

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: P530101

Luminaire Tested: **GALN-SA5B-740-U-RW-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530101
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-7)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-740-U-RW-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18415 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

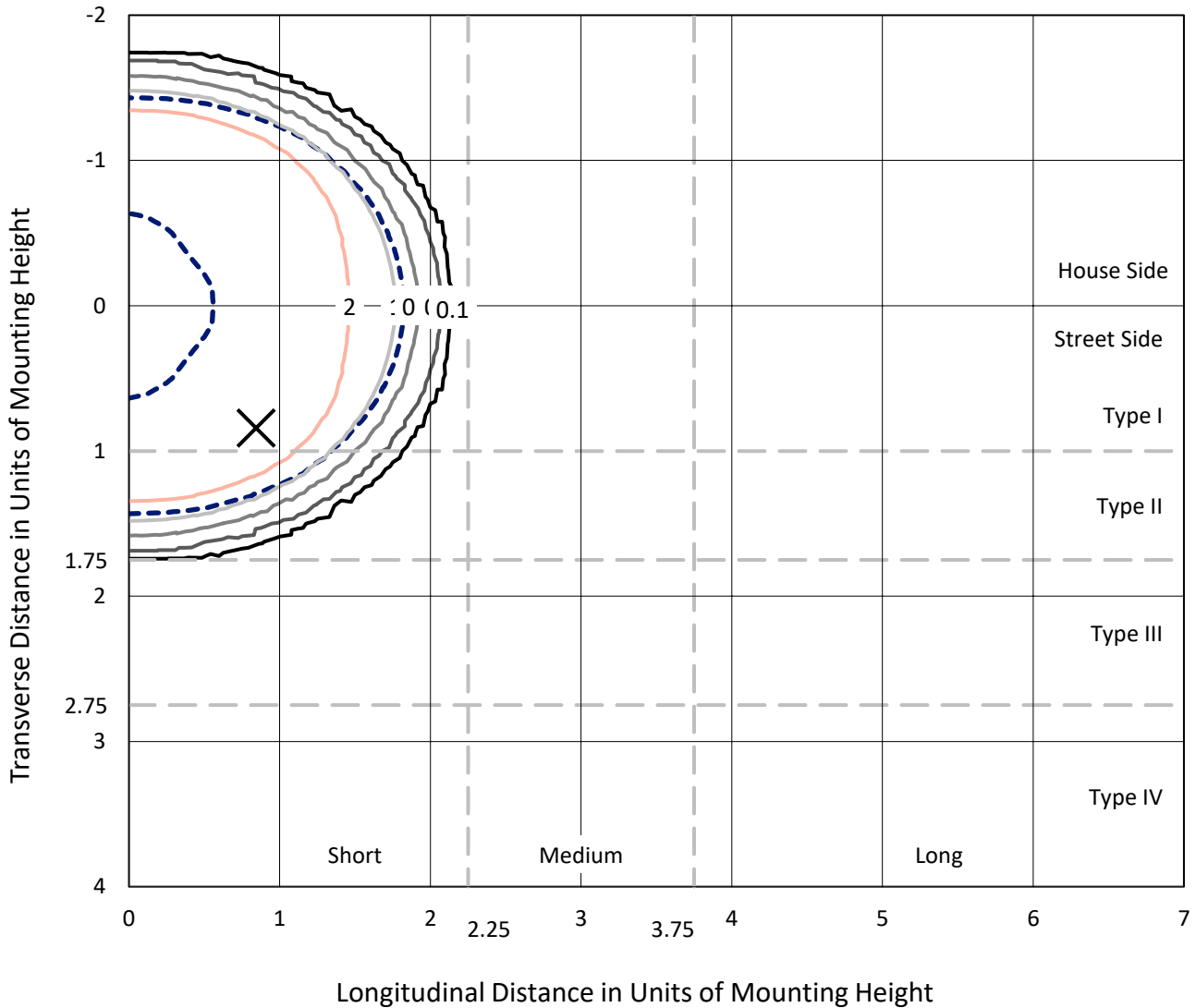
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

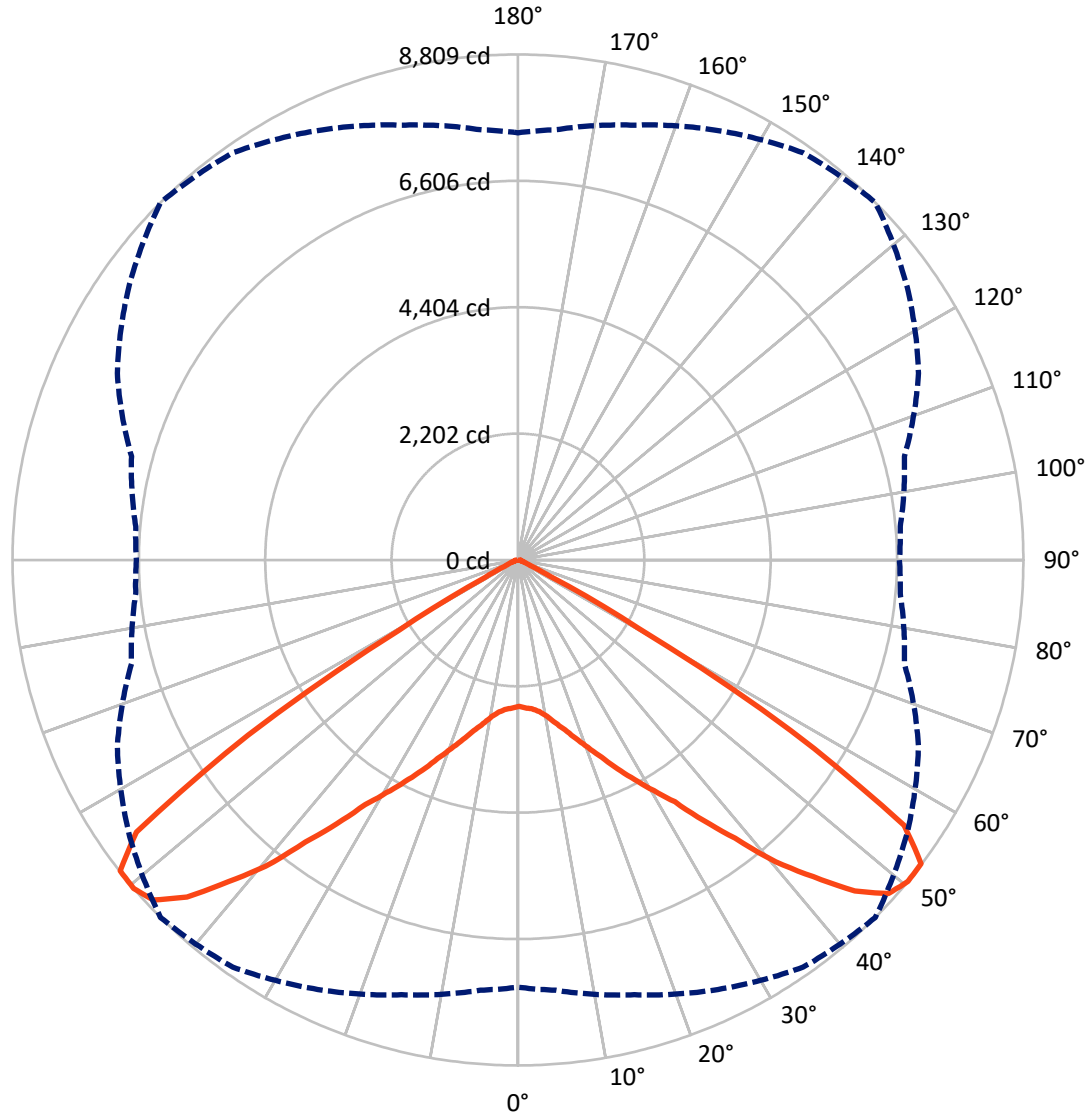
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9207.5	0.0	9207.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9207.5	0.0	9207.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	18415.0	0.0	18415.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.0	1.4
10°-20°	875.4	4.8
20°-30°	1787.9	9.7
30°-40°	3409.5	18.5
40°-50°	5745.5	31.2
50°-60°	5479.4	29.8
60°-70°	764.9	4.2
70°-80°	73.2	0.4
80°-90°	25.3	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°	18415.0	100.0
0°-180°	18415.0	100.0

Coefficient of Utilization



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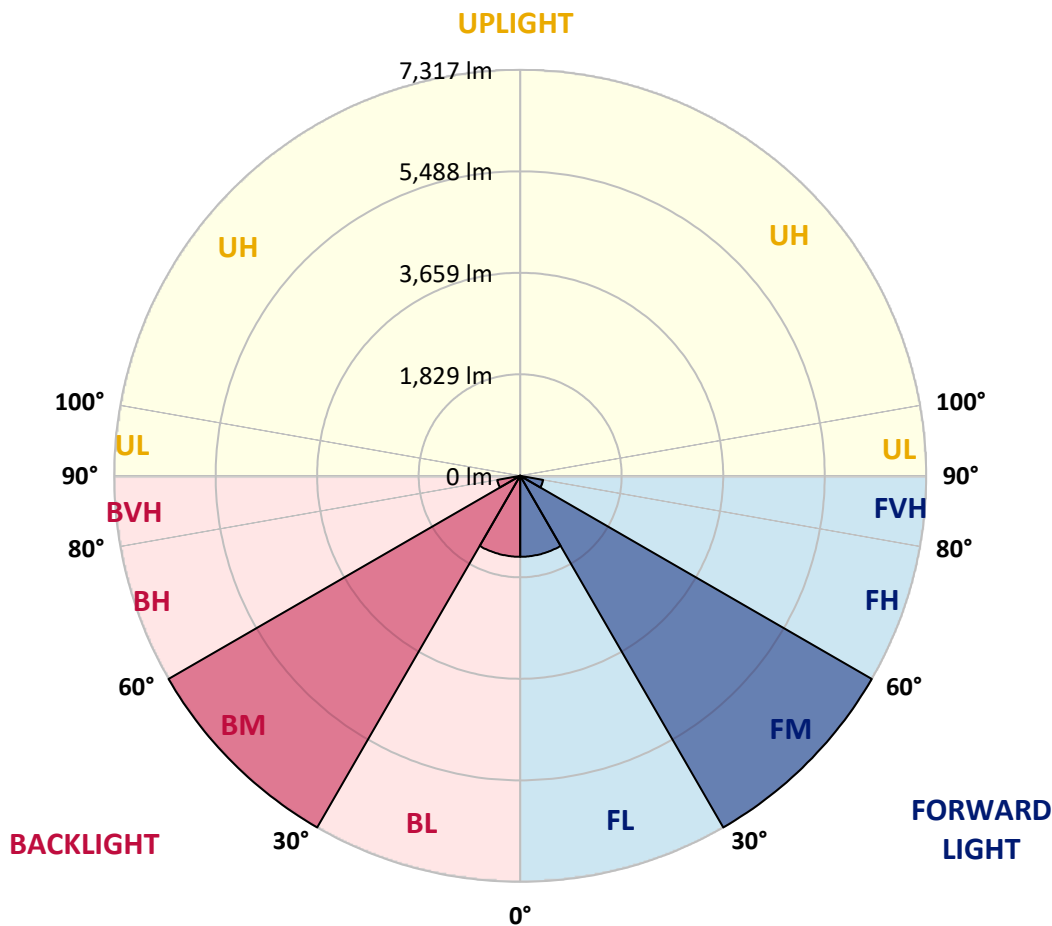
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1458.6	7.9			
FM (30°-60°)	7317.2	39.7			
FH (60°-80°)	419.0	2.3			G0/660
FVH (80°-90°)	12.6	0.1			G1/100
BL (0°-30°)	1458.6	7.9	B3/2500		
BM (30°-60°)	7317.2	39.7	B4/8500		
BH (60°-80°)	419.0	2.3	B1/500		G0/660
BVH (80°-90°)	12.6	0.1			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°	2553.0	2553.0	2553.0	2553.0	2553.0	2553.0	2553.0	2553.0	2553.0	2553.0	2553.0
2.5°	2543.7	2543.7	2540.6	2565.4	2553.0	2580.9	2577.8	2587.1	2596.4	2593.3	2618.1
5°	2522.1	2519.0	2519.0	2546.8	2574.7	2605.7	2633.6	2652.2	2683.2	2683.2	2714.2
7.5°	2543.7	2528.3	2549.9	2562.3	2615.0	2667.7	2714.2	2751.3	2822.6	2847.4	2838.1
10°	2549.9	2568.5	2584.0	2621.2	2686.3	2766.8	2807.1	2900.1	2980.6	3036.4	3048.8
12.5°	2590.2	2618.1	2661.5	2751.3	2810.2	2915.5	2971.3	3061.2	3172.7	3234.7	3278.1
15°	2667.7	2677.0	2732.7	2847.4	2974.4	3070.5	3157.2	3222.3	3330.7	3402.0	3405.1
17.5°	2766.8	2807.1	2884.6	2993.0	3126.2	3268.8	3336.9	3408.2	3448.5	3544.5	3566.2
20°	2965.1	2971.3	3045.7	3188.2	3355.5	3485.6	3535.2	3572.4	3556.9	3656.0	3674.6
22.5°	3151.0	3157.2	3250.2	3442.3	3622.0	3733.5	3755.2	3733.5	3687.0	3758.3	3764.5
25°	3340.0	3395.8	3464.0	3656.0	3879.1	4027.8	4030.9	3972.1	3876.0	3888.4	3919.4
27.5°	3634.4	3674.6	3745.9	3922.5	4167.3	4334.6	4306.7	4235.4	4111.5	4120.8	4111.5
30°	3978.3	4015.5	4074.3	4300.5	4480.2	4663.0	4703.3	4635.1	4449.2	4408.9	4455.4
32.5°	4393.5	4446.1	4554.6	4762.2	4914.0	5025.5	5053.4	5028.6	4855.1	4839.6	4870.6
35°	4898.5	4969.7	5068.9	5251.7	5375.6	5577.0	5577.0	5493.4	5335.4	5353.9	5350.8
37.5°	5431.4	5536.7	5691.7	5877.6	6044.9	6153.3	6119.2	6048.0	5890.0	5849.7	5890.0
40°	6100.6	6153.3	6348.5	6590.2	6794.7	6918.6	6773.0	6618.1	6240.1	6298.9	6407.4
42.5°	6711.0	6794.7	6943.4	7209.9	7442.2	7544.5	7371.0	7064.2	6608.8	6562.3	6642.9
45°	7231.5	7321.4	7516.6	7897.7	8142.5	8232.3	7848.1	7352.4	6831.9	6714.1	6748.2
47.5°	7578.6	7625.0	7897.7	8260.2	8483.3	8687.8	8136.3	7550.7	6937.2	6714.1	6701.7
50°	7445.3	7525.9	7845.0	8257.1	8663.0	8808.6	8281.9	7702.5	6971.3	6686.2	6649.1
52.5°	6611.9	6751.3	7107.6	7662.2	8275.7	8796.2	8483.3	7652.9	6958.9	6714.1	6769.9
55°	4601.0	4604.1	5037.9	5855.9	6940.3	8167.2	8188.9	7708.7	7039.4	6887.6	6890.7
57.5°	1849.7	1942.7	2274.2	3095.2	4096.0	5608.0	6667.6	7151.0	7048.7	7011.6	7107.6
60°	467.9	470.9	573.2	873.7	1440.7	2404.3	3491.8	4725.0	5440.7	5685.5	5719.5
62.5°	238.6	241.7	266.5	309.8	393.5	644.5	1146.4	1818.7	2587.1	2977.5	3079.8
65°	195.2	195.2	210.7	232.4	235.5	247.9	297.4	424.5	616.6	700.2	709.5
67.5°	148.7	148.7	161.1	173.5	179.7	176.6	170.4	176.6	213.8	204.5	198.3
70°	93.0	96.0	102.2	114.6	120.8	123.9	127.0	133.2	151.8	158.0	151.8
72.5°	55.8	55.8	58.9	68.2	77.5	83.7	93.0	99.1	108.4	123.9	120.8
75°	24.8	24.8	31.0	40.3	49.6	58.9	68.2	77.5	83.7	93.0	96.0
77.5°	6.2	9.3	15.5	27.9	37.2	49.6	62.0	71.3	77.5	77.5	74.4
80°	3.1	3.1	12.4	21.7	40.3	52.7	68.2	74.4	83.7	77.5	68.2
82.5°	3.1	3.1	12.4	21.7	37.2	52.7	71.3	80.6	86.8	77.5	65.1
85°	0.0	3.1	9.3	18.6	31.0	37.2	31.0	21.7	12.4	12.4	9.3
87.5°	0.0	0.0	3.1	3.1	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)