

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: P529417

Luminaire Tested: **GALN-SA4C-750-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529417
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-750-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K, 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: 16691 lumens
Efficiency: N/A
Efficacy: 78.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

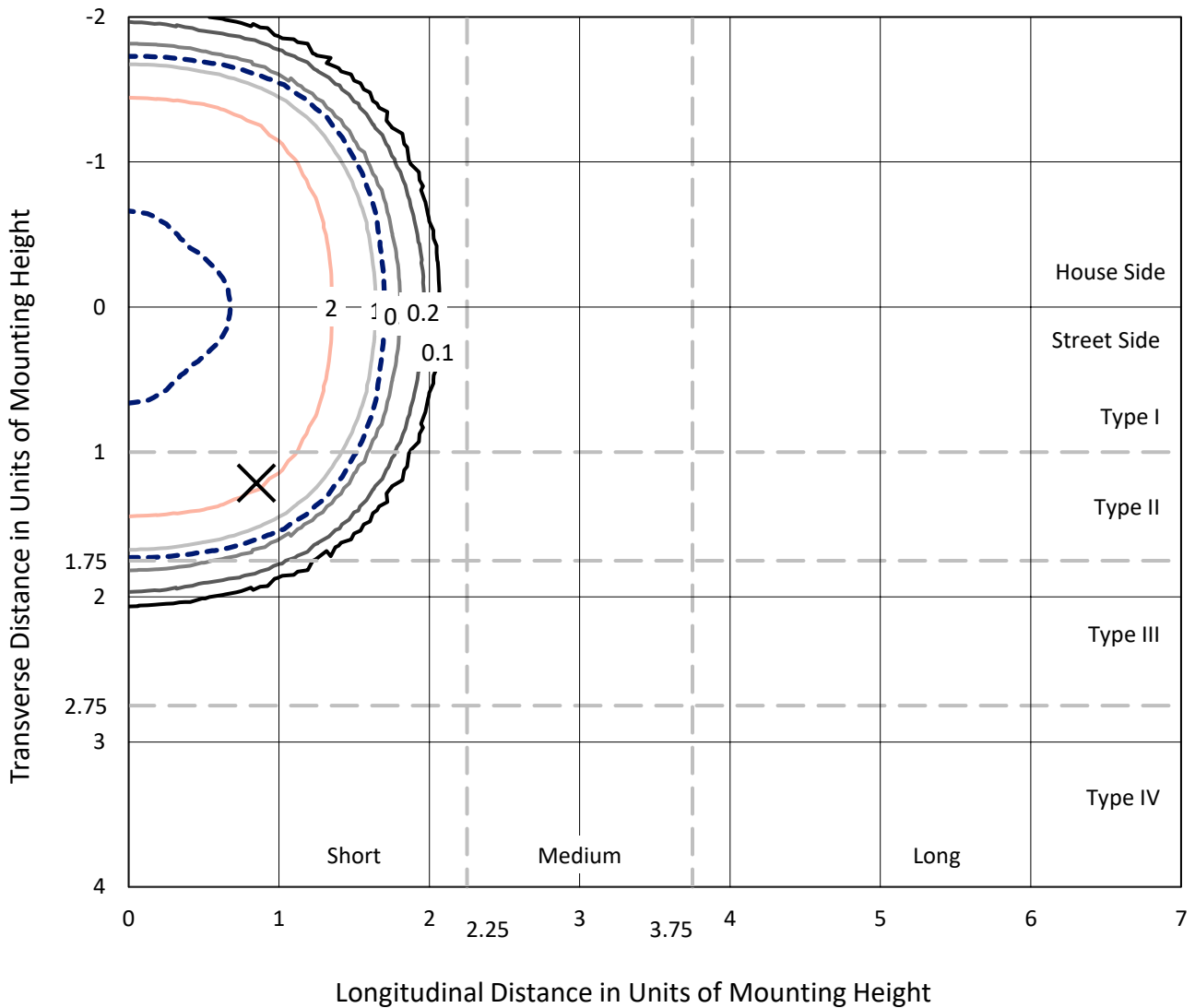
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

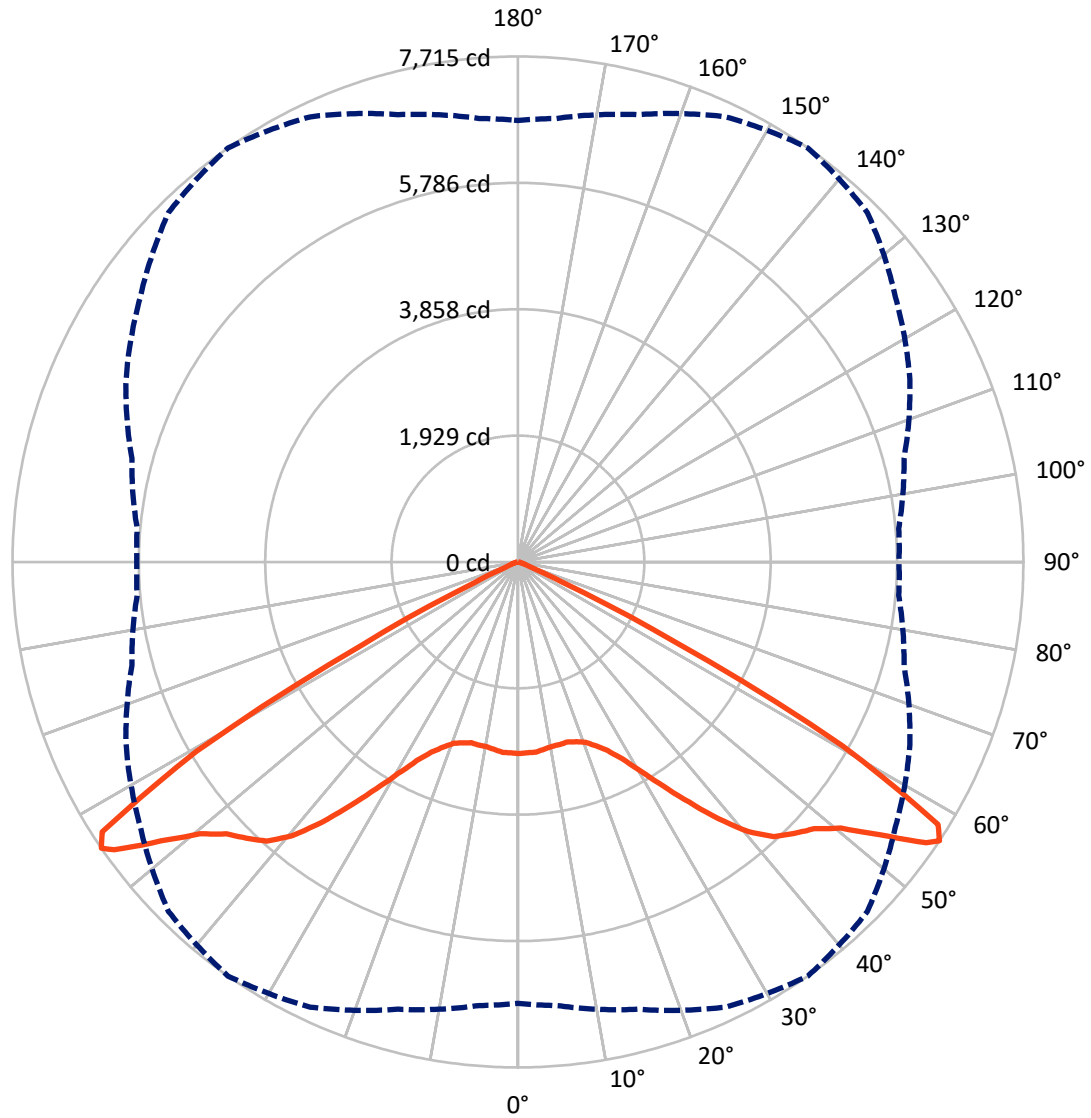
✕ Max cd
 - - - 1/2 Max cd



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	8345.5	0.0	8345.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8345.5	0.0	8345.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	16691.0	0.0	16691.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.9	1.6
10°-20°	802.5	4.8
20°-30°	1453.2	8.7
30°-40°	2694.7	16.1
40°-50°	4423.2	26.5
50°-60°	5698.4	34.1
60°-70°	1255.9	7.5
70°-80°	72.9	0.4
80°-90°	15.3	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°	16691.0	100.0
0°-180°	16691.0	100.0

Coefficient of Utilization



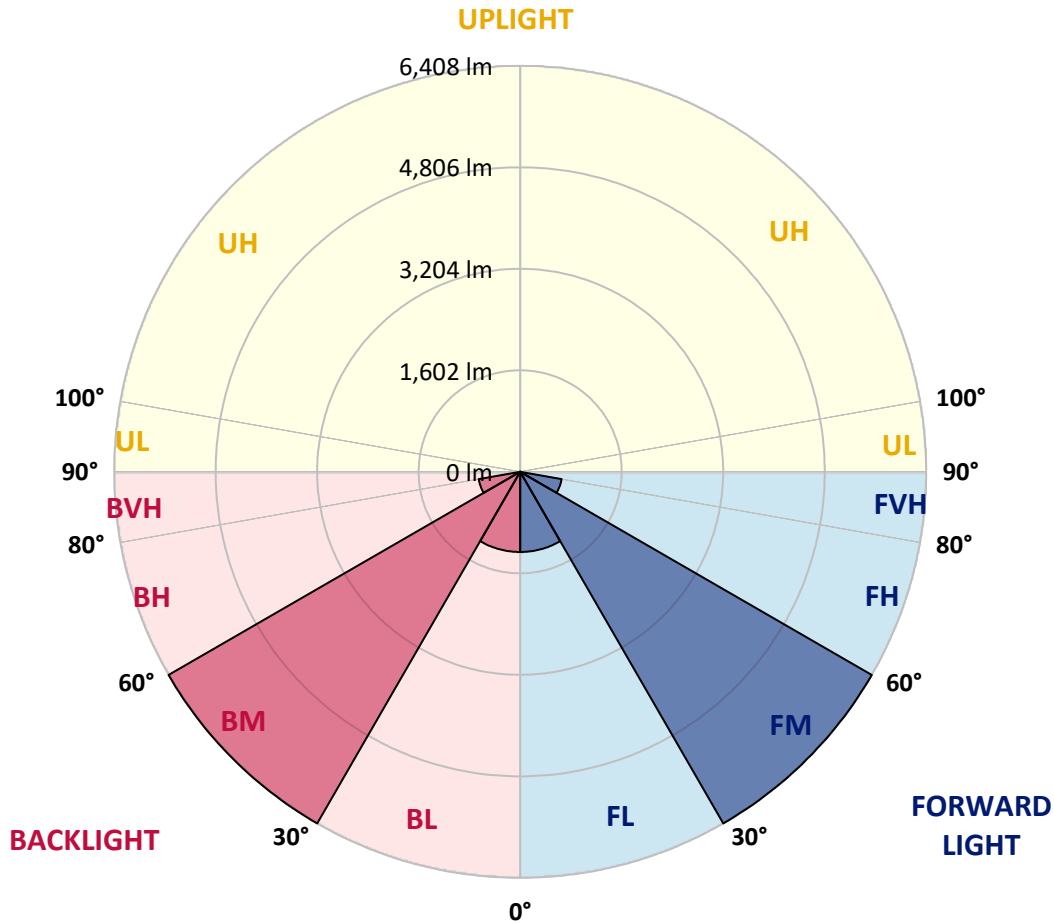
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1265.3	7.6			
FM (30°-60°)	6408.2	38.4			
FH (60°-80°)	664.4	4.0			G1/1800
FVH (80°-90°)	7.7	0.0			G0/10
BL (0°-30°)	1265.3	7.6	B3/2500		
BM (30°-60°)	6408.2	38.4	B4/8500		
BH (60°-80°)	664.4	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°	2924.6	2924.6	2924.6	2924.6	2924.6	2924.6	2924.6	2924.6	2924.6	2924.6	2924.6
2.5°	2930.7	2930.7	2933.7	2936.7	2915.5	2906.5	2909.5	2903.5	2900.4	2909.5	2909.5
5°	2921.6	2921.6	2912.5	2915.5	2915.5	2888.3	2888.3	2894.4	2894.4	2876.2	2870.2
7.5°	2897.4	2891.4	2879.3	2894.4	2885.3	2885.3	2864.1	2849.0	2843.0	2855.1	2843.0
10°	2846.0	2849.0	2861.1	2867.2	2861.1	2879.3	2843.0	2821.8	2800.6	2791.5	2791.5
12.5°	2821.8	2839.9	2821.8	2836.9	2858.1	2843.0	2821.8	2806.7	2776.4	2764.3	2764.3
15°	2818.8	2830.9	2836.9	2858.1	2849.0	2855.1	2812.7	2794.6	2749.2	2728.0	2719.0
17.5°	2815.7	2830.9	2839.9	2879.3	2885.3	2888.3	2855.1	2800.6	2761.3	2740.1	2719.0
20°	2849.0	2855.1	2873.2	2912.5	2936.7	2979.1	2918.6	2861.1	2776.4	2752.2	2743.2
22.5°	2891.4	2921.6	2939.7	2982.1	3045.6	3081.9	3003.3	2930.7	2843.0	2812.7	2776.4
25°	3027.5	3021.4	3051.6	3139.4	3190.8	3218.0	3154.5	3048.6	2933.7	2897.4	2903.5
27.5°	3196.8	3202.9	3230.1	3326.9	3402.5	3444.8	3369.2	3230.1	3118.2	3057.7	3051.6
30°	3417.6	3411.6	3441.8	3571.8	3707.9	3771.5	3638.4	3475.1	3366.2	3287.6	3305.7
32.5°	3650.5	3653.5	3738.2	3856.1	4076.9	4200.9	3986.2	3786.6	3623.3	3568.8	3541.6
35°	3995.3	4010.4	4076.9	4258.4	4503.4	4663.7	4427.8	4188.8	4001.3	3901.5	3913.6
37.5°	4421.7	4406.6	4518.5	4715.1	4972.2	5090.1	4890.5	4618.3	4427.8	4361.2	4403.6
40°	4875.4	4890.5	4948.0	5126.4	5413.7	5492.4	5196.0	5047.8	4881.4	4848.2	4899.6
42.5°	5329.0	5320.0	5362.3	5522.6	5731.3	5676.9	5501.4	5413.7	5295.8	5229.2	5298.8
45°	5661.7	5646.6	5725.2	5834.1	5909.7	5806.9	5728.3	5698.0	5637.5	5564.9	5628.5
47.5°	5985.3	5973.2	6048.9	6079.1	6085.1	5949.1	5964.2	6018.6	5867.4	5716.2	5788.8
50°	6260.6	6239.4	6333.2	6399.7	6384.6	6166.8	6221.2	6166.8	5930.9	5752.5	5725.2
52.5°	6720.3	6729.4	6829.2	6950.1	6913.8	6732.4	6653.7	6405.7	6103.3	5943.0	5849.2
55°	7010.6	6965.3	7137.7	7521.8	7564.1	7376.6	7028.8	6662.8	6209.2	6012.6	5988.4
56°	6738.4	6795.9	7068.1	7497.6	7715.3	7542.9	7037.8	6599.3	6100.3	5834.1	5816.0
57.5°	6045.8	6015.6	6384.6	6971.3	7564.1	7491.5	6789.8	6145.6	5564.9	5265.5	5229.2
60°	3762.4	3850.1	4173.7	4899.6	5692.0	5728.3	5032.6	4479.2	3801.7	3535.6	3599.1
62.5°	1472.9	1397.3	1599.9	2141.3	2685.7	2806.7	2543.5	2114.1	1736.0	1472.9	1454.8
65°	341.8	332.7	375.0	517.2	722.8	837.8	795.4	571.6	420.4	399.2	369.0
67.5°	193.6	193.6	184.5	184.5	202.6	214.7	205.7	202.6	211.7	220.8	217.8
70°	136.1	133.1	127.0	130.1	124.0	124.0	133.1	148.2	160.3	160.3	163.3
72.5°	81.7	81.7	81.7	90.7	90.7	90.7	99.8	111.9	114.9	111.9	108.9
75°	36.3	36.3	42.3	51.4	57.5	60.5	69.6	75.6	81.7	75.6	69.6
77.5°	9.1	9.1	15.1	21.2	27.2	33.3	45.4	54.4	57.5	54.4	45.4
80°	3.0	3.0	6.0	15.1	27.2	33.3	45.4	48.4	51.4	45.4	36.3
82.5°	3.0	3.0	6.0	15.1	21.2	27.2	36.3	42.3	45.4	39.3	36.3
85°	0.0	3.0	6.0	12.1	18.1	24.2	24.2	18.1	15.1	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)