

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: P531843

Luminaire Tested: **GALN-SA7A-830-U-RW-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531843
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-SA7A-830-U-RW-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 615mA 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: 16358 lumens
Efficiency: N/A
Efficacy: 76.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

Input Watts (W): 215
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



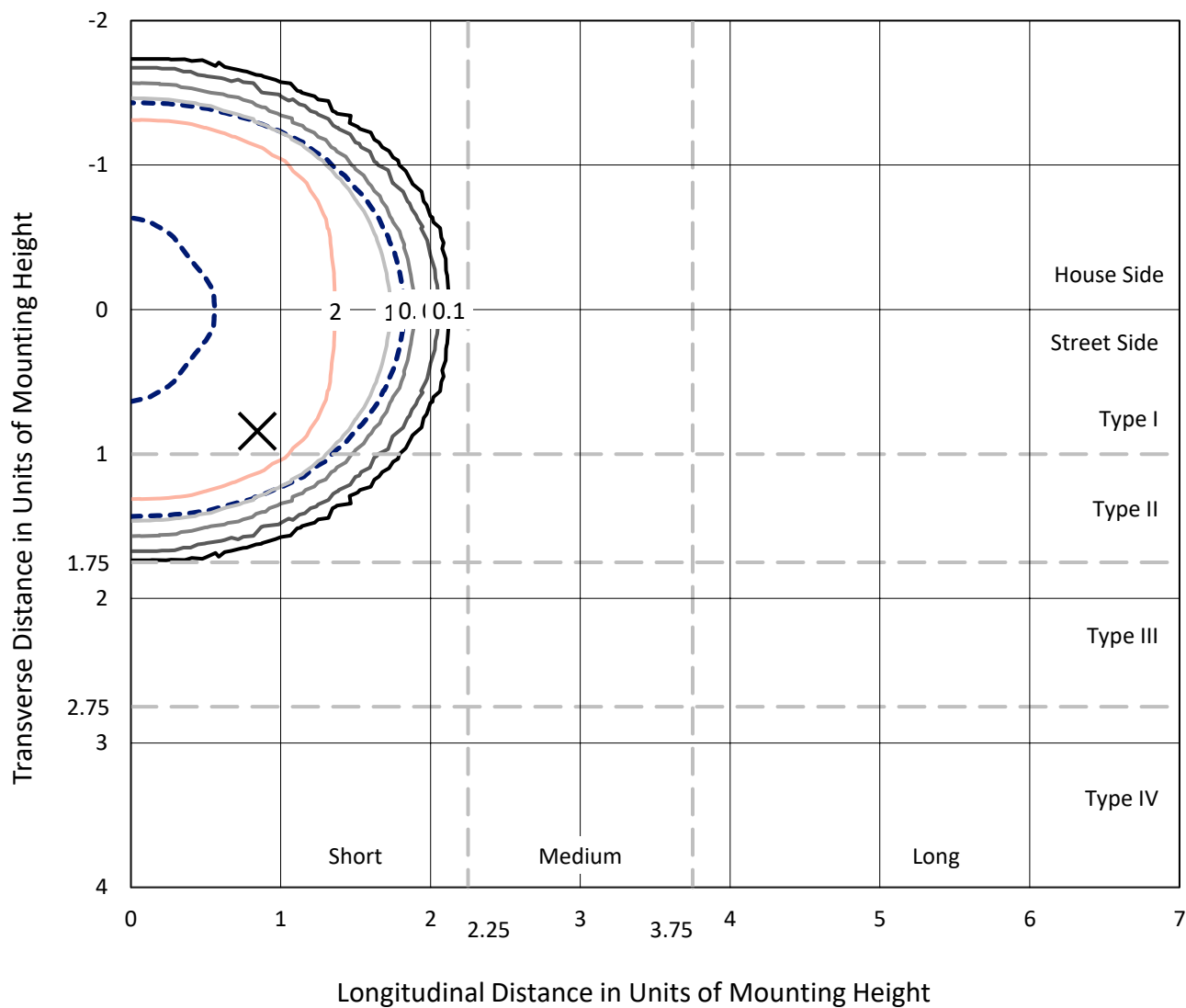
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

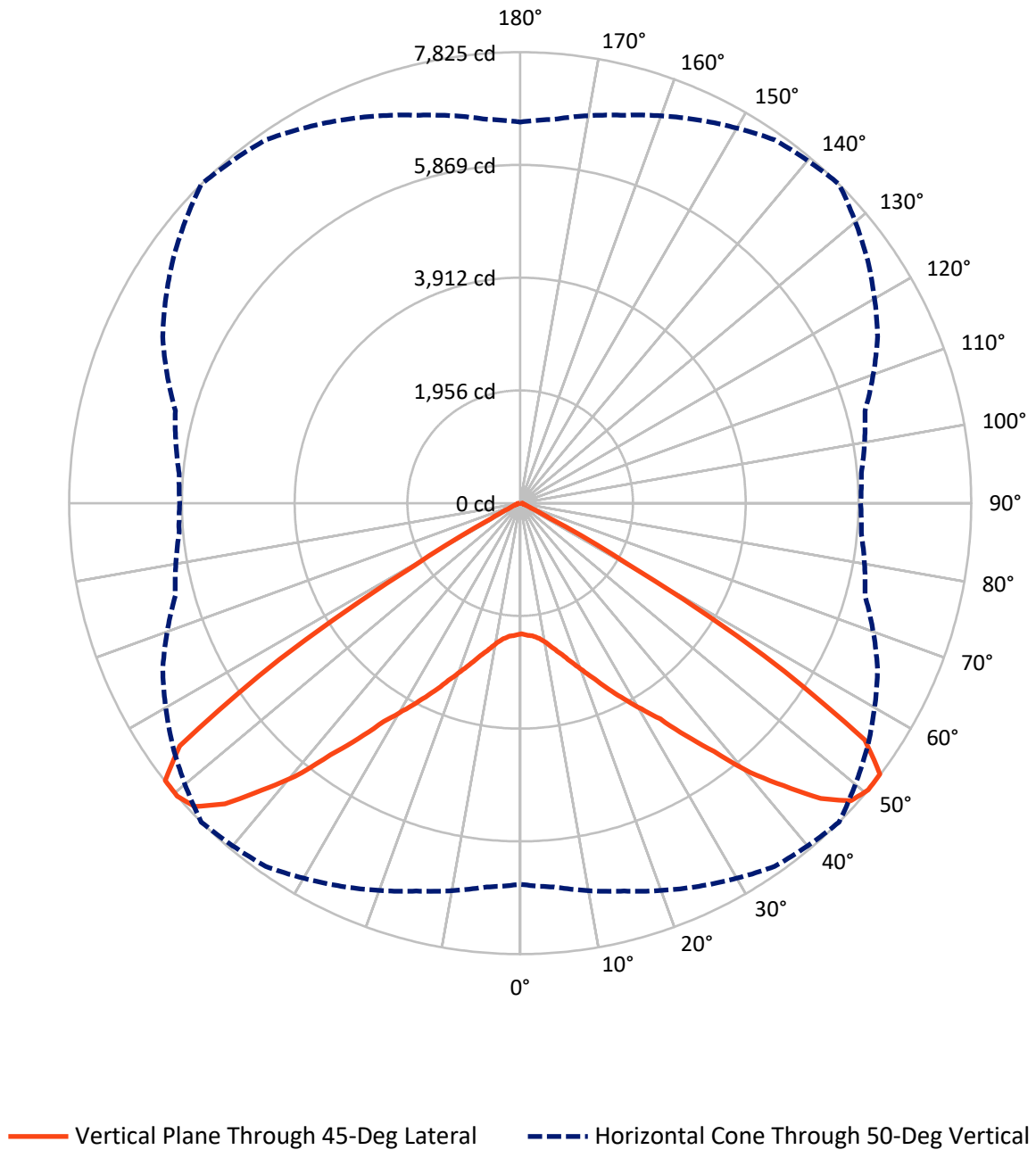


Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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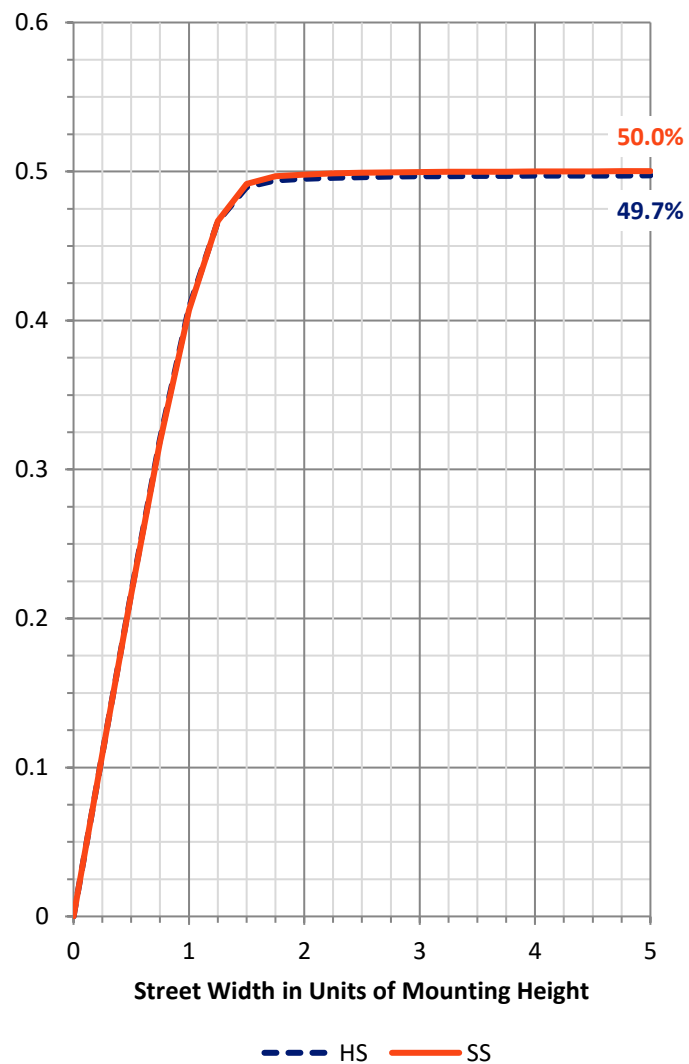
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8179.0	0.0	8179.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8179.0	0.0	8179.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	16358.0	0.0	16358.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.6	1.4
10°-20°	777.6	4.8
20°-30°	1588.2	9.7
30°-40°	3028.7	18.5
40°-50°	5103.7	31.2
50°-60°	4867.3	29.8
60°-70°	679.5	4.2
70°-80°	65.0	0.4
80°-90°	22.5	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°	16358.0	100.0
0°-180°	16358.0	100.0

Coefficient of Utilization



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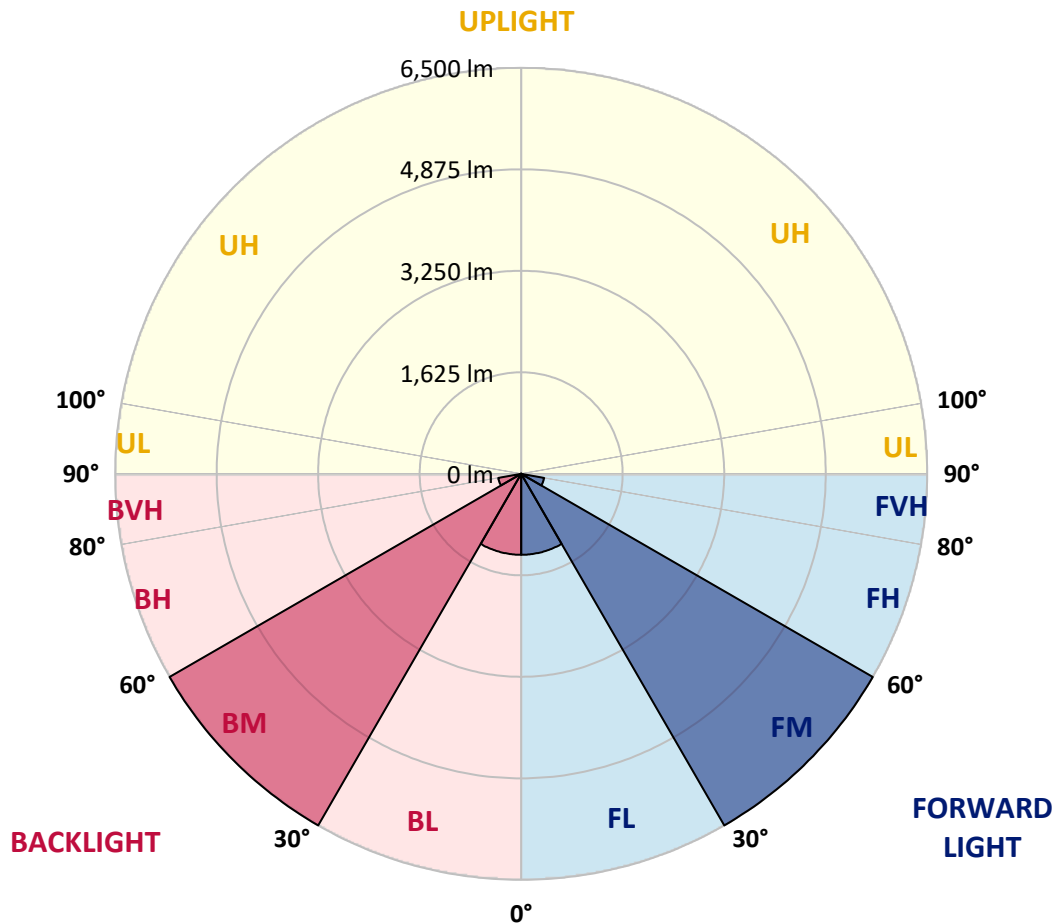
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1295.7	7.9			
FM	(30°-60°)	6499.9	39.7			
FH	(60°-80°)	372.2	2.3			G0/660
FVH	(80°-90°)	11.2	0.1			G1/100
BL	(0°-30°)	1295.7	7.9	B3/2500		
BM	(30°-60°)	6499.9	39.7	B4/8500		
BH	(60°-80°)	372.2	2.3	B1/500		G0/660
BVH	(80°-90°)	11.2	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°	2267.9	2267.9	2267.9	2267.9	2267.9	2267.9	2267.9	2267.9	2267.9	2267.9	2267.9
2.5°	2259.6	2259.6	2256.8	2278.9	2267.9	2292.6	2289.9	2298.1	2306.4	2303.6	2325.7
5°	2240.3	2237.6	2237.6	2262.4	2287.1	2314.6	2339.4	2355.9	2383.5	2383.5	2411.0
7.5°	2259.6	2245.8	2265.1	2276.1	2322.9	2369.7	2411.0	2444.0	2507.3	2529.3	2521.1
10°	2265.1	2281.6	2295.4	2328.4	2386.2	2457.8	2493.5	2576.1	2647.7	2697.2	2708.2
12.5°	2300.9	2325.7	2364.2	2444.0	2496.3	2589.9	2639.4	2719.2	2818.3	2873.4	2911.9
15°	2369.7	2377.9	2427.5	2529.3	2642.2	2727.5	2804.5	2862.3	2958.7	3022.0	3024.7
17.5°	2457.8	2493.5	2562.3	2658.7	2777.0	2903.6	2964.2	3027.5	3063.3	3148.6	3167.8
20°	2633.9	2639.4	2705.5	2832.1	2980.7	3096.3	3140.3	3173.3	3159.6	3247.7	3264.2
22.5°	2799.0	2804.5	2887.1	3057.8	3217.4	3316.5	3335.7	3316.5	3275.2	3338.5	3344.0
25°	2966.9	3016.5	3077.0	3247.7	3445.8	3577.9	3580.7	3528.4	3443.1	3454.1	3481.6
27.5°	3228.4	3264.2	3327.5	3484.4	3701.8	3850.4	3825.6	3762.3	3652.2	3660.5	3652.2
30°	3533.9	3566.9	3619.2	3820.1	3979.8	4142.1	4177.9	4117.4	3952.2	3916.5	3957.7
32.5°	3902.7	3949.5	4045.8	4230.2	4365.1	4464.2	4488.9	4466.9	4312.8	4299.0	4326.5
35°	4351.3	4414.6	4502.7	4665.1	4775.2	4954.1	4954.1	4879.7	4739.4	4755.9	4753.1
37.5°	4824.7	4918.3	5055.9	5221.0	5369.6	5466.0	5435.7	5372.4	5232.0	5196.3	5232.0
40°	5419.2	5466.0	5639.4	5854.0	6035.7	6145.8	6016.4	5878.8	5543.0	5595.3	5691.7
42.5°	5961.4	6035.7	6167.8	6404.5	6610.9	6701.7	6547.6	6275.1	5870.6	5829.3	5900.8
45°	6423.8	6503.6	6677.0	7015.5	7232.9	7312.7	6971.5	6531.1	6068.7	5964.1	5994.4
47.5°	6732.0	6773.3	7015.5	7337.5	7535.7	7717.3	7227.4	6707.2	6162.3	5964.1	5953.1
50°	6613.7	6685.2	6968.7	7334.8	7695.3	7824.7	7356.8	6842.1	6192.6	5939.4	5906.3
52.5°	5873.3	5997.2	6313.7	6806.3	7351.3	7813.6	7535.7	6798.1	6181.6	5964.1	6013.7
55°	4087.1	4089.8	4475.2	5201.8	6165.0	7254.9	7274.2	6847.6	6253.1	6118.3	6121.0
57.5°	1643.1	1725.7	2020.2	2749.5	3638.5	4981.6	5922.8	6352.2	6261.4	6228.3	6313.7
60°	415.6	418.3	509.2	776.1	1279.8	2135.7	3101.8	4197.2	4833.0	5050.4	5080.7
62.5°	211.9	214.7	236.7	275.2	349.5	572.5	1018.3	1615.6	2298.1	2644.9	2735.7
65°	173.4	173.4	187.2	206.4	209.2	220.2	264.2	377.1	547.7	622.0	630.3
67.5°	132.1	132.1	143.1	154.1	159.6	156.9	151.4	156.9	189.9	181.6	176.1
70°	82.6	85.3	90.8	101.8	107.3	110.1	112.8	118.3	134.9	140.4	134.9
72.5°	49.5	49.5	52.3	60.5	68.8	74.3	82.6	88.1	96.3	110.1	107.3
75°	22.0	22.0	27.5	35.8	44.0	52.3	60.5	68.8	74.3	82.6	85.3
77.5°	5.5	8.3	13.8	24.8	33.0	44.0	55.0	63.3	68.8	68.8	66.1
80°	2.8	2.8	11.0	19.3	35.8	46.8	60.5	66.1	74.3	68.8	60.5
82.5°	2.8	2.8	11.0	19.3	33.0	46.8	63.3	71.6	77.1	68.8	57.8
85°	0.0	2.8	8.3	16.5	27.5	33.0	27.5	19.3	11.0	11.0	8.3
87.5°	0.0	0.0	2.8	2.8	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)