

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: P527990

Luminaire Tested: **GALN-SA3A-740-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527990
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-740-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12296 lumens
Efficiency: N/A
Efficacy: 132.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

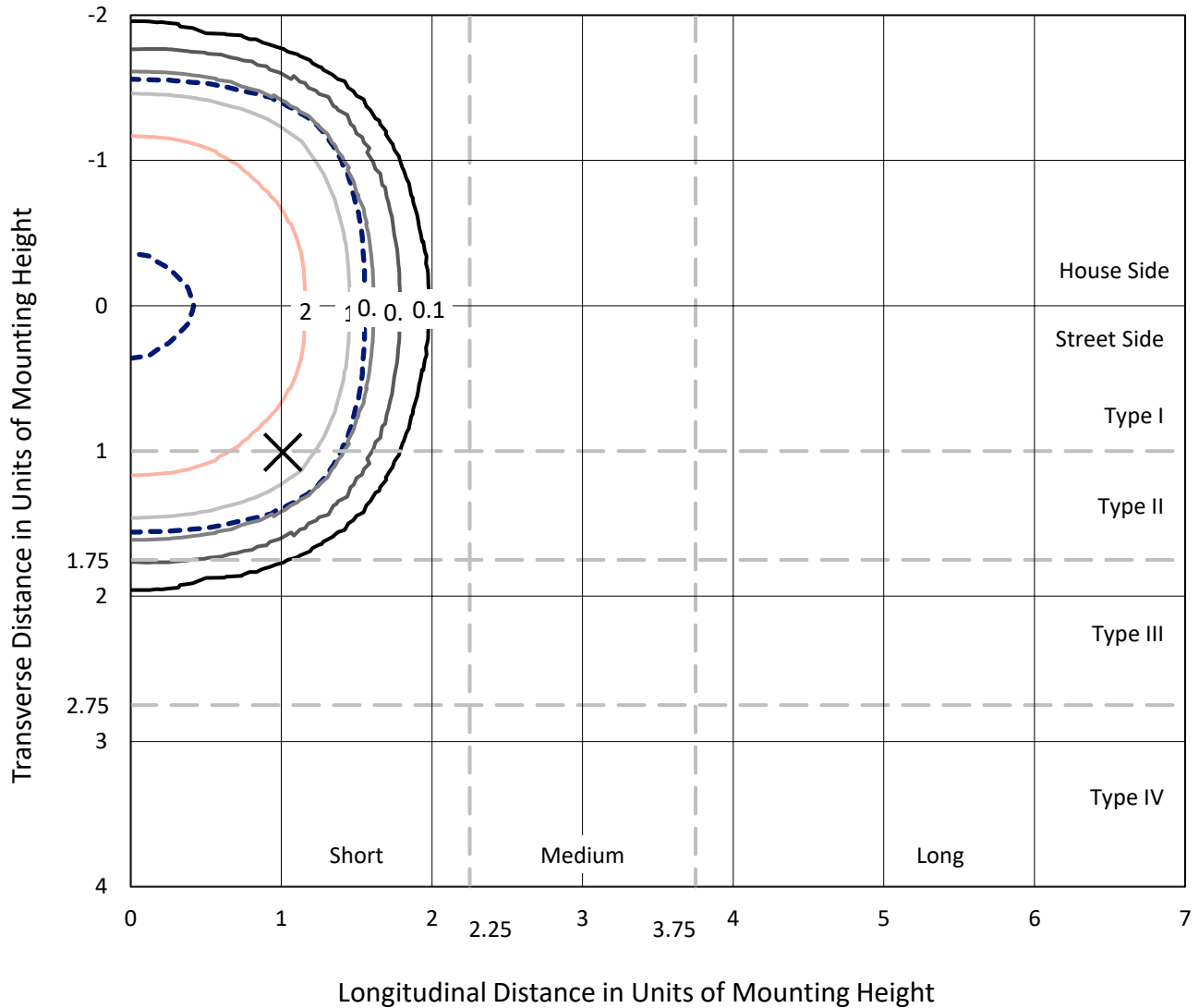
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P527990
 CATALOG NUMBER: GALN-SA3A-740-U-5NQ-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

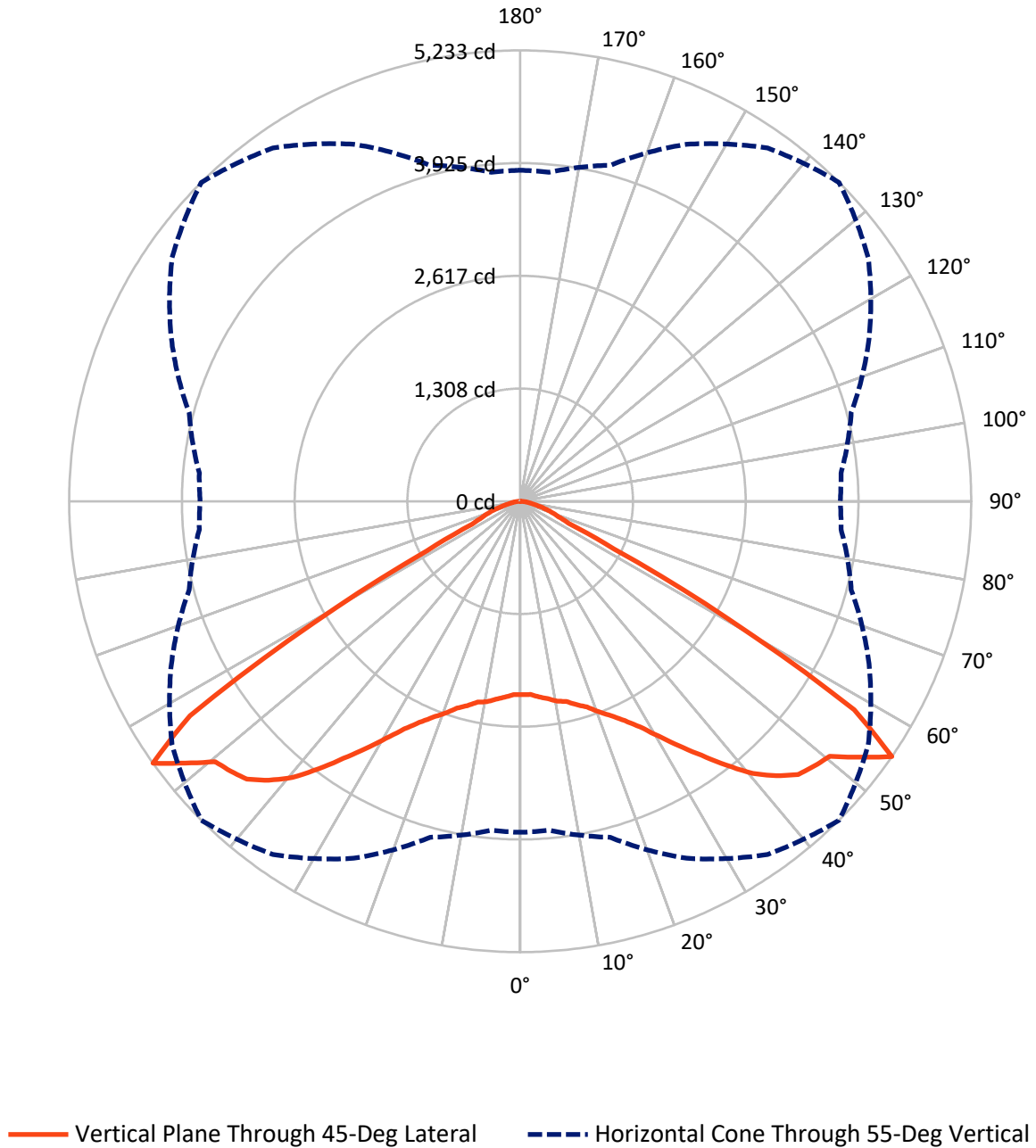
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type V - Short - N/A

REPORT NUMBER: P527990
CATALOG NUMBER: GALN-SA3A-740-U-5NQ-GRSWH

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6148.0	0.0	6148.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6148.0	0.0	6148.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	12296.0	0.0	12296.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.3	1.8
10°-20°	694.9	5.7
20°-30°	1295.8	10.5
30°-40°	2169.6	17.6
40°-50°	3376.1	27.5
50°-60°	3505.4	28.5
60°-70°	743.4	6.0
70°-80°	244.8	2.0
80°-90°	46.6	0.4
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°	12296.0	100.0
0°-180°	12296.0	100.0

Coefficient of Utilization



REPORT NUMBER: P527990

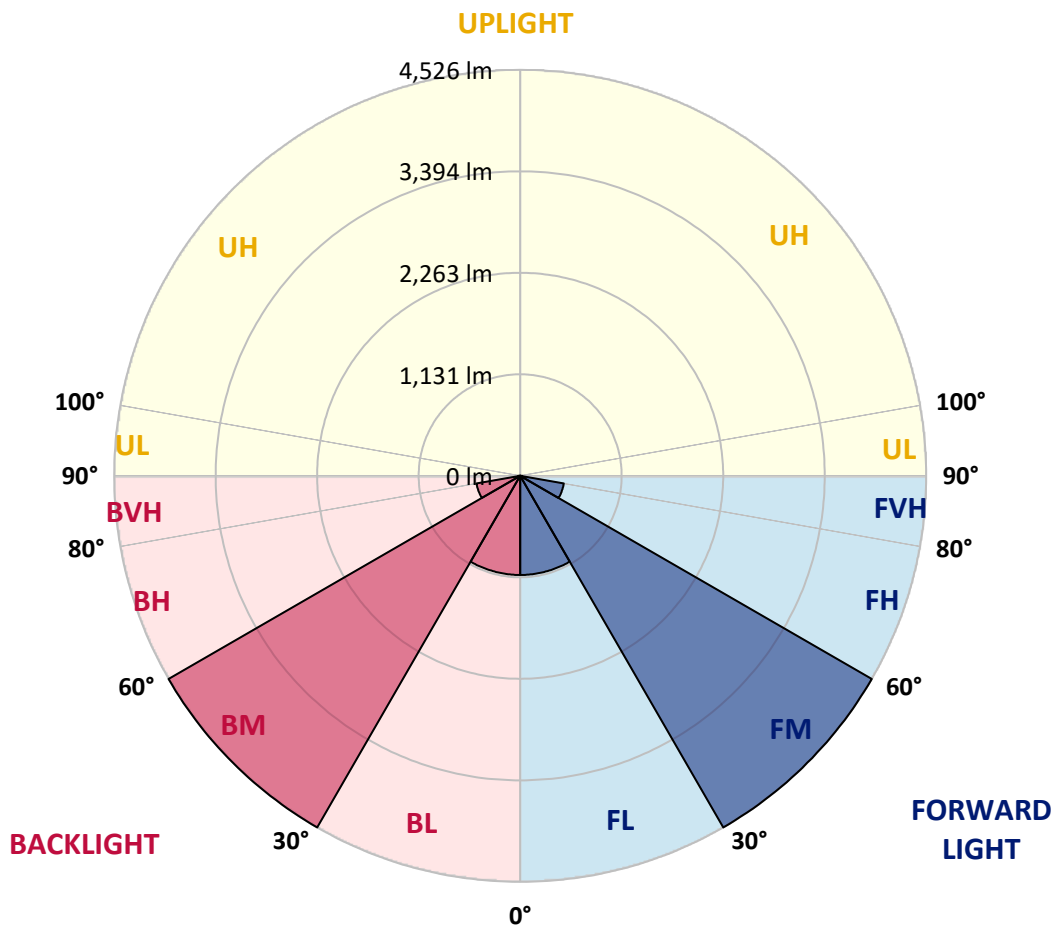
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1105.0	9.0			
FM (30°-60°)	4525.6	36.8			
FH (60°-80°)	494.1	4.0			G0/660
FVH (80°-90°)	23.3	0.2			G1/100
BL (0°-30°)	1105.0	9.0	B3/2500		
BM (30°-60°)	4525.6	36.8	B3/5000		
BH (60°-80°)	494.1	4.0	B1/500		G0/660
BVH (80°-90°)	23.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2245.1	2245.1	2245.1	2245.1	2245.1	2245.1	2245.1	2245.1	2245.1	2245.1	2245.1
2.5°	2271.8	2261.4	2243.6	2257.0	2267.4	2245.1	2254.0	2258.4	2255.5	2243.6	2248.0
5°	2304.5	2298.6	2283.7	2294.1	2280.7	2280.7	2271.8	2259.9	2277.8	2274.8	2282.2
7.5°	2304.5	2297.1	2326.8	2307.5	2313.4	2313.4	2298.6	2286.7	2295.6	2282.2	2274.8
10°	2350.6	2361.0	2347.6	2352.0	2349.1	2359.5	2337.2	2329.8	2322.3	2317.9	2309.0
12.5°	2405.5	2398.1	2402.6	2399.6	2410.0	2383.2	2369.9	2353.5	2366.9	2347.6	2361.0
15°	2450.1	2445.7	2450.1	2462.0	2451.6	2450.1	2426.3	2410.0	2389.2	2393.6	2372.8
17.5°	2511.0	2506.6	2508.1	2518.5	2517.0	2509.5	2491.7	2460.5	2453.1	2441.2	2427.8
20°	2601.7	2594.2	2591.3	2595.7	2603.1	2609.1	2573.4	2561.5	2536.3	2517.0	2494.7
22.5°	2678.9	2676.0	2687.8	2668.5	2684.9	2702.7	2668.5	2662.6	2600.2	2589.8	2566.0
25°	2785.9	2781.4	2774.0	2802.2	2821.6	2820.1	2787.4	2754.7	2707.2	2695.3	2695.3
27.5°	2898.8	2873.6	2912.2	2919.6	2953.8	2964.2	2936.0	2888.4	2843.8	2818.6	2824.5
30°	3040.0	3016.2	3025.1	3078.6	3123.2	3161.8	3090.5	3020.7	2958.3	2913.7	2906.3
32.5°	3181.1	3157.4	3184.1	3236.1	3325.3	3383.2	3313.4	3191.5	3118.7	3053.3	3066.7
35°	3295.5	3313.4	3356.5	3435.2	3527.3	3620.9	3509.5	3415.9	3311.9	3239.1	3249.5
37.5°	3479.8	3534.8	3568.9	3659.6	3790.3	3886.9	3771.0	3649.2	3537.7	3442.6	3409.9
40°	3720.5	3757.6	3796.3	3903.2	4057.8	4154.3	4044.4	3885.4	3775.5	3677.4	3672.9
42.5°	3985.0	4020.6	4060.7	4191.5	4283.6	4356.4	4255.4	4170.7	4048.8	3971.6	3967.1
45°	4292.5	4267.3	4311.8	4398.0	4475.3	4522.8	4457.4	4415.8	4328.2	4256.9	4249.4
47.5°	4497.6	4475.3	4555.5	4632.8	4644.7	4592.7	4606.0	4644.7	4552.5	4435.2	4472.3
50°	4616.4	4616.4	4669.9	4741.2	4718.9	4652.1	4757.6	4760.6	4668.4	4564.4	4564.4
52.5°	4409.9	4456.0	4607.5	4840.8	4915.1	4934.4	4910.6	4809.6	4568.9	4356.4	4346.0
55°	3842.3	3831.9	4037.0	4571.9	5004.2	5233.0	4929.9	4464.9	3976.0	3736.8	3713.1
57.5°	2499.1	2511.0	2817.1	3362.4	4142.5	4568.9	4057.8	3404.0	2817.1	2487.3	2518.5
60°	1124.8	1164.9	1350.6	1757.7	2427.8	2775.5	2433.8	1846.9	1417.5	1230.3	1246.6
62.5°	646.3	653.8	661.2	784.5	1034.1	1222.8	1074.2	829.1	731.0	698.3	698.3
65°	545.3	540.8	542.3	552.7	579.5	618.1	601.8	579.5	582.4	579.5	575.0
67.5°	463.6	469.5	465.1	472.5	474.0	479.9	490.3	499.2	500.7	503.7	500.7
70°	380.4	381.9	384.8	390.8	392.3	396.7	411.6	419.0	423.5	423.5	429.4
72.5°	291.2	289.7	292.7	298.6	306.1	307.6	320.9	331.3	337.3	329.9	331.3
75°	191.7	193.2	197.6	202.1	212.5	222.9	227.3	237.7	239.2	242.2	234.8
77.5°	114.4	117.4	121.8	130.8	139.7	148.6	159.0	166.4	169.4	166.4	157.5
80°	74.3	74.3	80.2	87.7	98.1	105.5	111.4	117.4	121.8	117.4	114.4
82.5°	46.1	46.1	53.5	62.4	69.8	74.3	83.2	90.6	95.1	92.1	87.7
85°	23.8	25.3	31.2	38.6	44.6	47.5	46.1	41.6	37.1	35.7	32.7
87.5°	7.4	7.4	8.9	8.9	7.4	7.4	8.9	7.4	8.9	8.9	8.9
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)