

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: P529365

Luminaire Tested: **GALN-SA4C-735-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529365
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-SA4C-735-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 1050mA 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: 15549 lumens
Efficiency: N/A
Efficacy: 73.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

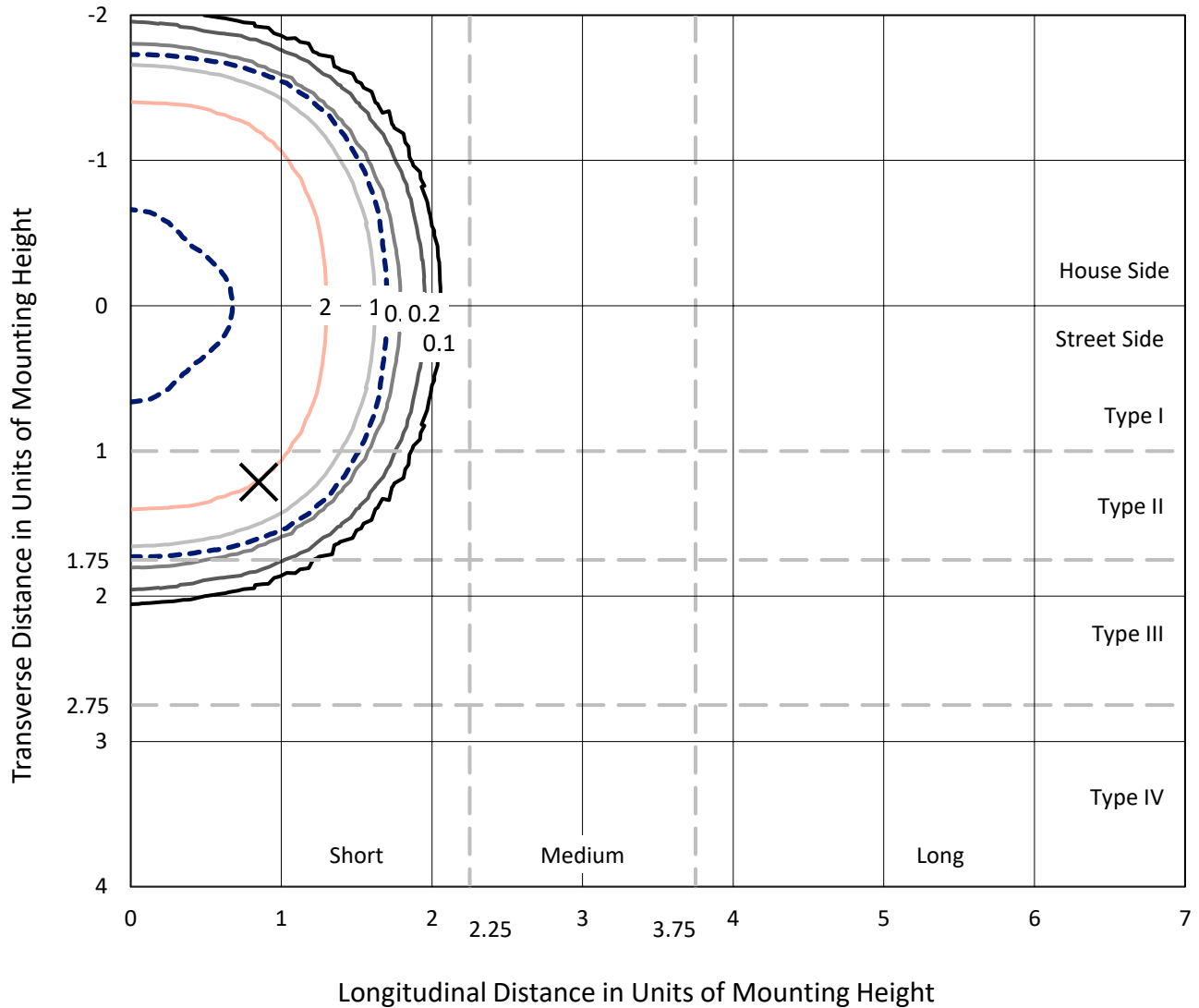
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P529365
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Iso-Footcandle Lines of Horizontal Illumination

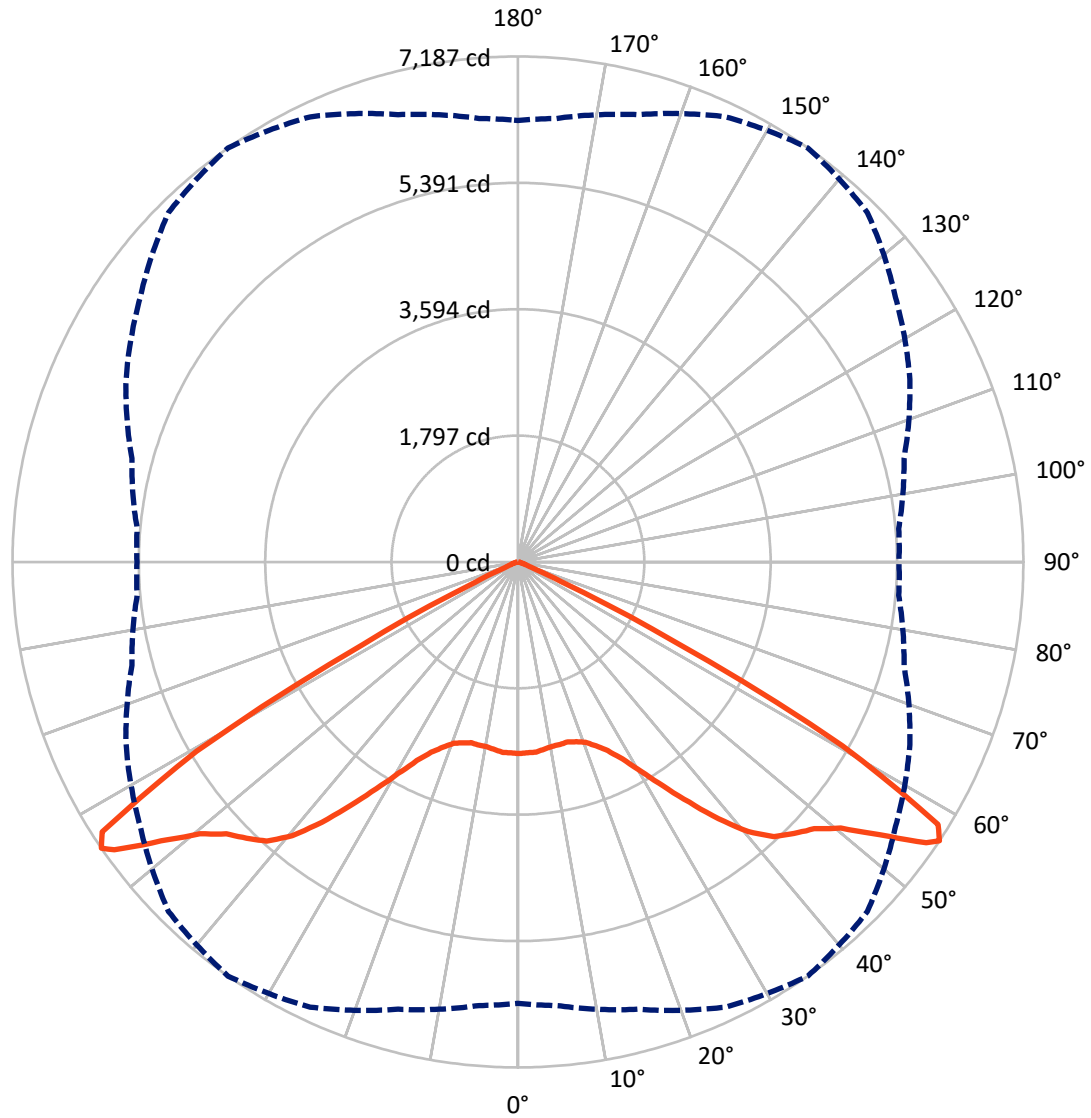
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P529365
CATALOG NUMBER: GALN-SA4C-735-U-5MQ-GRSBK

Luminous Intensity Polar Plot



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

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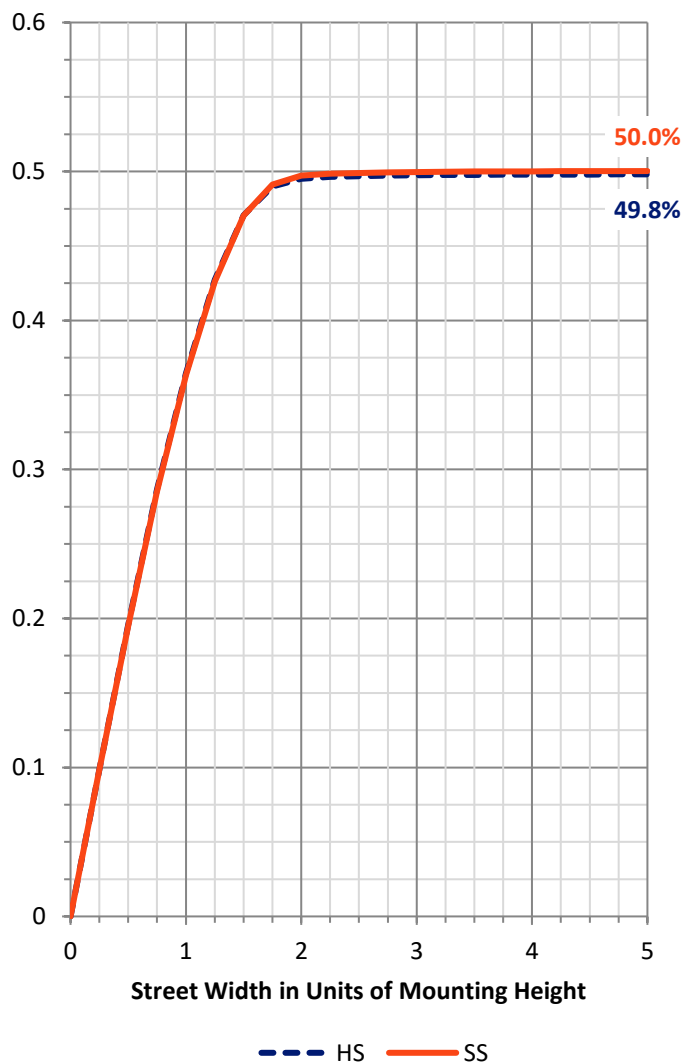
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7774.5	0.0	7774.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7774.5	0.0	7774.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	15549.0	0.0	15549.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.1	1.6
10°-20°	747.6	4.8
20°-30°	1353.8	8.7
30°-40°	2510.4	16.1
40°-50°	4120.6	26.5
50°-60°	5308.5	34.1
60°-70°	1169.9	7.5
70°-80°	67.9	0.4
80°-90°	14.3	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°	15549.0	100.0
0°-180°	15549.0	100.0

Coefficient of Utilization



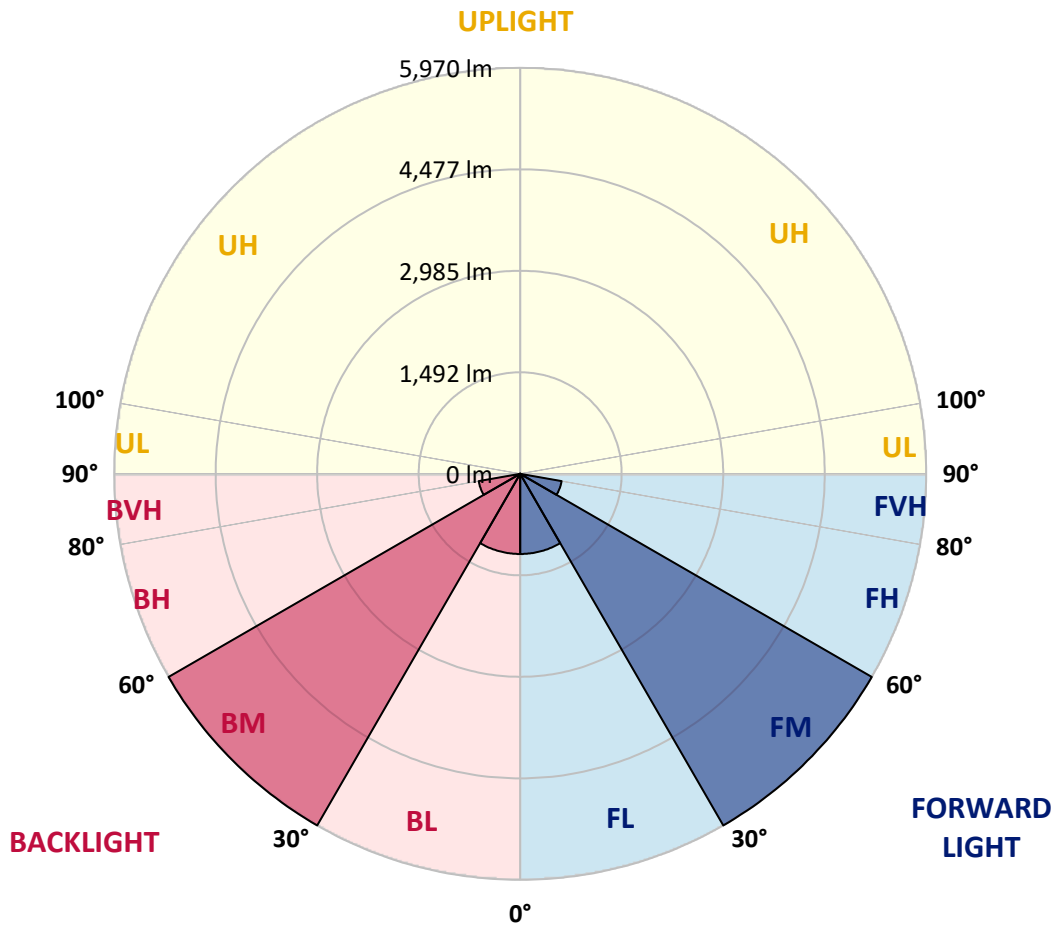
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1178.7	7.6			
FM (30°-60°)	5969.7	38.4			
FH (60°-80°)	618.9	4.0			G0/660
FVH (80°-90°)	7.1	0.0			G0/10
BL (0°-30°)	1178.7	7.6	B3/2500		
BM (30°-60°)	5969.7	38.4	B4/8500		
BH (60°-80°)	618.9	4.0	B2/1000		G0/660
BVH (80°-90°)	7.1	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-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2724.5	2724.5	2724.5	2724.5	2724.5	2724.5	2724.5	2724.5	2724.5	2724.5	2724.5
2.5°	2730.2	2730.2	2733.0	2735.8	2716.1	2707.6	2710.4	2704.8	2702.0	2710.4	2710.4
5°	2721.7	2721.7	2713.2	2716.1	2716.1	2690.7	2690.7	2696.3	2696.3	2679.4	2673.8
7.5°	2699.2	2693.5	2682.3	2696.3	2687.9	2687.9	2668.2	2654.1	2648.4	2659.7	2648.4
10°	2651.3	2654.1	2665.4	2671.0	2665.4	2682.3	2648.4	2628.7	2609.0	2600.5	2600.5
12.5°	2628.7	2645.6	2628.7	2642.8	2662.5	2648.4	2628.7	2614.6	2586.5	2575.2	2575.2
15°	2625.9	2637.2	2642.8	2662.5	2654.1	2659.7	2620.3	2603.4	2561.1	2541.4	2532.9
17.5°	2623.1	2637.2	2645.6	2682.3	2687.9	2690.7	2659.7	2609.0	2572.4	2552.7	2532.9
20°	2654.1	2659.7	2676.6	2713.2	2735.8	2775.2	2718.9	2665.4	2586.5	2563.9	2555.5
22.5°	2693.5	2721.7	2738.6	2778.1	2837.2	2871.0	2797.8	2730.2	2648.4	2620.3	2586.5
25°	2820.3	2814.7	2842.9	2924.6	2972.5	2997.8	2938.6	2840.0	2733.0	2699.2	2704.8
27.5°	2978.1	2983.7	3009.1	3099.2	3169.7	3209.1	3138.7	3009.1	2904.8	2848.5	2842.9
30°	3183.8	3178.1	3206.3	3327.5	3454.3	3513.4	3389.4	3237.3	3135.9	3062.6	3079.5
32.5°	3400.7	3403.5	3482.4	3592.3	3798.0	3913.5	3713.5	3527.5	3375.4	3324.6	3299.3
35°	3721.9	3736.0	3798.0	3967.0	4195.3	4344.6	4124.8	3902.2	3727.5	3634.6	3645.8
37.5°	4119.2	4105.1	4209.3	4392.5	4632.0	4741.8	4555.9	4302.3	4124.8	4062.8	4102.3
40°	4541.8	4555.9	4609.4	4775.7	5043.3	5116.6	4840.5	4702.4	4547.4	4516.4	4564.3
42.5°	4964.4	4956.0	4995.4	5144.7	5339.2	5288.4	5125.0	5043.3	4933.4	4871.5	4936.3
45°	5274.4	5260.3	5333.5	5435.0	5505.4	5409.6	5336.3	5308.2	5251.8	5184.2	5243.4
47.5°	5575.8	5564.6	5635.0	5663.2	5668.8	5542.0	5556.1	5606.8	5465.9	5325.1	5392.7
50°	5832.2	5812.5	5899.8	5961.8	5947.7	5744.9	5795.6	5744.9	5525.1	5358.9	5333.5
52.5°	6260.5	6268.9	6361.9	6474.6	6440.8	6271.7	6198.5	5967.5	5685.7	5536.4	5449.0
55°	6531.0	6488.7	6649.3	7007.1	7046.6	6871.9	6547.9	6206.9	5784.3	5601.2	5578.6
56°	6277.4	6330.9	6584.5	6984.6	7187.4	7026.8	6556.3	6147.8	5682.9	5435.0	5418.0
57.5°	5632.2	5604.0	5947.7	6494.3	7046.6	6978.9	6325.3	5725.2	5184.2	4905.3	4871.5
60°	3505.0	3586.7	3888.1	4564.3	5302.5	5336.3	4688.3	4172.7	3541.6	3293.7	3352.8
62.5°	1372.1	1301.7	1490.5	1994.8	2501.9	2614.6	2369.5	1969.4	1617.2	1372.1	1355.2
65°	318.4	309.9	349.4	481.8	673.4	780.4	741.0	532.5	391.6	371.9	343.7
67.5°	180.3	180.3	171.9	171.9	188.8	200.0	191.6	188.8	197.2	205.7	202.9
70°	126.8	124.0	118.3	121.2	115.5	115.5	124.0	138.1	149.3	149.3	152.1
72.5°	76.1	76.1	76.1	84.5	84.5	84.5	93.0	104.2	107.1	104.2	101.4
75°	33.8	33.8	39.4	47.9	53.5	56.3	64.8	70.4	76.1	70.4	64.8
77.5°	8.5	8.5	14.1	19.7	25.4	31.0	42.3	50.7	53.5	50.7	42.3
80°	2.8	2.8	5.6	14.1	25.4	31.0	42.3	45.1	47.9	42.3	33.8
82.5°	2.8	2.8	5.6	14.1	19.7	25.4	33.8	39.4	42.3	36.6	33.8
85°	0.0	2.8	5.6	11.3	16.9	22.5	22.5	16.9	14.1	8.5	11.3
87.5°	0.0	0.0	2.8	2.8	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)