

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: P530331

Luminaire Tested: **GALN-SA5C-740-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530331
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-740-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18365 lumens
Efficiency: N/A
Efficacy: 68.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

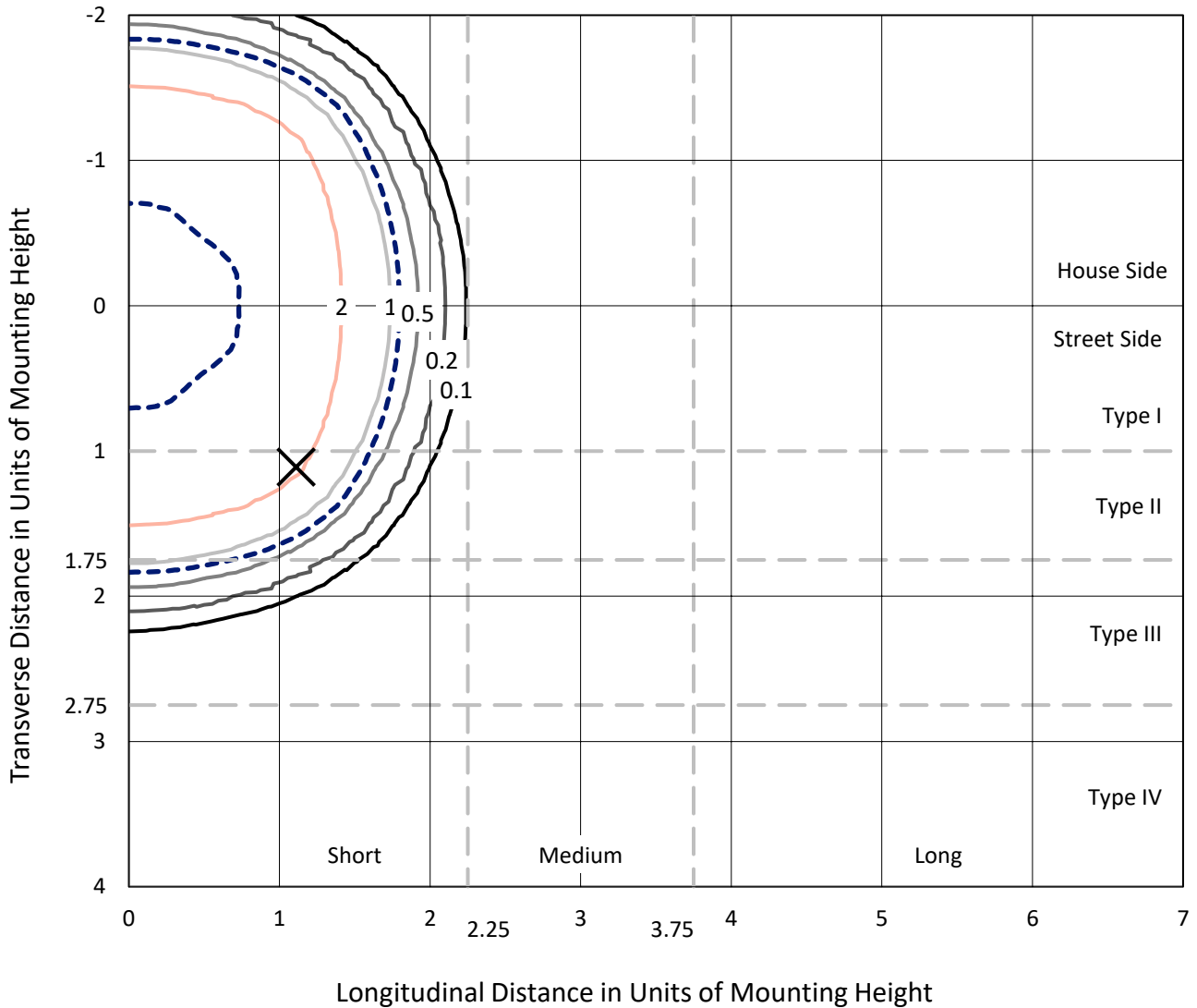
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

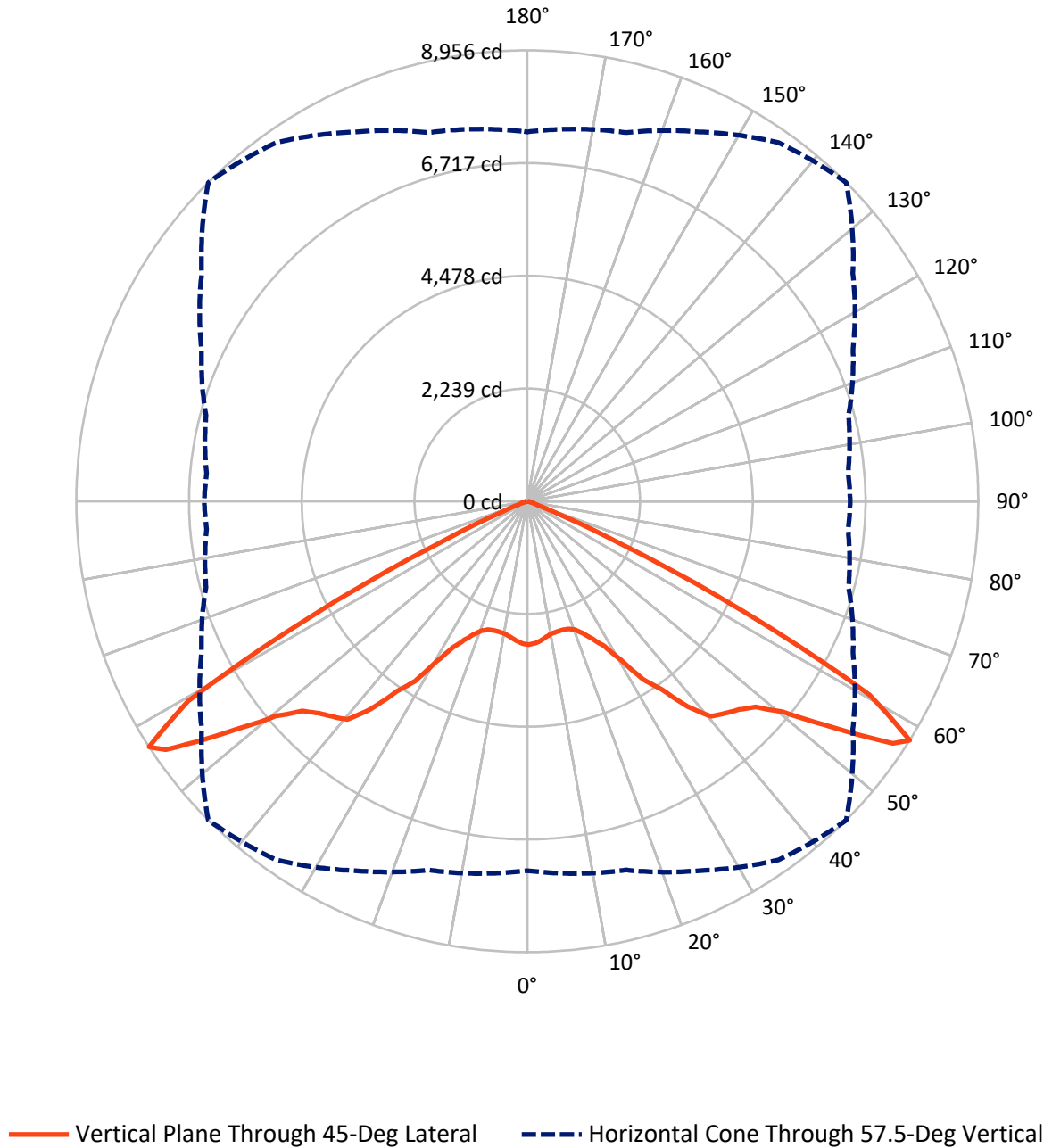
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9182.5	0.0	9182.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9182.5	0.0	9182.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	18365.0	0.0	18365.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.8	1.4
10°-20°	756.6	4.1
20°-30°	1396.7	7.6
30°-40°	2746.7	15.0
40°-50°	4473.6	24.4
50°-60°	6379.9	34.7
60°-70°	2208.9	12.0
70°-80°	118.5	0.6
80°-90°	22.3	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°	18365.0	100.0
0°-180°	18365.0	100.0



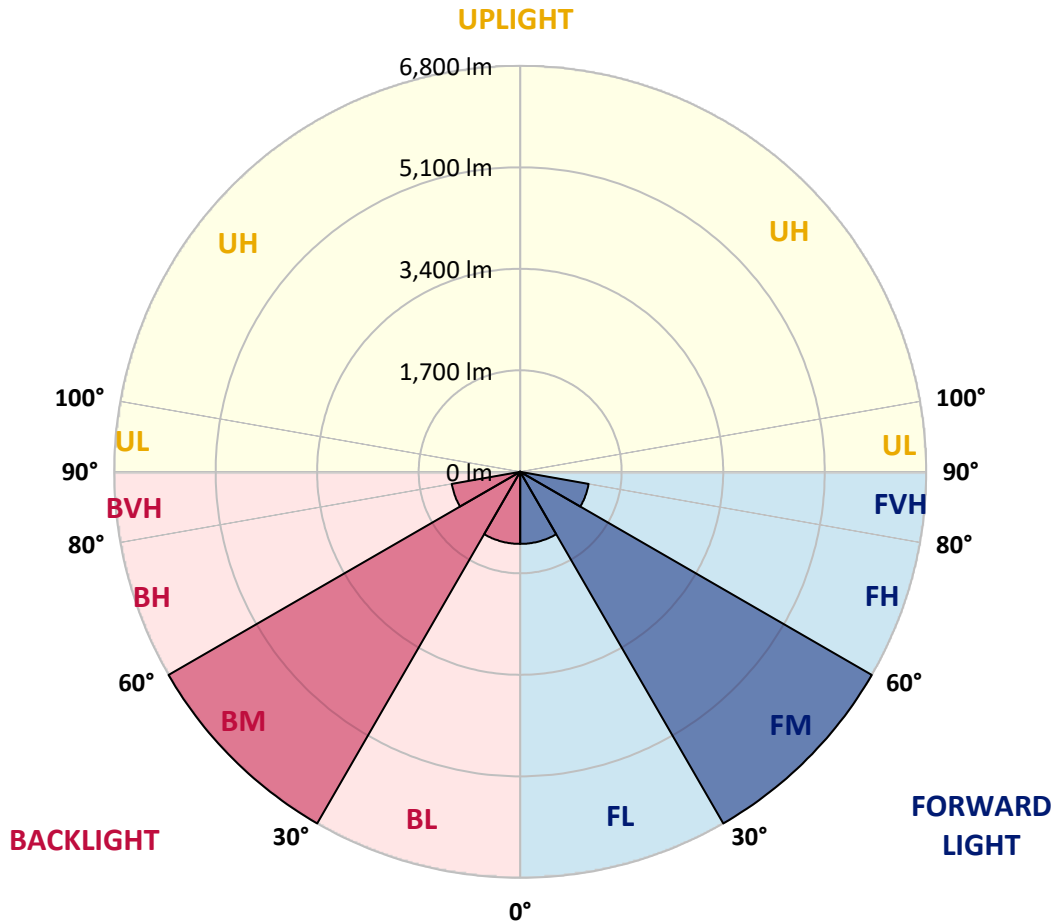
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1207.5	6.6			
FM (30°-60°)	6800.1	37.0			
FH (60°-80°)	1163.7	6.3			G1/1800
FVH (80°-90°)	11.1	0.1			G1/100
BL (0°-30°)	1207.5	6.6	B3/2500		
BM (30°-60°)	6800.1	37.0	B4/8500		
BH (60°-80°)	1163.7	6.3	B3/2500		G1/1800
BVH (80°-90°)	11.1	0.1			G1/100
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°	2848.6	2848.6	2848.6	2848.6	2848.6	2848.6	2848.6	2848.6	2848.6	2848.6	2848.6
2.5°	2840.9	2856.3	2837.1	2829.5	2825.6	2825.6	2814.1	2814.1	2810.3	2814.1	2798.8
5°	2795.0	2810.3	2810.3	2806.5	2783.5	2779.7	2768.2	2760.5	2764.4	2749.1	2760.5
7.5°	2749.1	2760.5	2745.2	2741.4	2733.7	2718.4	2714.6	2680.1	2684.0	2684.0	2691.6
10°	2741.4	2737.6	2714.6	2695.5	2672.5	2668.7	2657.2	2649.5	2649.5	2645.7	2657.2
12.5°	2741.4	2722.3	2718.4	2676.3	2638.0	2653.3	2622.7	2603.6	2630.4	2638.0	2653.3
15°	2737.6	2756.7	2691.6	2672.5	2645.7	2649.5	2622.7	2603.6	2618.9	2626.5	2638.0
17.5°	2760.5	2749.1	2729.9	2691.6	2680.1	2664.8	2630.4	2615.0	2615.0	2634.2	2638.0
20°	2821.8	2791.2	2752.9	2733.7	2745.2	2726.1	2684.0	2626.5	2641.9	2657.2	2668.7
22.5°	2879.2	2856.3	2829.5	2818.0	2883.1	2852.4	2779.7	2714.6	2691.6	2718.4	2737.6
25°	2990.3	2990.3	2940.5	2955.8	3028.6	3032.4	2948.2	2833.3	2818.0	2829.5	2837.1
27.5°	3216.2	3227.7	3185.5	3200.9	3231.5	3258.3	3185.5	3089.8	3055.4	3051.5	3063.0
30°	3461.2	3484.2	3480.4	3545.4	3633.5	3648.8	3541.6	3384.6	3281.3	3262.1	3277.4
32.5°	3782.8	3794.3	3786.7	3863.2	4100.6	4211.6	3932.1	3710.1	3572.2	3606.7	3572.2
35°	4387.8	4376.3	4292.0	4307.4	4502.6	4583.0	4315.0	4173.4	4108.3	4177.2	4161.9
37.5°	4908.5	4866.4	4797.4	4897.0	5099.9	5172.7	4893.2	4644.3	4525.6	4640.5	4690.2
40°	5348.8	5241.6	5145.9	5245.4	5517.3	5616.8	5207.1	5004.2	4958.3	5042.5	5149.7
42.5°	5720.2	5651.3	5524.9	5532.6	5712.5	5758.5	5429.2	5310.5	5264.6	5398.6	5452.2
45°	5984.4	5919.3	5800.6	5792.9	5930.8	5900.1	5605.3	5524.9	5551.7	5639.8	5666.6
47.5°	6118.4	6152.8	6083.9	6103.1	6175.8	6103.1	5869.5	5869.5	5808.2	5861.8	5835.0
50°	6505.1	6397.9	6485.9	6485.9	6562.5	6570.2	6336.6	6252.4	6087.7	5995.9	5995.9
52.5°	6956.9	6964.5	6999.0	7125.3	7255.5	7366.6	7033.4	6673.5	6397.9	6279.2	6263.9
55°	7328.3	7404.8	7542.7	7780.1	8155.3	8308.4	7734.1	7090.9	6753.9	6570.2	6531.9
56°	7531.2	7458.4	7695.8	8021.3	8511.4	8710.4	7849.0	7175.1	6803.7	6597.0	6593.1
57.5°	7335.9	7416.3	7581.0	8094.0	8695.1	8955.5	7891.1	7136.8	6604.6	6394.0	6413.2
60°	5792.9	5869.5	6091.6	6665.9	7607.8	7810.7	6677.4	5884.8	5410.1	5107.6	5111.4
62.5°	3277.4	3334.9	3507.2	4039.4	4625.2	4820.4	4161.9	3633.5	3304.2	3135.8	3082.2
65°	1206.1	1183.1	1209.9	1481.7	1841.6	2006.3	1730.6	1462.6	1290.3	1229.0	1206.1
67.5°	451.8	417.3	390.5	417.3	524.5	555.2	509.2	425.0	398.2	409.7	417.3
70°	279.5	264.2	210.6	199.1	195.3	191.4	202.9	214.4	245.0	287.2	294.8
72.5°	195.3	183.8	149.3	141.7	134.0	130.2	149.3	164.6	191.4	222.1	225.9
75°	76.6	80.4	76.6	84.2	88.1	91.9	107.2	118.7	130.2	130.2	126.3
77.5°	15.3	15.3	23.0	30.6	38.3	49.8	72.7	84.2	88.1	84.2	72.7
80°	0.0	0.0	7.7	15.3	30.6	42.1	65.1	72.7	80.4	72.7	57.4
82.5°	0.0	0.0	7.7	19.1	30.6	38.3	61.3	76.6	88.1	80.4	61.3
85°	0.0	0.0	7.7	15.3	23.0	26.8	26.8	19.1	19.1	11.5	7.7
87.5°	0.0	0.0	0.0	0.0	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)