

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: P530901

Luminaire Tested: **GALN-SA6A-830-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530901
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6A-830-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14803 lumens
Efficiency: N/A
Efficacy: 81.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

Input Watts (W): 182
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



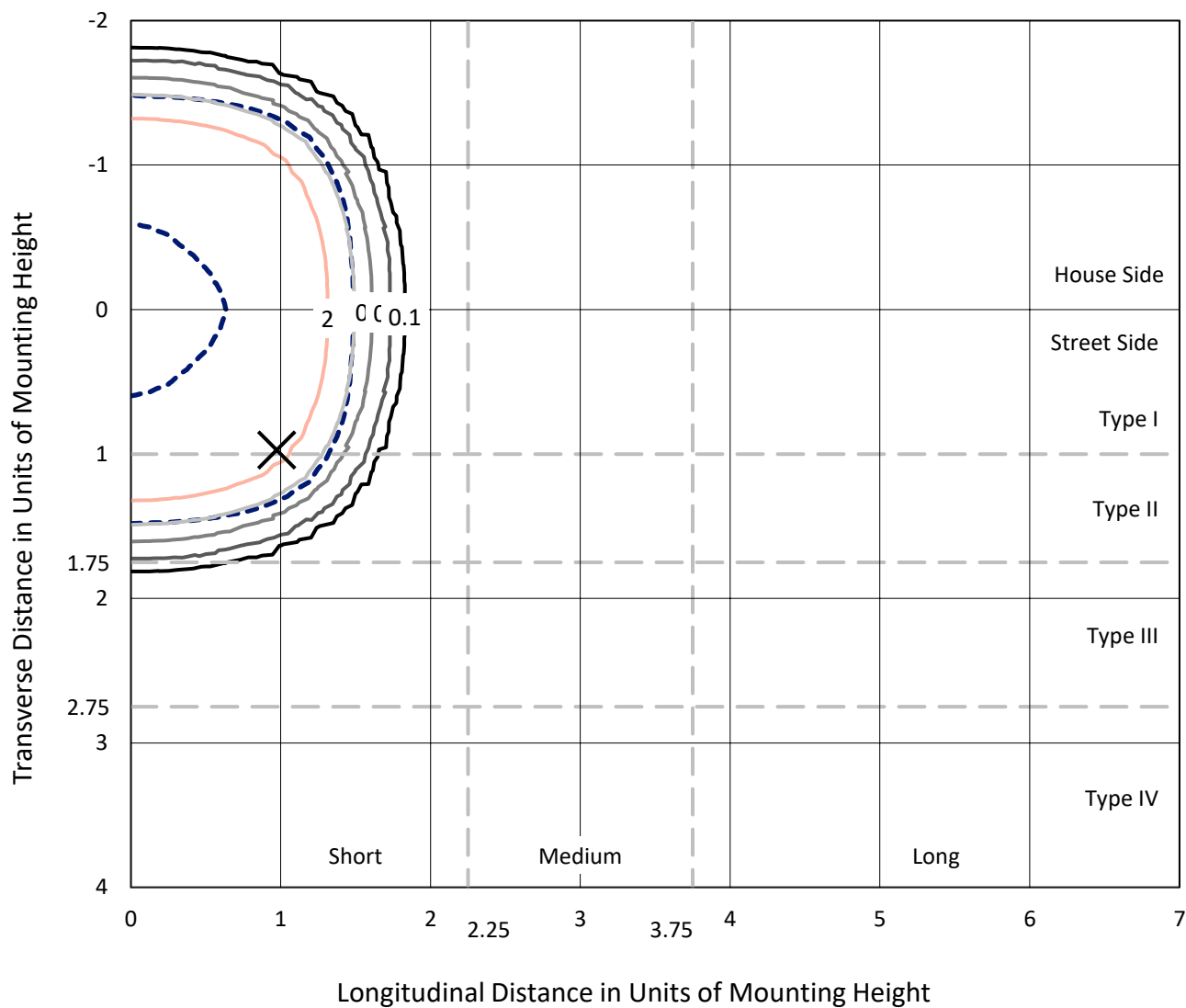
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

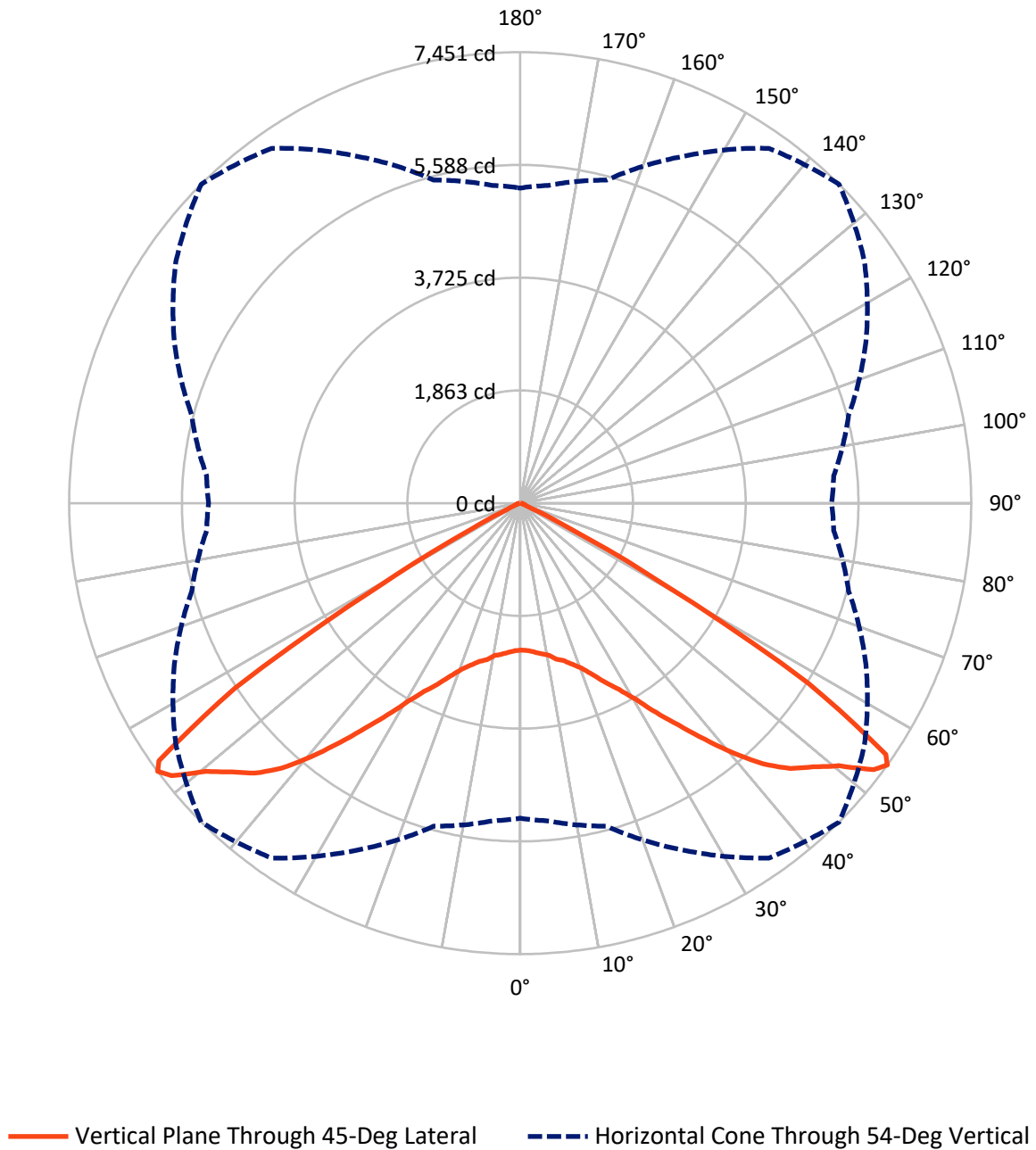
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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	7401.5	0.0	7401.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7401.5	0.0	7401.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	14803.0	0.0	14803.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.6	1.6
10°-20°	769.3	5.2
20°-30°	1507.9	10.2
30°-40°	2711.4	18.3
40°-50°	4641.5	31.4
50°-60°	4491.0	30.3
60°-70°	384.5	2.6
70°-80°	45.6	0.3
80°-90°	14.3	0.1
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°	14803.0	100.0
0°-180°	14803.0	100.0

Coefficient of Utilization



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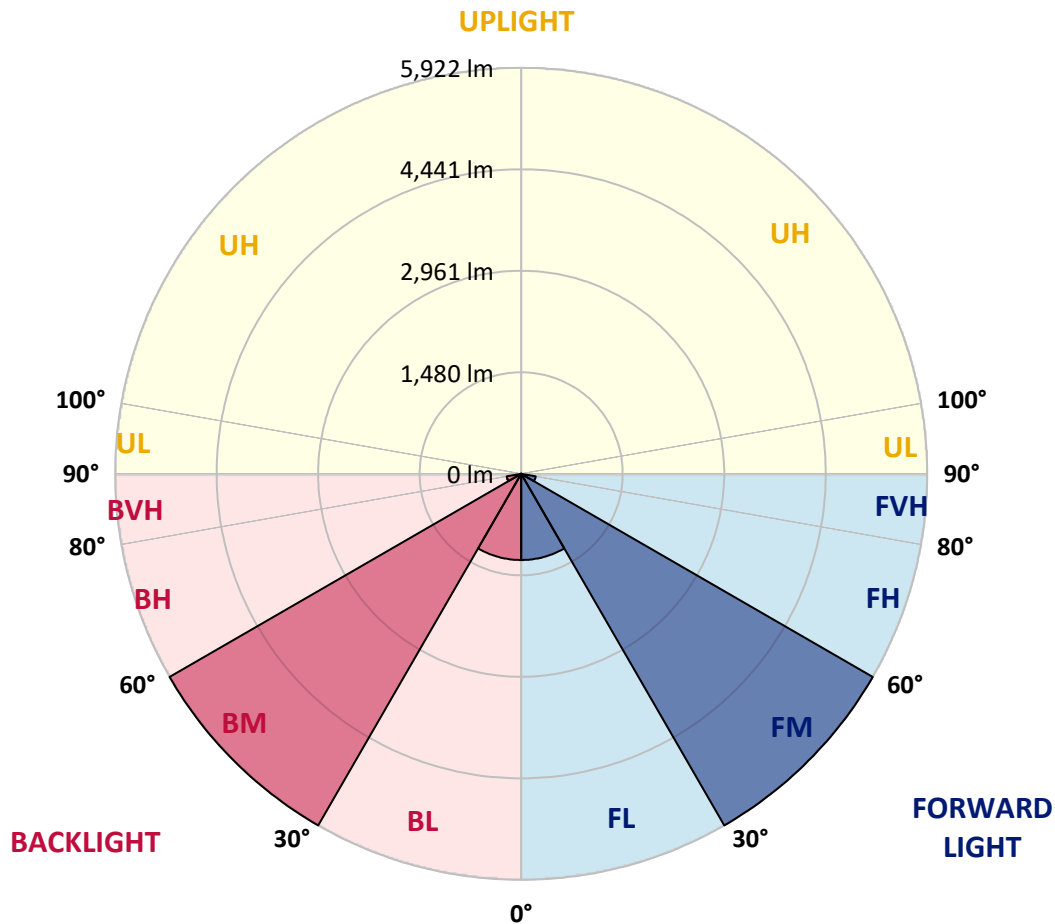
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1257.4	8.5			
FM	(30°-60°)	5922.0	40.0			
FH	(60°-80°)	215.0	1.5			G0/660
FVH	(80°-90°)	7.1	0.0			G0/10
BL	(0°-30°)	1257.4	8.5	B3/2500		
BM	(30°-60°)	5922.0	40.0	B4/8500		
BH	(60°-80°)	215.0	1.5	B1/500		G0/660
BVH	(80°-90°)	7.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G0

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2427.2	2427.2	2427.2	2427.2	2427.2	2427.2	2427.2	2427.2	2427.2	2427.2	2427.2
2.5°	2439.0	2453.0	2443.6	2450.7	2450.7	2439.0	2446.0	2417.9	2436.6	2422.5	2424.9
5°	2476.5	2474.1	2474.1	2476.5	2467.1	2471.8	2462.4	2453.0	2446.0	2436.6	2464.8
7.5°	2523.4	2523.4	2507.0	2511.7	2507.0	2514.0	2495.2	2476.5	2469.4	2462.4	2457.7
10°	2567.9	2563.2	2556.2	2577.3	2560.9	2551.5	2542.1	2530.4	2504.6	2495.2	2485.9
12.5°	2633.6	2631.3	2621.9	2643.0	2633.6	2643.0	2607.8	2577.3	2572.6	2542.1	2558.6
15°	2711.0	2732.1	2715.7	2715.7	2711.0	2699.3	2685.2	2671.1	2628.9	2617.2	2619.5
17.5°	2811.8	2804.8	2807.1	2807.1	2830.6	2800.1	2772.0	2736.8	2715.7	2708.6	2685.2
20°	2908.0	2917.4	2915.0	2931.4	2945.5	2912.7	2882.2	2877.5	2818.9	2828.3	2795.4
22.5°	3076.8	3069.8	3081.5	3093.3	3083.9	3079.2	3051.0	3015.9	2964.3	2940.8	2936.1
25°	3255.1	3243.3	3222.2	3250.4	3264.4	3285.6	3231.6	3212.9	3133.1	3097.9	3100.3
27.5°	3407.5	3423.9	3447.4	3459.1	3494.3	3487.2	3449.7	3388.7	3327.8	3287.9	3262.1
30°	3616.2	3625.6	3665.5	3681.9	3742.9	3759.3	3700.6	3630.3	3522.4	3470.8	3440.3
32.5°	3808.5	3874.2	3871.8	3953.9	4052.4	4120.4	4014.9	3907.0	3799.1	3738.2	3684.2
35°	4120.4	4108.7	4176.7	4263.5	4423.0	4500.3	4385.4	4261.1	4097.0	3998.5	3956.3
37.5°	4411.2	4415.9	4507.4	4645.7	4828.7	4948.3	4847.4	4643.4	4474.5	4347.9	4289.3
40°	4833.4	4842.7	4936.5	5093.7	5300.0	5429.0	5311.8	5105.4	4880.3	4781.8	4781.8
42.5°	5328.2	5368.0	5429.0	5565.0	5750.3	5893.4	5787.8	5626.0	5398.5	5271.9	5290.7
45°	5837.1	5855.8	5895.7	6097.4	6184.2	6254.5	6156.0	6081.0	5928.5	5773.8	5748.0
47.5°	6313.1	6320.2	6437.4	6500.8	6568.8	6510.1	6573.5	6475.0	6303.8	6153.7	6123.2
50°	6524.2	6512.5	6679.0	6871.3	6922.9	6819.7	6765.8	6700.1	6439.8	6259.2	6179.5
52.5°	5909.8	5977.8	6287.3	6822.0	7225.4	7312.2	6997.9	6695.4	6210.0	5858.2	5804.2
54°	5206.2	5269.6	5525.2	6317.8	7157.4	7450.5	6944.0	6301.4	5616.6	5199.2	5145.3
55°	4509.7	4439.4	4903.7	5712.8	6838.5	7328.6	6730.6	5792.5	5009.2	4627.0	4551.9
57.5°	2441.3	2453.0	2844.7	3609.2	4805.2	5619.0	4962.3	3918.7	2959.6	2530.4	2492.9
60°	773.9	792.7	963.9	1458.7	2295.9	2741.5	2349.8	1573.6	1088.1	872.4	837.2
62.5°	241.6	250.9	274.4	408.1	628.5	898.2	703.5	422.1	314.3	288.5	293.1
65°	147.7	147.7	150.1	159.5	187.6	218.1	211.1	185.3	178.2	173.5	171.2
67.5°	96.2	93.8	98.5	105.5	110.2	112.6	119.6	126.6	124.3	119.6	119.6
70°	58.6	56.3	61.0	70.4	72.7	77.4	84.4	93.8	91.5	86.8	89.1
72.5°	32.8	32.8	35.2	42.2	49.2	53.9	61.0	68.0	70.4	68.0	68.0
75°	11.7	14.1	18.8	25.8	30.5	37.5	44.6	51.6	58.6	53.9	51.6
77.5°	4.7	4.7	9.4	16.4	23.5	30.5	42.2	49.2	53.9	49.2	44.6
80°	2.3	2.3	7.0	14.1	21.1	28.1	35.2	42.2	44.6	39.9	35.2
82.5°	2.3	2.3	7.0	14.1	21.1	25.8	37.5	42.2	46.9	42.2	35.2
85°	0.0	2.3	7.0	14.1	18.8	21.1	21.1	14.1	11.7	7.0	7.0
87.5°	0.0	0.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)