

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: P530069

Luminaire Tested: **GALN-SA5B-735-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530069
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-SA5B-735-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 800mA 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: 18236 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

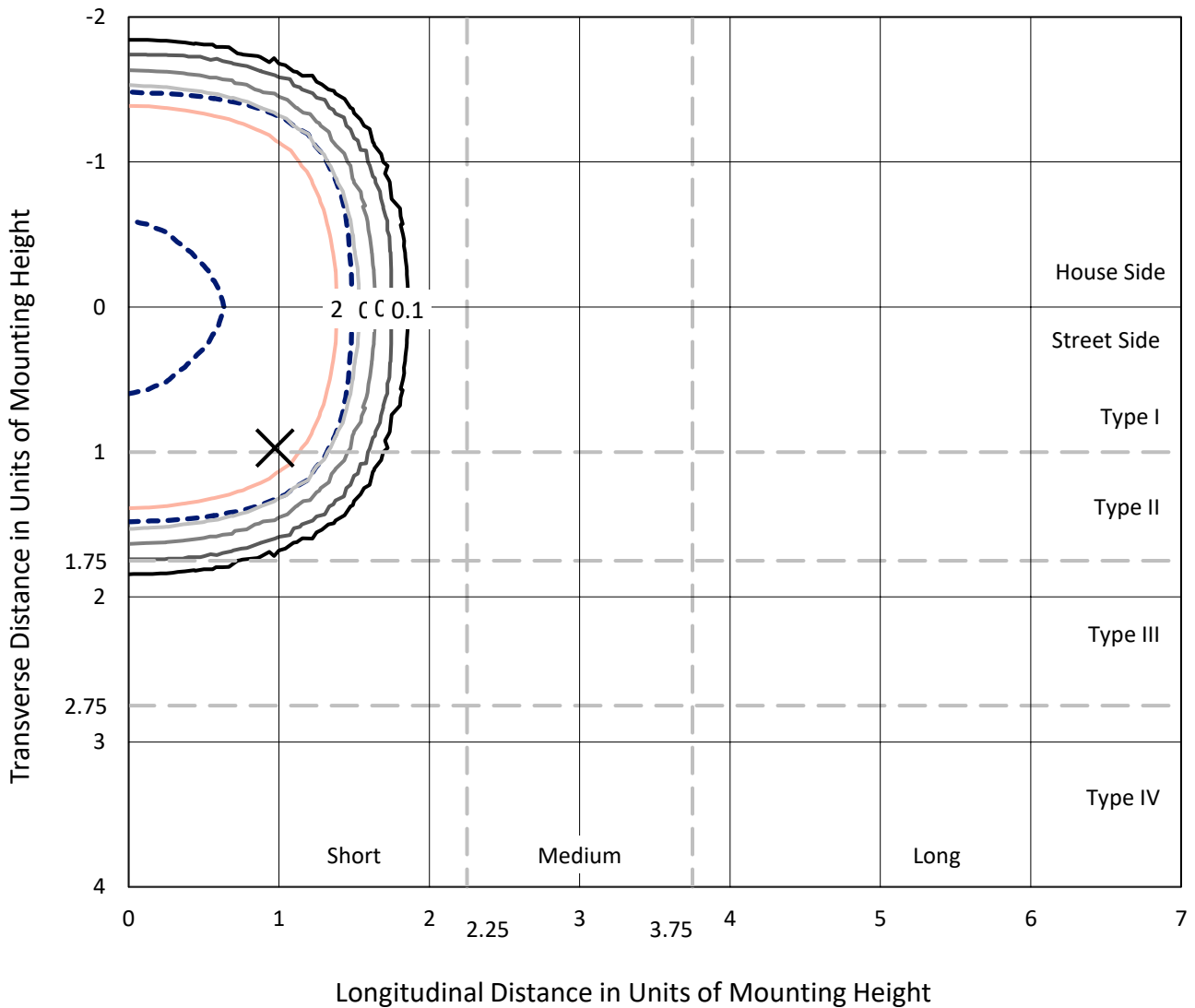
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

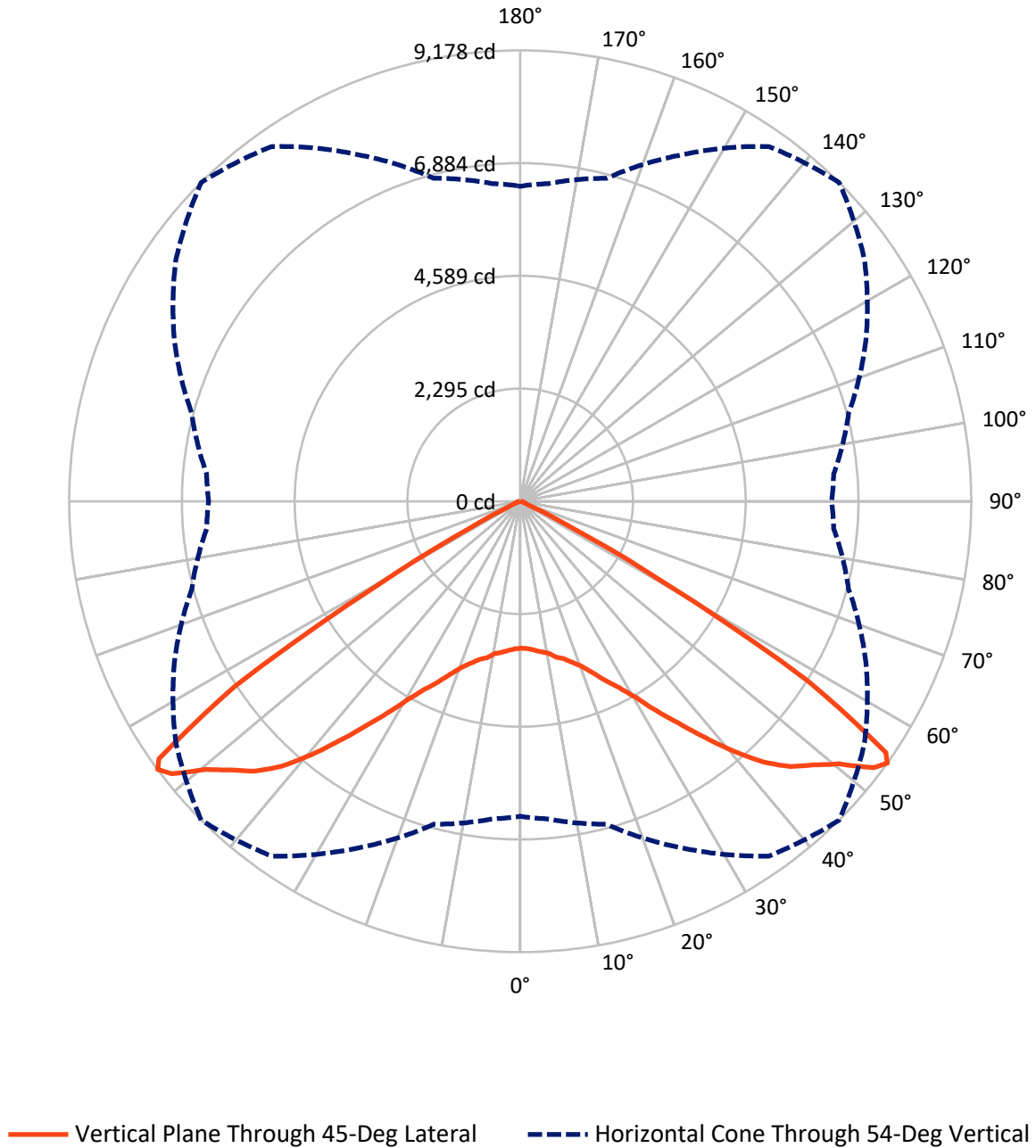
✕ Max cd
 - - - 1/2 Max cd



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



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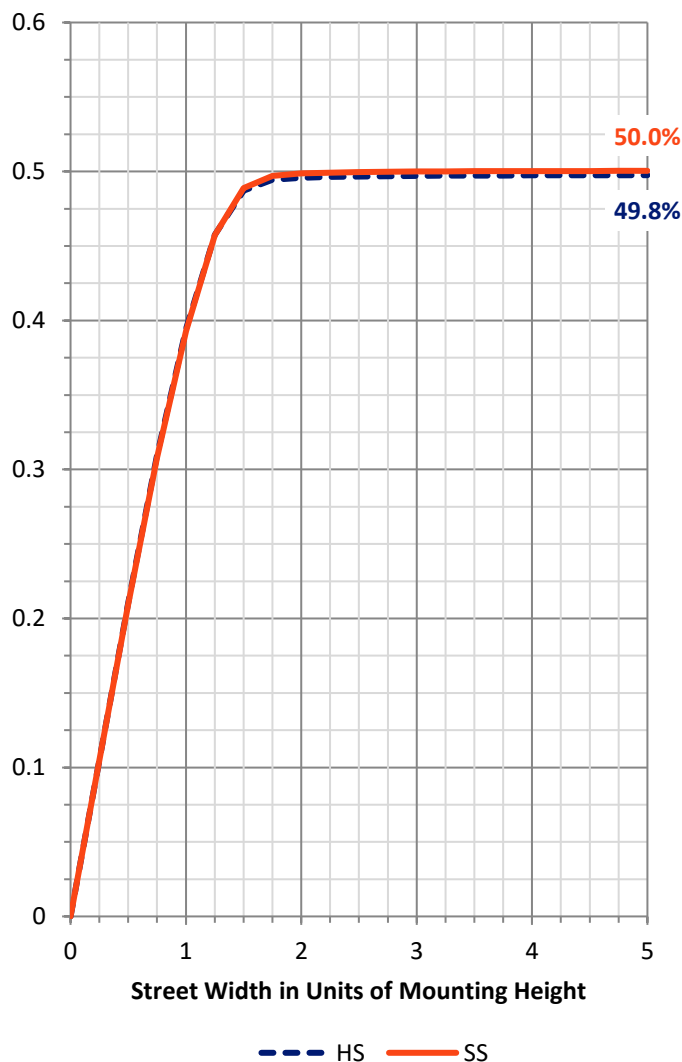
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9118.0	0.0	9118.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9118.0	0.0	9118.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	18236.0	0.0	18236.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.7	1.6
10°-20°	947.8	5.2
20°-30°	1857.5	10.2
30°-40°	3340.2	18.3
40°-50°	5717.9	31.4
50°-60°	5532.6	30.3
60°-70°	473.6	2.6
70°-80°	56.1	0.3
80°-90°	17.6	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°	18236.0	100.0
0°-180°	18236.0	100.0

Coefficient of Utilization



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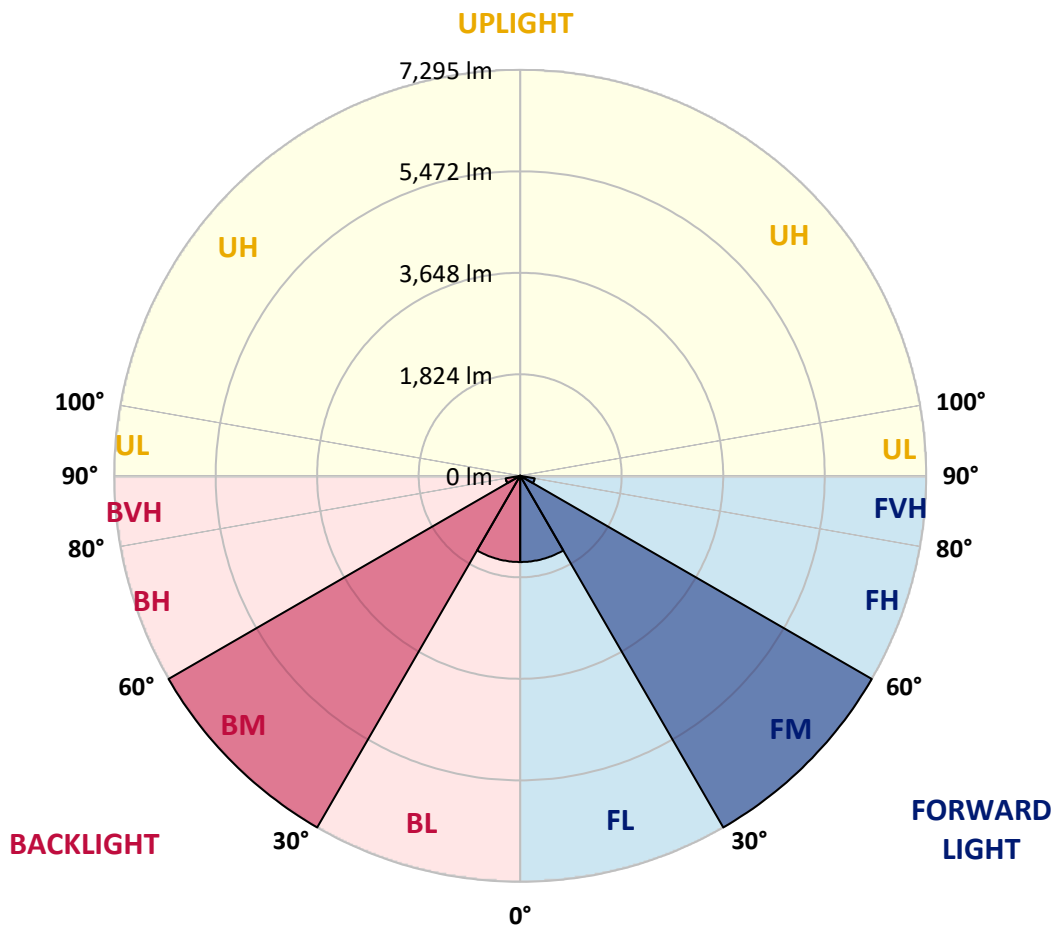
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1549.0	8.5			
FM (30°-60°)	7295.3	40.0			
FH (60°-80°)	264.9	1.5			G0/660
FVH (80°-90°)	8.8	0.0			G0/10
BL (0°-30°)	1549.0	8.5	B3/2500		
BM (30°-60°)	7295.3	40.0	B4/8500		
BH (60°-80°)	264.9	1.5	B1/500		G0/660
BVH (80°-90°)	8.8	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°	2990.1	2990.1	2990.1	2990.1	2990.1	2990.1	2990.1	2990.1	2990.1	2990.1	2990.1
2.5°	3004.6	3021.9	3010.4	3019.0	3019.0	3004.6	3013.2	2978.6	3001.7	2984.4	2987.2
5°	3050.8	3047.9	3047.9	3050.8	3039.2	3045.0	3033.5	3021.9	3013.2	3001.7	3036.4
7.5°	3108.6	3108.6	3088.4	3094.1	3088.4	3097.0	3073.9	3050.8	3042.1	3033.5	3027.7
10°	3163.5	3157.7	3149.0	3175.0	3154.8	3143.3	3131.7	3117.3	3085.5	3073.9	3062.4
12.5°	3244.4	3241.5	3229.9	3255.9	3244.4	3255.9	3212.6	3175.0	3169.3	3131.7	3151.9
15°	3339.7	3365.7	3345.5	3345.5	3339.7	3325.3	3307.9	3290.6	3238.6	3224.1	3227.0
17.5°	3463.9	3455.3	3458.2	3458.2	3487.0	3449.5	3414.8	3371.5	3345.5	3336.8	3307.9
20°	3582.4	3593.9	3591.1	3611.3	3628.6	3588.2	3550.6	3544.8	3472.6	3484.2	3443.7
22.5°	3790.4	3781.7	3796.2	3810.6	3799.1	3793.3	3758.6	3715.3	3651.7	3622.8	3617.1
25°	4010.0	3995.5	3969.5	4004.2	4021.5	4047.5	3981.1	3958.0	3859.7	3816.4	3819.3
27.5°	4197.7	4218.0	4246.9	4261.3	4304.6	4296.0	4249.7	4174.6	4099.5	4050.4	4018.6
30°	4454.9	4466.4	4515.5	4535.8	4610.9	4631.1	4558.9	4472.2	4339.3	4275.7	4238.2
32.5°	4691.8	4772.7	4769.8	4870.9	4992.2	5076.0	4946.0	4813.1	4680.2	4605.1	4538.7
35°	5076.0	5061.6	5145.3	5252.2	5448.7	5544.0	5402.5	5249.3	5047.1	4925.8	4873.8
37.5°	5434.2	5440.0	5552.7	5723.1	5948.5	6095.8	5971.6	5720.3	5512.3	5356.2	5284.0
40°	5954.3	5965.8	6081.4	6275.0	6529.2	6688.1	6543.6	6289.4	6012.1	5890.7	5890.7
42.5°	6563.9	6613.0	6688.1	6855.6	7083.9	7260.1	7130.1	6930.8	6650.5	6494.5	6517.6
45°	7190.8	7213.9	7263.0	7511.5	7618.3	7705.0	7583.7	7491.2	7303.4	7112.8	7081.0
47.5°	7777.2	7785.9	7930.4	8008.4	8092.1	8019.9	8097.9	7976.6	7765.7	7580.8	7543.2
50°	8037.3	8022.8	8227.9	8464.8	8528.4	8401.3	8334.8	8253.9	7933.2	7710.8	7612.6
52.5°	7280.3	7364.1	7745.5	8404.2	8901.1	9008.0	8620.8	8248.2	7650.1	7216.8	7150.3
54°	6413.6	6491.6	6806.5	7783.0	8817.3	9178.4	8554.4	7762.8	6919.2	6405.0	6338.5
55°	5555.6	5468.9	6040.9	7037.7	8424.4	9028.2	8291.5	7135.9	6170.9	5700.0	5607.6
57.5°	3007.5	3021.9	3504.4	4446.2	5919.6	6922.1	6113.2	4827.6	3645.9	3117.3	3071.0
60°	953.4	976.5	1187.4	1797.0	2828.4	3377.3	2894.8	1938.5	1340.5	1074.7	1031.4
62.5°	297.6	309.1	338.0	502.7	774.3	1106.5	866.7	520.0	387.1	355.3	361.1
65°	182.0	182.0	184.9	196.5	231.1	268.7	260.0	228.2	219.6	213.8	210.9
67.5°	118.4	115.6	121.3	130.0	135.8	138.7	147.3	156.0	153.1	147.3	147.3
70°	72.2	69.3	75.1	86.7	89.6	95.3	104.0	115.6	112.7	106.9	109.8
72.5°	40.4	40.4	43.3	52.0	60.7	66.4	75.1	83.8	86.7	83.8	83.8
75°	14.4	17.3	23.1	31.8	37.6	46.2	54.9	63.6	72.2	66.4	63.6
77.5°	5.8	5.8	11.6	20.2	28.9	37.6	52.0	60.7	66.4	60.7	54.9
80°	2.9	2.9	8.7	17.3	26.0	34.7	43.3	52.0	54.9	49.1	43.3
82.5°	2.9	2.9	8.7	17.3	26.0	31.8	46.2	52.0	57.8	52.0	43.3
85°	0.0	2.9	8.7	17.3	23.1	26.0	26.0	17.3	14.4	8.7	8.7
87.5°	0.0	0.0	2.9	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)