

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: P458862

Luminaire Tested: **GALN-SA4A-735-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458862
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-SA4A-735-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 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: 17588 lumens
Efficiency: N/A
Efficacy: 145.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

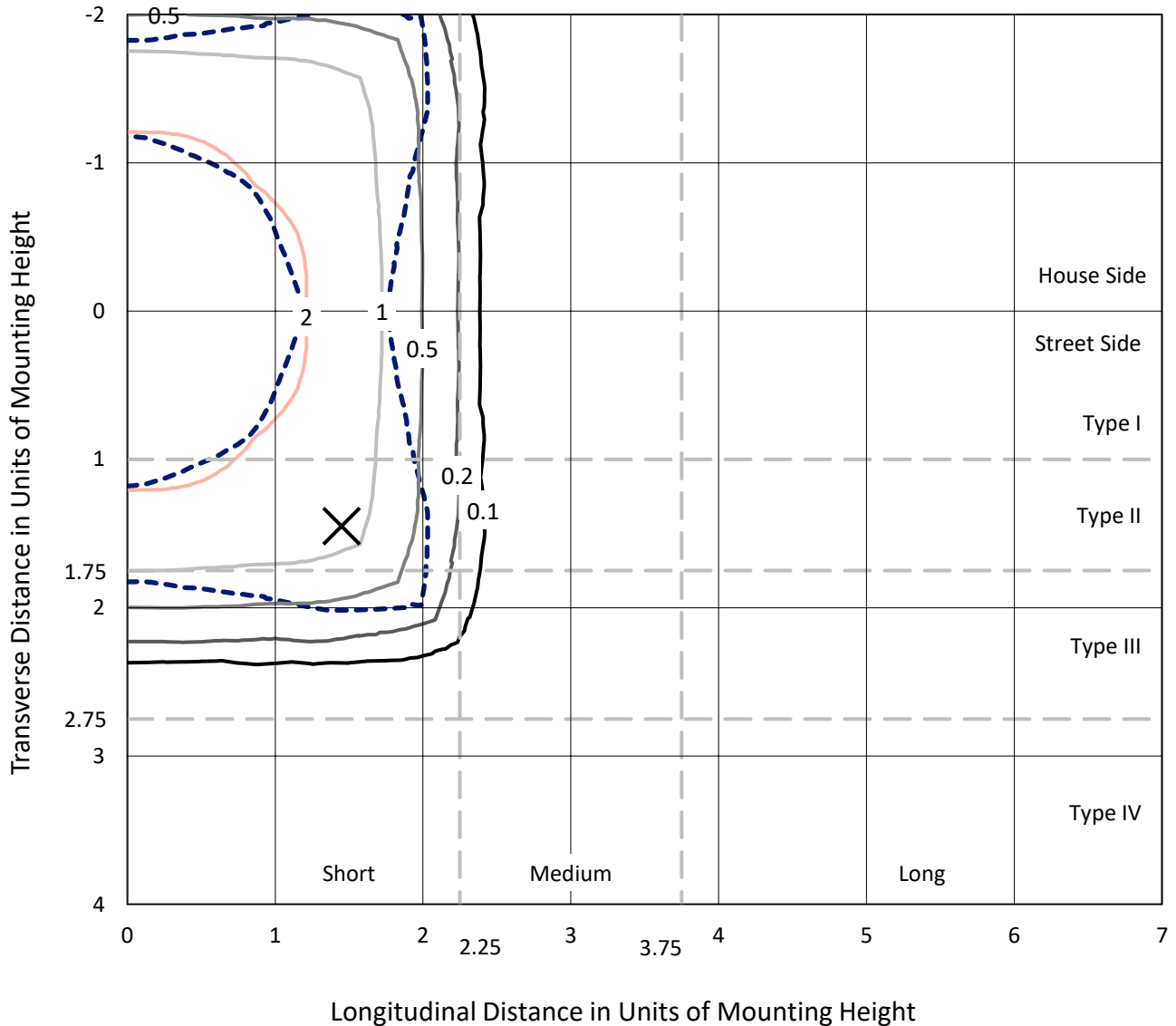
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

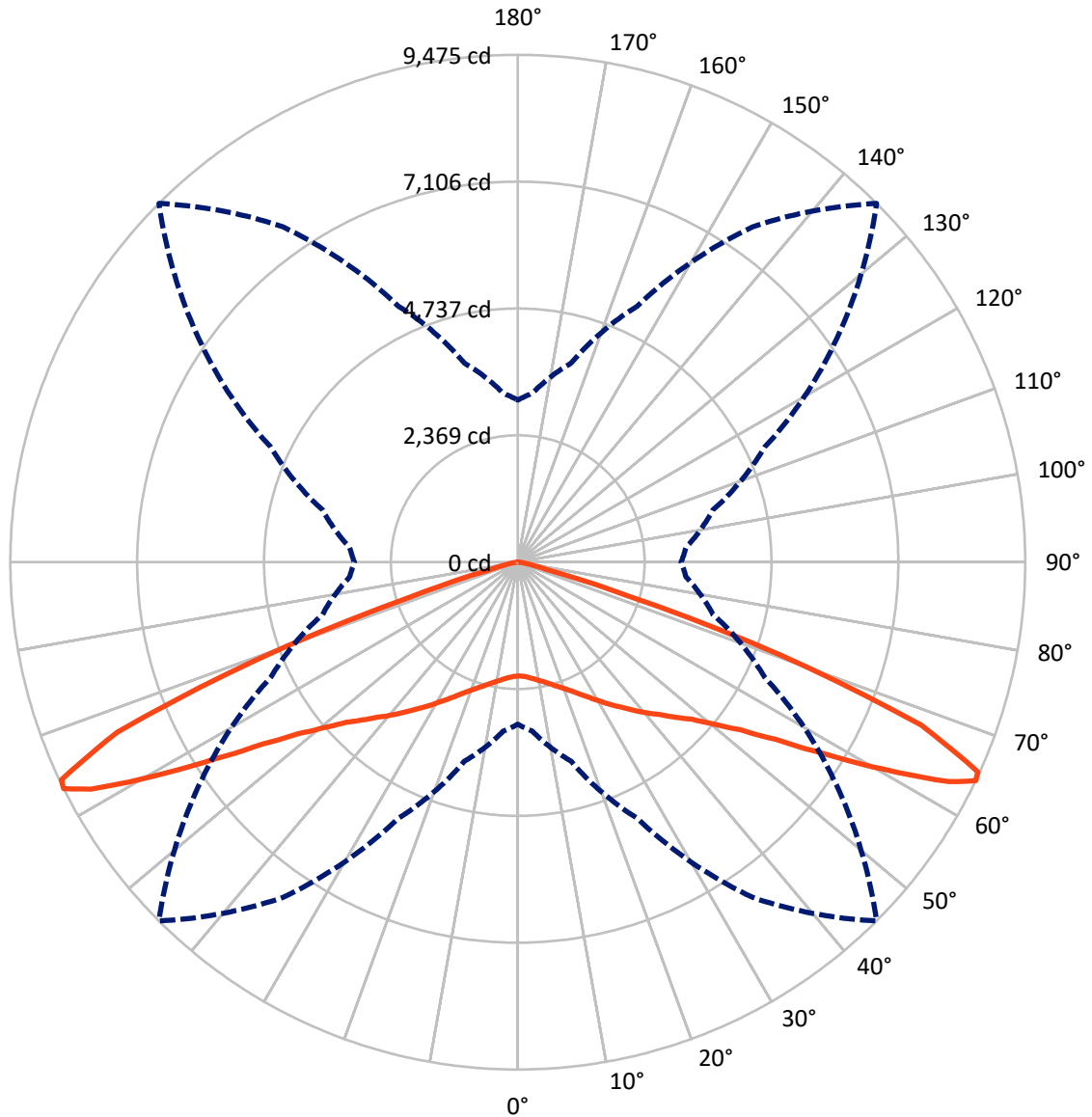
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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	8794.0	0.0	8794.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8794.0	0.0	8794.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	17588.0	0.0	17588.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.8	1.2
10°-20°	673.7	3.8
20°-30°	1273.0	7.2
30°-40°	2108.3	12.0
40°-50°	3291.4	18.7
50°-60°	5088.4	28.9
60°-70°	4387.6	24.9
70°-80°	497.2	2.8
80°-90°	59.6	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°	17588.0	100.0
0°-180°	17588.0	100.0

Coefficient of Utilization



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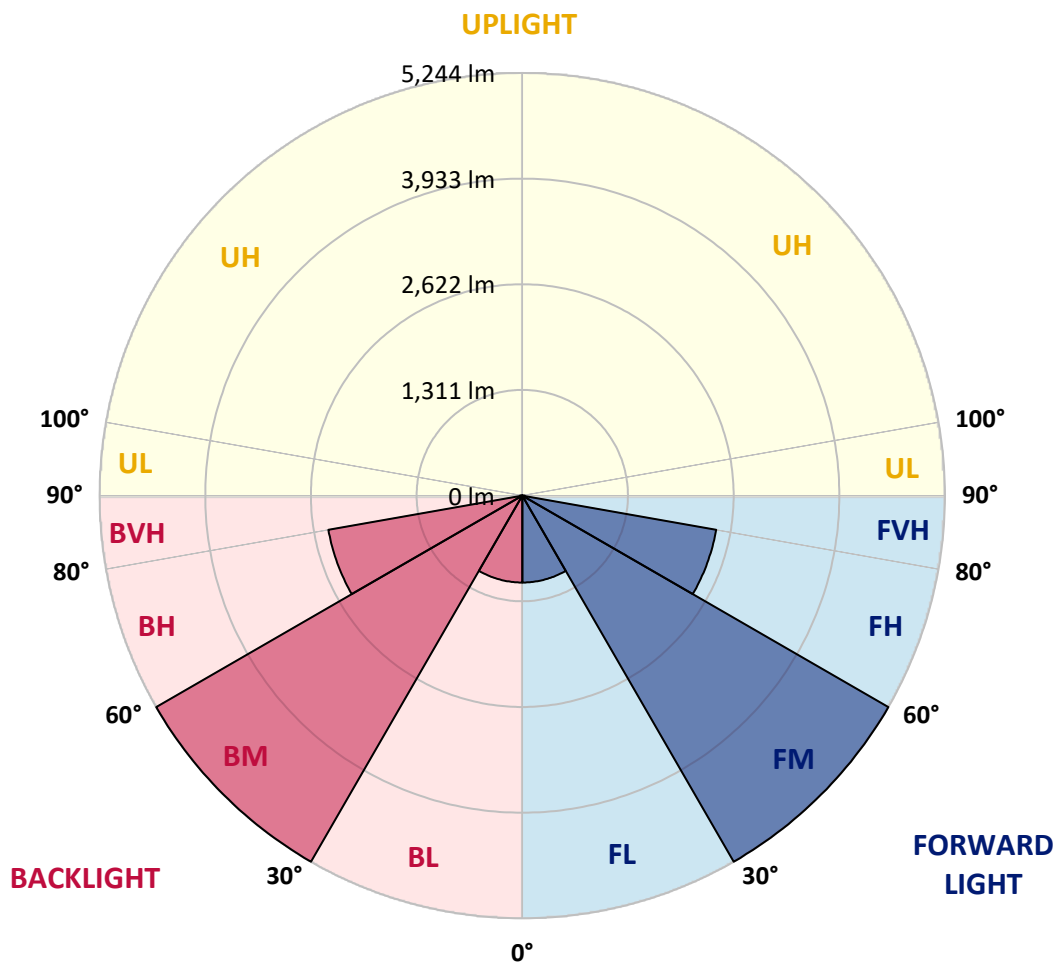
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1077.8	6.1			
FM	(30°-60°)	5244.0	29.8			
FH	(60°-80°)	2442.4	13.9			G2/5000
FVH	(80°-90°)	29.8	0.2			G1/100
BL	(0°-30°)	1077.8	6.1	B3/2500		
BM	(30°-60°)	5244.0	29.8	B4/8500		
BH	(60°-80°)	2442.4	13.9	B3/2500		G2/5000
BVH	(80°-90°)	29.8	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°	2125.8	2125.8	2125.8	2125.8	2125.8	2125.8	2125.8	2125.8	2125.8	2125.8	2125.8
2.5°	2134.2	2138.8	2135.1	2134.2	2133.3	2133.3	2133.3	2134.2	2137.9	2140.7	2138.8
5°	2161.2	2164.9	2163.1	2162.1	2161.2	2162.1	2160.3	2159.3	2162.1	2162.1	2161.2
7.5°	2194.7	2199.4	2197.5	2199.4	2200.3	2201.3	2196.6	2192.9	2191.9	2194.7	2192.9
10°	2240.4	2244.1	2245.0	2246.0	2247.8	2246.9	2241.3	2234.8	2233.9	2232.9	2232.0
12.5°	2291.6	2294.4	2295.3	2299.1	2301.9	2302.8	2296.3	2290.7	2281.4	2283.2	2279.5
15°	2349.4	2355.0	2354.0	2359.6	2367.1	2368.9	2362.4	2353.1	2344.7	2340.1	2337.3
17.5°	2420.2	2423.9	2422.0	2427.6	2436.9	2441.6	2436.0	2423.9	2415.5	2405.3	2399.7
20°	2504.0	2510.5	2512.4	2512.4	2520.8	2525.4	2517.1	2513.3	2500.3	2492.8	2488.2
22.5°	2599.0	2601.8	2607.4	2613.0	2621.4	2619.5	2616.7	2611.1	2599.0	2592.5	2585.1
25°	2706.2	2709.0	2722.9	2735.0	2737.8	2736.0	2732.2	2729.5	2718.3	2703.4	2697.8
27.5°	2831.0	2836.6	2855.2	2866.4	2866.4	2867.3	2859.9	2869.2	2845.0	2827.3	2825.4
30°	2987.5	2991.2	3007.1	3018.2	3012.6	3008.0	3006.1	3015.4	2989.4	2957.7	2950.2
32.5°	3142.1	3155.2	3169.1	3193.4	3173.8	3165.4	3163.6	3170.1	3140.3	3104.9	3094.6
35°	3307.9	3317.3	3343.3	3363.8	3346.1	3326.6	3335.0	3355.5	3320.1	3272.5	3270.7
37.5°	3491.5	3499.8	3533.4	3554.8	3541.8	3508.2	3522.2	3546.4	3511.0	3452.3	3440.2
40°	3682.4	3700.1	3742.1	3764.4	3743.0	3698.3	3724.4	3750.4	3718.8	3650.8	3623.7
42.5°	3896.7	3924.6	3985.2	3996.4	3955.4	3894.8	3940.5	3982.4	3960.0	3881.8	3871.5
45°	4147.3	4164.0	4238.6	4262.8	4206.0	4130.5	4187.3	4263.7	4247.0	4156.6	4137.0
47.5°	4427.7	4443.5	4520.8	4557.2	4485.4	4383.9	4486.4	4586.0	4575.8	4478.9	4469.6
50°	4759.3	4763.0	4870.2	4911.2	4839.4	4751.9	4843.1	4967.0	4926.1	4802.2	4800.3
52.5°	5122.6	5127.3	5262.3	5341.5	5301.5	5202.7	5310.8	5386.2	5281.9	5119.8	5107.7
55°	5437.5	5460.8	5645.2	5855.7	5910.7	5839.0	5871.6	5836.2	5579.1	5351.8	5316.4
57.5°	5566.0	5611.7	5892.1	6285.2	6642.9	6749.1	6497.6	6160.4	5697.4	5376.0	5341.5
60°	5252.1	5301.5	5736.5	6482.7	7395.6	7856.7	7149.7	6215.3	5428.2	4976.4	4922.3
62.5°	4206.0	4219.9	4859.9	6017.8	7834.4	9028.6	7424.5	5746.8	4644.7	4030.8	4009.4
64°	3026.6	3170.1	3848.2	5276.3	7642.5	9474.8	7266.1	5090.0	3772.8	3151.4	3050.8
65°	2263.7	2302.8	3102.1	4505.9	7304.3	9441.3	6958.7	4462.1	3124.4	2411.8	2300.0
67.5°	855.2	859.8	1144.9	2246.0	5199.9	8123.1	5310.8	2427.6	1316.3	952.0	917.6
70°	354.9	361.4	420.1	755.5	2234.8	5215.8	2560.8	875.7	481.6	390.3	384.7
72.5°	259.9	263.6	281.3	335.4	687.5	2141.6	842.1	371.7	282.3	252.5	249.7
75°	204.0	205.9	218.9	246.9	320.5	593.4	350.3	255.2	215.2	193.8	191.9
77.5°	155.6	160.2	169.5	188.2	215.2	281.3	232.0	191.0	165.8	148.1	145.3
80°	107.1	112.7	130.4	137.9	144.4	182.6	158.4	144.4	129.5	108.1	101.5
82.5°	66.1	69.9	87.6	94.1	91.3	102.5	101.5	103.4	92.2	67.1	62.4
85°	34.5	36.3	47.5	49.4	45.6	41.9	52.2	60.6	56.8	38.2	37.3
87.5°	7.5	8.4	10.2	9.3	10.2	10.2	13.0	19.6	20.5	13.0	12.1
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)