

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: P646881

Luminaire Tested: **GALN-SA4C-835-U-RW-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P646881
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-7)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-835-U-RW-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14072.8 lumens
Efficiency: N/A
Efficacy: 66.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

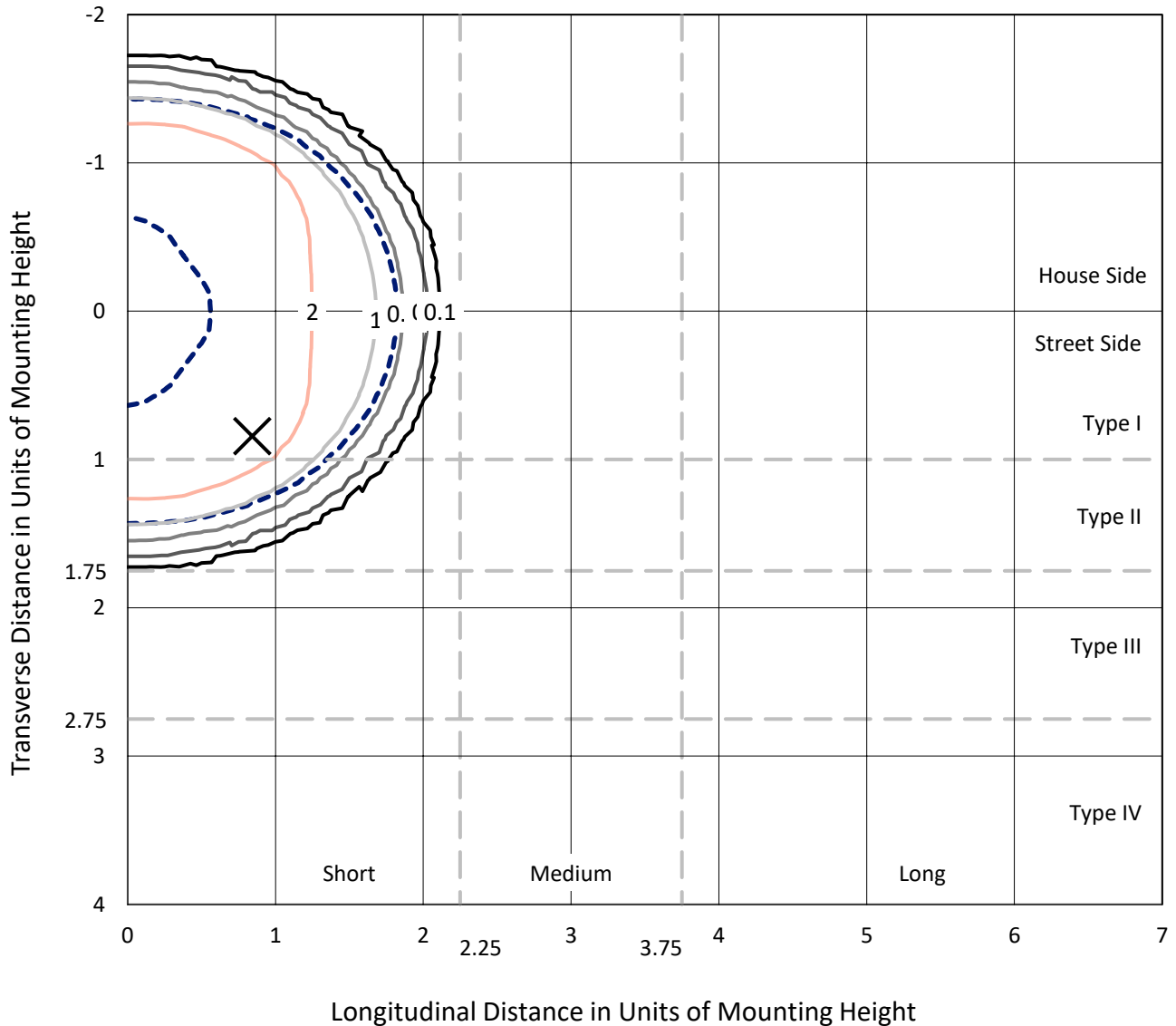
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

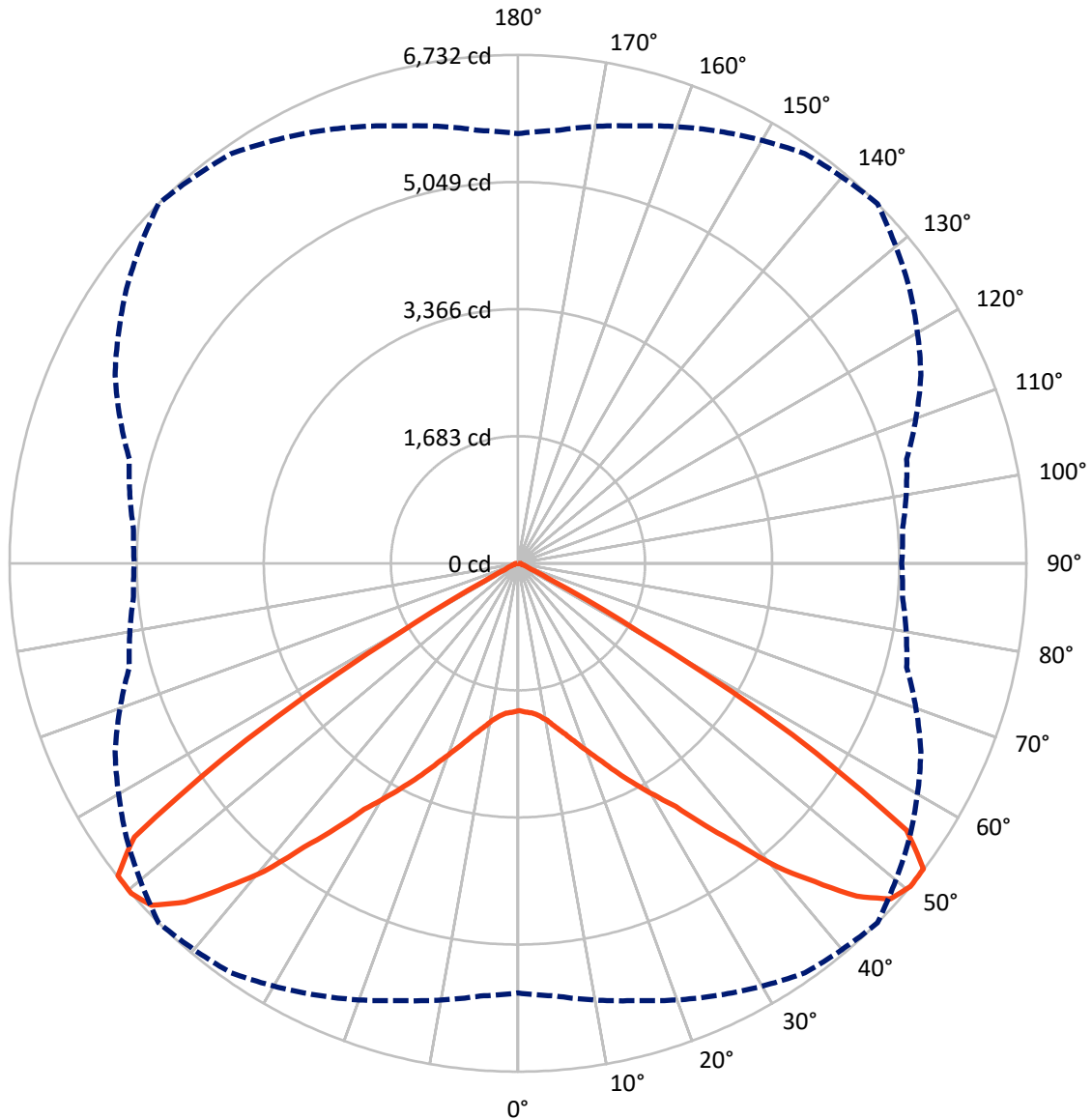
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7036.4	0.0	7036.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7036.4	0.0	7036.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	14072.8	0.0	14072.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.1	1.4
10°-20°	669.0	4.8
20°-30°	1366.3	9.7
30°-40°	2605.6	18.5
40°-50°	4390.8	31.2
50°-60°	4187.4	29.8
60°-70°	584.5	4.2
70°-80°	55.9	0.4
80°-90°	19.3	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°	14072.8	100.0
0°-180°	14072.8	100.0

Coefficient of Utilization



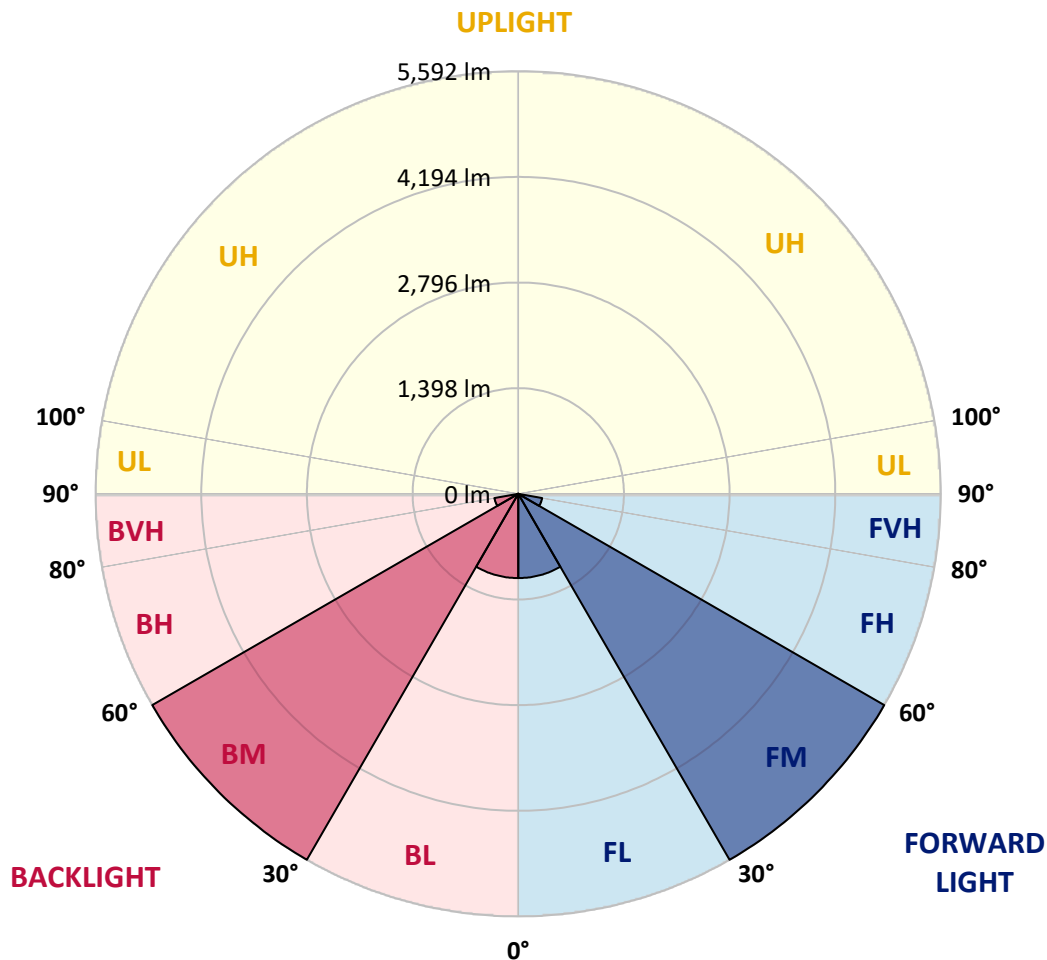
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1114.7	7.9			
FM (30°-60°)	5591.9	39.7			
FH (60°-80°)	320.2	2.3			G0/660
FVH (80°-90°)	9.7	0.1			G0/10
BL (0°-30°)	1114.7	7.9	B3/2500		
BM (30°-60°)	5591.9	39.7	B4/8500		
BH (60°-80°)	320.2	2.3	B1/500		G0/660
BVH (80°-90°)	9.7	0.1			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°	1951.1	1951.1	1951.1	1951.1	1951.1	1951.1	1951.1	1951.1	1951.1	1951.1	1951.1
2.5°	1944.0	1944.0	1941.6	1960.6	1951.1	1972.4	1970.0	1977.1	1984.2	1981.9	2000.8
5°	1927.4	1925.0	1925.0	1946.3	1967.6	1991.3	2012.6	2026.8	2050.5	2050.5	2074.2
7.5°	1944.0	1932.1	1948.7	1958.1	1998.4	2038.6	2074.2	2102.6	2157.0	2176.0	2168.9
10°	1948.7	1962.9	1974.7	2003.1	2052.9	2114.4	2145.2	2216.2	2277.8	2320.4	2329.9
12.5°	1979.4	2000.8	2033.9	2102.6	2147.5	2228.1	2270.7	2339.4	2424.6	2471.9	2505.1
15°	2038.6	2045.7	2088.3	2176.0	2273.0	2346.5	2412.7	2462.5	2545.4	2599.8	2602.2
17.5°	2114.4	2145.2	2204.4	2287.3	2389.1	2498.0	2550.1	2604.6	2635.3	2708.7	2725.3
20°	2265.9	2270.7	2327.5	2436.5	2564.3	2663.8	2701.7	2730.0	2718.2	2794.0	2808.2
22.5°	2408.0	2412.7	2483.8	2630.6	2767.9	2853.2	2869.8	2853.2	2817.6	2872.1	2876.8
25°	2552.4	2595.1	2647.2	2794.0	2964.4	3078.1	3080.5	3035.5	2962.1	2971.6	2995.2
27.5°	2777.4	2808.2	2862.6	2997.6	3184.7	3312.5	3291.2	3236.8	3142.0	3149.1	3142.0
30°	3040.2	3068.7	3113.6	3286.5	3423.8	3563.5	3594.3	3542.2	3400.1	3369.3	3404.9
32.5°	3357.5	3397.8	3480.6	3639.3	3755.3	3840.5	3861.8	3842.9	3710.3	3698.5	3722.1
35°	3743.4	3797.9	3873.7	4013.3	4108.1	4262.0	4262.0	4198.1	4077.3	4091.5	4089.1
37.5°	4150.7	4231.3	4349.6	4491.7	4619.5	4702.4	4676.4	4621.9	4501.2	4470.4	4501.2
40°	4662.1	4702.4	4851.5	5036.3	5192.5	5287.2	5175.9	5057.6	4768.7	4813.6	4896.6
42.5°	5128.6	5192.5	5306.2	5509.8	5687.4	5765.5	5632.9	5398.6	5050.4	5015.0	5076.5
45°	5526.4	5595.1	5744.2	6035.4	6222.5	6291.2	5997.5	5618.7	5221.0	5131.0	5157.0
47.5°	5791.6	5827.1	6035.4	6312.5	6483.0	6639.2	6217.8	5770.2	5301.5	5131.0	5121.5
50°	5689.7	5751.3	5995.2	6310.1	6620.3	6731.6	6329.1	5886.3	5327.5	5109.6	5081.3
52.5°	5052.9	5159.4	5431.7	5855.5	6324.3	6722.1	6483.0	5848.4	5318.1	5131.0	5173.6
55°	3516.1	3518.5	3850.0	4475.1	5303.8	6241.4	6258.0	5891.1	5379.6	5263.6	5265.9
57.5°	1413.5	1484.6	1737.9	2365.4	3130.2	4285.7	5095.5	5464.8	5386.7	5358.3	5431.7
60°	357.5	359.9	438.0	667.7	1101.1	1837.4	2668.5	3610.9	4157.8	4344.9	4370.9
62.5°	182.3	184.7	203.7	236.8	300.7	492.5	876.1	1389.9	1977.1	2275.4	2353.5
65°	149.2	149.2	161.0	177.6	179.9	189.4	227.3	324.4	471.2	535.1	542.2
67.5°	113.7	113.7	123.1	132.6	137.3	135.0	130.2	135.0	163.4	156.3	151.5
70°	71.0	73.4	78.1	87.6	92.3	94.7	97.1	101.8	116.0	120.7	116.0
72.5°	42.6	42.6	45.0	52.1	59.2	63.9	71.0	75.8	82.8	94.7	92.3
75°	18.9	18.9	23.6	30.8	37.9	45.0	52.1	59.2	63.9	71.0	73.4
77.5°	4.7	7.1	11.8	21.3	28.4	37.9	47.4	54.5	59.2	59.2	56.8
80°	2.3	2.3	9.5	16.6	30.8	40.2	52.1	56.8	63.9	59.2	52.1
82.5°	2.3	2.3	9.5	16.6	28.4	40.2	54.5	61.5	66.3	59.2	49.7
85°	0.0	2.3	7.1	14.2	23.6	28.4	23.6	16.6	9.5	9.5	7.1
87.5°	0.0	0.0	2.3	2.3	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)