

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: P528958

Luminaire Tested: **GALN-SA4A-750-U-RW-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528958
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-750-U-RW-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K, 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: 15852 lumens
Efficiency: N/A
Efficacy: 131.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

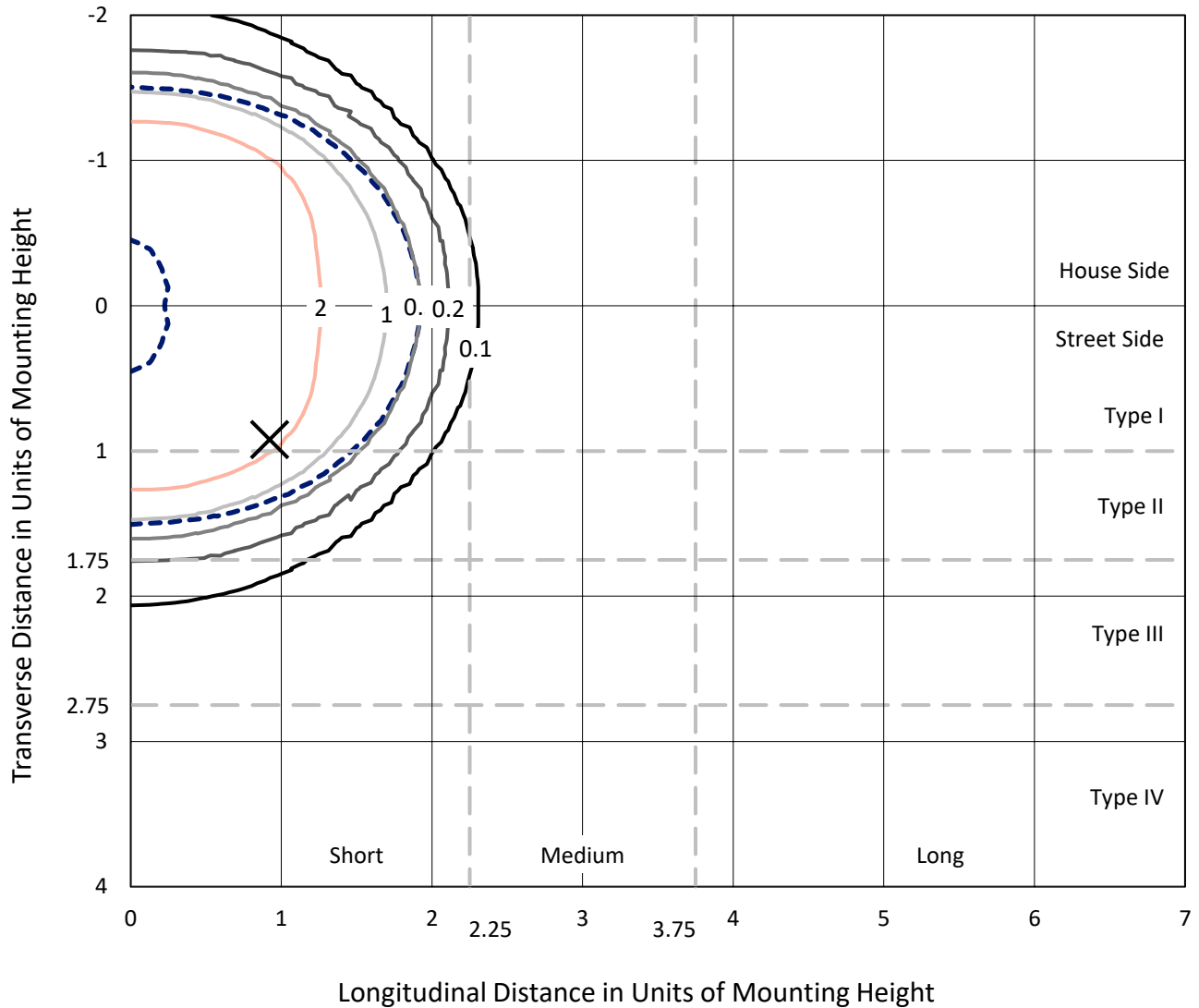
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

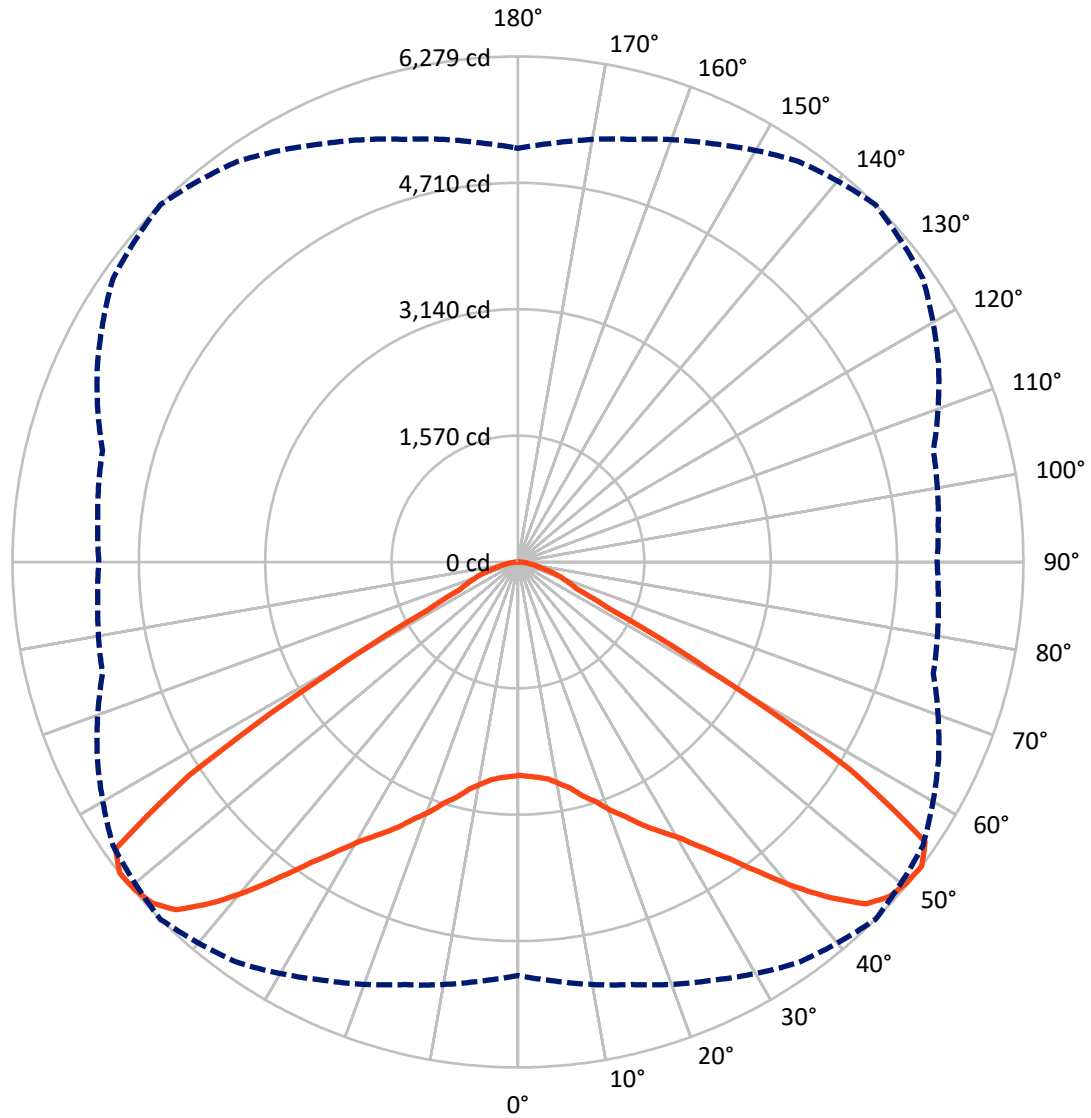
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7926.0	0.0	7926.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7926.0	0.0	7926.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	15852.0	0.0	15852.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.3	1.6
10°-20°	855.5	5.4
20°-30°	1628.7	10.3
30°-40°	2796.6	17.6
40°-50°	4298.4	27.1
50°-60°	4364.9	27.5
60°-70°	1216.5	7.7
70°-80°	358.8	2.3
80°-90°	72.3	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°	15852.0	100.0
0°-180°	15852.0	100.0

Coefficient of Utilization



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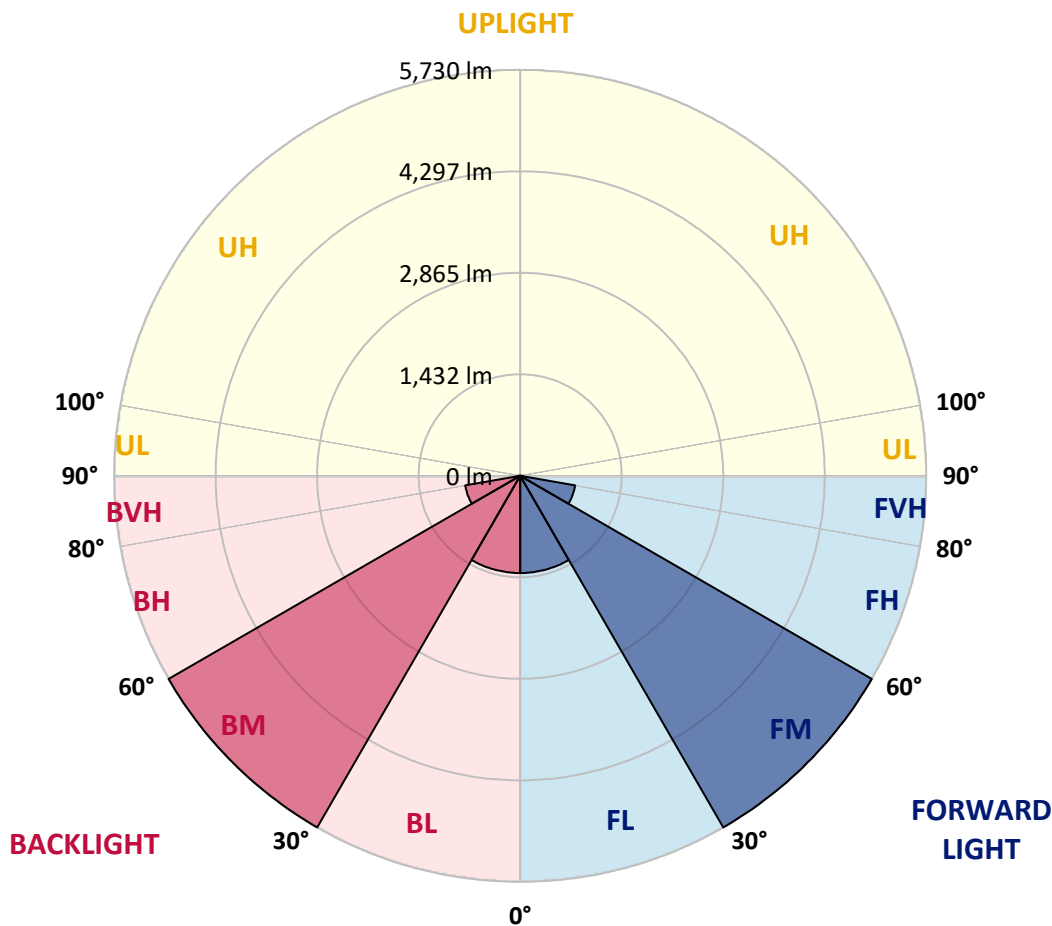
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1372.2	8.7			
FM (30°-60°)	5730.0	36.1			
FH (60°-80°)	787.6	5.0			G1/1800
FVH (80°-90°)	36.1	0.2			G1/100
BL (0°-30°)	1372.2	8.7	B3/2500		
BM (30°-60°)	5730.0	36.1	B4/8500		
BH (60°-80°)	787.6	5.0	B2/1000		G1/1800
BVH (80°-90°)	36.1	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°	2649.9	2649.9	2649.9	2649.9	2649.9	2649.9	2649.9	2649.9	2649.9	2649.9	2649.9
2.5°	2655.8	2628.2	2638.1	2644.0	2669.5	2667.6	2661.7	2669.5	2677.4	2679.4	2675.4
5°	2653.8	2634.1	2642.0	2647.9	2673.5	2687.2	2683.3	2716.8	2740.4	2734.5	2764.0
7.5°	2638.1	2649.9	2640.0	2669.5	2691.2	2724.6	2760.0	2791.5	2821.0	2854.5	2860.4
10°	2673.5	2673.5	2691.2	2714.8	2771.8	2797.4	2848.6	2893.8	2950.9	2990.2	2974.5
12.5°	2710.9	2716.8	2716.8	2777.7	2825.0	2882.0	2929.2	2990.2	3070.9	3118.1	3141.7
15°	2748.2	2752.2	2771.8	2854.5	2925.3	3015.8	3059.1	3114.1	3159.4	3247.9	3249.9
17.5°	2781.7	2803.3	2862.3	2954.8	3043.3	3129.9	3198.7	3255.8	3295.1	3330.5	3322.7
20°	2907.6	2923.3	2984.3	3076.8	3208.6	3293.2	3316.8	3326.6	3352.2	3423.0	3401.4
22.5°	3029.5	3035.4	3092.5	3234.1	3326.6	3438.7	3464.3	3458.4	3468.2	3485.9	3517.4
25°	3155.5	3165.3	3244.0	3364.0	3493.8	3627.6	3649.2	3604.0	3590.2	3609.9	3611.9
27.5°	3316.8	3318.7	3419.1	3523.3	3670.9	3796.8	3830.2	3794.8	3729.9	3745.6	3771.2
30°	3521.4	3507.6	3607.9	3757.4	3912.8	3983.7	4040.7	4023.0	3952.2	3938.4	3916.8
32.5°	3757.4	3761.4	3851.9	4015.1	4117.4	4235.5	4296.4	4266.9	4221.7	4198.1	4211.9
35°	4089.9	4107.6	4168.6	4304.3	4469.6	4528.6	4625.0	4562.0	4444.0	4473.5	4499.1
37.5°	4363.3	4414.5	4528.6	4689.9	4788.3	4896.5	4931.9	4847.3	4760.7	4725.3	4809.9
40°	4782.4	4766.6	4892.5	5053.8	5199.4	5307.6	5262.4	5177.8	4963.3	4965.3	4988.9
42.5°	5142.4	5150.2	5246.6	5439.4	5638.1	5705.0	5561.4	5354.8	5116.8	5091.2	5142.4
45°	5445.3	5476.8	5531.9	5789.6	5984.3	6057.1	5791.6	5547.6	5228.9	5122.7	5207.3
47.5°	5553.5	5604.7	5724.7	5960.7	6153.5	6212.5	6000.1	5649.9	5333.2	5160.1	5205.3
50°	5569.3	5551.5	5748.3	5964.7	6133.9	6261.7	6074.8	5724.7	5307.6	5217.1	5203.3
52.5°	5138.4	5225.0	5435.5	5732.5	6074.8	6279.4	6141.7	5766.0	5343.0	5240.7	5207.3
55°	4158.7	4056.4	4440.1	4939.7	5569.3	6137.8	6118.1	5787.6	5364.7	5280.1	5234.8
57.5°	2321.3	2350.9	2567.2	3110.2	3922.7	4866.9	5439.4	5559.4	5354.8	5305.6	5329.2
60°	1074.1	1083.9	1176.4	1430.2	1933.8	2760.0	3513.5	4278.7	4630.9	4701.7	4701.7
62.5°	800.7	796.7	820.3	865.6	971.8	1268.9	1693.8	2301.7	2785.6	3124.0	3212.5
65°	723.9	722.0	733.8	749.5	757.4	798.7	893.1	1080.0	1237.4	1327.9	1312.1
67.5°	633.5	631.5	635.4	645.3	659.0	680.7	704.3	743.6	798.7	794.8	784.9
70°	511.5	511.5	517.4	525.3	541.0	566.6	594.1	621.6	668.9	678.7	676.7
72.5°	377.7	371.8	383.6	399.3	415.1	446.6	476.1	501.6	535.1	544.9	541.0
75°	240.0	243.9	251.8	269.5	297.1	318.7	350.2	371.8	393.4	401.3	403.3
77.5°	133.8	137.7	151.5	173.1	200.7	224.3	251.8	269.5	283.3	285.2	287.2
80°	80.7	82.6	96.4	116.1	139.7	165.2	186.9	204.6	216.4	210.5	208.5
82.5°	49.2	51.1	63.0	80.7	100.3	120.0	143.6	159.3	171.1	163.3	155.4
85°	25.6	27.5	37.4	49.2	64.9	74.8	74.8	66.9	64.9	61.0	59.0
87.5°	7.9	7.9	9.8	11.8	9.8	11.8	13.8	15.7	15.7	17.7	15.7
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)