

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: P528876

Luminaire Tested: **GALN-SA4A-730-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528876
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-730-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13977 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

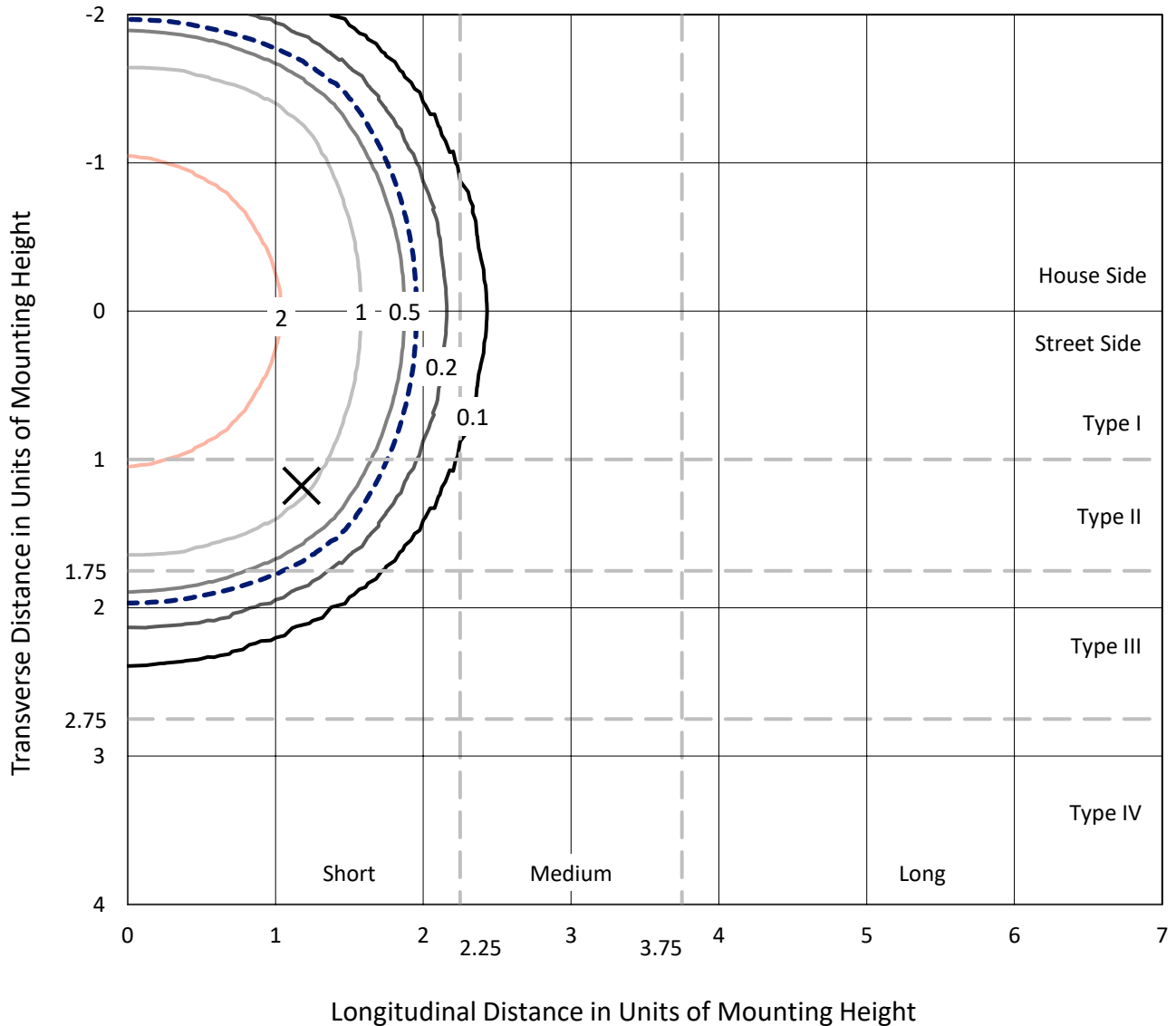
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P528876
 CATALOG NUMBER: GALN-SA4A-730-U-5WQ-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

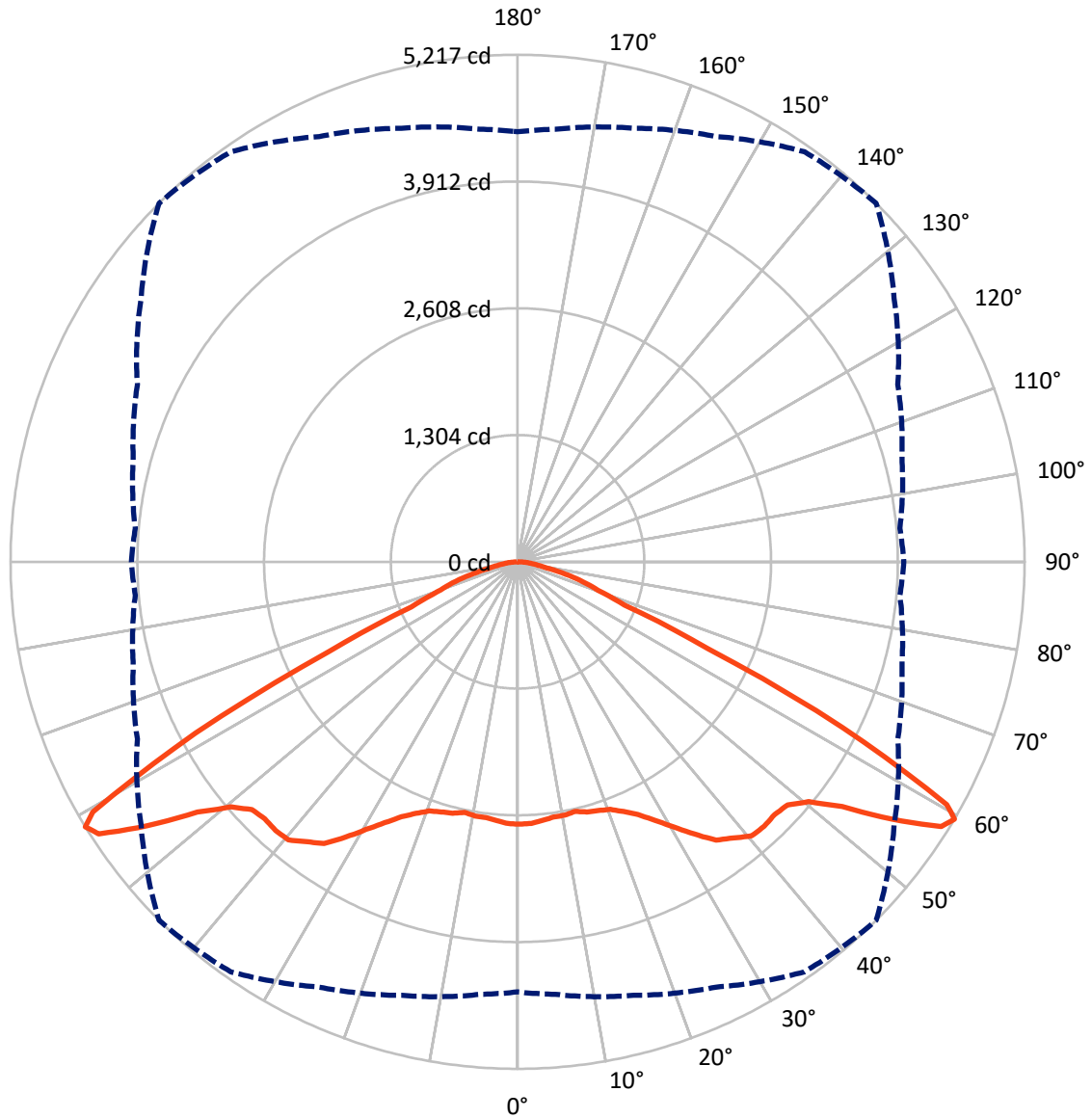
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type V - Short - N/A

REPORT NUMBER: P528876
CATALOG NUMBER: GALN-SA4A-730-U-5WQ-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 59-Deg Vertical

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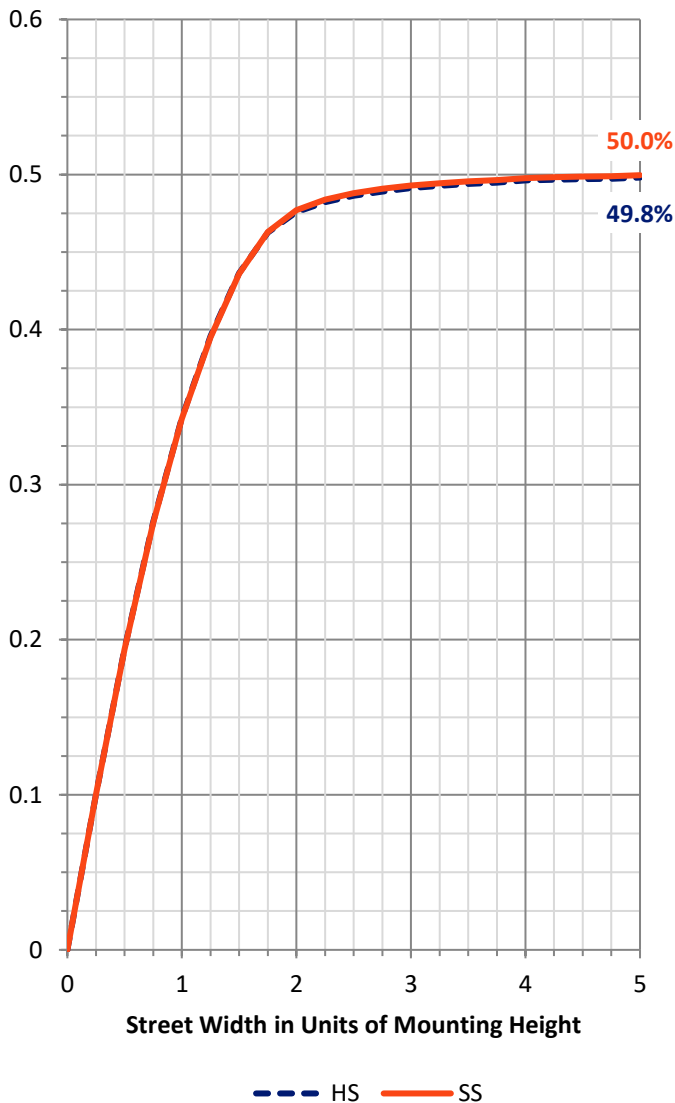
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6988.5	0.0	6988.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6988.5	0.0	6988.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	13977.0	0.0	13977.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.5	1.8
10°-20°	756.8	5.4
20°-30°	1321.5	9.5
30°-40°	2110.6	15.1
40°-50°	2875.1	20.6
50°-60°	3887.9	27.8
60°-70°	2132.1	15.3
70°-80°	545.4	3.9
80°-90°	93.0	0.7
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°	13977.0	100.0
0°-180°	13977.0	100.0

Coefficient of Utilization



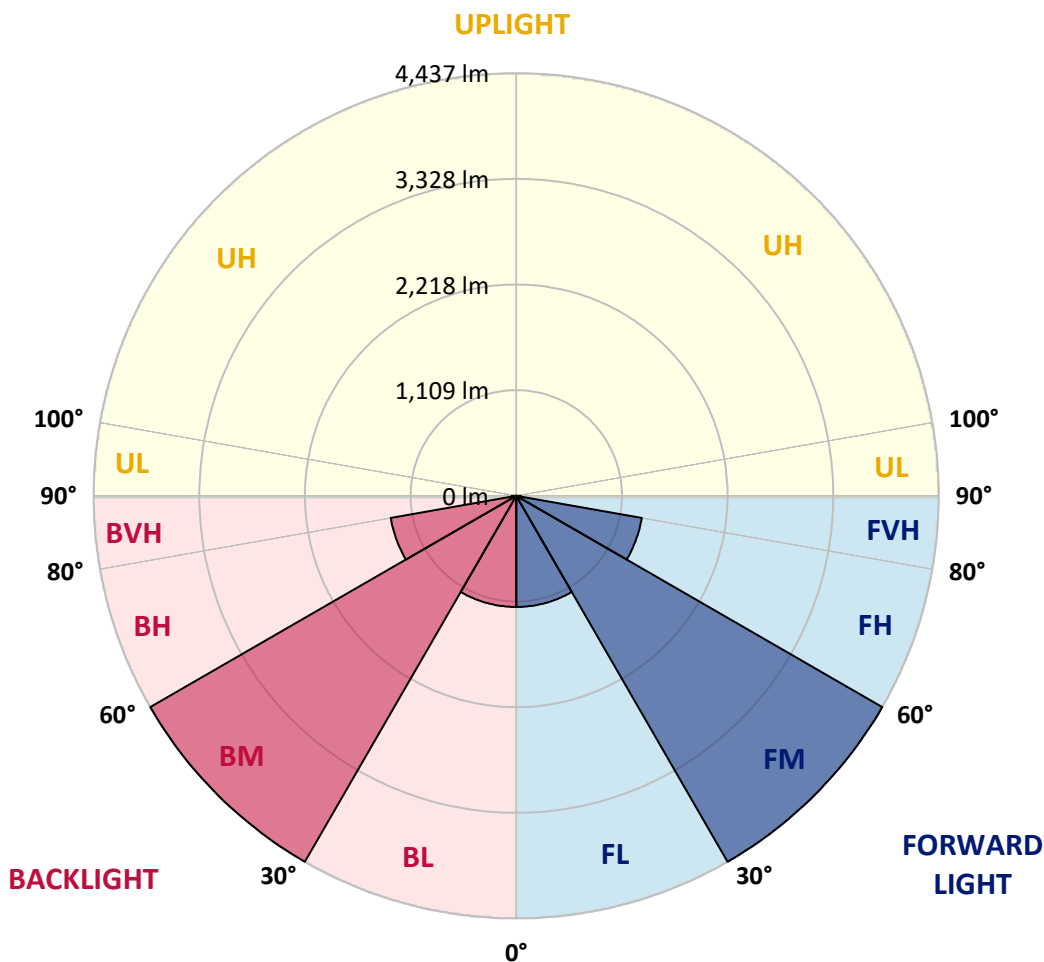
REPORT NUMBER: P528876
 CATALOG NUMBER: GALN-SA4A-730-U-5WQ-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1166.4	8.3			
FM (30°-60°)	4436.8	31.7			
FH (60°-80°)	1338.8	9.6			G1/1800
FVH (80°-90°)	46.5	0.3			G1/100
BL (0°-30°)	1166.4	8.3	B3/2500		
BM (30°-60°)	4436.8	31.7	B3/5000		
BH (60°-80°)	1338.8	9.6	B3/2500		G1/1800
BVH (80°-90°)	46.5	0.3			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°	2699.7	2699.7	2699.7	2699.7	2699.7	2699.7	2699.7	2699.7	2699.7	2699.7	2699.7
2.5°	2683.6	2703.3	2688.9	2701.5	2699.7	2694.3	2685.4	2680.0	2672.8	2683.6	2665.7
5°	2672.8	2688.9	2705.1	2683.6	2683.6	2672.8	2667.4	2656.7	2656.7	2654.9	2653.1
7.5°	2690.7	2674.6	2667.4	2671.0	2674.6	2651.3	2667.4	2645.9	2628.0	2640.6	2654.9
10°	2674.6	2681.8	2654.9	2667.4	2647.7	2651.3	2640.6	2654.9	2635.2	2635.2	2635.2
12.5°	2690.7	2671.0	2680.0	2671.0	2665.7	2635.2	2649.5	2633.4	2631.6	2649.5	2633.4
15°	2723.0	2690.7	2683.6	2665.7	2671.0	2671.0	2656.7	2658.5	2638.8	2649.5	2653.1
17.5°	2712.2	2694.3	2688.9	2667.4	2685.4	2690.7	2663.9	2645.9	2658.5	2656.7	2654.9
20°	2721.2	2728.4	2723.0	2726.6	2733.7	2719.4	2694.3	2669.2	2653.1	2676.4	2674.6
22.5°	2778.5	2771.3	2767.8	2764.2	2776.7	2791.1	2757.0	2717.6	2717.6	2733.7	2740.9
25°	2825.1	2823.3	2821.5	2837.6	2880.6	2880.6	2837.6	2787.5	2774.9	2785.7	2776.7
27.5°	2893.2	2912.9	2905.7	2934.4	2997.1	3011.4	2954.1	2895.0	2860.9	2848.4	2864.5
30°	3049.0	3025.7	3031.1	3061.6	3117.1	3163.7	3075.9	3013.2	2966.6	2964.8	2972.0
32.5°	3152.9	3170.8	3187.0	3215.6	3303.4	3339.2	3233.5	3131.4	3102.8	3086.6	3092.0
35°	3360.7	3344.6	3341.0	3369.7	3457.5	3516.6	3384.0	3294.4	3256.8	3292.7	3292.7
37.5°	3557.8	3513.0	3479.0	3516.6	3597.2	3604.4	3491.5	3443.1	3423.4	3464.6	3462.8
40°	3650.9	3647.4	3568.5	3590.0	3697.5	3708.3	3602.6	3545.2	3541.7	3595.4	3649.1
42.5°	3747.7	3713.6	3634.8	3649.1	3715.4	3719.0	3618.7	3602.6	3642.0	3693.9	3697.5
45°	3763.8	3735.1	3685.0	3649.1	3697.5	3708.3	3649.1	3659.9	3663.5	3726.2	3726.2
47.5°	3796.0	3792.5	3763.8	3736.9	3745.9	3736.9	3699.3	3715.4	3769.2	3799.6	3785.3
50°	3885.6	3848.0	3876.7	3853.4	3855.2	3880.2	3846.2	3862.3	3851.6	3824.7	3806.8
52.5°	4082.7	4064.8	4089.8	4106.0	4123.9	4181.2	4141.8	4055.8	3975.2	3903.5	3901.7
55°	4371.1	4383.6	4432.0	4514.4	4584.3	4675.6	4485.7	4279.7	4150.7	4037.9	4045.1
57.5°	4643.4	4634.4	4700.7	4888.8	5093.0	5139.6	4767.0	4473.2	4263.6	4192.0	4161.5
59°	4424.8	4467.8	4618.3	4827.9	5148.6	5216.6	4729.4	4315.6	4093.4	3948.3	3973.4
60°	4080.9	4097.0	4231.4	4523.4	4956.9	5073.3	4476.8	4071.9	3776.3	3692.1	3729.8
62.5°	2884.2	2871.7	2968.4	3206.7	3595.4	3753.0	3328.5	3043.6	2857.3	2764.2	2785.7
65°	1533.5	1590.8	1630.2	1778.9	1984.9	2151.5	1975.9	1852.3	1748.4	1671.4	1669.6
67.5°	1035.4	1028.3	1037.2	1071.3	1141.1	1187.7	1184.1	1121.4	1112.5	1098.1	1114.3
70°	872.4	868.8	852.7	852.7	867.1	877.8	890.3	897.5	911.8	929.8	928.0
72.5°	707.6	698.7	687.9	682.5	700.4	705.8	721.9	729.1	741.7	739.9	756.0
75°	467.6	467.6	480.1	494.4	499.8	510.6	512.3	533.8	533.8	537.4	523.1
77.5°	261.5	254.4	263.3	277.7	290.2	309.9	329.6	345.7	354.7	351.1	351.1
80°	152.3	152.3	161.2	177.4	193.5	211.4	225.7	238.3	247.2	243.6	236.5
82.5°	94.9	94.9	103.9	120.0	132.6	143.3	163.0	179.1	189.9	186.3	177.4
85°	48.4	48.4	59.1	69.9	86.0	93.2	91.4	84.2	82.4	73.4	73.4
87.5°	12.5	12.5	17.9	19.7	16.1	17.9	17.9	17.9	17.9	17.9	19.7
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)