2	3433.4	3498.9	3508.5
20°	2977.4	2991.1	3073.0	3201.3	3343.3	3441.6	3486.6	3501.7	3533.1	3595.9	3604.1
22.5°	3142.6	3156.3	3247.7	3392.5	3550.8	3657.3	3676.4	3640.9	3632.7	3681.9	3687.3
25°	3329.7	3341.9	3447.1	3602.7	3766.5	3882.5	3877.1	3789.7	3740.6	3770.6	3778.8
27.5°	3539.9	3557.6	3664.1	3825.2	4002.7	4105.1	4088.7	3961.7	3856.6	3851.1	3853.9
30°	3808.8	3827.9	3929.0	4083.2	4258.0	4352.2	4318.0	4147.4	3984.9	3930.3	3930.3
32.5°	4092.8	4140.6	4243.0	4404.0	4540.6	4608.8	4556.9	4352.2	4136.5	4060.0	4055.9
35°	4462.7	4488.7	4589.7	4746.7	4849.1	4902.3	4802.7	4582.9	4334.4	4244.3	4232.0
37.5°	4824.5	4846.4	4963.8	5113.9	5238.2	5235.4	5100.3	4857.3	4580.1	4479.1	4470.9
40°	5194.5	5217.7	5351.5	5489.4	5613.6	5602.7	5438.8	5167.2	4872.3	4759.0	4780.8
42.5°	5515.3	5541.2	5692.8	5889.3	6001.3	5998.6	5808.8	5503.0	5195.8	5094.8	5113.9
45°	5807.4	5830.6	6006.8	6232.0	6395.8	6416.3	6208.8	5885.3	5569.9	5440.2	5445.7
47.5°	6013.6	6057.3	6241.6	6499.6	6722.1	6794.5	6591.0	6274.3	5911.2	5776.0	5784.2
50°	6170.6	6197.9	6398.6	6692.1	6973.3	7123.5	6959.6	6634.7	6252.5	6109.1	6128.3
52.5°	6189.7	6222.5	6440.9	6779.4	7139.8	7367.8	7287.3	6986.9	6600.6	6453.2	6494.1
55°	6034.1	6053.2	6313.9	6724.8	7205.4	7549.4	7569.9	7314.6	6932.3	6820.4	6847.7
57.5°	5590.4	5639.5	5969.9	6469.5	7115.3	7646.3	7781.5	7612.2	7268.2	7157.6	7201.3
60°	4862.7	4911.9	5243.6	5877.1	6775.3	7601.3	7956.2	7875.7	7572.6	7483.9	7507.1
62.5°	3810.2	3806.1	4217.0	4993.8	6099.6	7380.1	8085.9	8129.6	7872.9	7761.0	7796.5
65°	2469.6	2481.9	2879.1	3716.0	5079.8	6817.7	8114.6	8453.1	8167.8	7998.5	8024.5
66°	1986.3	2023.2	2360.4	3131.7	4559.7	6449.1	8028.6	8548.7	8257.9	8053.1	8065.4
67.5°	1466.2	1459.4	1736.5	2331.7	3640.9	5748.7	7759.6	8608.8	8360.3	8102.3	8107.8
70°	836.9	835.5	933.8	1280.5	2140.6	4047.7	6540.5	8320.7	8567.8	8279.8	8264.7
72.5°	611.6	607.5	621.2	707.2	1044.4	2043.7	4511.9	7272.3	8461.3	8251.1	8208.8
75°	513.3	510.6	507.8	518.8	585.7	925.6	2394.5	5231.3	7341.9	7744.6	7700.9
77.5°	419.1	419.1	420.5	417.7	420.5	487.4	992.5	2804.1	4470.9	4991.1	5112.6
80°	327.6	326.3	349.5	339.9	318.1	312.6	439.6	902.4	1483.9	1475.8	1217.7
82.5°	241.6	225.3	266.2	259.4	234.8	199.3	256.7	385.0	495.6	322.2	238.9
85°	152.9	151.5	188.4	172.0	143.3	94.2	122.9	165.2	204.8	124.2	101.0
87.5°	27.3	25.9	60.1	43.7	43.7	27.3	34.1	45.1	66.9	46.4	34.1
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)