

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: P531371

Luminaire Tested: **GALN-SA6C-830-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531371
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-SA6C-830-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 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: 17280 lumens
Efficiency: N/A
Efficacy: 53.8 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): 321
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

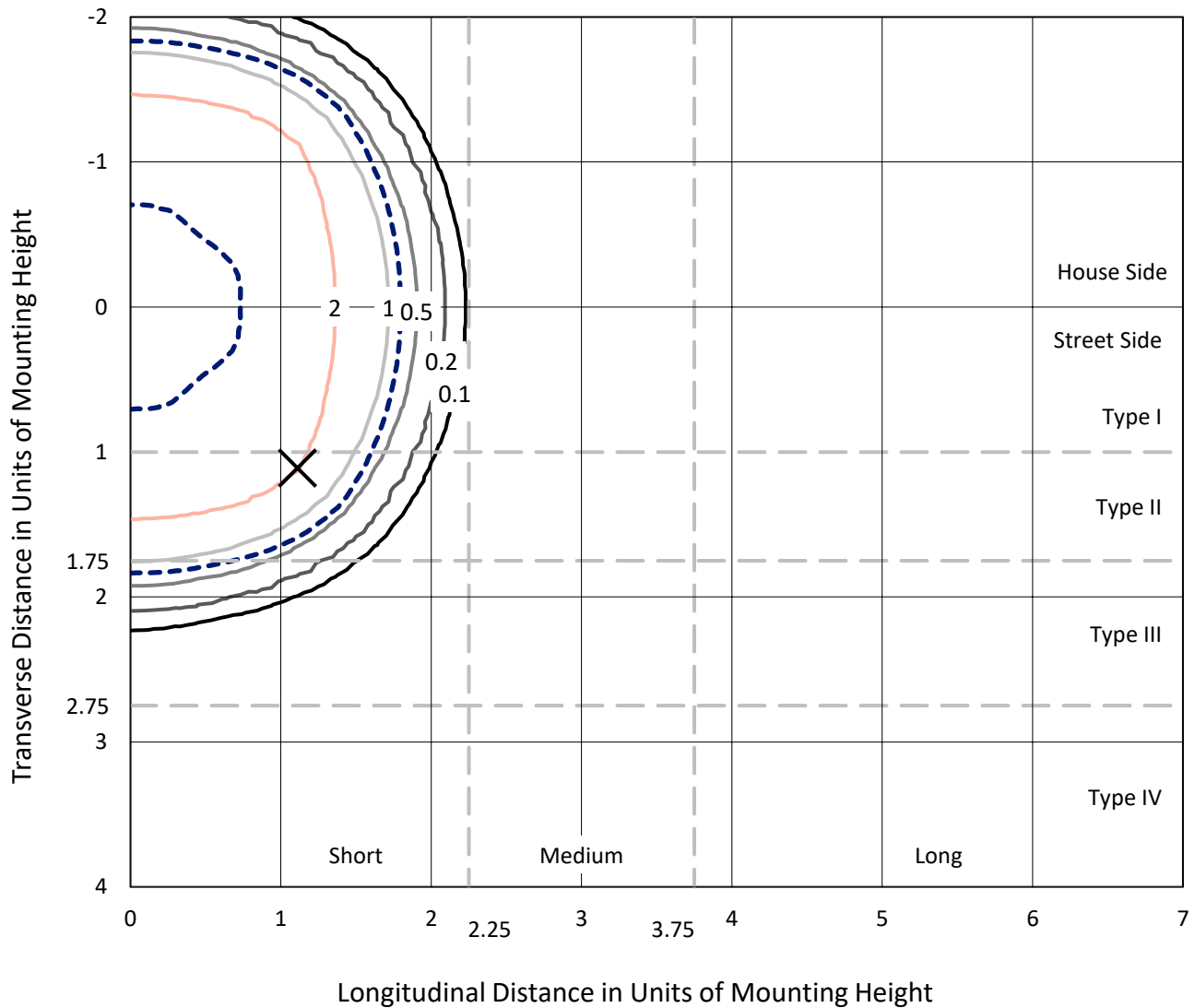


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Iso-Footcandle Lines of Horizontal Illumination

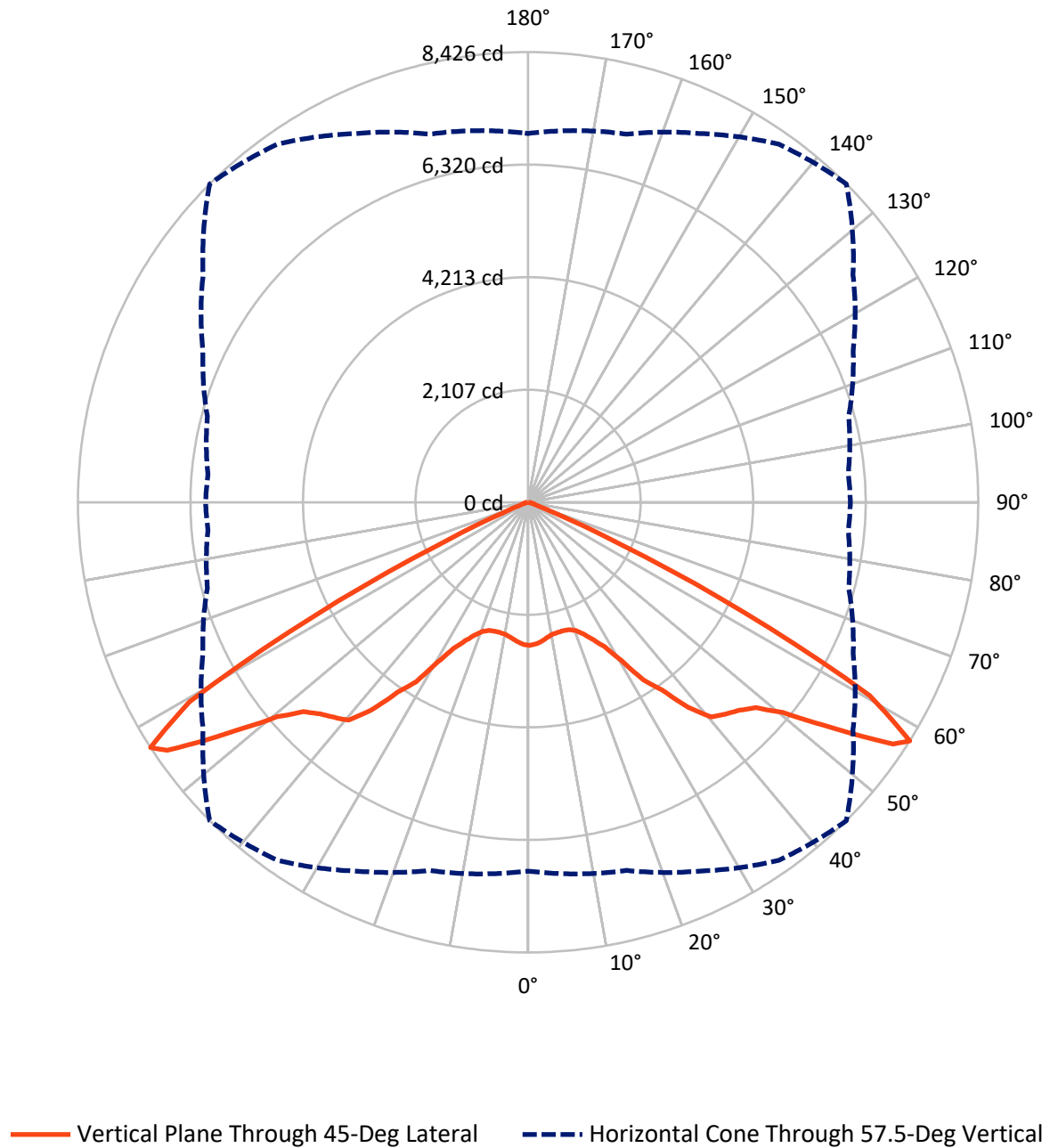
✕ Max cd
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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	8640.0	0.0	8640.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8640.0	0.0	8640.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	17280.0	0.0	17280.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.3	1.4
10°-20°	711.9	4.1
20°-30°	1314.1	7.6
30°-40°	2584.4	15.0
40°-50°	4209.3	24.4
50°-60°	6003.0	34.7
60°-70°	2078.4	12.0
70°-80°	111.5	0.6
80°-90°	20.9	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°	17280.0	100.0
0°-180°	17280.0	100.0

Coefficient of Utilization



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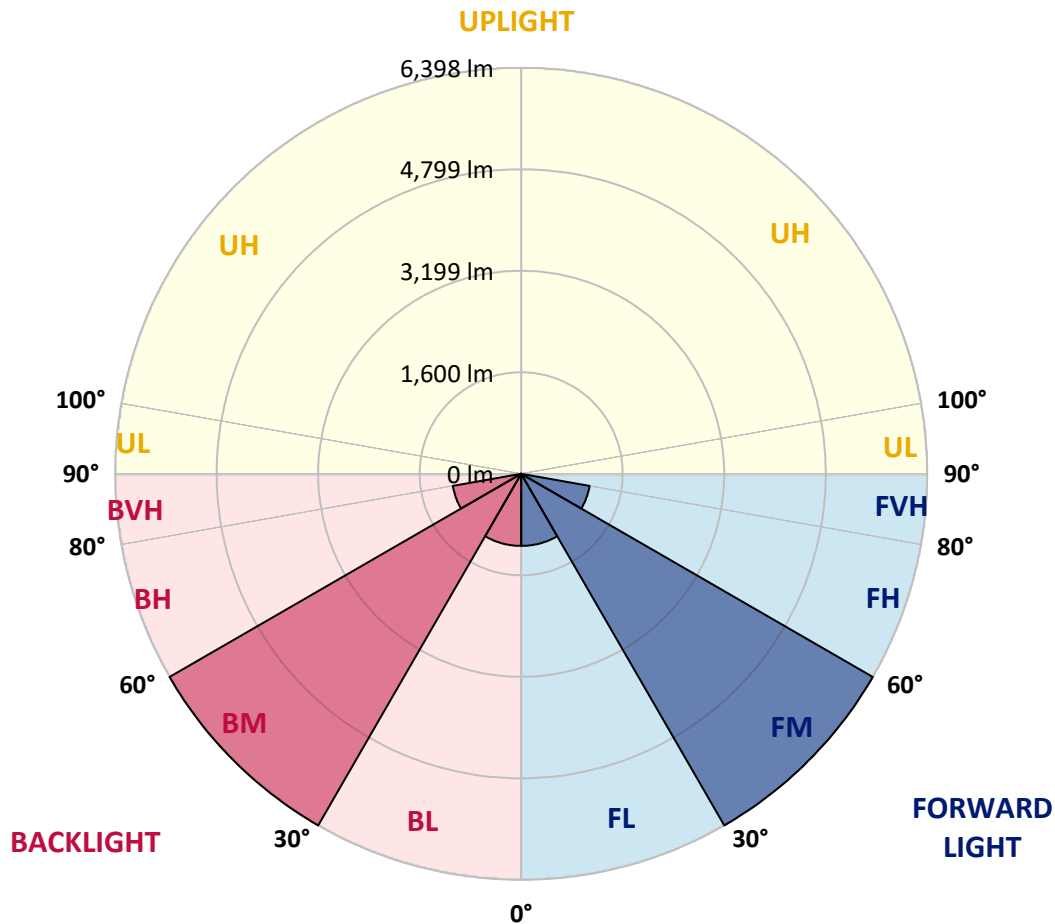
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1136.2	6.6			
FM	(30°-60°)	6398.4	37.0			
FH	(60°-80°)	1094.9	6.3			G1/1800
FVH	(80°-90°)	10.5	0.1			G1/100
BL	(0°-30°)	1136.2	6.6	B3/2500		
BM	(30°-60°)	6398.4	37.0	B4/8500		
BH	(60°-80°)	1094.9	6.3	B3/2500		G1/1800
BVH	(80°-90°)	10.5	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°	2680.3	2680.3	2680.3	2680.3	2680.3	2680.3	2680.3	2680.3	2680.3	2680.3	2680.3
2.5°	2673.1	2687.5	2669.5	2662.3	2658.7	2658.7	2647.9	2647.9	2644.3	2647.9	2633.5
5°	2629.9	2644.3	2644.3	2640.7	2619.1	2615.5	2604.7	2597.4	2601.1	2586.6	2597.4
7.5°	2586.6	2597.4	2583.0	2579.4	2572.2	2557.8	2554.2	2521.8	2525.4	2525.4	2532.6
10°	2579.4	2575.8	2554.2	2536.2	2514.6	2511.0	2500.2	2493.0	2493.0	2489.4	2500.2
12.5°	2579.4	2561.4	2557.8	2518.2	2482.2	2496.6	2467.8	2449.7	2475.0	2482.2	2496.6
15°	2575.8	2593.8	2532.6	2514.6	2489.4	2493.0	2467.8	2449.7	2464.2	2471.4	2482.2
17.5°	2597.4	2586.6	2568.6	2532.6	2521.8	2507.4	2475.0	2460.6	2460.6	2478.6	2482.2
20°	2655.1	2626.3	2590.2	2572.2	2583.0	2565.0	2525.4	2471.4	2485.8	2500.2	2511.0
22.5°	2709.1	2687.5	2662.3	2651.5	2712.7	2683.9	2615.5	2554.2	2532.6	2557.8	2575.8
25°	2813.6	2813.6	2766.8	2781.2	2849.6	2853.2	2774.0	2665.9	2651.5	2662.3	2669.5
27.5°	3026.2	3037.0	2997.3	3011.7	3040.6	3065.8	2997.3	2907.3	2874.8	2871.2	2882.1
30°	3256.7	3278.3	3274.7	3336.0	3418.8	3433.2	3332.4	3184.7	3087.4	3069.4	3083.8
32.5°	3559.3	3570.1	3562.9	3635.0	3858.3	3962.8	3699.8	3490.9	3361.2	3393.6	3361.2
35°	4128.5	4117.7	4038.5	4052.9	4236.6	4312.3	4060.1	3926.8	3865.6	3930.4	3916.0
37.5°	4618.5	4578.9	4514.0	4607.7	4798.6	4867.1	4604.1	4369.9	4258.2	4366.3	4413.1
40°	5032.8	4931.9	4841.8	4935.5	5191.3	5285.0	4899.5	4708.6	4665.3	4744.6	4845.5
42.5°	5382.2	5317.4	5198.5	5205.7	5375.0	5418.3	5108.4	4996.8	4953.5	5079.6	5130.1
45°	5630.8	5569.6	5457.9	5450.7	5580.4	5551.6	5274.2	5198.5	5223.7	5306.6	5331.8
47.5°	5756.9	5789.3	5724.5	5742.5	5810.9	5742.5	5522.7	5522.7	5465.1	5515.5	5490.3
50°	6120.8	6019.9	6102.7	6102.7	6174.8	6182.0	5962.2	5883.0	5728.1	5641.6	5641.6
52.5°	6545.9	6553.1	6585.5	6704.4	6826.9	6931.3	6617.9	6279.3	6019.9	5908.2	5893.8
55°	6895.3	6967.4	7097.1	7320.4	7673.5	7817.6	7277.2	6672.0	6354.9	6182.0	6146.0
56°	7086.2	7017.8	7241.2	7547.4	8008.5	8195.8	7385.3	6751.2	6401.8	6207.2	6203.6
57.5°	6902.5	6978.2	7133.1	7615.8	8181.4	8426.4	7424.9	6715.2	6214.4	6016.3	6034.3
60°	5450.7	5522.7	5731.7	6272.1	7158.3	7349.2	6282.9	5537.1	5090.4	4805.8	4809.4
62.5°	3083.8	3137.8	3300.0	3800.7	4351.9	4535.6	3916.0	3418.8	3109.0	2950.5	2900.1
65°	1134.8	1113.2	1138.4	1394.2	1732.8	1887.7	1628.4	1376.2	1214.1	1156.4	1134.8
67.5°	425.1	392.7	367.5	392.7	493.6	522.4	479.1	399.9	374.7	385.5	392.7
70°	263.0	248.6	198.1	187.3	183.7	180.1	190.9	201.7	230.6	270.2	277.4
72.5°	183.7	172.9	140.5	133.3	126.1	122.5	140.5	154.9	180.1	208.9	212.6
75°	72.1	75.7	72.1	79.3	82.9	86.5	100.9	111.7	122.5	122.5	118.9
77.5°	14.4	14.4	21.6	28.8	36.0	46.8	68.4	79.3	82.9	79.3	68.4
80°	0.0	0.0	7.2	14.4	28.8	39.6	61.2	68.4	75.7	68.4	54.0
82.5°	0.0	0.0	7.2	18.0	28.8	36.0	57.6	72.1	82.9	75.7	57.6
85°	0.0	0.0	7.2	14.4	21.6	25.2	25.2	18.0	18.0	10.8	7.2
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)