

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: P453903

Luminaire Tested: **GALN-SA5A-727-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453903
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5A-727-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19988 lumens
Efficiency: N/A
Efficacy: 129.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

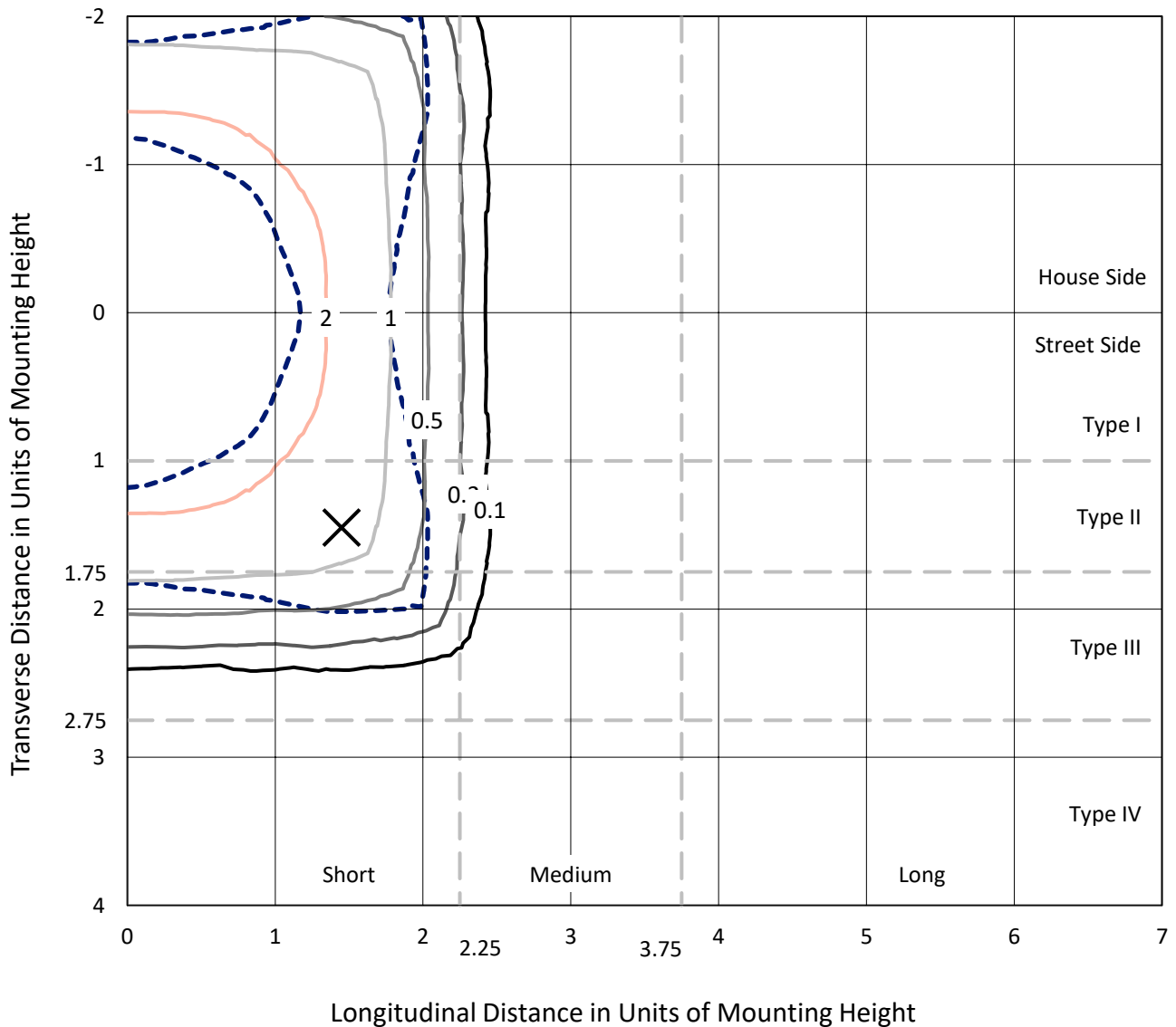
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

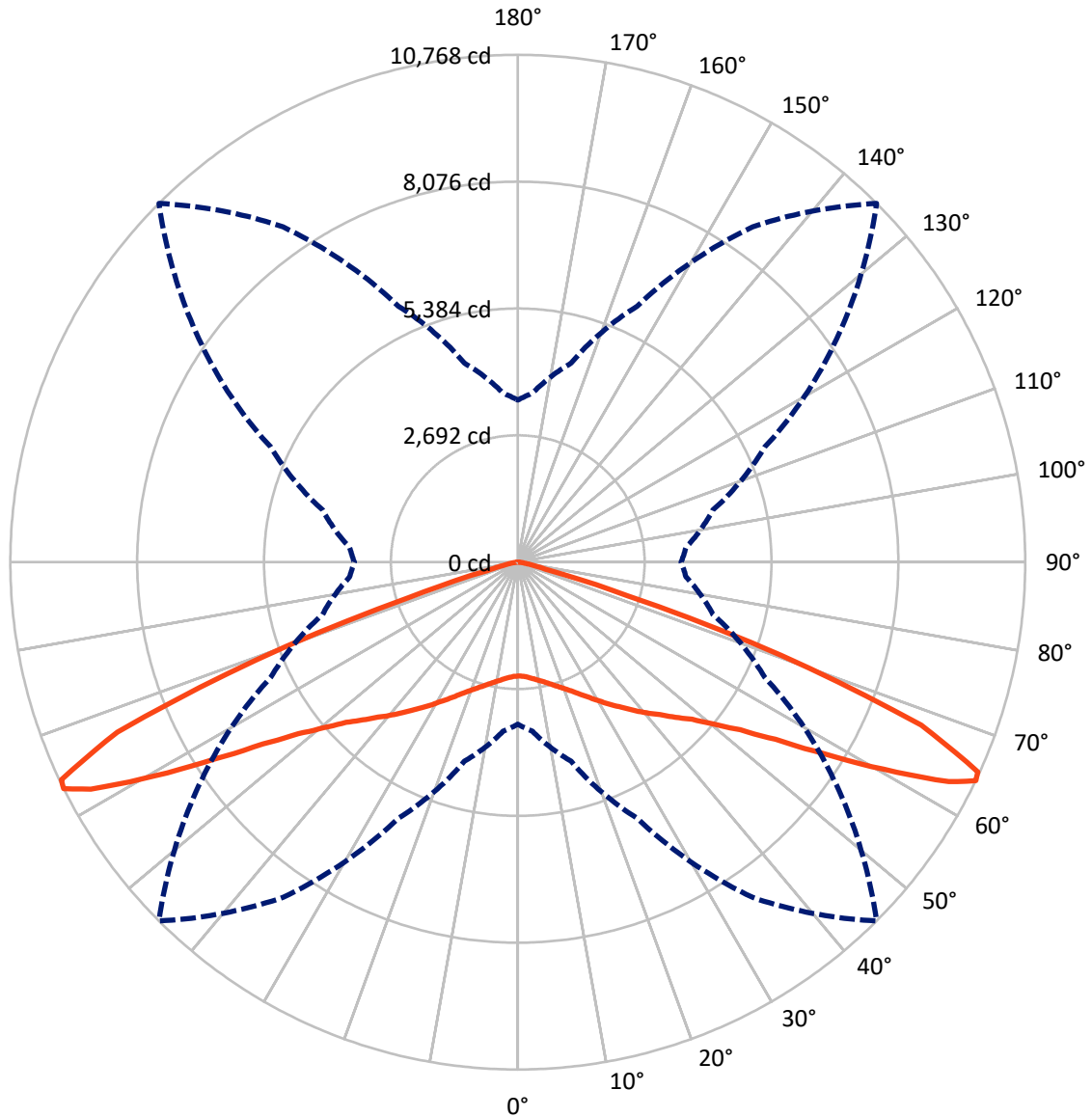
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9994.0	0.0	9994.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9994.0	0.0	9994.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	19988.0	0.0	19988.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.3	1.2
10°-20°	765.6	3.8
20°-30°	1446.7	7.2
30°-40°	2396.0	12.0
40°-50°	3740.5	18.7
50°-60°	5782.7	28.9
60°-70°	4986.4	24.9
70°-80°	565.1	2.8
80°-90°	67.7	0.3
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°	19988.0	100.0
0°-180°	19988.0	100.0

Coefficient of Utilization



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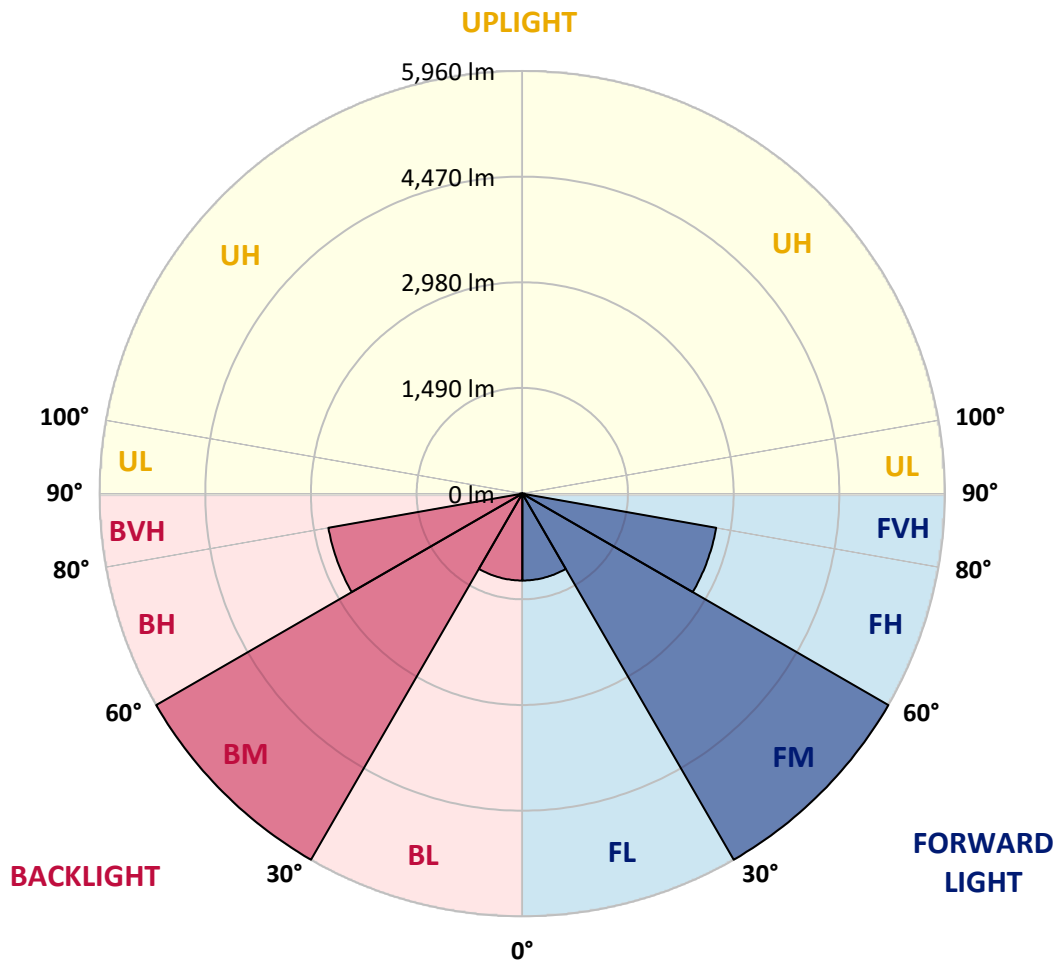
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1224.8	6.1			
FM (30°-60°)	5959.6	29.8			
FH (60°-80°)	2775.7	13.9			G2/5000
FVH (80°-90°)	33.8	0.2			G1/100
BL (0°-30°)	1224.8	6.1	B3/2500		
BM (30°-60°)	5959.6	29.8	B4/8500		
BH (60°-80°)	2775.7	13.9	B4/5000		G2/5000
BVH (80°-90°)	33.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2415.9	2415.9	2415.9	2415.9	2415.9	2415.9	2415.9	2415.9	2415.9	2415.9	2415.9
2.5°	2425.4	2430.7	2426.5	2425.4	2424.4	2424.4	2424.4	2425.4	2429.6	2432.8	2430.7
5°	2456.1	2460.4	2458.2	2457.2	2456.1	2457.2	2455.1	2454.0	2457.2	2457.2	2456.1
7.5°	2494.2	2499.5	2497.4	2499.5	2500.6	2501.6	2496.3	2492.1	2491.1	2494.2	2492.1
10°	2546.1	2550.3	2551.4	2552.5	2554.6	2553.5	2547.2	2539.8	2538.7	2537.6	2536.6
12.5°	2604.3	2607.5	2608.6	2612.8	2616.0	2617.0	2609.6	2603.3	2592.7	2594.8	2590.6
15°	2670.0	2676.3	2675.3	2681.6	2690.1	2692.2	2684.8	2674.2	2664.7	2659.4	2656.2
17.5°	2750.4	2754.7	2752.5	2758.9	2769.5	2774.8	2768.4	2754.7	2745.1	2733.5	2727.1
20°	2845.7	2853.1	2855.2	2855.2	2864.8	2870.1	2860.5	2856.3	2841.5	2833.0	2827.7
22.5°	2953.7	2956.9	2963.2	2969.6	2979.1	2977.0	2973.8	2967.5	2953.7	2946.3	2937.8
25°	3075.4	3078.6	3094.5	3108.3	3111.4	3109.3	3105.1	3101.9	3089.2	3072.3	3065.9
27.5°	3217.3	3223.7	3244.8	3257.5	3257.5	3258.6	3250.1	3260.7	3233.2	3213.1	3210.9
30°	3395.2	3399.4	3417.4	3430.1	3423.7	3418.4	3416.3	3426.9	3397.3	3361.3	3352.8
32.5°	3570.9	3585.7	3601.6	3629.1	3606.9	3597.4	3595.2	3602.7	3568.8	3528.5	3516.9
35°	3759.3	3769.9	3799.6	3822.9	3802.7	3780.5	3790.0	3813.3	3773.1	3719.1	3717.0
37.5°	3967.9	3977.4	4015.5	4039.9	4025.1	3987.0	4002.8	4030.4	3990.1	3923.4	3909.7
40°	4184.9	4205.0	4252.7	4278.1	4253.7	4202.9	4232.6	4262.2	4226.2	4148.9	4118.2
42.5°	4428.4	4460.2	4529.0	4541.7	4495.1	4426.3	4478.2	4525.8	4500.4	4411.5	4399.8
45°	4713.2	4732.3	4817.0	4844.5	4779.9	4694.1	4758.7	4845.5	4826.5	4723.8	4701.6
47.5°	5031.9	5049.9	5137.7	5179.0	5097.5	4982.1	5098.6	5211.8	5200.2	5090.1	5079.5
50°	5408.7	5413.0	5534.7	5581.3	5499.8	5400.3	5504.0	5644.8	5598.2	5457.4	5455.3
52.5°	5821.6	5826.9	5980.4	6070.4	6024.9	5912.7	6035.5	6121.2	6002.7	5818.5	5804.7
55°	6179.5	6205.9	6415.5	6654.8	6717.3	6635.7	6672.8	6632.6	6340.4	6082.1	6041.8
57.5°	6325.6	6377.4	6696.1	7142.8	7549.4	7670.1	7384.2	7001.0	6474.8	6109.6	6070.4
60°	5968.8	6024.9	6519.3	7367.3	8404.8	8928.8	8125.3	7063.4	6168.9	5655.4	5594.0
62.5°	4779.9	4795.8	5523.1	6839.0	8903.4	10260.6	8437.6	6530.9	5278.5	4580.9	4556.5
64°	3439.6	3602.7	4373.4	5996.3	8685.3	10767.7	8257.6	5784.6	4287.6	3581.5	3467.1
65°	2572.6	2617.0	3525.4	5120.8	8301.0	10729.6	7908.3	5071.0	3550.8	2740.9	2613.9
67.5°	971.9	977.2	1301.1	2552.5	5909.5	9231.6	6035.5	2758.9	1495.9	1082.0	1042.8
70°	403.4	410.8	477.5	858.6	2539.8	5927.5	2910.3	995.2	547.3	443.6	437.2
72.5°	295.4	299.6	319.7	381.1	781.3	2433.9	957.0	422.4	320.8	286.9	283.7
75°	231.8	234.0	248.8	280.5	364.2	674.4	398.1	290.1	244.6	220.2	218.1
77.5°	176.8	182.1	192.7	213.9	244.6	319.7	263.6	217.0	188.4	168.3	165.2
80°	121.7	128.1	148.2	156.7	164.1	207.5	180.0	164.1	147.2	122.8	115.4
82.5°	75.2	79.4	99.5	106.9	103.7	116.5	115.4	117.5	104.8	76.2	70.9
85°	39.2	41.3	54.0	56.1	51.9	47.6	59.3	68.8	64.6	43.4	42.3
87.5°	8.5	9.5	11.6	10.6	11.6	11.6	14.8	22.2	23.3	14.8	13.8
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)