

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: P452990

Luminaire Tested: **GALN-SA4A-727-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452990
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4A-727-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15103 lumens
Efficiency: N/A
Efficacy: 124.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

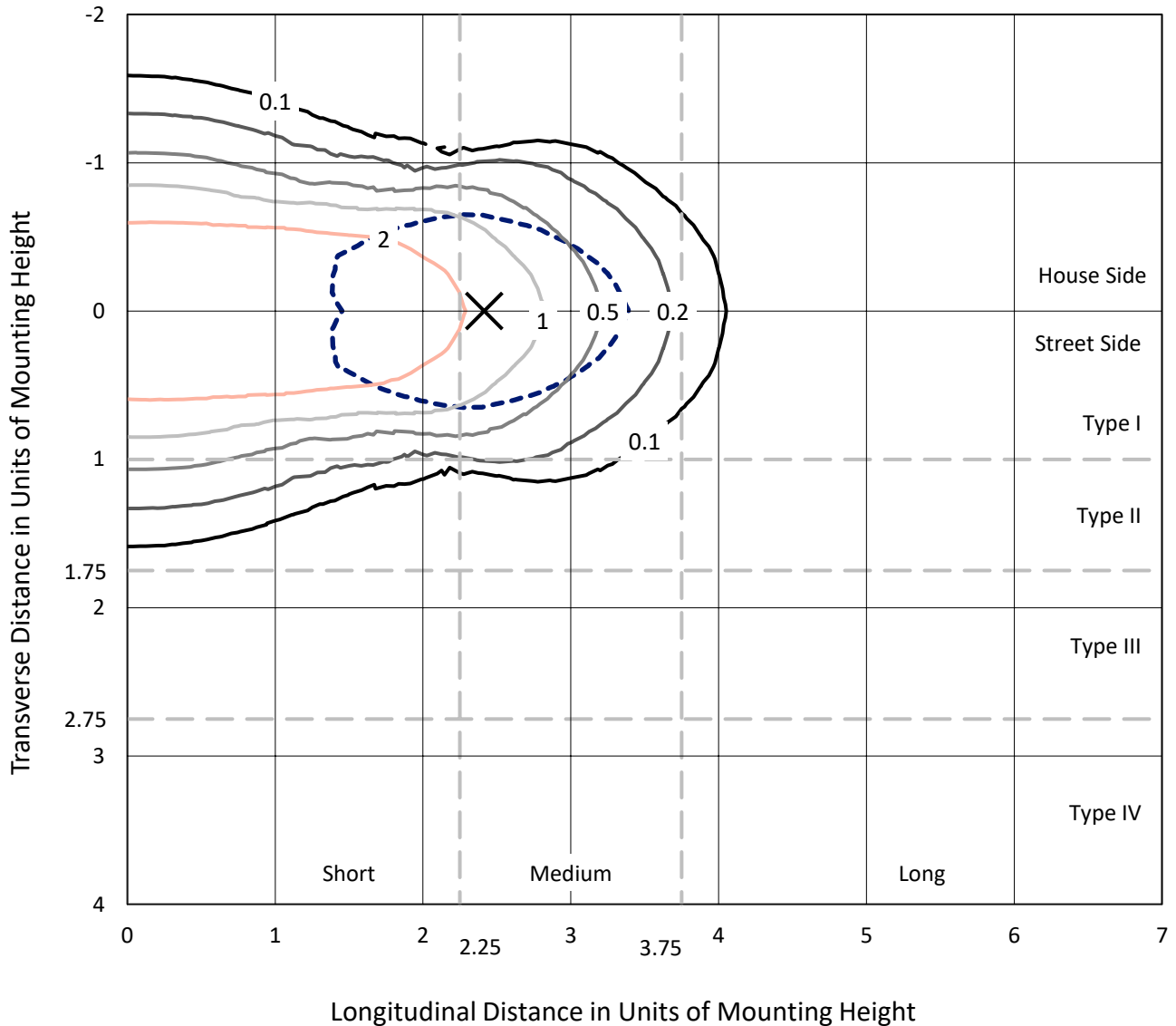
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

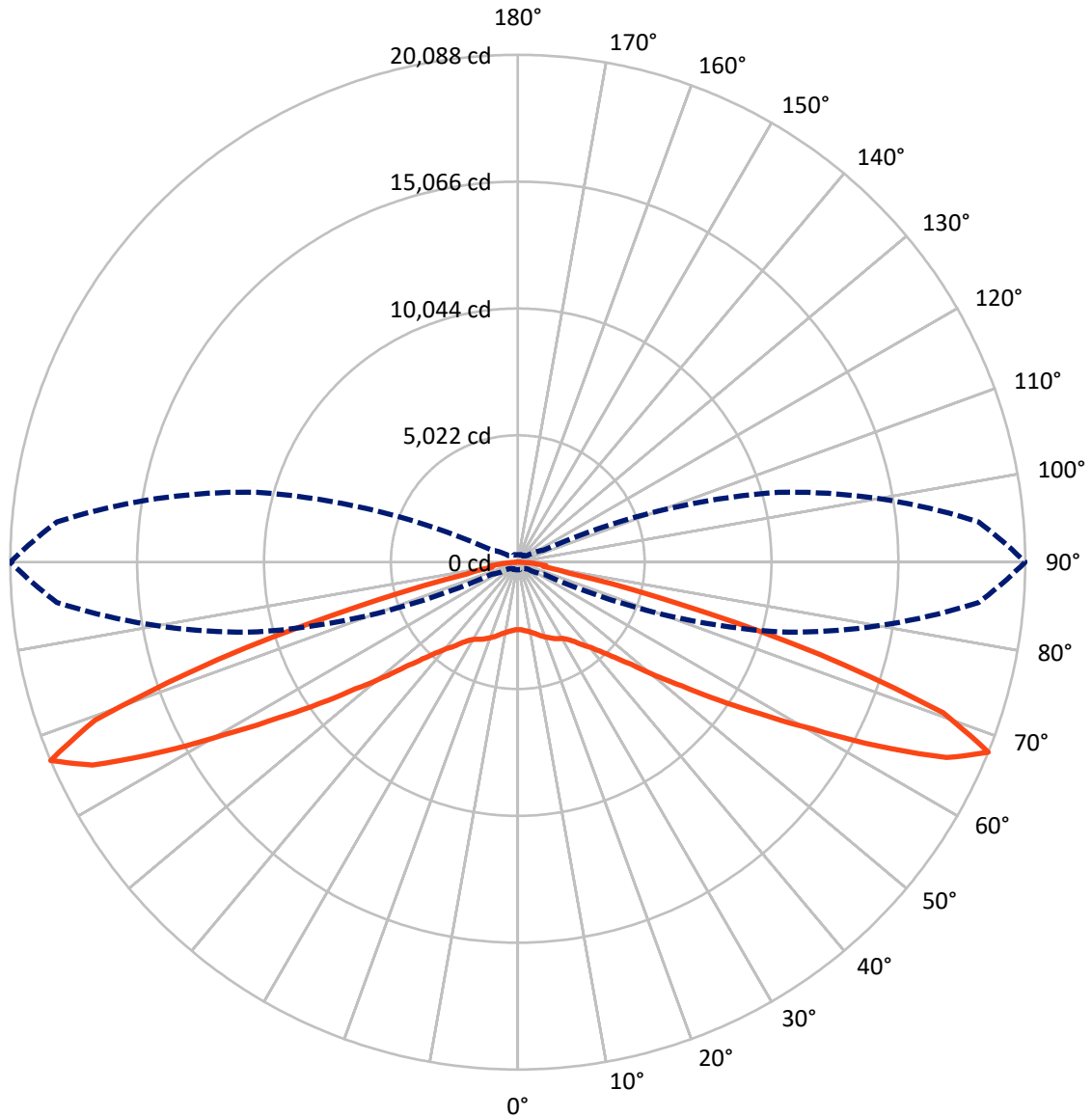
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7551.5	0.0	7551.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7551.5	0.0	7551.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	15103.0	0.0	15103.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.6	1.8
10°-20°	852.9	5.6
20°-30°	1427.5	9.5
30°-40°	1933.9	12.8
40°-50°	2449.6	16.2
50°-60°	3060.1	20.3
60°-70°	3597.1	23.8
70°-80°	1376.0	9.1
80°-90°	139.4	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°	15103.0	100.0
0°-180°	15103.0	100.0

Coefficient of Utilization



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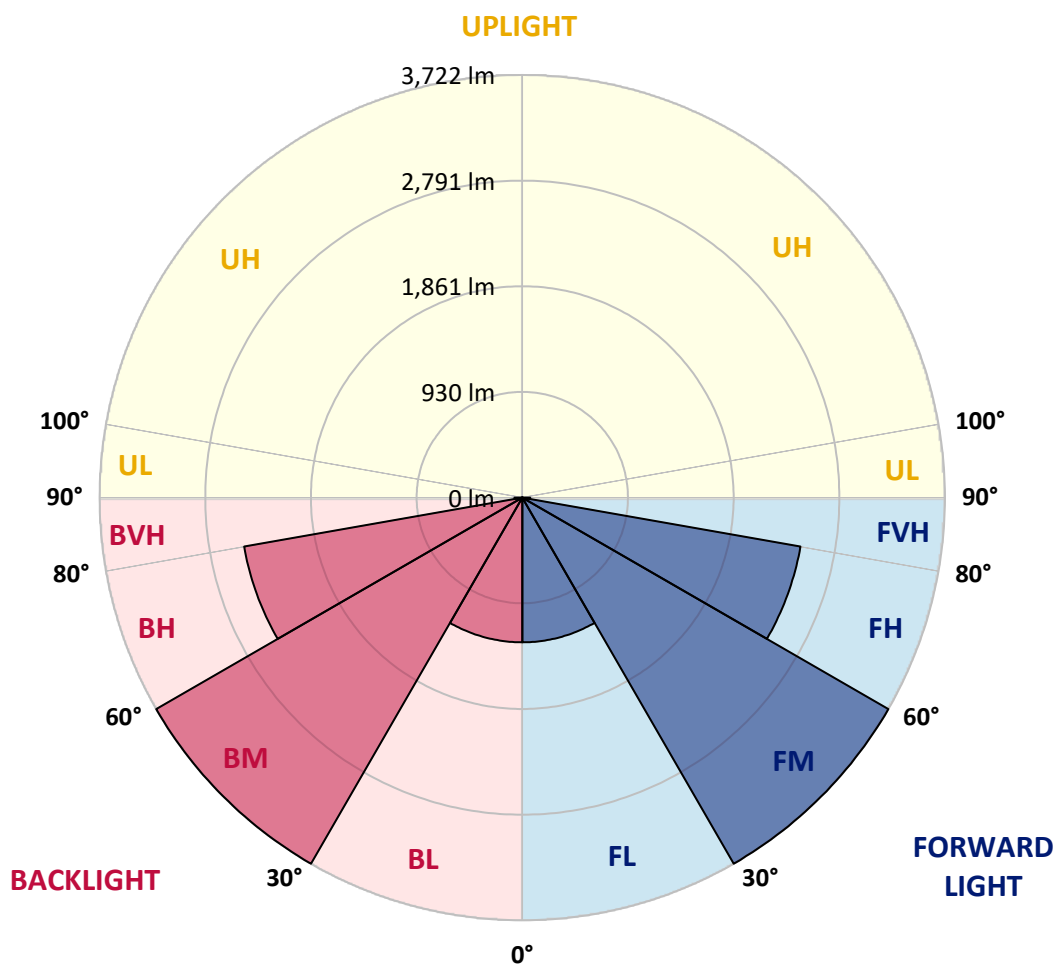
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1273.5	8.4			
FM	(30°-60°)	3721.8	24.6			
FH	(60°-80°)	2486.5	16.5			G2/5000
FVH	(80°-90°)	69.7	0.5			G1/100
BL	(0°-30°)	1273.5	8.4	B3/2500		
BM	(30°-60°)	3721.8	24.6	B3/5000		
BH	(60°-80°)	2486.5	16.5	B3/2500		G3/2500
BVH	(80°-90°)	69.7	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2673.7	2673.7	2673.7	2673.7	2673.7	2673.7	2673.7	2673.7	2673.7	2673.7	2673.7
2.5°	2708.0	2706.3	2707.2	2706.3	2708.8	2707.2	2697.1	2688.8	2682.1	2682.9	2680.4
5°	2765.7	2766.5	2767.4	2763.2	2769.0	2765.7	2749.8	2736.4	2723.0	2718.0	2716.4
7.5°	2813.4	2817.5	2820.1	2824.2	2834.3	2834.3	2825.9	2806.7	2777.4	2760.7	2759.8
10°	2861.0	2864.4	2871.9	2885.3	2902.0	2917.9	2914.6	2888.6	2851.0	2822.6	2815.9
12.5°	2877.8	2881.9	2907.0	2945.5	2983.1	3014.1	3014.1	2993.2	2944.7	2901.2	2888.6
15°	2819.2	2826.7	2871.9	2953.9	3052.6	3120.3	3135.3	3106.1	3054.2	2987.3	2972.3
17.5°	2703.0	2721.4	2787.4	2908.7	3072.6	3213.1	3256.6	3242.4	3175.5	3090.2	3072.6
20°	2578.4	2598.4	2668.7	2829.3	3055.9	3267.5	3393.8	3397.1	3314.3	3190.5	3164.6
22.5°	2441.2	2456.3	2546.6	2734.8	3005.7	3280.0	3511.7	3569.4	3457.3	3290.9	3254.1
25°	2287.3	2304.0	2398.6	2601.8	2911.2	3265.8	3619.6	3746.7	3607.0	3398.0	3351.1
27.5°	2140.1	2146.8	2248.0	2454.6	2786.6	3229.0	3699.0	3909.8	3772.6	3486.6	3427.2
30°	1998.8	2014.7	2104.2	2308.2	2643.6	3157.1	3767.6	4095.4	3950.8	3579.4	3503.3
32.5°	1849.1	1868.3	1965.3	2171.9	2500.6	3049.2	3809.4	4298.7	4199.1	3730.0	3648.8
35°	1705.2	1717.8	1815.6	2016.4	2360.9	2923.8	3816.9	4527.8	4519.4	3958.3	3850.4
37.5°	1558.1	1576.5	1675.1	1867.5	2212.9	2790.8	3779.3	4771.2	4905.8	4275.2	4159.0
40°	1416.7	1432.6	1529.6	1723.6	2044.8	2628.5	3689.8	4993.6	5356.6	4601.4	4436.7
42.5°	1262.8	1267.0	1373.2	1570.6	1880.0	2440.4	3561.0	5191.8	5859.2	5038.8	4833.9
45°	1088.0	1098.9	1197.6	1391.6	1691.0	2229.6	3386.2	5355.8	6496.5	5645.1	5365.8
47.5°	913.3	922.5	1012.8	1204.3	1484.5	1987.9	3116.9	5499.6	7150.5	6415.4	6049.1
50°	742.6	747.7	821.3	991.0	1252.0	1733.7	2783.3	5545.6	7889.8	7505.9	7038.4
52.5°	587.1	594.6	650.7	783.6	1003.6	1433.4	2422.8	5431.9	8752.9	8798.9	8139.9
55°	475.9	478.4	520.2	618.0	784.5	1119.0	1987.9	5114.9	9681.2	10455.6	9615.1
57.5°	409.8	411.5	434.9	489.2	603.8	843.8	1542.2	4515.3	10515.0	12396.7	11316.2
60°	372.2	373.0	386.4	418.2	478.4	647.3	1104.8	3668.9	11337.9	14556.9	13430.4
62.5°	348.7	348.7	357.9	375.5	404.8	496.8	800.4	2646.9	11901.6	16748.9	16036.4
65°	326.2	326.2	332.9	345.4	361.3	406.4	591.3	1726.2	11887.4	18345.4	18657.4
67.5°	300.2	300.2	305.3	317.8	327.0	349.6	456.6	1130.7	10678.1	18310.3	20087.5
70°	269.3	269.3	276.0	286.9	294.4	308.6	360.5	773.6	7844.6	15634.1	17864.5
72.5°	238.3	239.2	243.4	254.2	260.1	268.5	299.4	541.9	4812.2	10645.5	12491.2
75°	204.1	205.7	209.9	220.8	225.8	229.2	252.6	386.4	2434.5	5739.6	6535.0
77.5°	164.8	168.1	170.6	182.3	185.7	190.7	208.2	279.3	1068.8	2062.4	2080.8
80°	120.4	124.6	132.1	143.0	145.5	148.9	158.9	198.2	484.2	941.7	1022.8
82.5°	88.6	94.5	85.3	99.5	99.5	95.3	112.1	133.0	222.5	932.5	1115.6
85°	48.5	49.3	44.3	51.0	54.4	53.5	59.4	65.2	107.9	622.2	641.5
87.5°	11.7	12.5	13.4	15.9	19.2	19.2	20.9	18.4	35.1	201.6	115.4
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)