

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: P457790

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457790
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-SA9A-830-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34480 lumens
Efficiency: N/A
Efficacy: 125.8 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): 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

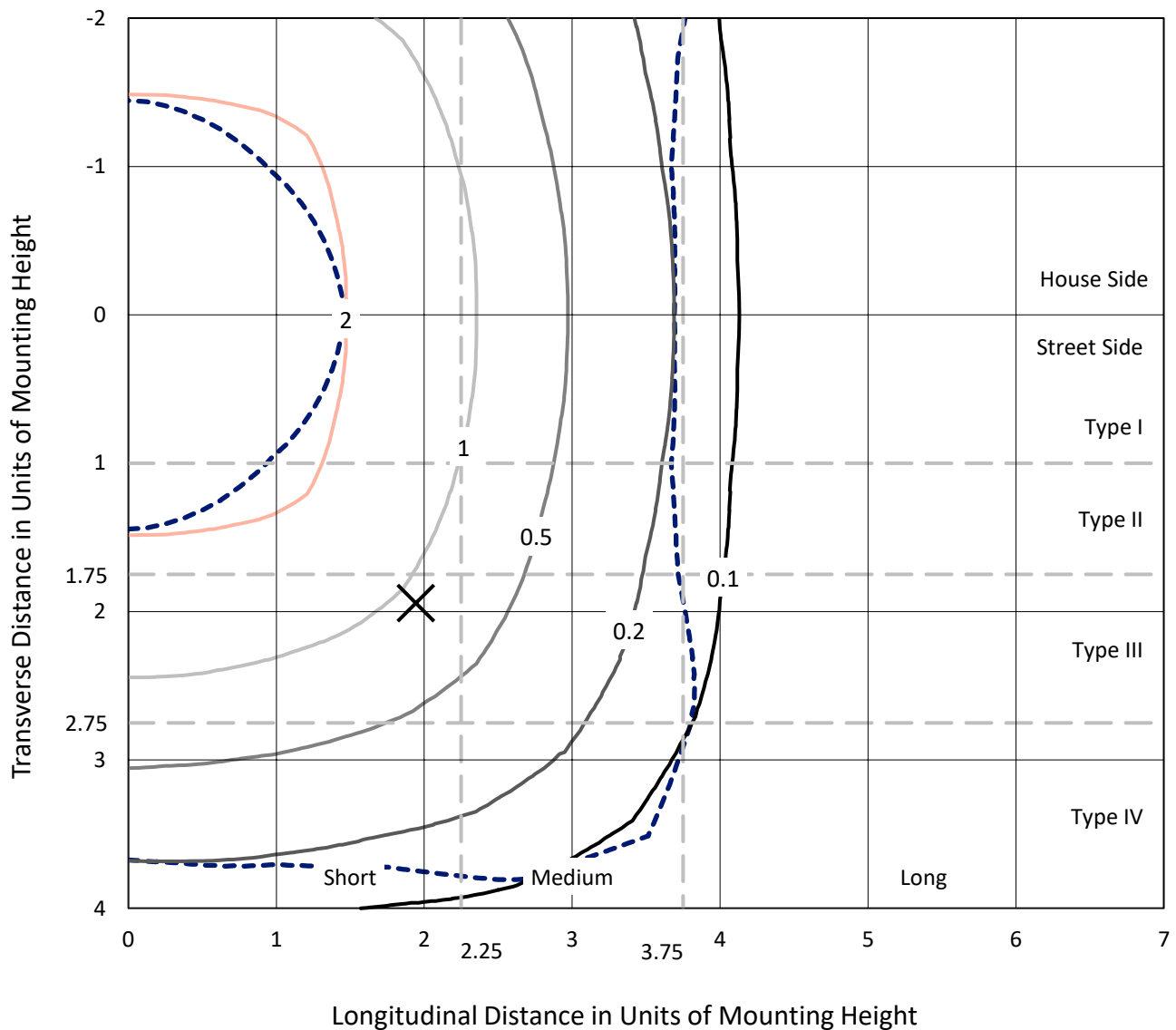


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

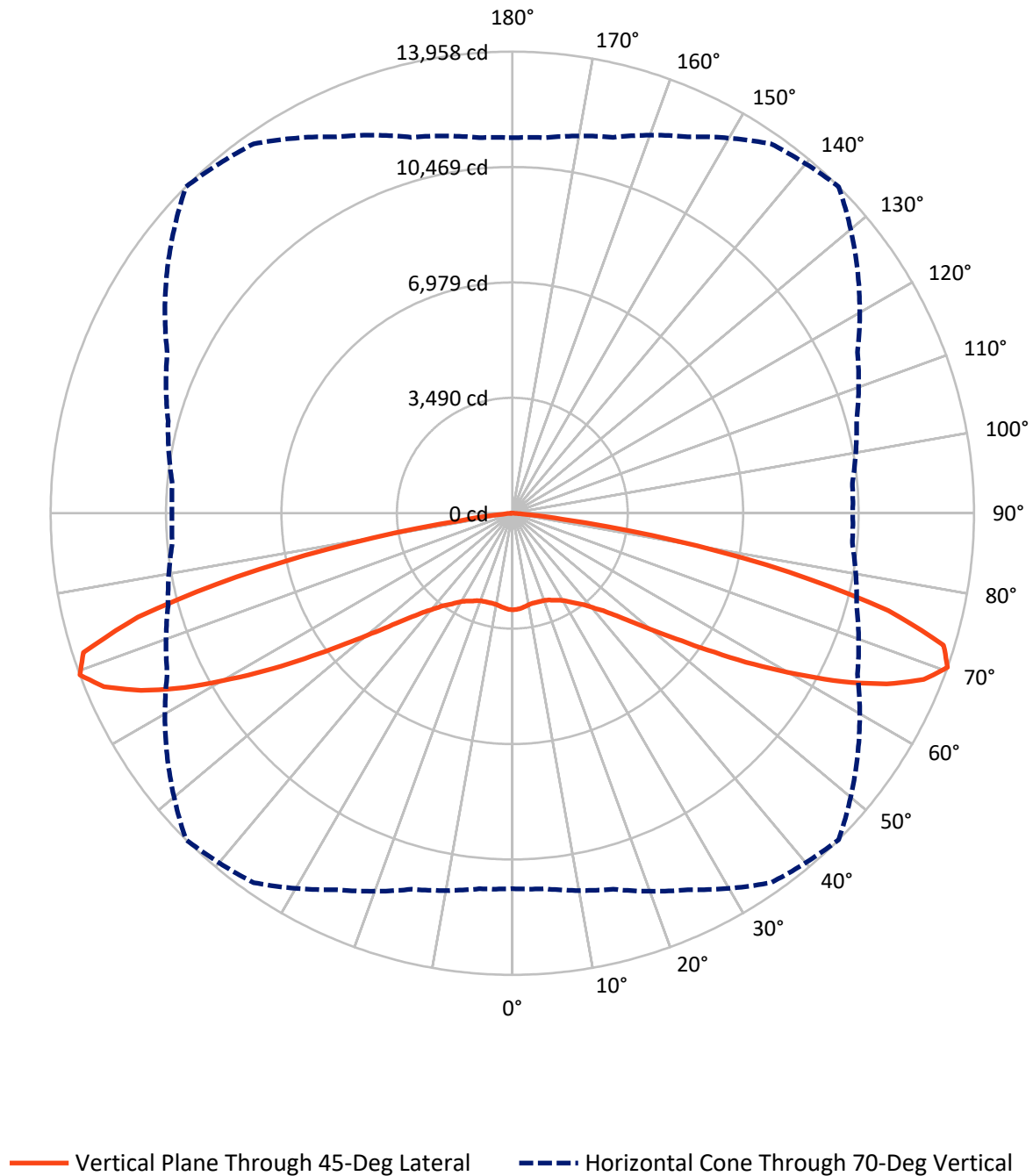


Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17240.0	0.0	17240.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17240.0	0.0	17240.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	34480.0	0.0	34480.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.0	0.8
10°-20°	799.2	2.3
20°-30°	1361.7	3.9
30°-40°	2110.6	6.1
40°-50°	3552.4	10.3
50°-60°	6463.4	18.7
60°-70°	10942.4	31.7
70°-80°	8469.8	24.6
80°-90°	507.5	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°	34480.0	100.0
0°-180°	34480.0	100.0

Coefficient of Utilization



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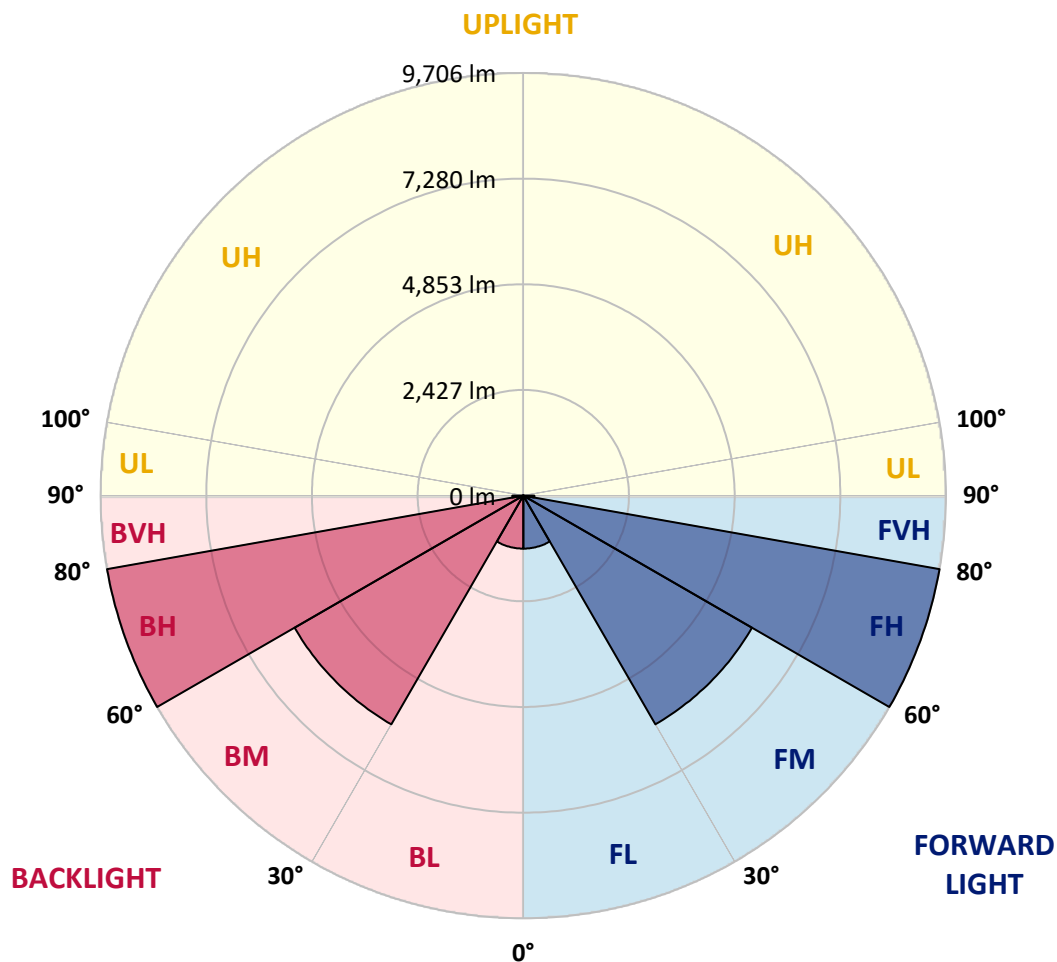
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1216.9	3.5			
FM	(30°-60°)	6063.2	17.6			
FH	(60°-80°)	9706.1	28.1			G4/12000
FVH	(80°-90°)	253.8	0.7			G3/500
BL	(0°-30°)	1216.9	3.5	B3/2500		
BM	(30°-60°)	6063.2	17.6	B4/8500		
BH	(60°-80°)	9706.1	28.1	B5		G4/12000
BVH	(80°-90°)	253.8	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°	2919.2	2919.2	2919.2	2919.2	2919.2	2919.2	2919.2	2919.2	2919.2	2919.2	2919.2
2.5°	2911.9	2913.7	2913.7	2910.0	2908.2	2908.2	2906.4	2906.4	2911.9	2913.7	2915.5
5°	2886.4	2886.4	2886.4	2884.6	2880.9	2880.9	2877.3	2877.3	2879.1	2884.6	2880.9
7.5°	2851.8	2855.4	2855.4	2848.1	2842.7	2842.7	2840.8	2842.7	2844.5	2850.0	2848.1
10°	2840.8	2842.7	2833.6	2820.8	2811.7	2806.2	2808.1	2811.7	2820.8	2824.5	2826.3
12.5°	2848.1	2848.1	2831.7	2813.5	2797.1	2789.9	2788.0	2800.8	2817.2	2828.1	2831.7
15°	2857.2	2853.6	2833.6	2809.9	2793.5	2791.7	2789.9	2799.0	2822.6	2844.5	2846.3
17.5°	2862.7	2860.9	2835.4	2806.2	2797.1	2797.1	2795.3	2802.6	2828.1	2855.4	2857.2
20°	2880.9	2875.4	2846.3	2815.4	2808.1	2811.7	2806.2	2815.4	2842.7	2875.4	2882.7
22.5°	2917.3	2911.9	2882.7	2851.8	2848.1	2848.1	2846.3	2855.4	2884.6	2919.2	2924.6
25°	2961.0	2955.6	2928.3	2906.4	2910.0	2917.3	2913.7	2915.5	2939.2	2968.3	2977.4
27.5°	3019.3	3010.2	2986.5	2968.3	2979.2	2979.2	2979.2	2977.4	2992.0	3019.3	3028.4
30°	3090.3	3086.7	3061.2	3059.4	3068.5	3059.4	3059.4	3061.2	3063.0	3088.5	3097.6
32.5°	3183.2	3175.9	3163.2	3159.5	3185.0	3192.3	3166.8	3143.1	3155.9	3181.4	3186.8
35°	3336.2	3325.2	3307.0	3287.0	3307.0	3341.6	3287.0	3268.8	3301.6	3336.2	3339.8
37.5°	3543.8	3538.3	3509.2	3472.8	3470.9	3507.4	3450.9	3449.1	3511.0	3552.9	3558.3
40°	3804.2	3809.7	3773.2	3738.6	3720.4	3749.6	3705.9	3722.2	3782.3	3829.7	3826.0
42.5°	4170.2	4150.2	4093.7	4061.0	4040.9	4030.0	4019.1	4044.6	4111.9	4162.9	4203.0
45°	4598.2	4590.9	4519.9	4479.8	4436.1	4419.7	4416.1	4461.6	4543.5	4605.5	4610.9
47.5°	5082.6	5066.2	5020.7	4978.8	4962.4	4942.3	4924.1	4958.7	5040.7	5084.4	5097.1
50°	5581.5	5585.2	5585.2	5577.9	5594.3	5597.9	5548.8	5561.5	5607.0	5603.4	5599.8
52.5°	6151.5	6171.6	6266.3	6275.4	6353.7	6406.5	6317.2	6264.4	6248.0	6149.7	6157.0
55°	6821.7	6839.9	6981.9	7124.0	7335.2	7424.4	7236.9	7073.0	6956.4	6807.1	6814.4
57.5°	7657.5	7666.6	7801.4	8074.6	8409.6	8619.1	8289.5	7965.3	7728.6	7586.5	7530.1
60°	8557.1	8566.3	8762.9	9096.2	9617.0	9871.9	9464.0	8934.1	8635.5	8418.7	8433.3
62.5°	9637.0	9673.5	9850.1	10309.0	10940.9	11226.8	10686.0	9977.6	9573.3	9303.8	9314.7
65°	10793.4	10855.3	11048.4	11552.8	12135.5	12443.3	11780.4	10962.8	10460.2	10130.5	10165.1
67.5°	11543.7	11598.3	11876.9	12434.2	13160.8	13415.7	12559.8	11607.4	10979.2	10585.8	10513.0
70°	11352.5	11398.0	11769.5	12559.8	13636.1	13958.4	12745.6	11512.7	10773.4	10319.9	10290.8
72.5°	10021.3	9926.6	10469.3	11603.8	13093.4	13634.3	12161.0	10514.8	9584.2	9118.0	9063.4
75°	6641.4	6847.2	7648.4	8985.1	11077.5	11747.6	10380.0	8442.4	7271.5	6883.6	6823.5
77.5°	2219.9	2378.3	3090.3	5093.5	7551.9	8559.0	7562.8	5521.4	3906.2	3146.8	3161.4
80°	588.2	580.9	752.1	1400.4	3263.3	4956.9	3798.7	1870.2	1023.4	741.2	702.9
82.5°	211.2	236.7	304.1	387.9	865.0	1540.6	1087.2	524.5	384.2	284.1	275.0
85°	92.9	91.1	131.1	154.8	216.7	287.7	254.9	222.2	194.9	129.3	120.2
87.5°	20.0	20.0	31.0	23.7	38.2	38.2	47.3	56.5	58.3	38.2	31.0
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)