

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: P529573

Luminaire Tested: **GALN-SA4D-730-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529573
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-730-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16726 lumens
Efficiency: N/A
Efficacy: 68.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

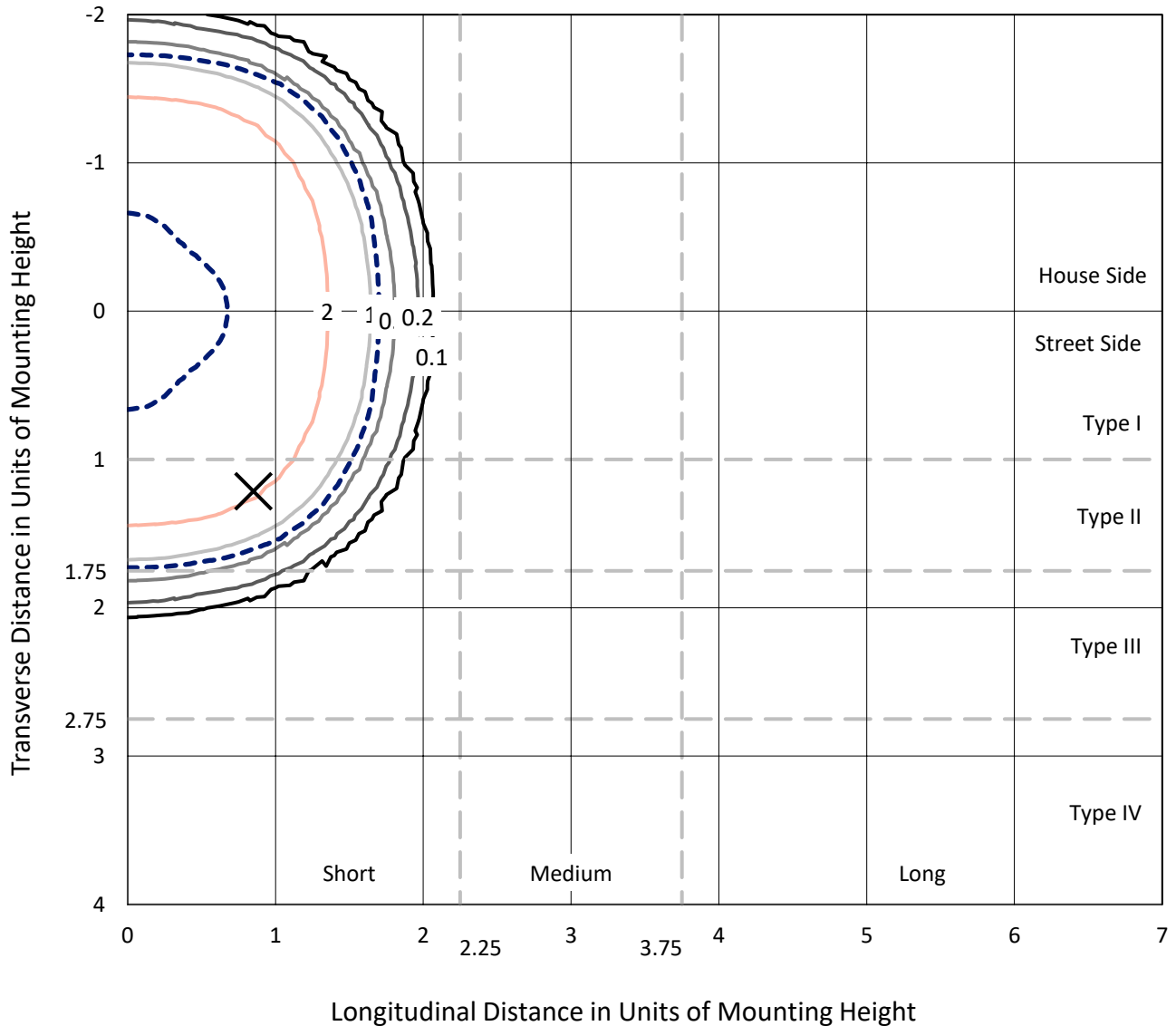
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

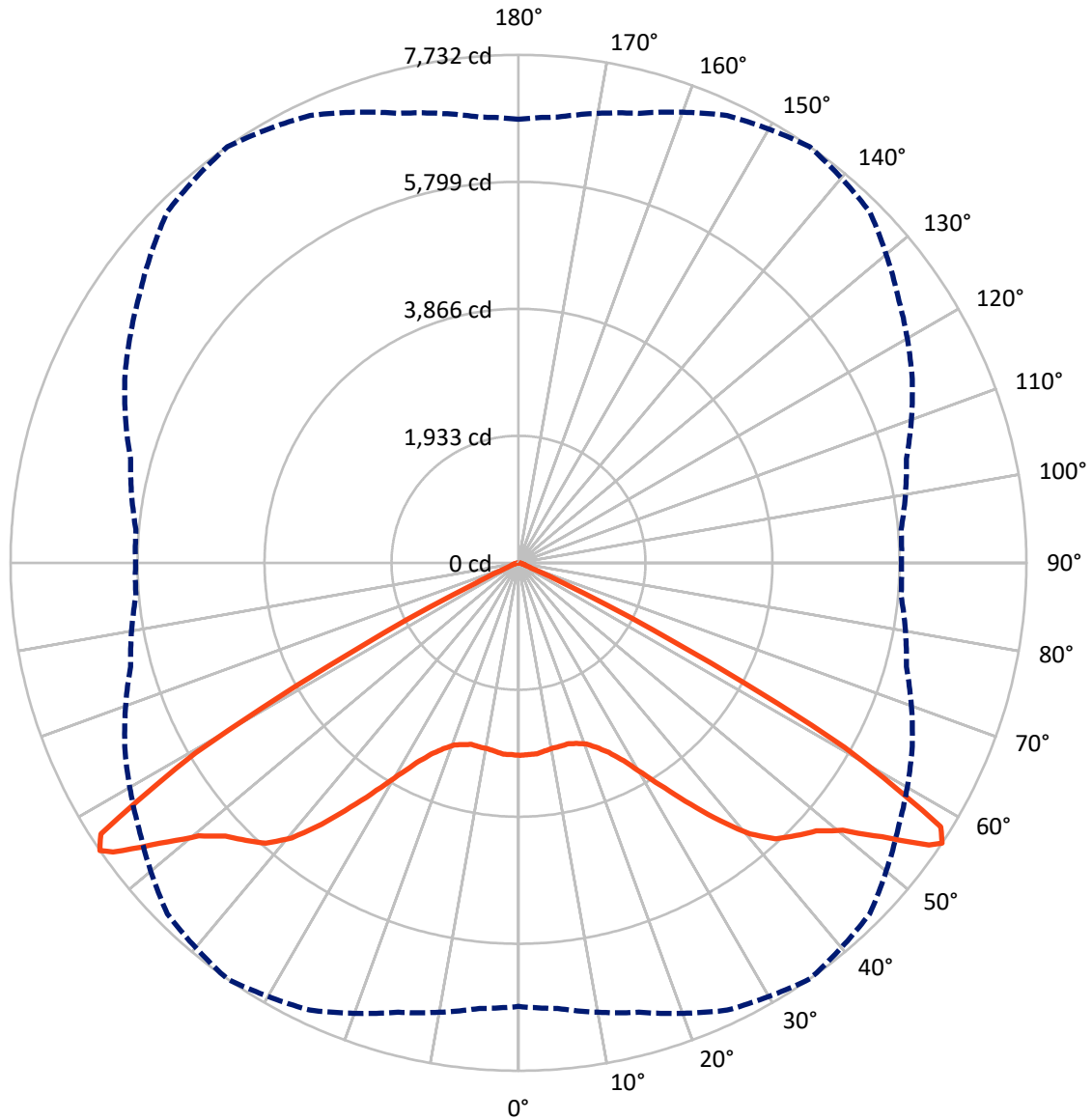
× Max cd
 - - - 1/2 Max cd



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



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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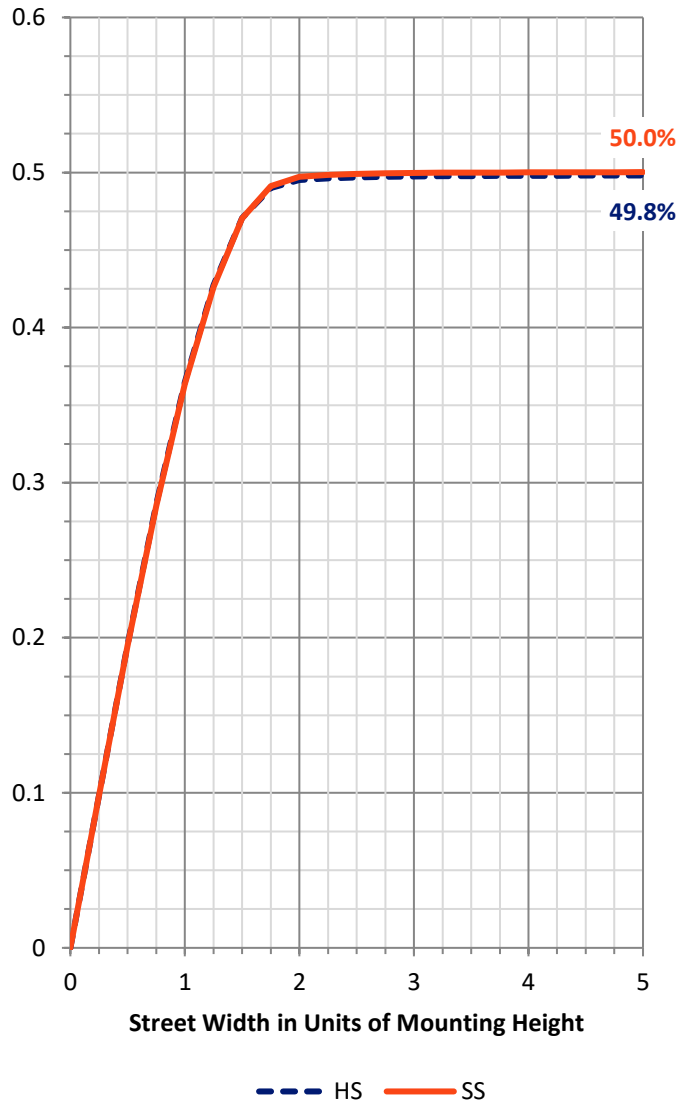
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8363.0	0.0	8363.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8363.0	0.0	8363.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	16726.0	0.0	16726.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.4	1.6
10°-20°	804.2	4.8
20°-30°	1456.2	8.7
30°-40°	2700.4	16.1
40°-50°	4432.5	26.5
50°-60°	5710.4	34.1
60°-70°	1258.5	7.5
70°-80°	73.0	0.4
80°-90°	15.4	0.1
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°	16726.0	100.0
0°-180°	16726.0	100.0

Coefficient of Utilization



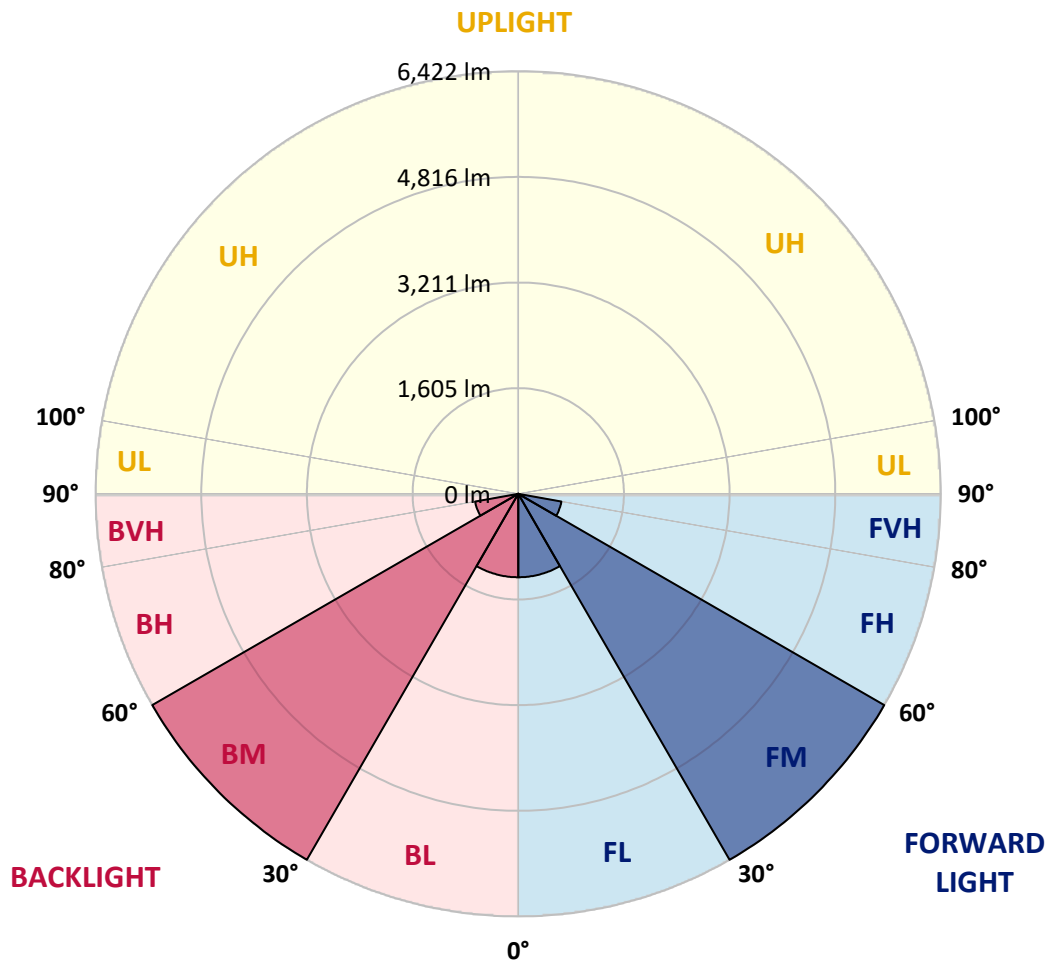
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1267.9	7.6			
FM (30°-60°)	6421.6	38.4			
FH (60°-80°)	665.8	4.0			G1/1800
FVH (80°-90°)	7.7	0.0			G0/10
BL (0°-30°)	1267.9	7.6	B3/2500		
BM (30°-60°)	6421.6	38.4	B4/8500		
BH (60°-80°)	665.8	4.0	B2/1000		G1/1800
BVH (80°-90°)	7.7	0.0			G0/10
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°	2930.8	2930.8	2930.8	2930.8	2930.8	2930.8	2930.8	2930.8	2930.8	2930.8	2930.8
2.5°	2936.8	2936.8	2939.8	2942.9	2921.7	2912.6	2915.6	2909.5	2906.5	2915.6	2915.6
5°	2927.7	2927.7	2918.6	2921.7	2921.7	2894.4	2894.4	2900.4	2900.4	2882.3	2876.2
7.5°	2903.5	2897.4	2885.3	2900.4	2891.4	2891.4	2870.1	2855.0	2848.9	2861.0	2848.9
10°	2852.0	2855.0	2867.1	2873.2	2867.1	2885.3	2848.9	2827.7	2806.5	2797.4	2797.4
12.5°	2827.7	2845.9	2827.7	2842.9	2864.1	2848.9	2827.7	2812.6	2782.2	2770.1	2770.1
15°	2824.7	2836.8	2842.9	2864.1	2855.0	2861.0	2818.6	2800.4	2755.0	2733.8	2724.7
17.5°	2821.6	2836.8	2845.9	2885.3	2891.4	2894.4	2861.0	2806.5	2767.1	2745.9	2724.7
20°	2855.0	2861.0	2879.2	2918.6	2942.9	2985.3	2924.7	2867.1	2782.2	2758.0	2748.9
22.5°	2897.4	2927.7	2945.9	2988.3	3052.0	3088.4	3009.6	2936.8	2848.9	2818.6	2782.2
25°	3033.8	3027.7	3058.0	3145.9	3197.5	3224.7	3161.1	3055.0	2939.8	2903.5	2909.5
27.5°	3203.5	3209.6	3236.9	3333.8	3409.6	3452.0	3376.3	3236.9	3124.7	3064.1	3058.0
30°	3424.8	3418.7	3449.0	3579.3	3715.7	3779.4	3646.0	3482.4	3373.2	3294.4	3312.6
32.5°	3658.1	3661.2	3746.0	3864.2	4085.5	4209.7	3994.6	3794.5	3630.9	3576.3	3549.0
35°	4003.6	4018.8	4085.5	4267.3	4512.8	4673.4	4437.0	4197.6	4009.7	3909.7	3921.8
37.5°	4431.0	4415.8	4528.0	4725.0	4982.6	5100.8	4900.8	4628.0	4437.0	4370.4	4412.8
40°	4885.6	4900.8	4958.3	5137.2	5425.1	5503.9	5206.9	5058.4	4891.7	4858.3	4909.8
42.5°	5340.2	5331.1	5373.6	5534.2	5743.3	5688.8	5513.0	5425.1	5306.9	5240.2	5309.9
45°	5673.6	5658.4	5737.2	5846.4	5922.1	5819.1	5740.3	5710.0	5649.4	5576.6	5640.3
47.5°	5997.9	5985.8	6061.5	6091.8	6097.9	5961.5	5976.7	6031.2	5879.7	5728.2	5800.9
50°	6273.7	6252.5	6346.4	6413.1	6398.0	6179.7	6234.3	6179.7	5943.3	5764.5	5737.2
52.5°	6734.4	6743.5	6843.5	6964.7	6928.3	6746.5	6667.7	6419.2	6116.1	5955.5	5861.5
55°	7025.3	6979.9	7152.6	7537.5	7580.0	7392.0	7043.5	6676.8	6222.2	6025.2	6000.9
56°	6752.6	6810.1	7082.9	7513.3	7731.5	7558.7	7052.6	6613.1	6113.1	5846.4	5828.2
57.5°	6058.5	6028.2	6398.0	6985.9	7580.0	7507.2	6804.1	6158.5	5576.6	5276.6	5240.2
60°	3770.3	3858.2	4182.5	4909.8	5703.9	5740.3	5043.2	4488.6	3809.7	3543.0	3606.6
62.5°	1476.0	1400.2	1603.3	2145.8	2691.3	2812.6	2548.9	2118.5	1739.7	1476.0	1457.8
65°	342.5	333.4	375.8	518.3	724.4	839.5	797.1	572.8	421.3	400.1	369.8
67.5°	194.0	194.0	184.9	184.9	203.1	215.2	206.1	203.1	212.2	221.2	218.2
70°	136.4	133.4	127.3	130.3	124.3	124.3	133.4	148.5	160.6	160.6	163.7
72.5°	81.8	81.8	81.8	90.9	90.9	90.9	100.0	112.1	115.2	112.1	109.1
75°	36.4	36.4	42.4	51.5	57.6	60.6	69.7	75.8	81.8	75.8	69.7
77.5°	9.1	9.1	15.2	21.2	27.3	33.3	45.5	54.6	57.6	54.6	45.5
80°	3.0	3.0	6.1	15.2	27.3	33.3	45.5	48.5	51.5	45.5	36.4
82.5°	3.0	3.0	6.1	15.2	21.2	27.3	36.4	42.4	45.5	39.4	36.4
85°	0.0	3.0	6.1	12.1	18.2	24.2	24.2	18.2	15.2	9.1	12.1
87.5°	0.0	0.0	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)