

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: P453617

Luminaire Tested: **GALN-SA4C-830-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453617
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4C-830-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22802 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

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

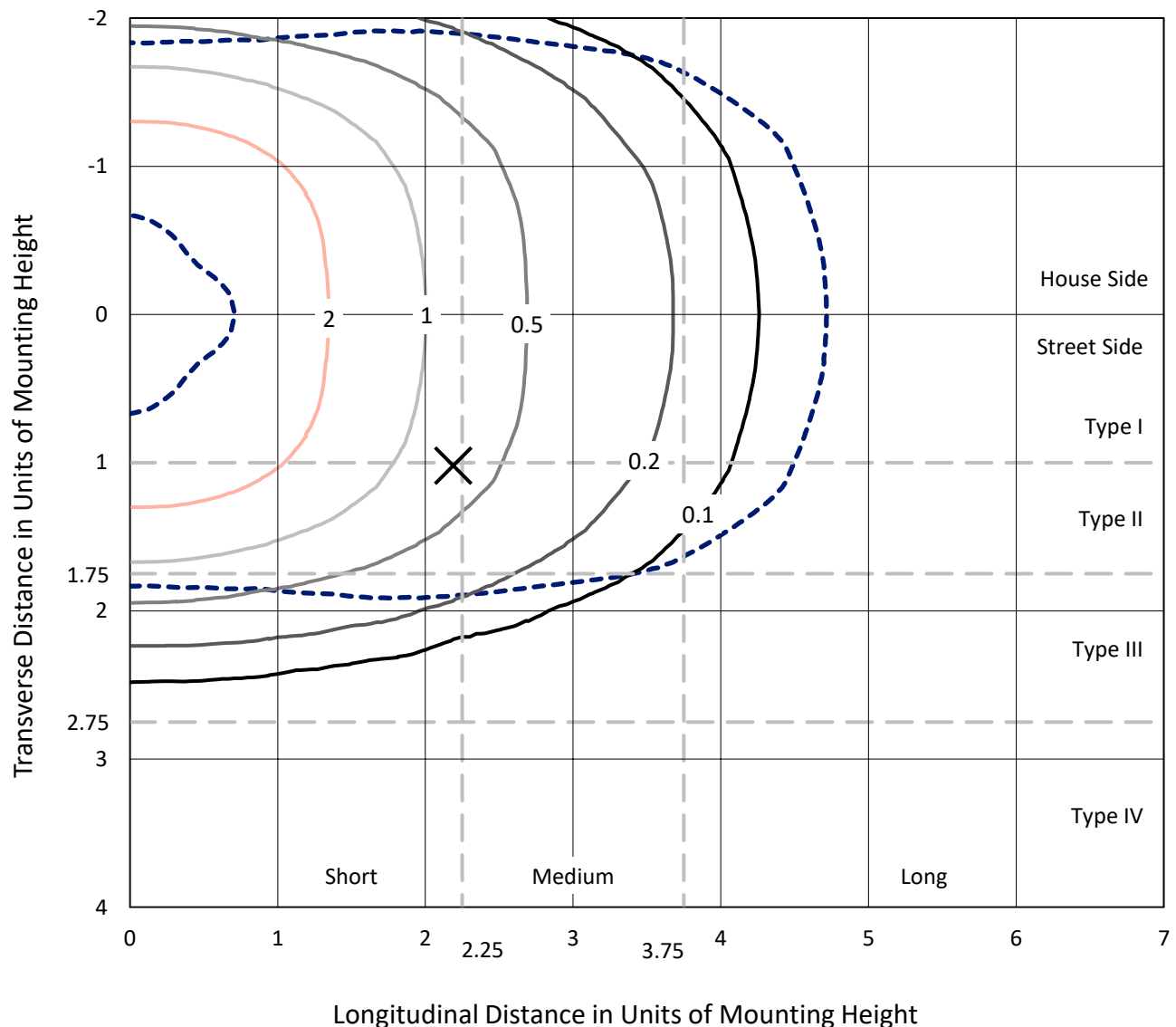


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

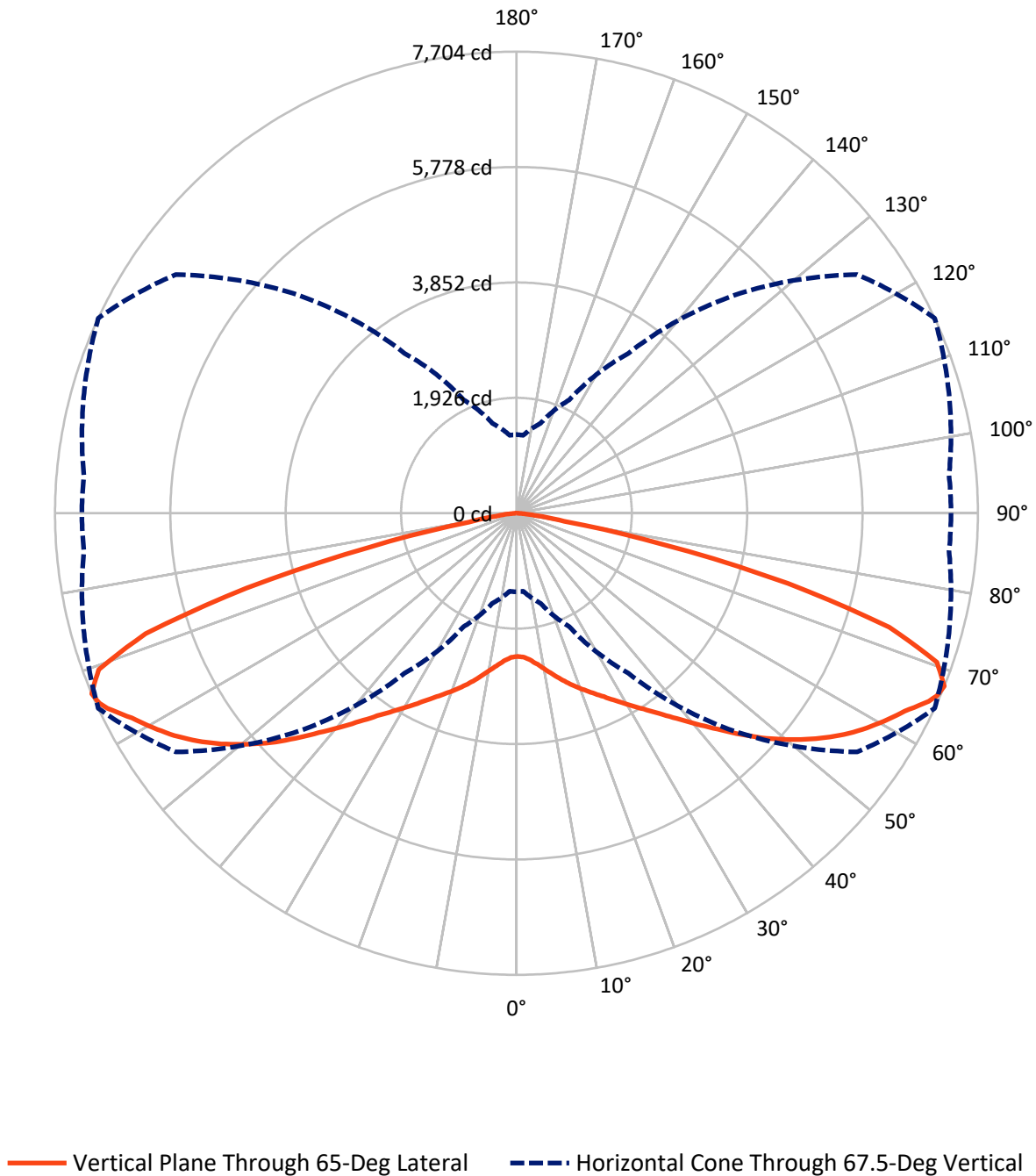


Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11401.0	0.0	11401.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11401.0	0.0	11401.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	22802.0	0.0	22802.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.6	1.0
10°-20°	788.4	3.5
20°-30°	1542.1	6.8
30°-40°	2622.9	11.5
40°-50°	4151.3	18.2
50°-60°	5504.5	24.1
60°-70°	5192.5	22.8
70°-80°	2566.9	11.3
80°-90°	197.8	0.9
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°	22802.0	100.0
0°-180°	22802.0	100.0

Coefficient of Utilization



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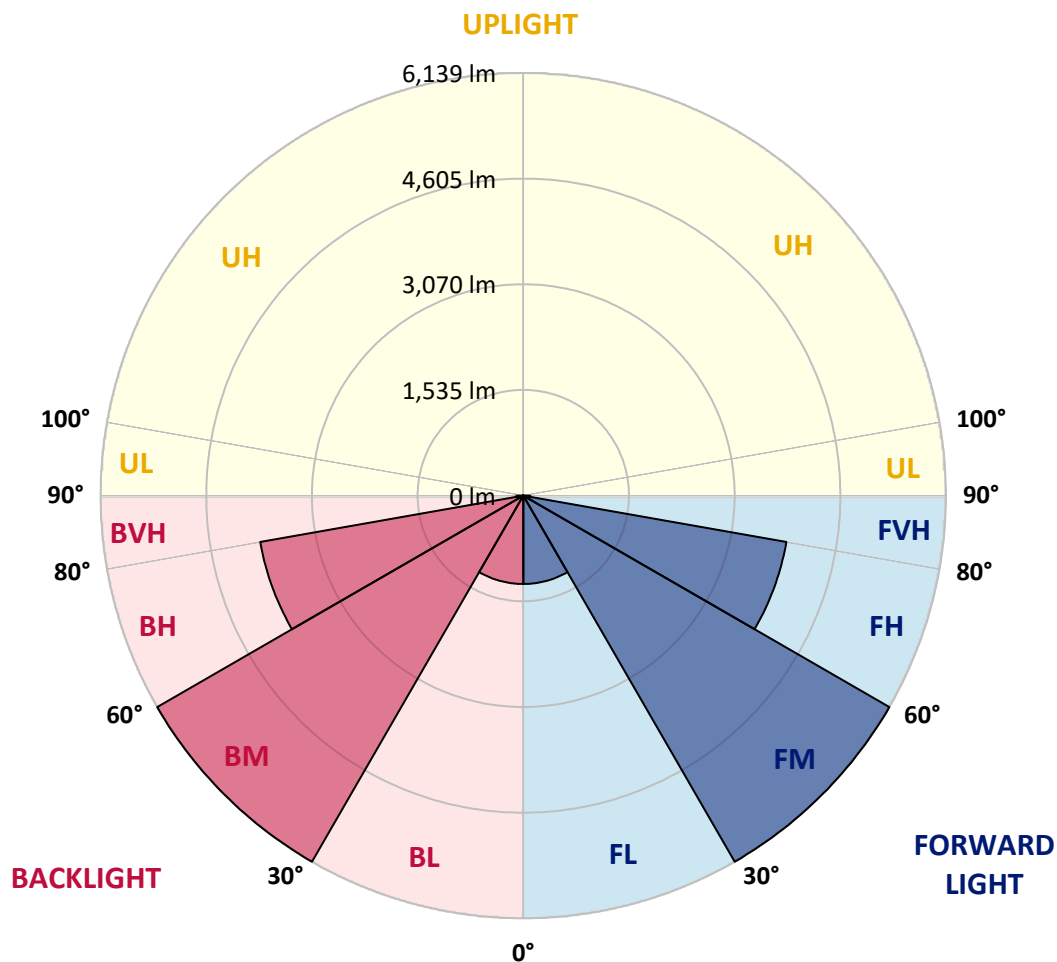
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1283.0	5.6			
FM	(30°-60°)	6139.4	26.9			
FH	(60°-80°)	3879.7	17.0			G2/5000
FVH	(80°-90°)	98.9	0.4			G1/100
BL	(0°-30°)	1283.0	5.6	B3/2500		
BM	(30°-60°)	6139.4	26.9	B4/8500		
BH	(60°-80°)	3879.7	17.0	B4/5000		G4/5000
BVH	(80°-90°)	98.9	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2388.3	2388.3	2388.3	2388.3	2388.3	2388.3	2388.3	2388.3	2388.3	2388.3	2388.3
2.5°	2376.1	2378.5	2381.0	2384.6	2389.5	2396.9	2401.7	2405.4	2415.2	2416.4	2415.2
5°	2367.5	2370.0	2376.1	2387.1	2403.0	2425.0	2442.1	2462.8	2478.7	2489.7	2487.3
7.5°	2366.3	2371.2	2381.0	2404.2	2434.7	2472.6	2511.7	2547.1	2577.7	2602.1	2598.4
10°	2385.9	2392.0	2407.9	2442.1	2489.7	2544.7	2599.7	2652.2	2696.2	2727.9	2738.9
12.5°	2418.8	2423.7	2453.1	2504.4	2572.8	2641.2	2703.5	2768.2	2829.3	2883.1	2883.1
15°	2476.3	2484.8	2521.5	2596.0	2680.3	2759.7	2823.2	2891.6	2957.6	3018.7	3037.0
17.5°	2555.7	2567.9	2622.9	2718.2	2825.7	2899.0	2958.8	3015.0	3072.4	3131.1	3139.6
20°	2664.4	2676.6	2749.9	2864.7	2991.8	3079.8	3120.1	3133.5	3161.6	3217.8	3225.1
22.5°	2812.2	2824.4	2906.3	3035.8	3177.5	3272.8	3289.9	3258.1	3250.8	3294.8	3299.7
25°	2979.6	2990.6	3084.6	3223.9	3370.5	3474.3	3469.5	3391.3	3347.3	3374.2	3381.5
27.5°	3167.7	3183.6	3278.9	3423.0	3581.9	3673.5	3658.8	3545.2	3451.1	3446.2	3448.7
30°	3408.4	3425.5	3515.9	3653.9	3810.3	3894.6	3864.1	3711.3	3566.0	3517.1	3517.1
32.5°	3662.5	3705.2	3796.9	3941.0	4063.2	4124.3	4077.8	3894.6	3701.6	3633.2	3629.5
35°	3993.5	4016.8	4107.2	4247.6	4339.3	4386.9	4297.7	4101.0	3878.7	3798.1	3787.1
37.5°	4317.3	4336.8	4441.9	4576.3	4687.4	4685.0	4564.1	4346.6	4098.6	4008.2	4000.9
40°	4648.3	4669.1	4788.8	4912.2	5023.4	5013.6	4867.0	4623.9	4360.0	4258.6	4278.2
42.5°	4935.4	4958.6	5094.2	5270.2	5370.3	5367.9	5198.1	4924.4	4649.6	4559.2	4576.3
45°	5196.9	5217.6	5375.2	5576.8	5723.4	5741.7	5556.0	5266.5	4984.3	4868.2	4873.1
47.5°	5381.3	5420.4	5585.3	5816.2	6015.4	6080.1	5898.1	5614.7	5289.7	5168.8	5176.1
50°	5521.8	5546.3	5725.8	5988.5	6240.1	6374.5	6227.9	5937.2	5595.1	5466.8	5483.9
52.5°	5538.9	5568.2	5763.7	6066.7	6389.2	6593.2	6521.1	6252.4	5906.6	5774.7	5811.3
55°	5399.7	5416.8	5650.1	6017.8	6447.8	6755.7	6774.0	6545.6	6203.5	6103.3	6127.8
57.5°	5002.6	5046.6	5342.2	5789.4	6367.2	6842.4	6963.4	6811.9	6504.0	6405.1	6444.2
60°	4351.5	4395.5	4692.3	5259.2	6063.0	6802.1	7119.7	7047.6	6776.4	6697.0	6717.8
62.5°	3409.6	3405.9	3773.6	4468.8	5458.3	6604.2	7235.8	7274.9	7045.2	6945.0	6976.8
65°	2209.9	2220.9	2576.4	3325.3	4545.7	6100.9	7261.4	7564.4	7309.1	7157.6	7180.8
66°	1777.5	1810.5	2112.2	2802.4	4080.3	5771.0	7184.5	7649.9	7389.7	7206.5	7217.5
67.5°	1312.0	1305.9	1553.9	2086.6	3258.1	5144.3	6943.8	7703.7	7481.3	7250.4	7255.3
70°	748.9	747.6	835.6	1145.9	1915.5	3622.2	5852.9	7445.9	7667.0	7409.3	7395.8
72.5°	547.3	543.6	555.8	632.8	934.6	1828.8	4037.5	6507.7	7571.7	7383.6	7345.7
75°	459.3	456.9	454.5	464.2	524.1	828.3	2142.8	4681.3	6570.0	6930.4	6891.3
77.5°	375.0	375.0	376.3	373.8	376.3	436.1	888.1	2509.3	4000.9	4466.3	4575.0
80°	293.2	292.0	312.7	304.2	284.6	279.8	393.4	807.5	1327.9	1320.6	1089.7
82.5°	216.2	201.6	238.2	232.1	210.1	178.4	229.7	344.5	443.5	288.3	213.8
85°	136.8	135.6	168.6	153.9	128.3	84.3	109.9	147.8	183.2	111.2	90.4
87.5°	24.4	23.2	53.8	39.1	39.1	24.4	30.5	40.3	59.9	41.5	30.5
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)