

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: P456166

Luminaire Tested: **GALN-SA7B-830-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456166
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7B-830-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32962 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 286
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



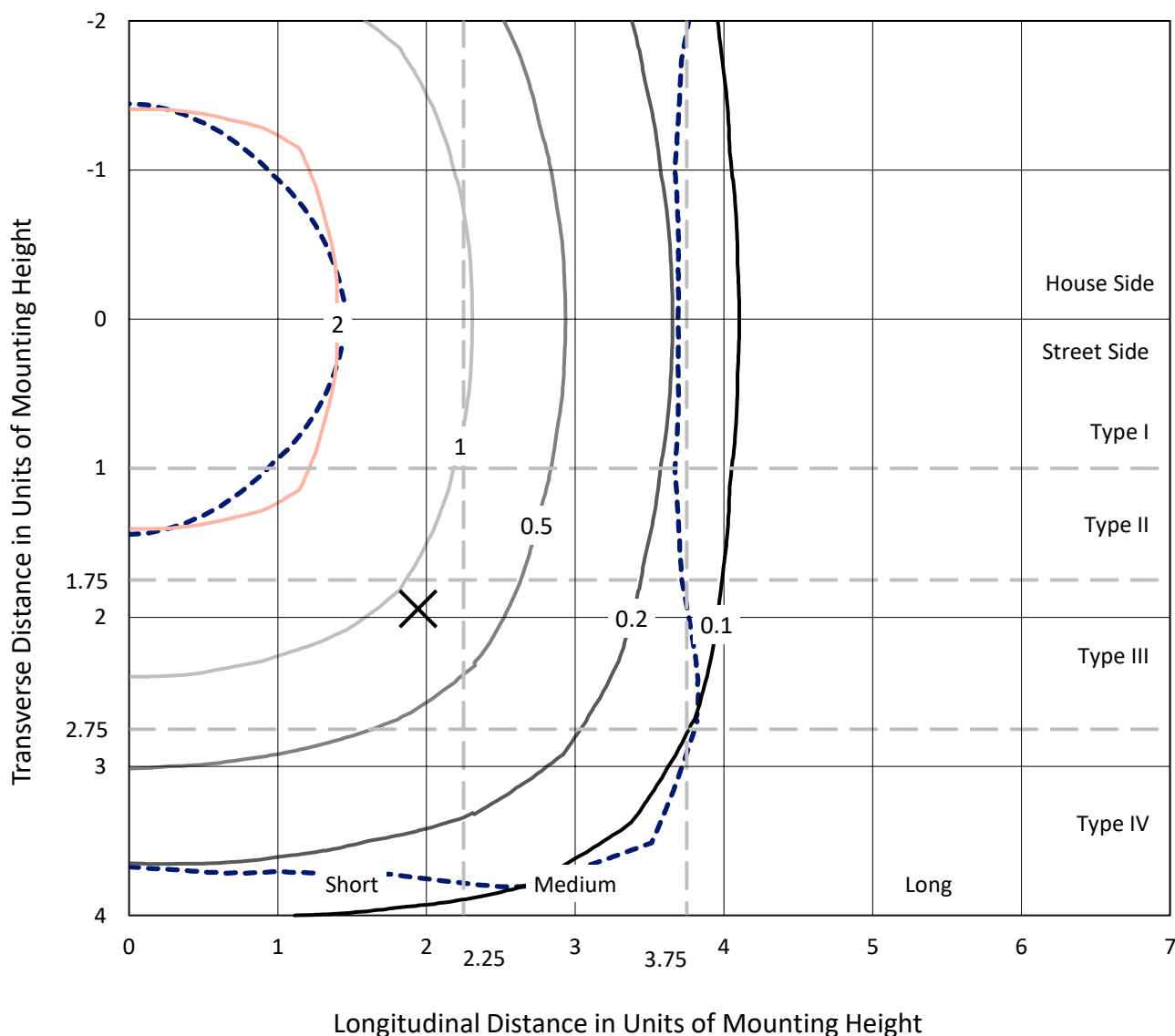
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



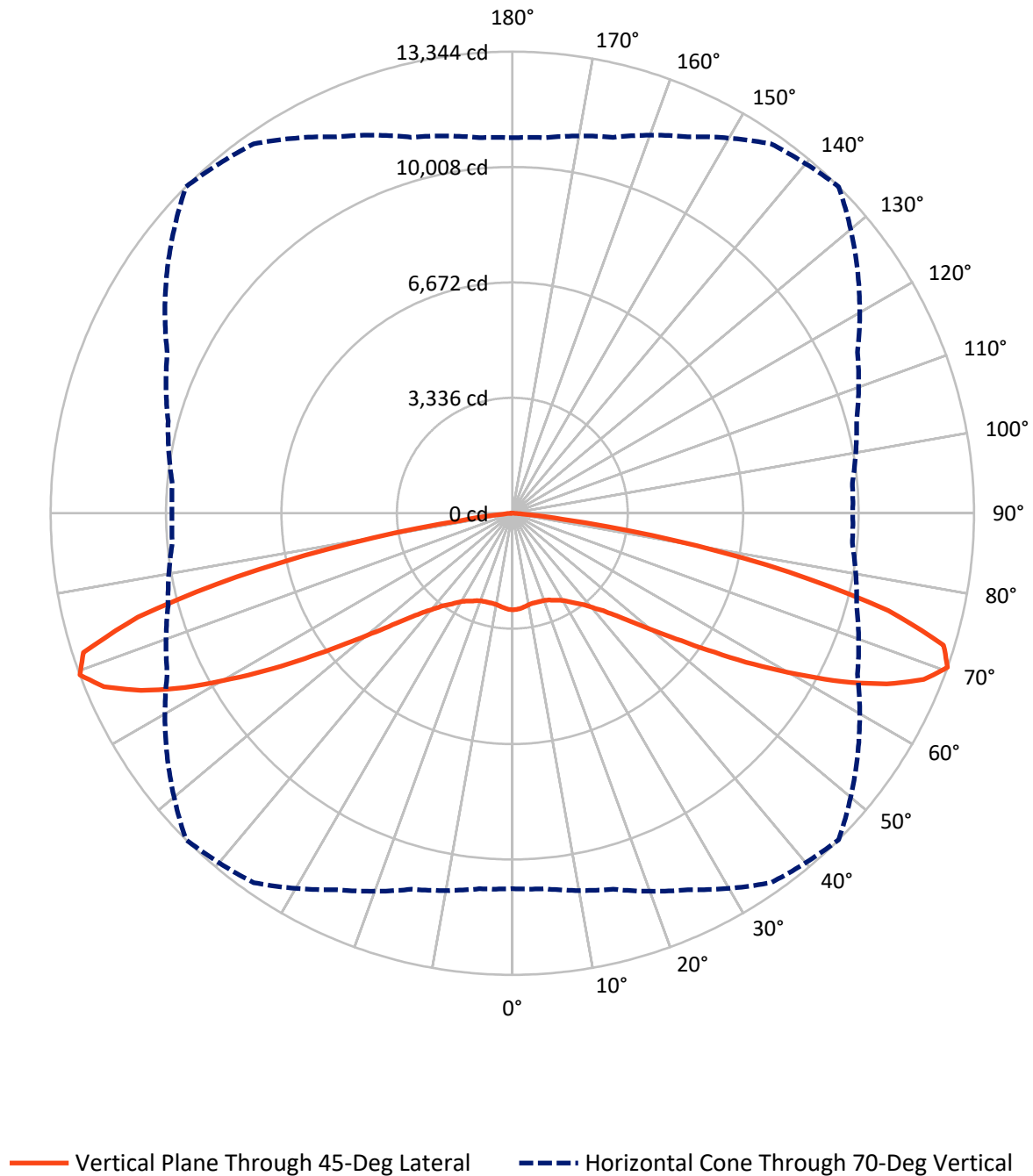
Based on 25 foot mounting height. Maximum calculated value = 4.5 fc

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	16481.0	0.0	16481.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16481.0	0.0	16481.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	32962.0	0.0	32962.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.0	0.8
10°-20°	764.0	2.3
20°-30°	1301.7	3.9
30°-40°	2017.6	6.1
40°-50°	3396.0	10.3
50°-60°	6178.9	18.7
60°-70°	10460.6	31.7
70°-80°	8096.9	24.6
80°-90°	485.2	1.5
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°	32962.0	100.0
0°-180°	32962.0	100.0

Coefficient of Utilization



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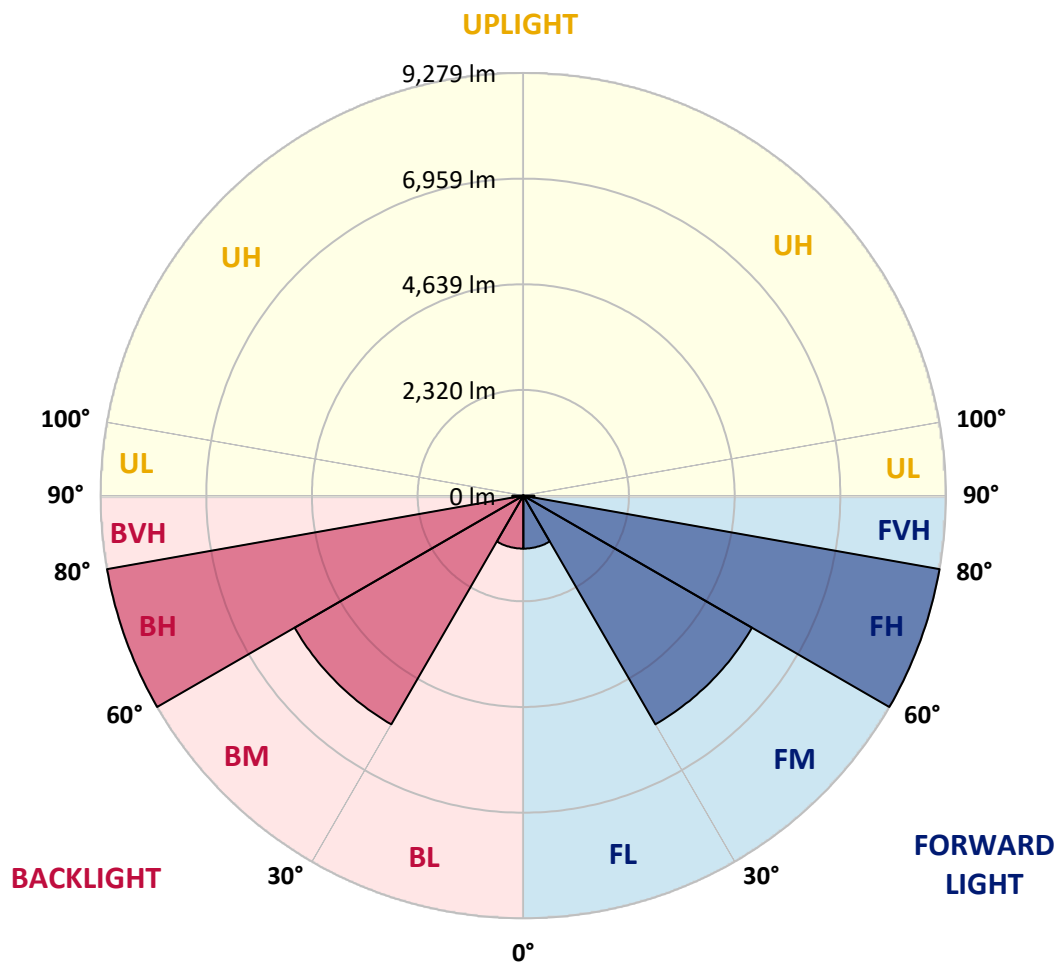
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1163.4	3.5			
FM	(30°-60°)	5796.2	17.6			
FH	(60°-80°)	9278.8	28.1			G4/12000
FVH	(80°-90°)	242.6	0.7			G3/500
BL	(0°-30°)	1163.4	3.5	B3/2500		
BM	(30°-60°)	5796.2	17.6	B4/8500		
BH	(60°-80°)	9278.8	28.1	B5		G4/12000
BVH	(80°-90°)	242.6	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2790.6	2790.6	2790.6	2790.6	2790.6	2790.6	2790.6	2790.6	2790.6	2790.6	2790.6
2.5°	2783.7	2785.4	2785.4	2781.9	2780.2	2780.2	2778.5	2778.5	2783.7	2785.4	2787.2
5°	2759.3	2759.3	2759.3	2757.6	2754.1	2754.1	2750.6	2750.6	2752.3	2757.6	2754.1
7.5°	2726.2	2729.7	2729.7	2722.7	2717.5	2717.5	2715.8	2717.5	2719.3	2724.5	2722.7
10°	2715.8	2717.5	2708.8	2696.6	2687.9	2682.7	2684.4	2687.9	2696.6	2700.1	2701.9
12.5°	2722.7	2722.7	2707.1	2689.7	2674.0	2667.0	2665.3	2677.5	2693.1	2703.6	2707.1
15°	2731.4	2728.0	2708.8	2686.2	2670.5	2668.8	2667.0	2675.7	2698.4	2719.3	2721.0
17.5°	2736.7	2734.9	2710.6	2682.7	2674.0	2674.0	2672.3	2679.2	2703.6	2729.7	2731.4
20°	2754.1	2748.9	2721.0	2691.4	2684.4	2687.9	2682.7	2691.4	2717.5	2748.9	2755.8
22.5°	2788.9	2783.7	2755.8	2726.2	2722.7	2722.7	2721.0	2729.7	2757.6	2790.6	2795.9
25°	2830.7	2825.5	2799.3	2778.5	2781.9	2788.9	2785.4	2787.2	2809.8	2837.6	2846.3
27.5°	2886.4	2877.7	2855.0	2837.6	2848.1	2848.1	2848.1	2846.3	2860.3	2886.4	2895.1
30°	2954.3	2950.8	2926.4	2924.7	2933.4	2924.7	2924.7	2926.4	2928.2	2952.5	2961.2
32.5°	3043.1	3036.1	3023.9	3020.4	3044.8	3051.8	3027.4	3004.8	3017.0	3041.3	3046.5
35°	3189.3	3178.9	3161.4	3142.3	3161.4	3194.5	3142.3	3124.9	3156.2	3189.3	3192.8
37.5°	3387.8	3382.5	3354.7	3319.9	3318.1	3352.9	3299.0	3297.2	3356.4	3396.5	3401.7
40°	3636.7	3641.9	3607.1	3574.0	3556.6	3584.5	3542.7	3558.4	3615.8	3661.1	3657.6
42.5°	3986.6	3967.5	3913.5	3882.2	3863.0	3852.6	3842.1	3866.5	3930.9	3979.7	4018.0
45°	4395.7	4388.8	4320.9	4282.6	4240.8	4225.1	4221.6	4265.2	4343.5	4402.7	4407.9
47.5°	4858.8	4843.1	4799.6	4759.6	4743.9	4724.8	4707.4	4740.4	4818.8	4860.5	4872.7
50°	5335.8	5339.3	5339.3	5332.3	5348.0	5351.5	5304.5	5316.7	5360.2	5356.7	5353.2
52.5°	5880.7	5899.9	5990.4	5999.1	6073.9	6124.4	6039.1	5988.6	5973.0	5879.0	5885.9
55°	6521.4	6538.8	6674.5	6810.3	7012.3	7097.6	6918.3	6761.6	6650.2	6507.4	6514.4
57.5°	7320.4	7329.1	7457.9	7719.1	8039.4	8239.6	7924.5	7614.6	7388.3	7252.5	7198.6
60°	8180.4	8189.1	8377.1	8695.7	9193.6	9437.3	9047.4	8540.8	8255.3	8048.1	8062.0
62.5°	9212.8	9247.6	9416.4	9855.1	10459.2	10732.5	10215.5	9538.3	9151.8	8894.2	8904.6
65°	10318.2	10377.4	10561.9	11044.2	11601.3	11895.5	11261.8	10480.1	9999.6	9684.5	9717.6
67.5°	11035.5	11087.7	11354.0	11886.8	12581.4	12825.1	12006.9	11096.4	10495.8	10119.8	10050.1
70°	10852.7	10896.2	11251.3	12006.9	13035.7	13343.9	12184.4	11005.9	10299.1	9865.6	9837.7
72.5°	9580.1	9489.6	10008.3	11092.9	12517.0	13034.0	11625.6	10051.9	9162.3	8716.6	8664.4
75°	6349.0	6545.7	7311.7	8589.5	10589.8	11230.4	9923.0	8070.7	6951.3	6580.5	6523.1
77.5°	2122.1	2273.6	2954.3	4869.3	7219.4	8182.2	7229.9	5278.4	3734.2	3008.2	3022.2
80°	562.3	555.3	719.0	1338.7	3119.7	4738.7	3631.5	1787.9	978.4	708.5	672.0
82.5°	201.9	226.3	290.7	370.8	826.9	1472.8	1039.3	501.4	367.3	271.6	262.9
85°	88.8	87.0	125.3	148.0	207.2	275.1	243.7	212.4	186.3	123.6	114.9
87.5°	19.1	19.1	29.6	22.6	36.6	36.6	45.3	54.0	55.7	36.6	29.6
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)