

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: P529737

Luminaire Tested: **GALN-SA4D-830-U-RW-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529737
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-SA4D-830-U-RW-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1200mA 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: 15716 lumens
Efficiency: N/A
Efficacy: 64.1 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): 245
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



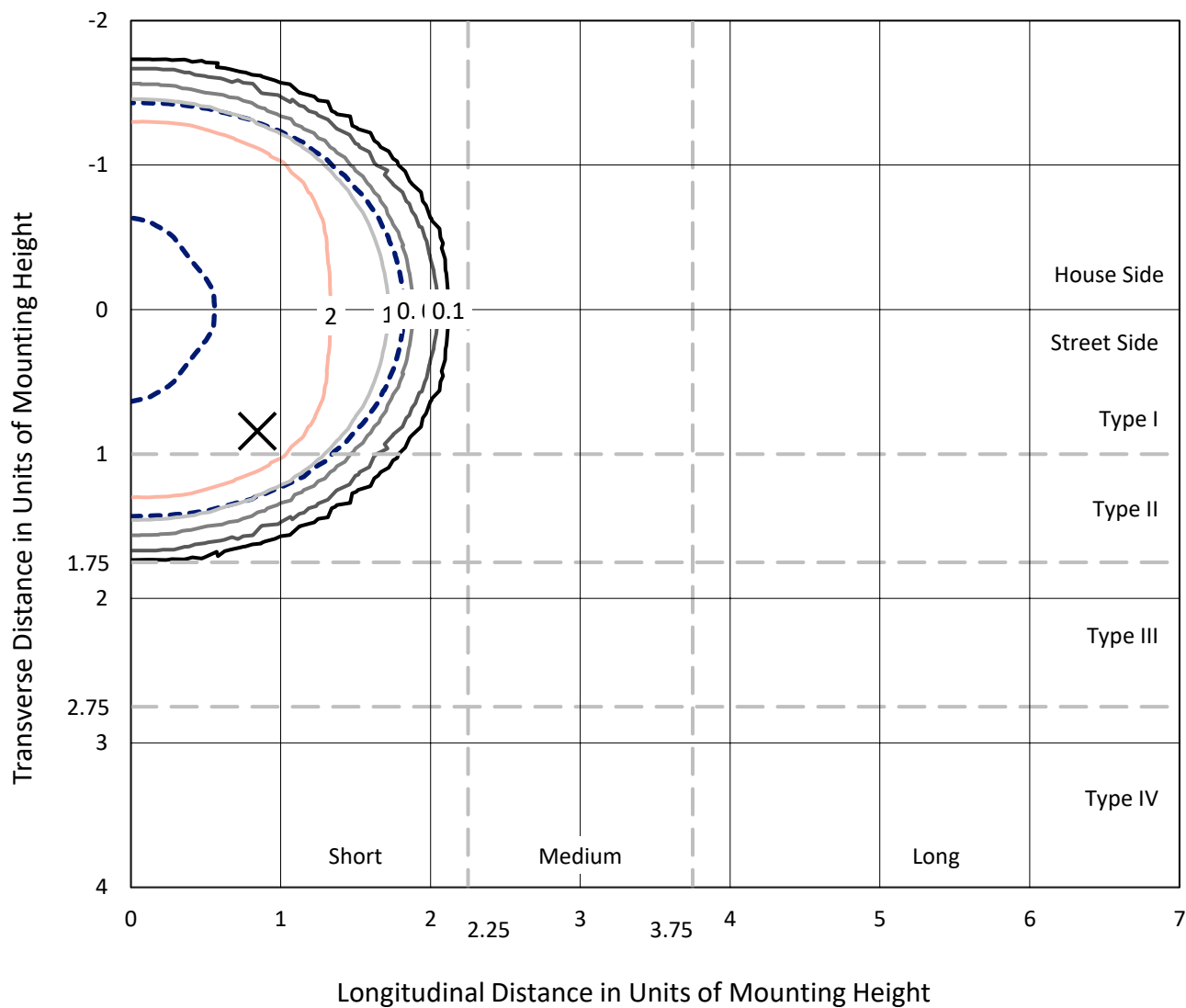
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



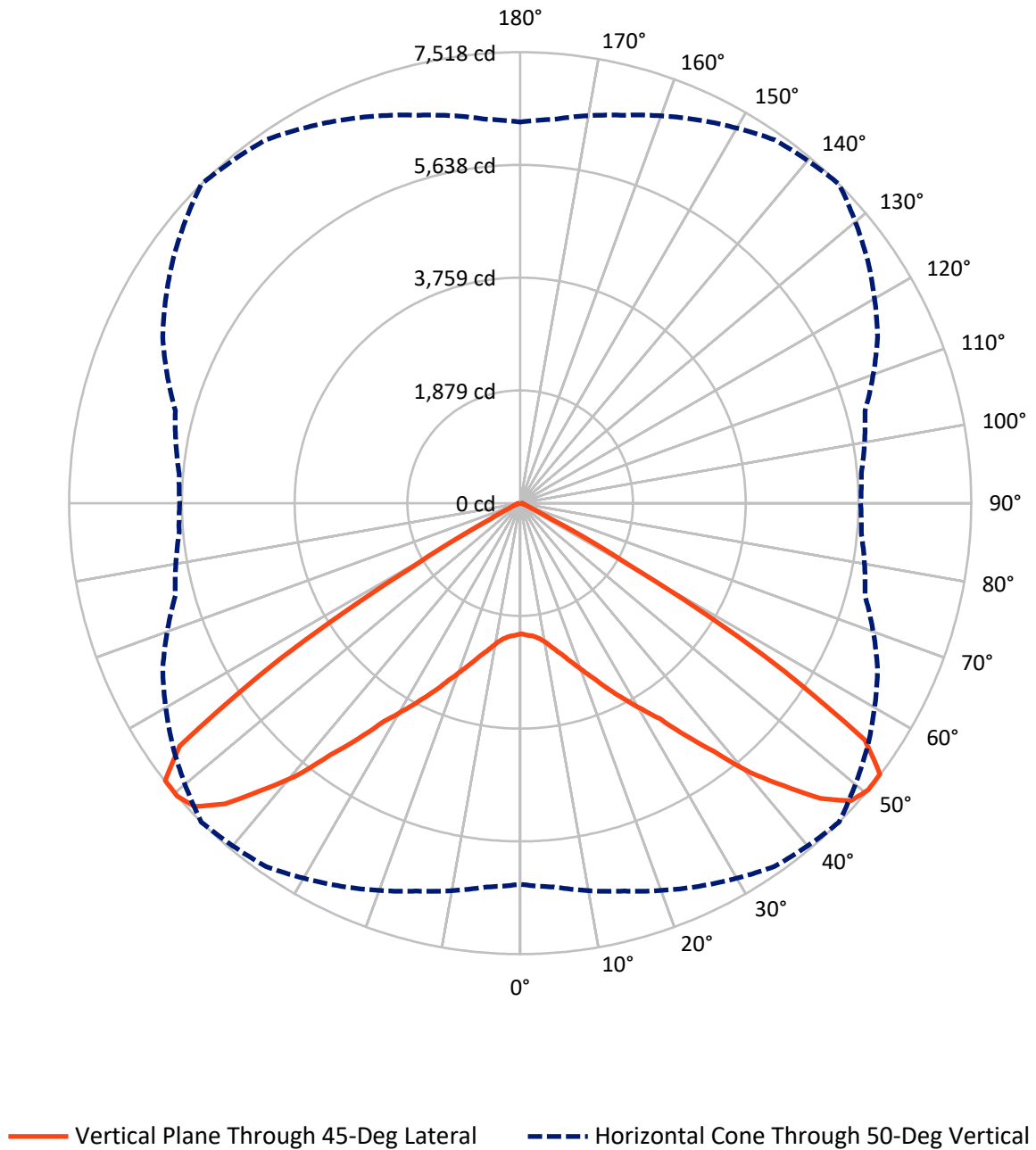
Based on 25 foot mounting height. Maximum calculated value = 4.2 fc

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	7858.0	0.0	7858.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7858.0	0.0	7858.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	15716.0	0.0	15716.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.8	1.4
10°-20°	747.1	4.8
20°-30°	1525.9	9.7
30°-40°	2909.8	18.5
40°-50°	4903.4	31.2
50°-60°	4676.3	29.8
60°-70°	652.8	4.2
70°-80°	62.4	0.4
80°-90°	21.6	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°	15716.0	100.0
0°-180°	15716.0	100.0

Coefficient of Utilization



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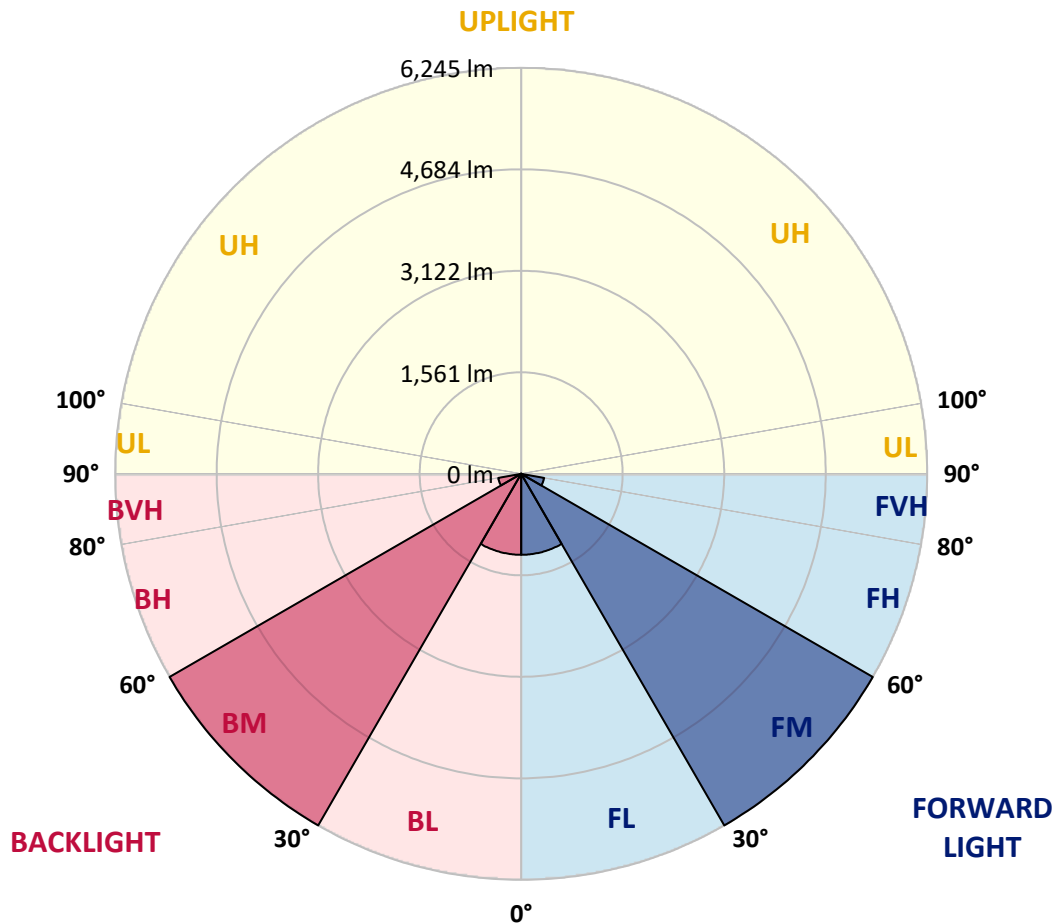
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1244.9	7.9			
FM	(30°-60°)	6244.8	39.7			
FH	(60°-80°)	357.6	2.3			G0/660
FVH	(80°-90°)	10.8	0.1			G1/100
BL	(0°-30°)	1244.9	7.9	B3/2500		
BM	(30°-60°)	6244.8	39.7	B4/8500		
BH	(60°-80°)	357.6	2.3	B1/500		G0/660
BVH	(80°-90°)	10.8	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°	2178.9	2178.9	2178.9	2178.9	2178.9	2178.9	2178.9	2178.9	2178.9	2178.9	2178.9
2.5°	2170.9	2170.9	2168.3	2189.4	2178.9	2202.6	2200.0	2207.9	2215.9	2213.2	2234.4
5°	2152.4	2149.8	2149.8	2173.6	2197.4	2223.8	2247.6	2263.5	2289.9	2289.9	2316.4
7.5°	2170.9	2157.7	2176.2	2186.8	2231.7	2276.7	2316.4	2348.1	2408.9	2430.1	2422.1
10°	2176.2	2192.1	2205.3	2237.0	2292.6	2361.3	2395.7	2475.0	2543.8	2591.4	2601.9
12.5°	2210.6	2234.4	2271.4	2348.1	2398.3	2488.2	2535.8	2612.5	2707.7	2760.6	2797.6
15°	2276.7	2284.6	2332.2	2430.1	2538.5	2620.4	2694.5	2750.0	2842.6	2903.4	2906.0
17.5°	2361.3	2395.7	2461.8	2554.3	2668.0	2789.7	2847.8	2908.7	2943.0	3025.0	3043.5
20°	2530.5	2535.8	2599.3	2720.9	2863.7	2974.8	3017.1	3048.8	3035.6	3120.2	3136.1
22.5°	2689.2	2694.5	2773.8	2937.7	3091.1	3186.3	3204.8	3186.3	3146.6	3207.5	3212.7
25°	2850.5	2898.1	2956.3	3120.2	3310.6	3437.5	3440.2	3389.9	3307.9	3318.5	3345.0
27.5°	3101.7	3136.1	3196.9	3347.6	3556.5	3699.3	3675.5	3614.7	3508.9	3516.8	3508.9
30°	3395.2	3426.9	3477.2	3670.2	3823.6	3979.6	4014.0	3955.8	3797.1	3762.7	3802.4
32.5°	3749.5	3794.5	3887.0	4064.2	4193.8	4289.0	4312.7	4291.6	4143.5	4130.3	4156.7
35°	4180.5	4241.4	4326.0	4482.0	4587.7	4759.6	4759.6	4688.2	4553.4	4569.2	4566.6
37.5°	4635.3	4725.2	4857.5	5016.1	5158.9	5251.5	5222.4	5161.5	5026.7	4992.3	5026.7
40°	5206.5	5251.5	5418.0	5624.3	5798.8	5904.6	5780.3	5648.1	5325.5	5375.7	5468.3
42.5°	5727.4	5798.8	5925.7	6153.1	6351.5	6438.7	6290.6	6028.9	5640.2	5600.5	5669.2
45°	6171.6	6248.3	6414.9	6740.2	6949.1	7025.7	6697.8	6274.8	5830.5	5730.1	5759.1
47.5°	6467.8	6507.5	6740.2	7049.5	7239.9	7414.4	6943.8	6444.0	5920.4	5730.1	5719.5
50°	6354.1	6422.8	6695.2	7046.9	7393.3	7517.6	7068.0	6573.6	5949.5	5706.3	5674.5
52.5°	5642.8	5761.8	6065.9	6539.2	7062.8	7507.0	7239.9	6531.3	5939.0	5730.1	5777.7
55°	3926.7	3929.3	4299.5	4997.6	5923.1	6970.2	6988.7	6578.9	6007.7	5878.1	5880.8
57.5°	1578.6	1657.9	1940.9	2641.6	3495.7	4786.1	5690.4	6102.9	6015.6	5983.9	6065.9
60°	399.3	401.9	489.2	745.7	1229.6	2051.9	2980.1	4032.5	4643.3	4852.2	4881.3
62.5°	203.6	206.3	227.4	264.4	335.8	550.0	978.4	1552.2	2207.9	2541.1	2628.4
65°	166.6	166.6	179.8	198.3	201.0	211.5	253.8	362.3	526.2	597.6	605.5
67.5°	126.9	126.9	137.5	148.1	153.4	150.7	145.4	150.7	182.5	174.5	169.2
70°	79.3	82.0	87.3	97.8	103.1	105.8	108.4	113.7	129.6	134.9	129.6
72.5°	47.6	47.6	50.2	58.2	66.1	71.4	79.3	84.6	92.5	105.8	103.1
75°	21.2	21.2	26.4	34.4	42.3	50.2	58.2	66.1	71.4	79.3	82.0
77.5°	5.3	7.9	13.2	23.8	31.7	42.3	52.9	60.8	66.1	66.1	63.5
80°	2.6	2.6	10.6	18.5	34.4	45.0	58.2	63.5	71.4	66.1	58.2
82.5°	2.6	2.6	10.6	18.5	31.7	45.0	60.8	68.8	74.0	66.1	55.5
85°	0.0	2.6	7.9	15.9	26.4	31.7	26.4	18.5	10.6	10.6	7.9
87.5°	0.0	0.0	2.6	2.6	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)