

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: P528906

Luminaire Tested: **GALN-SA4A-735-U-RW-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528906
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-8)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-735-U-RW-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14766 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

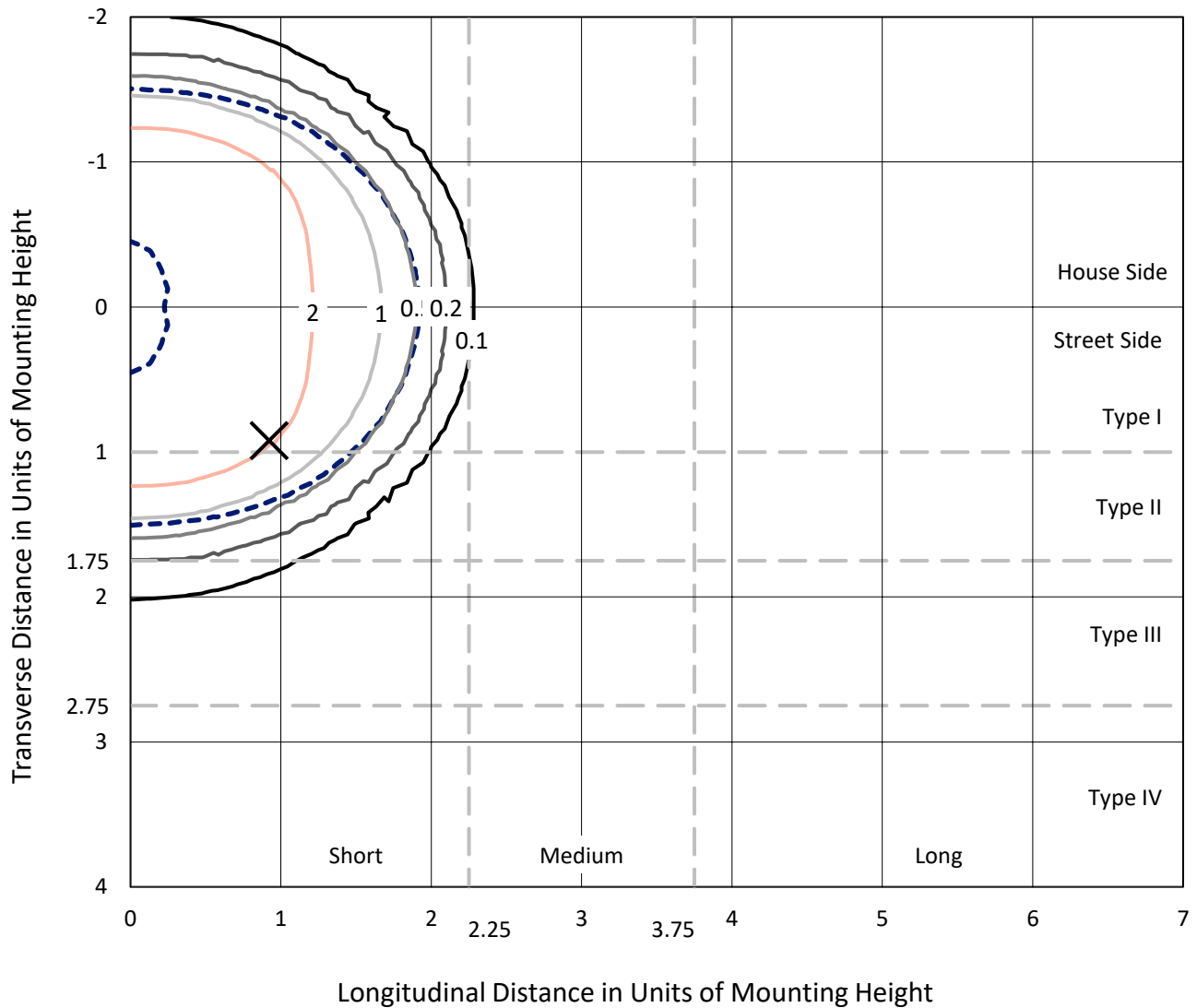
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

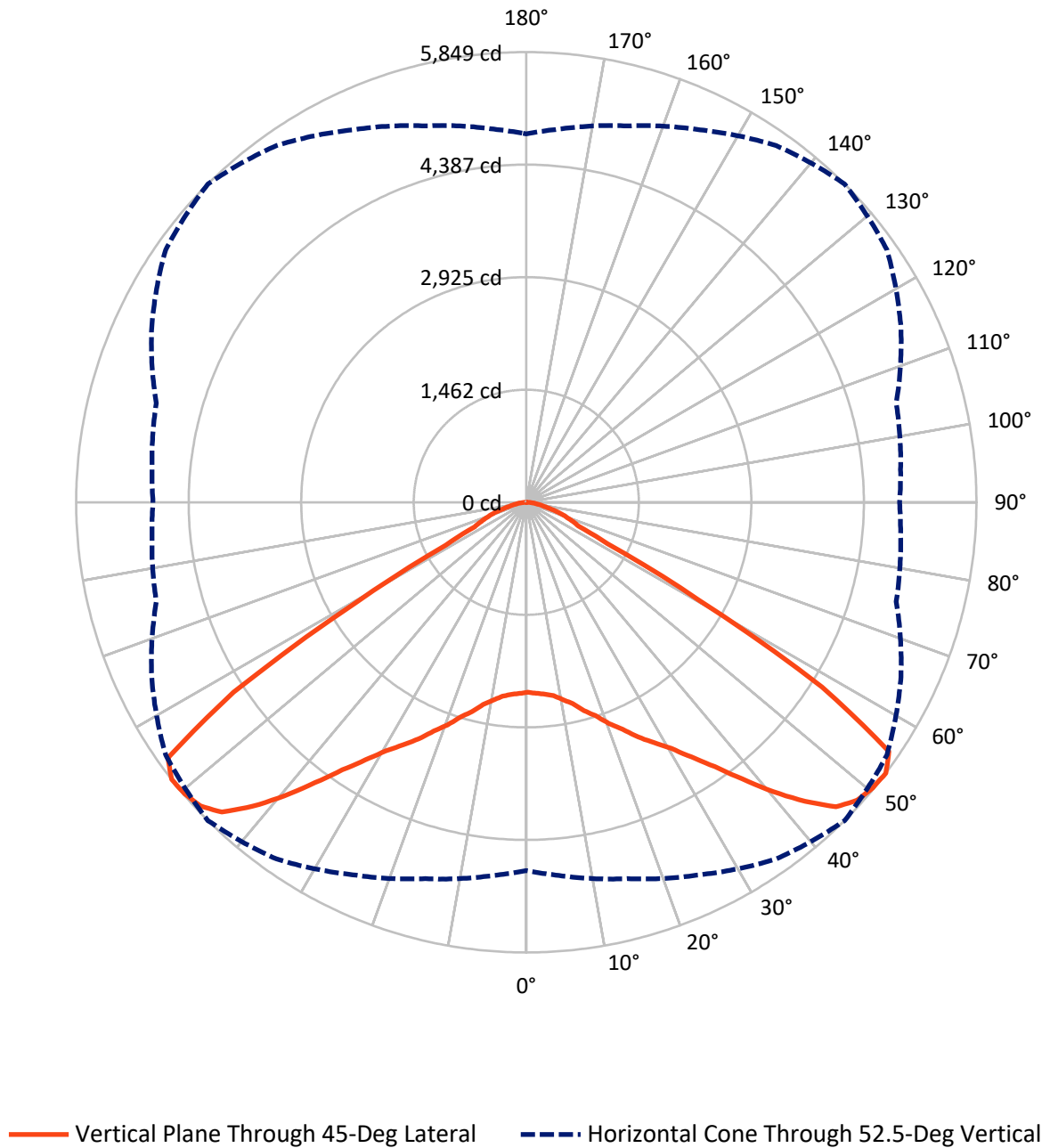
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7383.0	0.0	7383.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7383.0	0.0	7383.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	14766.0	0.0	14766.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.5	1.6
10°-20°	796.9	5.4
20°-30°	1517.1	10.3
30°-40°	2605.0	17.6
40°-50°	4003.9	27.1
50°-60°	4065.9	27.5
60°-70°	1133.1	7.7
70°-80°	334.3	2.3
80°-90°	67.3	0.5
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°	14766.0	100.0
0°-180°	14766.0	100.0

Coefficient of Utilization



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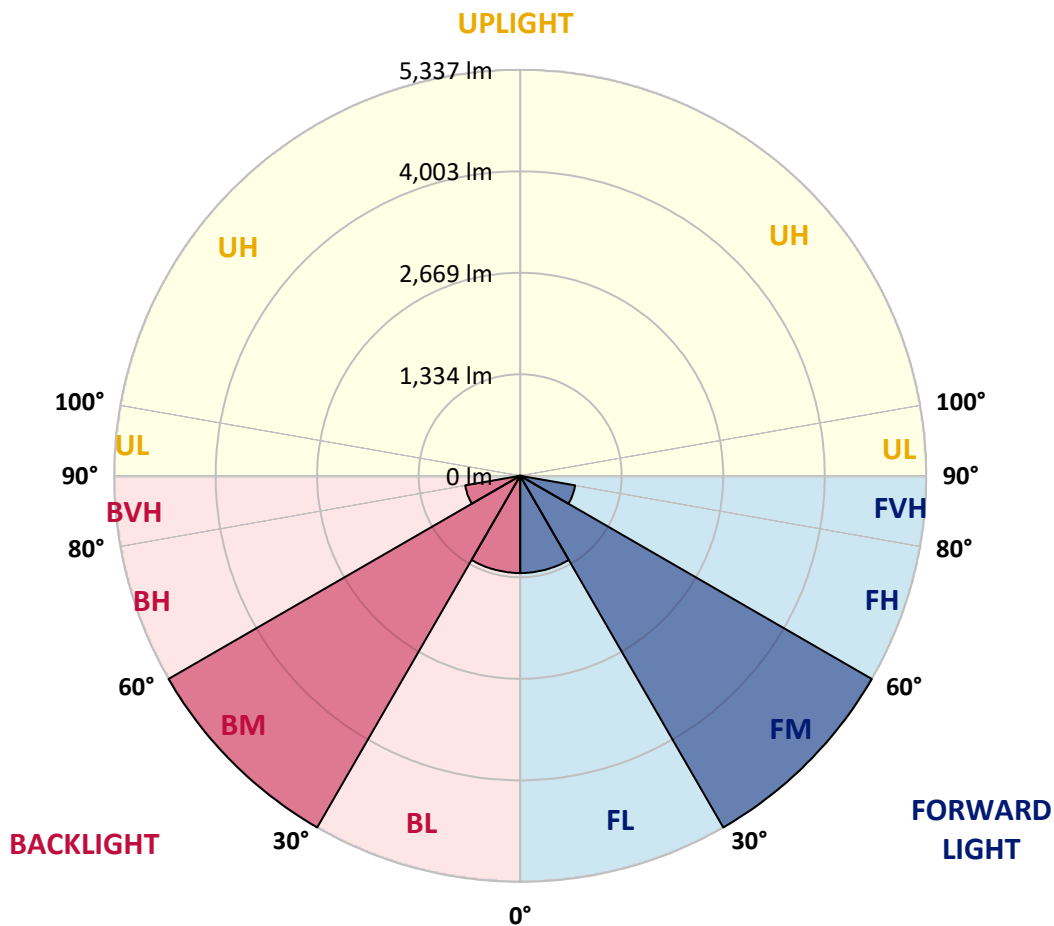
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1278.2	8.7			
FM (30°-60°)	5337.4	36.1			
FH (60°-80°)	733.7	5.0			G1/1800
FVH (80°-90°)	33.7	0.2			G1/100
BL (0°-30°)	1278.2	8.7	B3/2500		
BM (30°-60°)	5337.4	36.1	B4/8500		
BH (60°-80°)	733.7	5.0	B2/1000		G1/1800
BVH (80°-90°)	33.7	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-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2468.3	2468.3	2468.3	2468.3	2468.3	2468.3	2468.3	2468.3	2468.3	2468.3	2468.3
2.5°	2473.8	2448.2	2457.3	2462.8	2486.7	2484.8	2479.3	2486.7	2494.0	2495.8	2492.2
5°	2472.0	2453.7	2461.0	2466.5	2490.3	2503.1	2499.5	2530.6	2552.6	2547.1	2574.6
7.5°	2457.3	2468.3	2459.2	2486.7	2506.8	2538.0	2570.9	2600.3	2627.8	2658.9	2664.4
10°	2490.3	2490.3	2506.8	2528.8	2581.9	2605.8	2653.4	2695.6	2748.7	2785.3	2770.7
12.5°	2525.1	2530.6	2530.6	2587.4	2631.4	2684.6	2728.5	2785.3	2860.5	2904.5	2926.4
15°	2560.0	2563.6	2581.9	2658.9	2724.9	2809.2	2849.5	2900.8	2942.9	3025.4	3027.2
17.5°	2591.1	2611.3	2666.2	2752.4	2834.8	2915.5	2979.6	3032.7	3069.4	3102.4	3095.0
20°	2708.4	2723.0	2779.9	2866.0	2988.8	3067.5	3089.5	3098.7	3122.5	3188.5	3168.3
22.5°	2822.0	2827.5	2880.6	3012.6	3098.7	3203.2	3227.0	3221.5	3230.6	3247.1	3276.4
25°	2939.3	2948.4	3021.7	3133.5	3254.5	3379.1	3399.2	3357.1	3344.3	3362.6	3364.4
27.5°	3089.5	3091.4	3184.8	3281.9	3419.4	3536.7	3567.8	3534.8	3474.4	3489.0	3512.8
30°	3280.1	3267.3	3360.7	3500.0	3644.8	3710.7	3763.9	3747.4	3681.4	3668.6	3648.4
32.5°	3500.0	3503.7	3588.0	3740.1	3835.4	3945.3	4002.1	3974.6	3932.5	3910.5	3923.3
35°	3809.7	3826.2	3883.0	4009.4	4163.4	4218.3	4308.1	4249.5	4139.5	4167.0	4190.8
37.5°	4064.4	4112.1	4218.3	4368.6	4460.2	4561.0	4594.0	4515.2	4434.6	4401.6	4480.4
40°	4454.7	4440.1	4557.3	4707.6	4843.2	4944.0	4901.8	4823.1	4623.3	4625.1	4647.1
42.5°	4790.1	4797.4	4887.2	5066.8	5251.8	5314.2	5180.4	4988.0	4766.2	4742.4	4790.1
45°	5072.3	5101.6	5152.9	5392.9	5574.4	5642.2	5394.8	5167.6	4870.7	4771.7	4850.5
47.5°	5173.1	5220.7	5332.5	5552.4	5732.0	5786.9	5589.0	5262.8	4967.8	4806.6	4848.7
50°	5187.7	5171.2	5354.5	5556.0	5713.6	5832.7	5658.7	5332.5	4944.0	4859.7	4846.9
52.5°	4786.4	4867.0	5063.1	5339.8	5658.7	5849.2	5721.0	5371.0	4977.0	4881.7	4850.5
55°	3873.8	3778.5	4135.9	4601.3	5187.7	5717.3	5699.0	5391.1	4997.1	4918.3	4876.2
57.5°	2162.3	2189.8	2391.4	2897.1	3653.9	4533.5	5066.8	5178.5	4988.0	4942.2	4964.1
60°	1000.5	1009.7	1095.8	1332.2	1801.3	2570.9	3272.8	3985.6	4313.6	4379.6	4379.6
62.5°	745.8	742.1	764.1	806.3	905.2	1181.9	1577.8	2144.0	2594.8	2910.0	2992.4
65°	674.3	672.5	683.5	698.2	705.5	744.0	831.9	1006.0	1152.6	1236.9	1222.3
67.5°	590.1	588.2	591.9	601.0	613.9	634.0	656.0	692.7	744.0	740.3	731.2
70°	476.4	476.4	481.9	489.3	503.9	527.8	553.4	579.1	623.0	632.2	630.4
72.5°	351.8	346.3	357.3	372.0	386.7	416.0	443.5	467.3	498.4	507.6	503.9
75°	223.6	227.2	234.6	251.0	276.7	296.9	326.2	346.3	366.5	373.8	375.7
77.5°	124.6	128.3	141.1	161.3	186.9	208.9	234.6	251.0	263.9	265.7	267.5
80°	75.1	77.0	89.8	108.1	130.1	153.9	174.1	190.6	201.6	196.1	194.2
82.5°	45.8	47.6	58.6	75.1	93.5	111.8	133.8	148.4	159.4	152.1	144.8
85°	23.8	25.7	34.8	45.8	60.5	69.6	69.6	62.3	60.5	56.8	55.0
87.5°	7.3	7.3	9.2	11.0	9.2	11.0	12.8	14.7	14.7	16.5	14.7
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)