

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: P533711

Luminaire Tested: **GALN-SA9A-830-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533711
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-SA9A-830-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 615mA 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: 17184 lumens
Efficiency: N/A
Efficacy: 62.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

Input Watts (W): 274
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

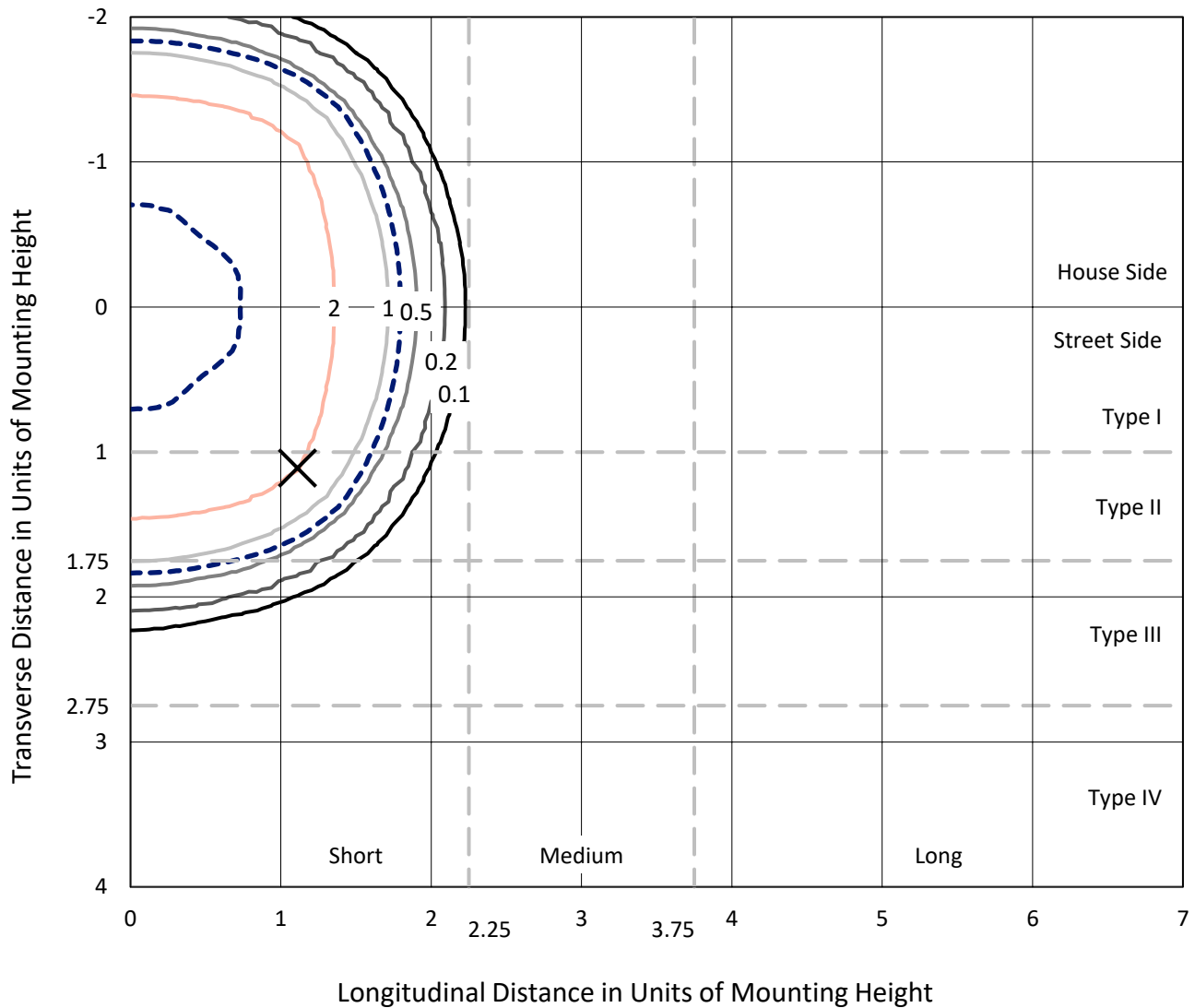


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 --- 1/2 Max cd

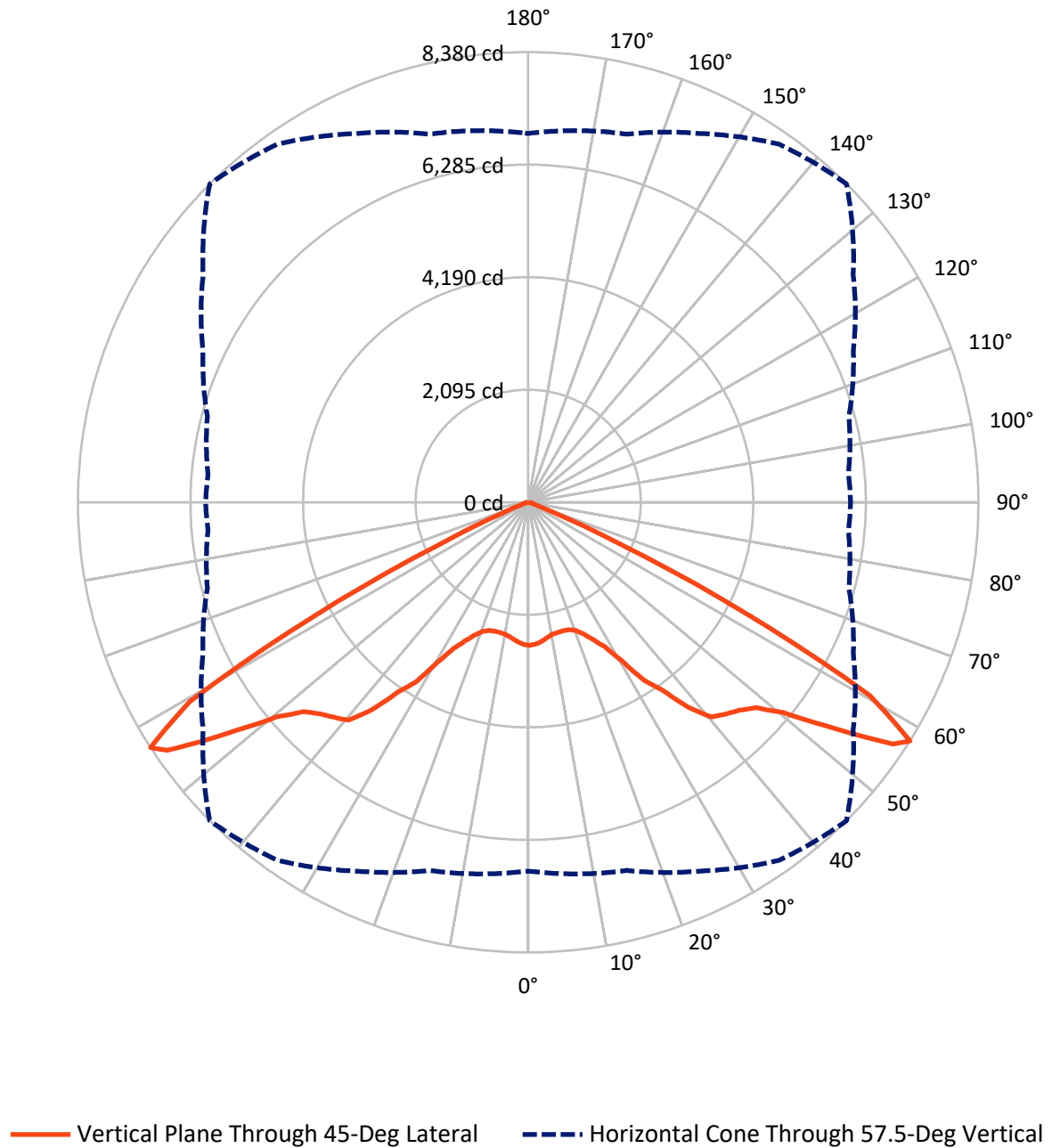


Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8592.0	0.0	8592.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8592.0	0.0	8592.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	17184.0	0.0	17184.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.9	1.4
10°-20°	708.0	4.1
20°-30°	1306.8	7.6
30°-40°	2570.1	15.0
40°-50°	4185.9	24.4
50°-60°	5969.7	34.7
60°-70°	2066.8	12.0
70°-80°	110.9	0.6
80°-90°	20.8	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°	17184.0	100.0
0°-180°	17184.0	100.0

Coefficient of Utilization



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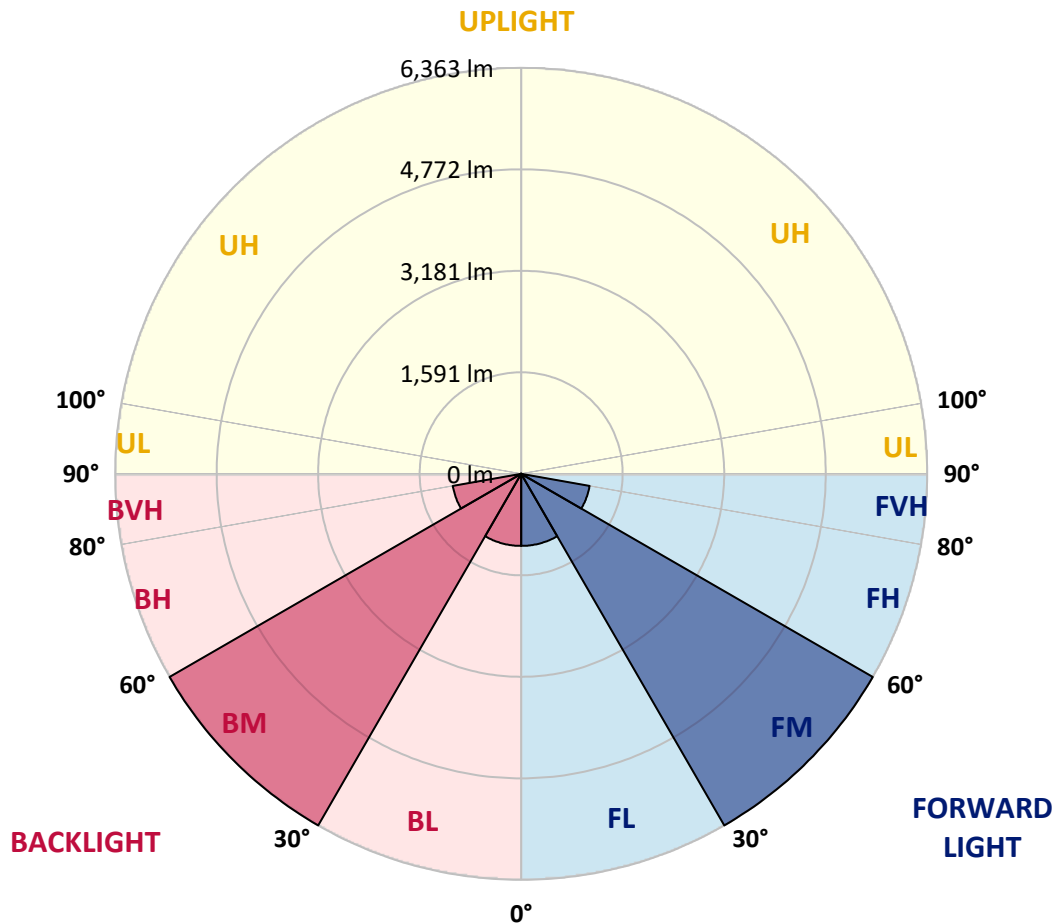
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1129.9	6.6			
FM	(30°-60°)	6362.8	37.0			
FH	(60°-80°)	1088.9	6.3			G1/1800
FVH	(80°-90°)	10.4	0.1			G1/100
BL	(0°-30°)	1129.9	6.6	B3/2500		
BM	(30°-60°)	6362.8	37.0	B4/8500		
BH	(60°-80°)	1088.9	6.3	B3/2500		G1/1800
BVH	(80°-90°)	10.4	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°	2665.4	2665.4	2665.4	2665.4	2665.4	2665.4	2665.4	2665.4	2665.4	2665.4	2665.4
2.5°	2658.3	2672.6	2654.7	2647.5	2643.9	2643.9	2633.2	2633.2	2629.6	2633.2	2618.8
5°	2615.3	2629.6	2629.6	2626.0	2604.5	2600.9	2590.2	2583.0	2586.6	2572.3	2583.0
7.5°	2572.3	2583.0	2568.7	2565.1	2557.9	2543.6	2540.0	2507.8	2511.4	2511.4	2518.5
10°	2565.1	2561.5	2540.0	2522.1	2500.6	2497.0	2486.3	2479.1	2479.1	2475.5	2486.3
12.5°	2565.1	2547.2	2543.6	2504.2	2468.4	2482.7	2454.0	2436.1	2461.2	2468.4	2482.7
15°	2561.5	2579.4	2518.5	2500.6	2475.5	2479.1	2454.0	2436.1	2450.5	2457.6	2468.4
17.5°	2583.0	2572.3	2554.4	2518.5	2507.8	2493.5	2461.2	2446.9	2446.9	2464.8	2468.4
20°	2640.3	2611.7	2575.9	2557.9	2568.7	2550.8	2511.4	2457.6	2472.0	2486.3	2497.0
22.5°	2694.1	2672.6	2647.5	2636.8	2697.7	2669.0	2600.9	2540.0	2518.5	2543.6	2561.5
25°	2798.0	2798.0	2751.4	2765.7	2833.8	2837.4	2758.6	2651.1	2636.8	2647.5	2654.7
27.5°	3009.3	3020.1	2980.7	2995.0	3023.7	3048.8	2980.7	2891.1	2858.9	2855.3	2866.0
30°	3238.6	3260.1	3256.5	3317.4	3399.8	3414.2	3313.9	3167.0	3070.2	3052.3	3066.7
32.5°	3539.6	3550.3	3543.1	3614.8	3836.9	3940.8	3679.3	3471.5	3342.5	3374.8	3342.5
35°	4105.6	4094.9	4016.0	4030.4	4213.1	4288.3	4037.5	3905.0	3844.1	3908.6	3894.2
37.5°	4592.8	4553.4	4488.9	4582.1	4772.0	4840.0	4578.5	4345.6	4234.6	4342.1	4388.6
40°	5004.8	4904.5	4814.9	4908.1	5162.5	5255.6	4872.3	4682.4	4639.4	4718.2	4818.5
42.5°	5352.3	5287.8	5169.6	5176.8	5345.2	5388.2	5080.1	4969.0	4926.0	5051.4	5101.6
45°	5599.5	5538.6	5427.6	5420.4	5549.4	5520.7	5244.9	5169.6	5194.7	5277.1	5302.2
47.5°	5724.9	5757.2	5692.7	5710.6	5778.7	5710.6	5492.1	5492.1	5434.7	5484.9	5459.8
50°	6086.8	5986.4	6068.8	6068.8	6140.5	6147.7	5929.1	5850.3	5696.3	5610.3	5610.3
52.5°	6509.5	6516.7	6548.9	6667.1	6788.9	6892.8	6581.1	6244.4	5986.4	5875.4	5861.1
55°	6857.0	6928.7	7057.6	7279.7	7630.8	7774.1	7236.8	6634.9	6319.6	6147.7	6111.8
56°	7046.9	6978.8	7200.9	7505.4	7964.0	8150.3	7344.2	6713.7	6366.2	6172.7	6169.2
57.5°	6864.2	6939.4	7093.5	7573.5	8136.0	8379.6	7383.6	6677.9	6179.9	5982.9	6000.8
60°	5420.4	5492.1	5699.8	6237.2	7118.5	7308.4	6248.0	5506.4	5062.1	4779.1	4782.7
62.5°	3066.7	3120.4	3281.6	3779.6	4327.7	4510.4	3894.2	3399.8	3091.7	2934.1	2884.0
65°	1128.5	1107.0	1132.1	1386.4	1723.2	1877.3	1619.3	1368.5	1207.3	1150.0	1128.5
67.5°	422.7	390.5	365.4	390.5	490.8	519.5	476.5	397.7	372.6	383.3	390.5
70°	261.5	247.2	197.0	186.3	182.7	179.1	189.9	200.6	229.3	268.7	275.9
72.5°	182.7	172.0	139.7	132.6	125.4	121.8	139.7	154.0	179.1	207.8	211.4
75°	71.7	75.2	71.7	78.8	82.4	86.0	100.3	111.1	121.8	121.8	118.2
77.5°	14.3	14.3	21.5	28.7	35.8	46.6	68.1	78.8	82.4	78.8	68.1
80°	0.0	0.0	7.2	14.3	28.7	39.4	60.9	68.1	75.2	68.1	53.7
82.5°	0.0	0.0	7.2	17.9	28.7	35.8	57.3	71.7	82.4	75.2	57.3
85°	0.0	0.0	7.2	14.3	21.5	25.1	25.1	17.9	17.9	10.7	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)