

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: P648357

Luminaire Tested: **GALN-SA4B-835-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648357
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-835-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15875.3 lumens
Efficiency: N/A
Efficacy: 96.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

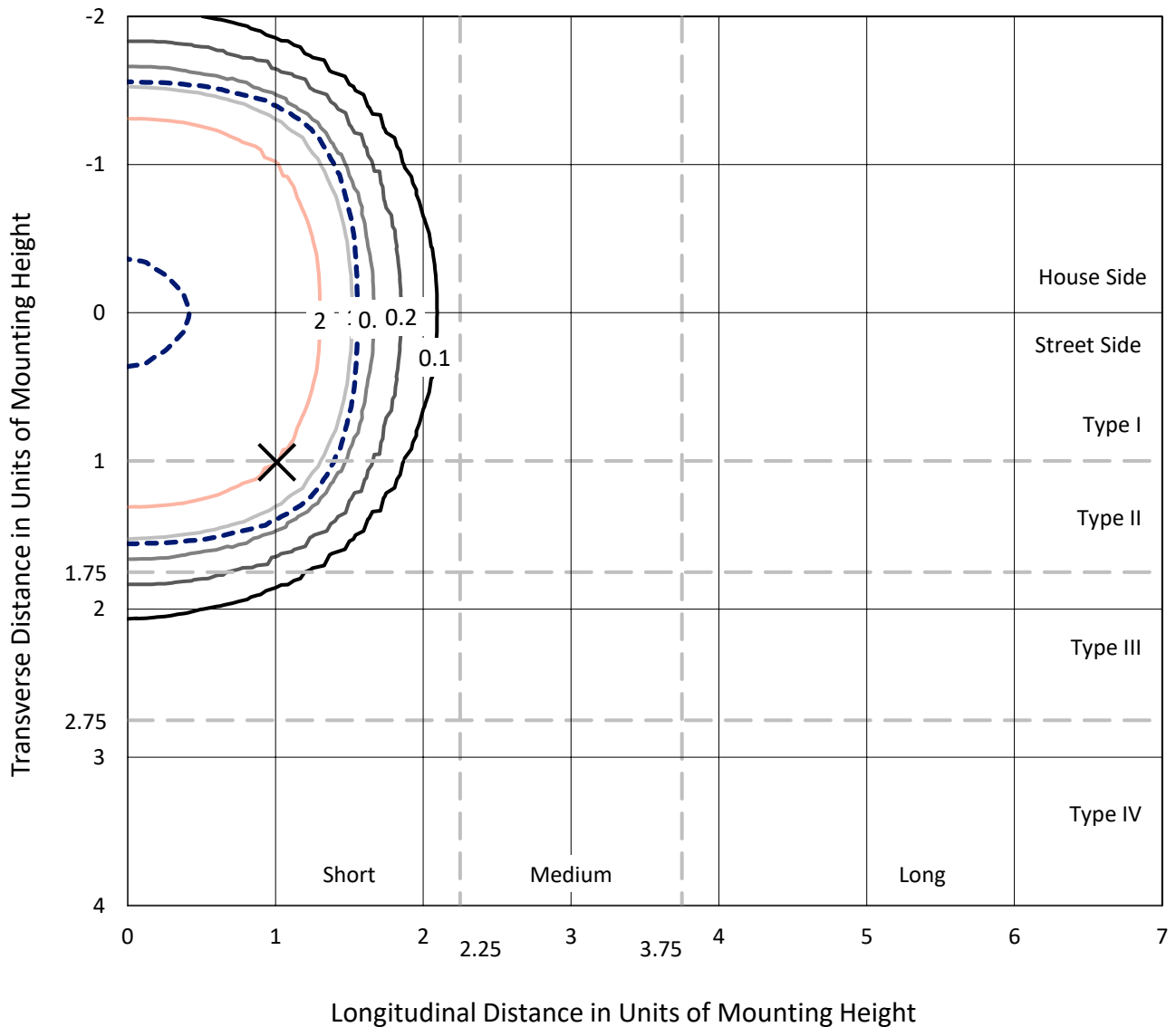
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

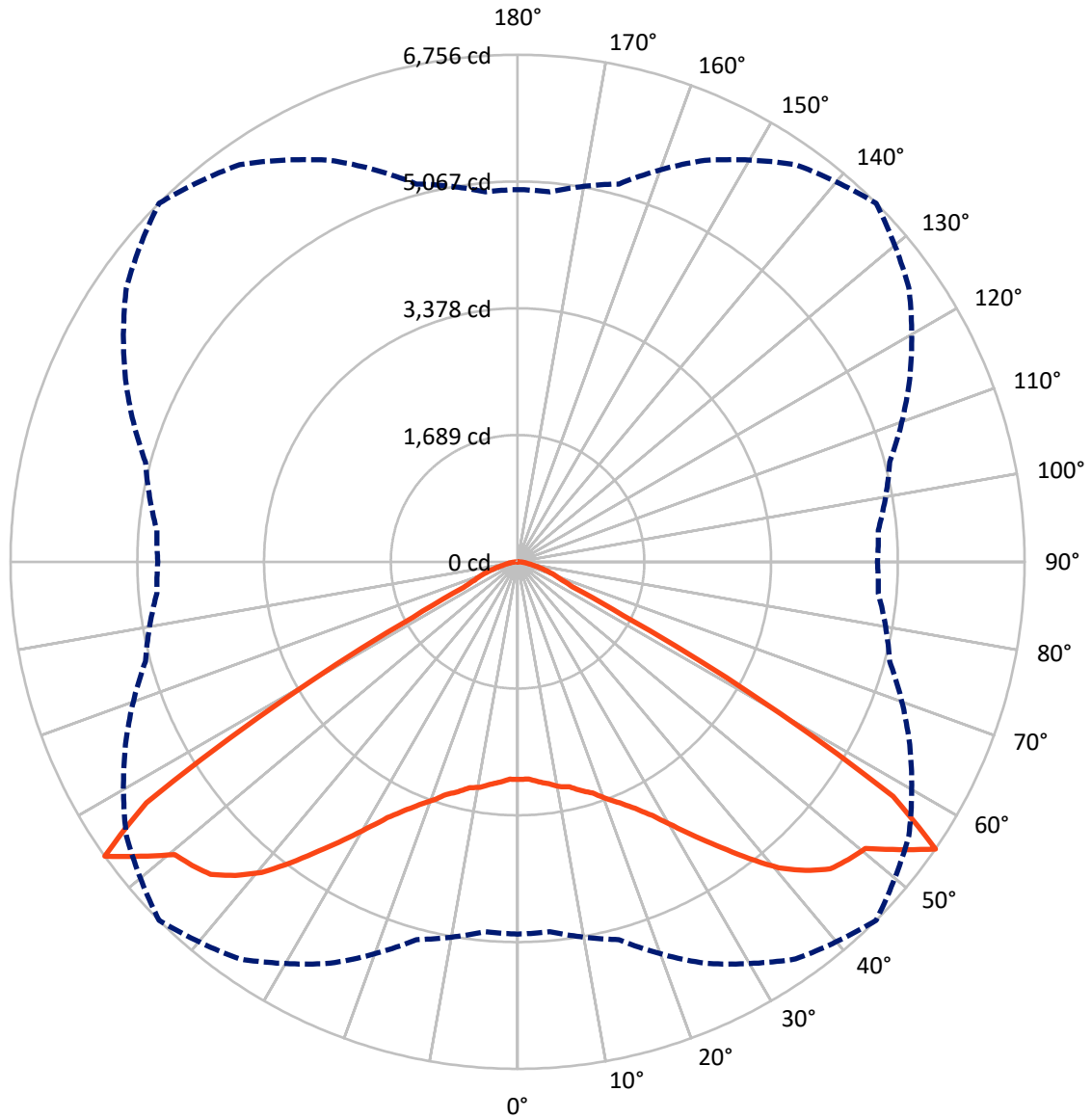
× Max cd
 - - - 1/2 Max cd



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 55-Deg Vertical

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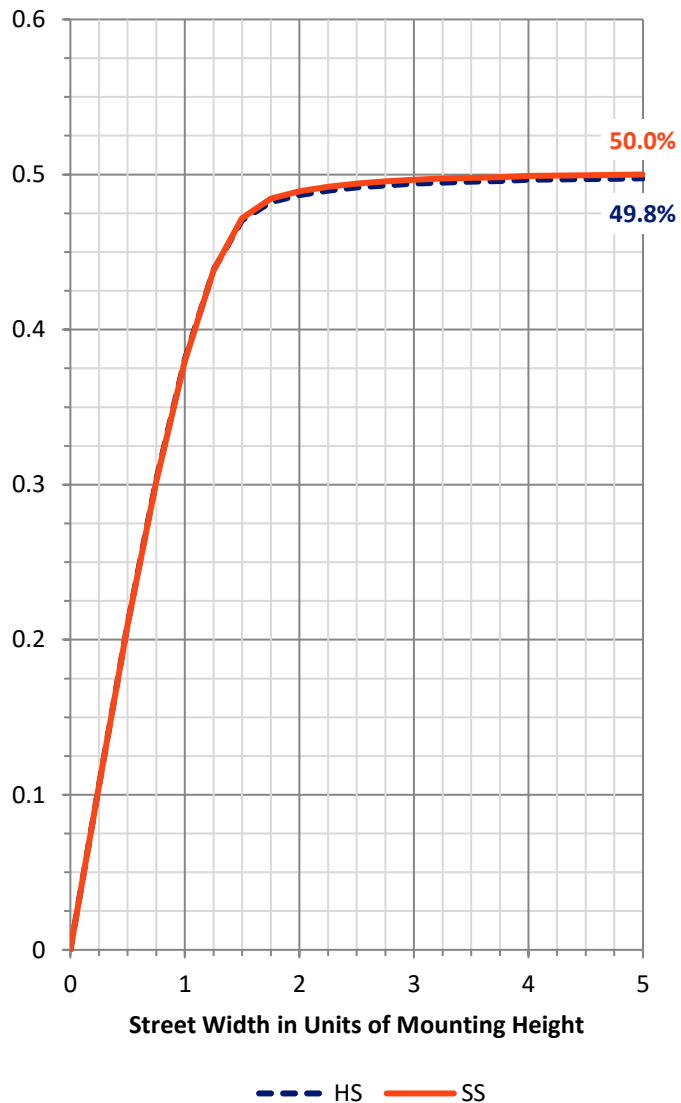
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7937.7	0.0	7937.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7937.7	0.0	7937.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	15875.3	0.0	15875.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.2	1.8
10°-20°	897.2	5.7
20°-30°	1673.0	10.5
30°-40°	2801.2	17.6
40°-50°	4358.8	27.5
50°-60°	4525.9	28.5
60°-70°	959.8	6.0
70°-80°	316.1	2.0
80°-90°	60.2	0.4
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°	15875.3	100.0
0°-180°	15875.3	100.0

Coefficient of Utilization

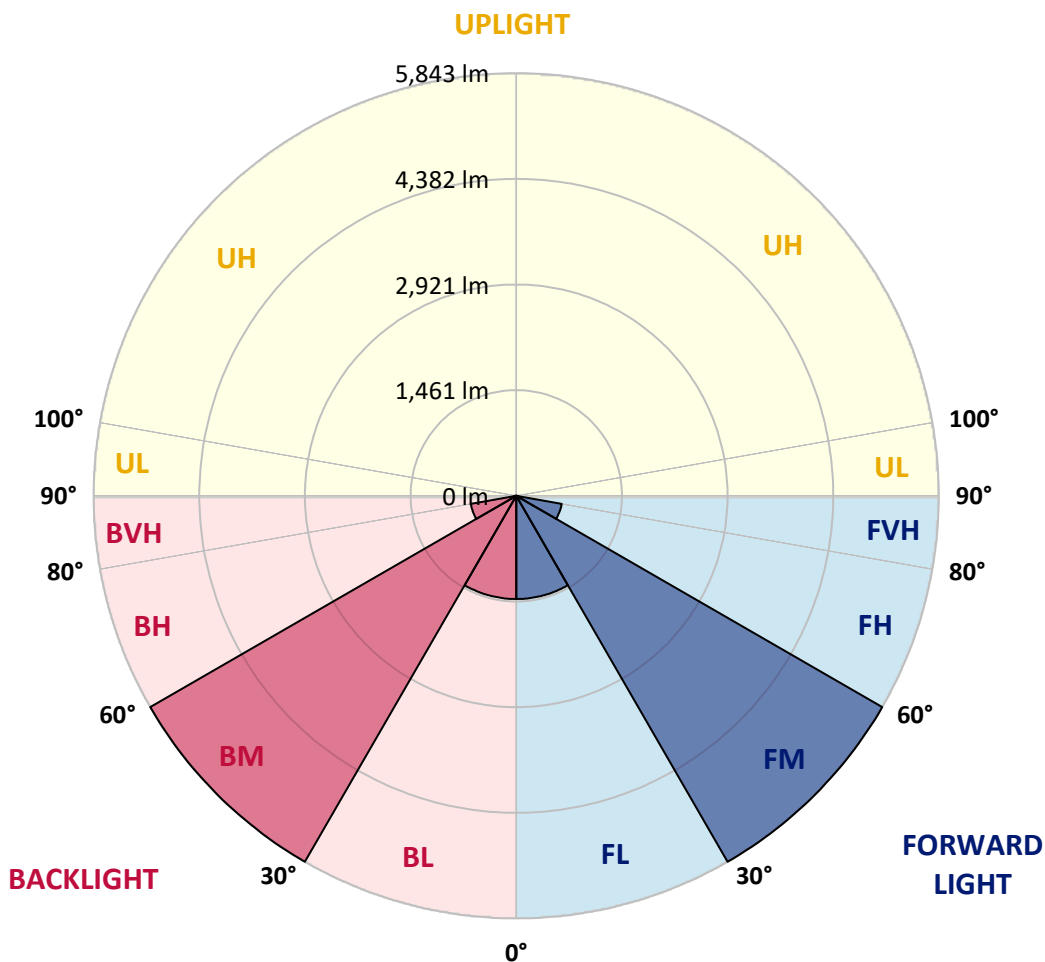


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1426.7	9.0			
FM (30°-60°)	5842.9	36.8			
FH (60°-80°)	637.9	4.0			G0/660
FVH (80°-90°)	30.1	0.2			G1/100
BL (0°-30°)	1426.7	9.0	B3/2500		
BM (30°-60°)	5842.9	36.8	B4/8500		
BH (60°-80°)	637.9	4.0	B2/1000		G0/660
BVH (80°-90°)	30.1	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°	2898.6	2898.6	2898.6	2898.6	2898.6	2898.6	2898.6	2898.6	2898.6	2898.6	2898.6
2.5°	2933.1	2919.7	2896.7	2913.9	2927.4	2898.6	2910.1	2915.9	2912.1	2896.7	2902.4
5°	2975.3	2967.6	2948.5	2961.9	2944.6	2944.6	2933.1	2917.8	2940.8	2937.0	2946.6
7.5°	2975.3	2965.8	3004.1	2979.2	2986.8	2986.8	2967.6	2952.3	2963.8	2946.6	2937.0
10°	3034.8	3048.2	3031.0	3036.7	3032.9	3046.3	3017.5	3008.0	2998.3	2992.6	2981.1
12.5°	3105.8	3096.2	3101.9	3098.1	3111.6	3077.0	3059.7	3038.7	3055.9	3031.0	3048.2
15°	3163.3	3157.6	3163.3	3178.7	3165.3	3163.3	3132.6	3111.6	3084.7	3090.4	3063.6
17.5°	3242.0	3236.2	3238.2	3251.6	3249.7	3240.1	3217.0	3176.8	3167.2	3151.8	3134.6
20°	3359.0	3349.4	3345.6	3351.3	3360.9	3368.6	3322.6	3307.2	3274.6	3249.7	3220.9
22.5°	3458.7	3454.9	3470.3	3445.4	3466.4	3489.4	3445.4	3437.7	3357.1	3343.6	3313.0
25°	3596.9	3591.2	3581.5	3618.0	3642.9	3641.0	3598.8	3556.6	3495.2	3479.9	3479.9
27.5°	3742.7	3710.1	3760.0	3769.5	3813.7	3827.1	3790.7	3729.3	3671.7	3639.1	3646.7
30°	3924.9	3894.2	3905.7	3974.7	4032.3	4082.2	3990.1	3900.0	3819.4	3761.8	3752.3
32.5°	4107.1	4076.5	4111.0	4178.1	4293.2	4368.0	4277.8	4120.5	4026.6	3942.2	3959.4
35°	4254.8	4277.8	4333.5	4435.1	4554.1	4675.0	4531.1	4410.2	4276.0	4181.9	4195.4
37.5°	4492.7	4563.7	4607.8	4724.9	4893.7	5018.3	4868.7	4711.4	4567.6	4444.8	4402.6
40°	4803.5	4851.5	4901.3	5039.5	5239.0	5363.6	5221.7	5016.4	4874.5	4747.9	4742.1
42.5°	5144.9	5191.0	5242.8	5411.6	5530.6	5624.5	5494.1	5384.8	5227.5	5127.7	5121.9
45°	5542.1	5509.4	5567.0	5678.2	5778.0	5839.4	5755.0	5701.3	5588.1	5496.0	5486.4
47.5°	5806.8	5778.0	5881.6	5981.3	5996.7	5929.6	5946.8	5996.7	5877.7	5726.2	5774.2
50°	5960.3	5960.3	6029.3	6121.4	6092.6	6006.3	6142.5	6146.3	6027.4	5893.1	5893.1
52.5°	5693.6	5753.1	5948.8	6249.9	6345.8	6370.8	6340.1	6209.7	5898.9	5624.5	5611.1
55°	4960.8	4947.4	5212.1	5902.7	6460.9	6756.4	6365.0	5764.6	5133.4	4824.6	4793.9
57.5°	3226.7	3242.0	3637.2	4341.2	5348.3	5898.9	5239.0	4394.9	3637.2	3211.3	3251.6
60°	1452.2	1504.0	1743.7	2269.4	3134.6	3583.5	3142.3	2384.5	1830.1	1588.4	1609.5
62.5°	834.4	844.1	853.6	1012.9	1335.2	1578.8	1386.9	1070.4	943.8	901.6	901.6
65°	704.0	698.3	700.2	713.6	748.2	798.0	776.9	748.2	752.0	748.2	742.4
67.5°	598.5	606.2	600.4	610.0	611.9	619.6	633.1	644.6	646.4	650.3	646.4
70°	491.1	493.0	496.8	504.5	506.4	512.2	531.3	541.0	546.7	546.7	554.4
72.5°	376.0	374.0	377.9	385.5	395.2	397.1	414.4	427.8	435.4	425.9	427.8
75°	247.4	249.4	255.1	260.9	274.3	287.8	293.5	306.9	308.8	312.7	303.1
77.5°	147.7	151.5	157.3	168.8	180.3	191.8	205.2	214.9	218.7	214.9	203.3
80°	95.9	95.9	103.6	113.1	126.6	136.2	143.8	151.5	157.3	151.5	147.7
82.5°	59.4	59.4	69.1	80.6	90.1	95.9	107.4	117.0	122.8	118.9	113.1
85°	30.7	32.6	40.2	49.9	57.6	61.4	59.4	53.7	47.9	46.0	42.2
87.5°	9.6	9.6	11.5	11.5	9.6	9.6	11.5	9.6	11.5	11.5	11.5
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)