

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: P456833

Luminaire Tested: **GALN-SA8A-827-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456833
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-SA8A-827-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 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: 28412 lumens
Efficiency: N/A
Efficacy: 116.4 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

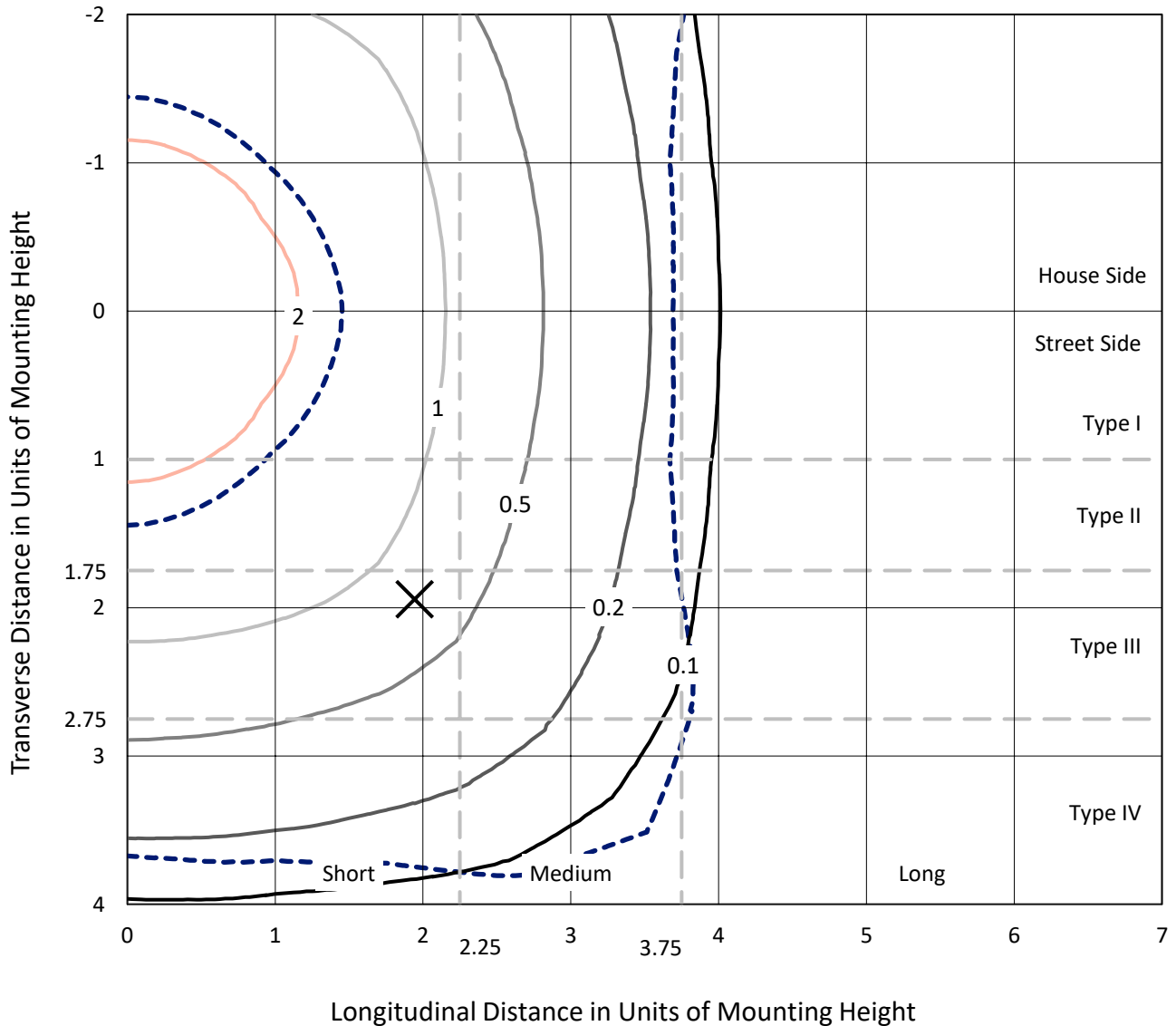
Input Watts (W): 244
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

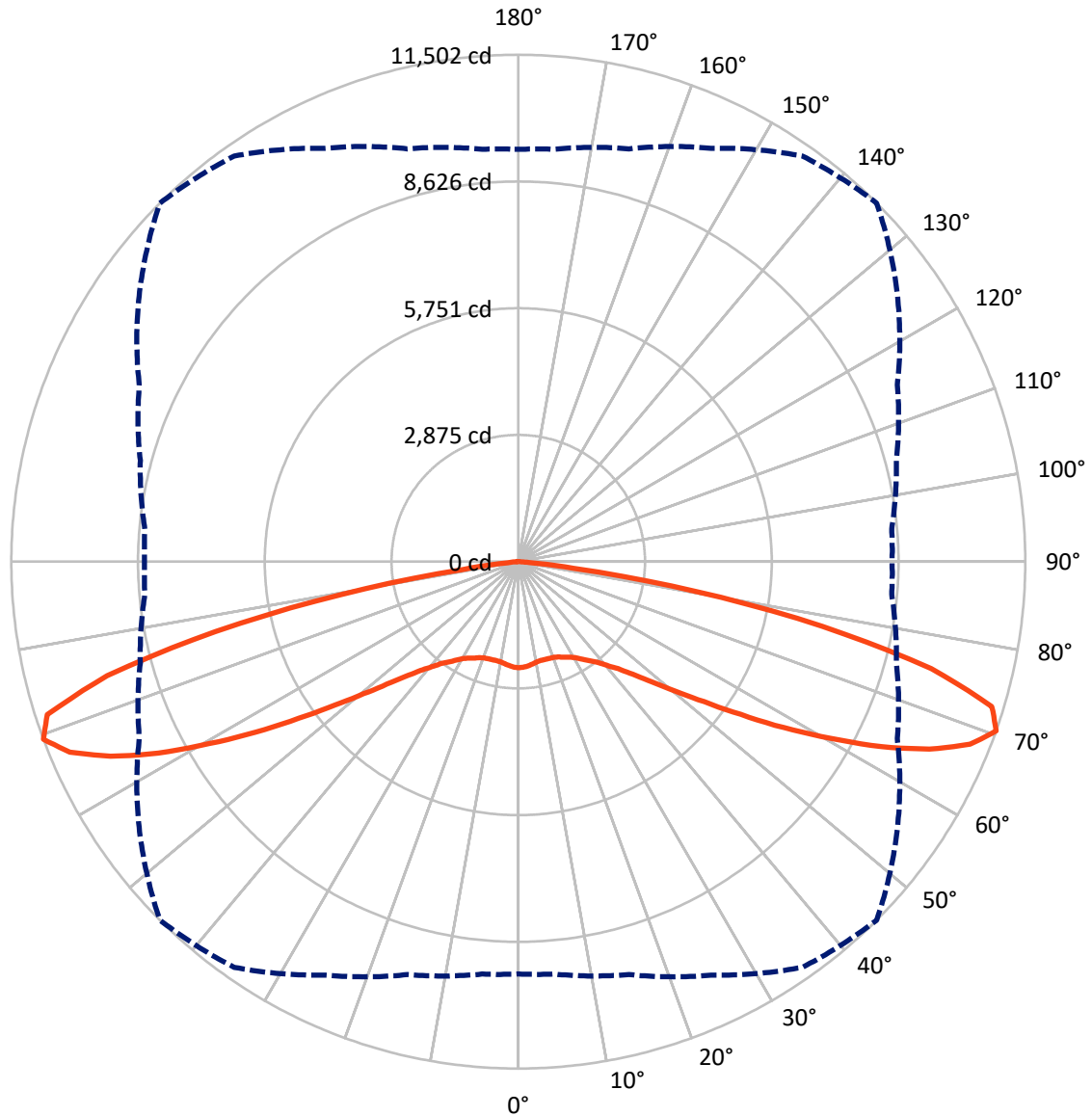
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14206.0	0.0	14206.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14206.0	0.0	14206.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	28412.0	0.0	28412.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.0	0.8
10°-20°	658.6	2.3
20°-30°	1122.0	3.9
30°-40°	1739.1	6.1
40°-50°	2927.2	10.3
50°-60°	5325.9	18.7
60°-70°	9016.7	31.7
70°-80°	6979.3	24.6
80°-90°	418.2	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°	28412.0	100.0
0°-180°	28412.0	100.0



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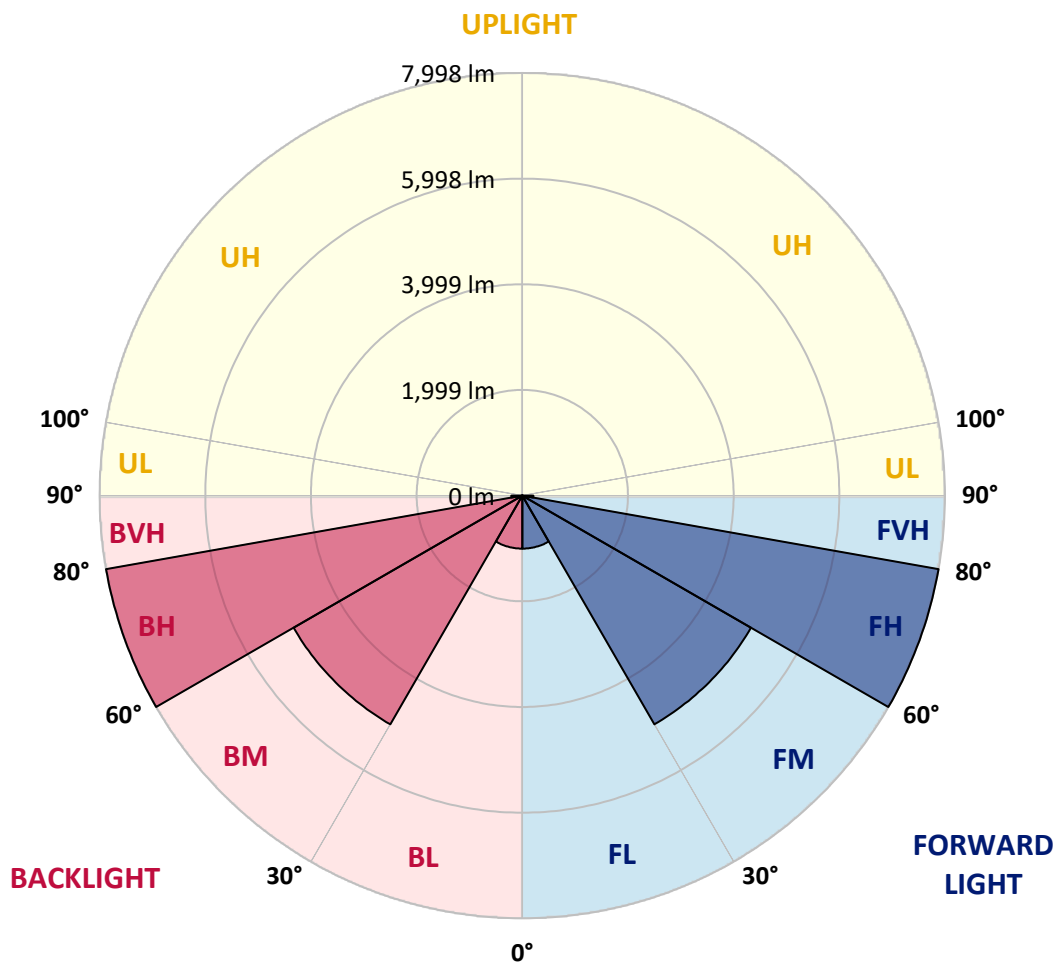
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1002.8	3.5			
FM (30°-60°)	4996.2	17.6			
FH (60°-80°)	7998.0	28.1			G4/12000
FVH (80°-90°)	209.1	0.7			G2/225
BL (0°-30°)	1002.8	3.5	B3/2500		
BM (30°-60°)	4996.2	17.6	B3/5000		
BH (60°-80°)	7998.0	28.1	B5		G4/12000
BVH (80°-90°)	209.1	0.7			G2/225
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°	2405.4	2405.4	2405.4	2405.4	2405.4	2405.4	2405.4	2405.4	2405.4	2405.4	2405.4
2.5°	2399.4	2400.9	2400.9	2397.9	2396.4	2396.4	2394.9	2394.9	2399.4	2400.9	2402.4
5°	2378.4	2378.4	2378.4	2376.9	2373.9	2373.9	2370.9	2370.9	2372.4	2376.9	2373.9
7.5°	2349.9	2352.9	2352.9	2346.9	2342.4	2342.4	2340.9	2342.4	2343.9	2348.4	2346.9
10°	2340.9	2342.4	2334.9	2324.4	2316.9	2312.4	2313.9	2316.9	2324.4	2327.4	2328.9
12.5°	2346.9	2346.9	2333.4	2318.4	2304.9	2298.9	2297.4	2307.9	2321.4	2330.4	2333.4
15°	2354.4	2351.4	2334.9	2315.4	2301.9	2300.4	2298.9	2306.4	2325.9	2343.9	2345.4
17.5°	2358.9	2357.4	2336.4	2312.4	2304.9	2304.9	2303.4	2309.4	2330.4	2352.9	2354.4
20°	2373.9	2369.4	2345.4	2319.9	2313.9	2316.9	2312.4	2319.9	2342.4	2369.4	2375.4
22.5°	2403.9	2399.4	2375.4	2349.9	2346.9	2346.9	2345.4	2352.9	2376.9	2405.4	2409.9
25°	2439.9	2435.4	2412.9	2394.9	2397.9	2403.9	2400.9	2402.4	2421.9	2445.9	2453.4
27.5°	2488.0	2480.5	2460.9	2445.9	2454.9	2454.9	2454.9	2453.4	2465.4	2488.0	2495.5
30°	2546.5	2543.5	2522.5	2521.0	2528.5	2521.0	2521.0	2522.5	2524.0	2545.0	2552.5
32.5°	2623.0	2617.0	2606.5	2603.5	2624.5	2630.5	2609.5	2590.0	2600.5	2621.5	2626.0
35°	2749.1	2740.1	2725.0	2708.5	2725.0	2753.6	2708.5	2693.5	2720.5	2749.1	2752.1
37.5°	2920.1	2915.6	2891.6	2861.6	2860.1	2890.1	2843.6	2842.1	2893.1	2927.6	2932.1
40°	3134.7	3139.2	3109.2	3080.7	3065.7	3089.7	3053.7	3067.2	3116.7	3155.7	3152.7
42.5°	3436.3	3419.8	3373.3	3346.3	3329.8	3320.8	3311.8	3332.8	3388.3	3430.3	3463.3
45°	3789.0	3783.0	3724.4	3691.4	3655.4	3641.9	3638.9	3676.4	3743.9	3795.0	3799.5
47.5°	4188.1	4174.6	4137.1	4102.6	4089.1	4072.6	4057.6	4086.1	4153.6	4189.6	4200.1
50°	4599.3	4602.3	4602.3	4596.3	4609.8	4612.8	4572.3	4582.8	4620.3	4617.3	4614.3
52.5°	5068.9	5085.5	5163.5	5171.0	5235.5	5279.0	5205.5	5162.0	5148.5	5067.4	5073.4
55°	5621.2	5636.2	5753.2	5870.3	6044.3	6117.8	5963.3	5828.2	5732.2	5609.2	5615.2
57.5°	6309.9	6317.4	6428.5	6653.6	6929.7	7102.2	6830.6	6563.5	6368.4	6251.4	6204.9
60°	7051.2	7058.7	7220.8	7495.4	7924.5	8134.6	7798.5	7361.8	7115.7	6937.2	6949.2
62.5°	7941.0	7971.1	8116.6	8494.8	9015.5	9251.1	8805.4	8221.7	7888.5	7666.4	7675.4
65°	8893.9	8944.9	9104.0	9519.7	9999.8	10253.4	9707.2	9033.5	8619.3	8347.7	8376.2
67.5°	9512.2	9557.2	9786.8	10245.9	10844.7	11054.7	10349.5	9564.7	9047.0	8722.8	8662.8
70°	9354.6	9392.1	9698.2	10349.5	11236.3	11501.9	10502.5	9486.6	8877.4	8503.8	8479.8
72.5°	8257.7	8179.6	8626.8	9561.7	10789.1	11234.8	10020.8	8664.3	7897.5	7513.4	7468.4
75°	5472.6	5642.2	6302.4	7403.8	9128.0	9680.2	8553.3	6956.7	5991.8	5672.2	5622.7
77.5°	1829.2	1959.8	2546.5	4197.1	6222.9	7052.7	6231.9	4549.7	3218.7	2593.0	2605.0
80°	484.7	478.7	619.7	1153.9	2689.0	4084.6	3130.2	1541.1	843.3	610.7	579.2
82.5°	174.1	195.1	250.6	319.6	712.8	1269.5	895.8	432.2	316.6	234.1	226.6
85°	76.5	75.0	108.0	127.5	178.6	237.1	210.1	183.1	160.6	106.5	99.0
87.5°	16.5	16.5	25.5	19.5	31.5	31.5	39.0	46.5	48.0	31.5	25.5
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)