

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: P646817

Luminaire Tested: **GALN-SA3C-835-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P646817
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-SA3C-835-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 1050mA 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: 14801.8 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

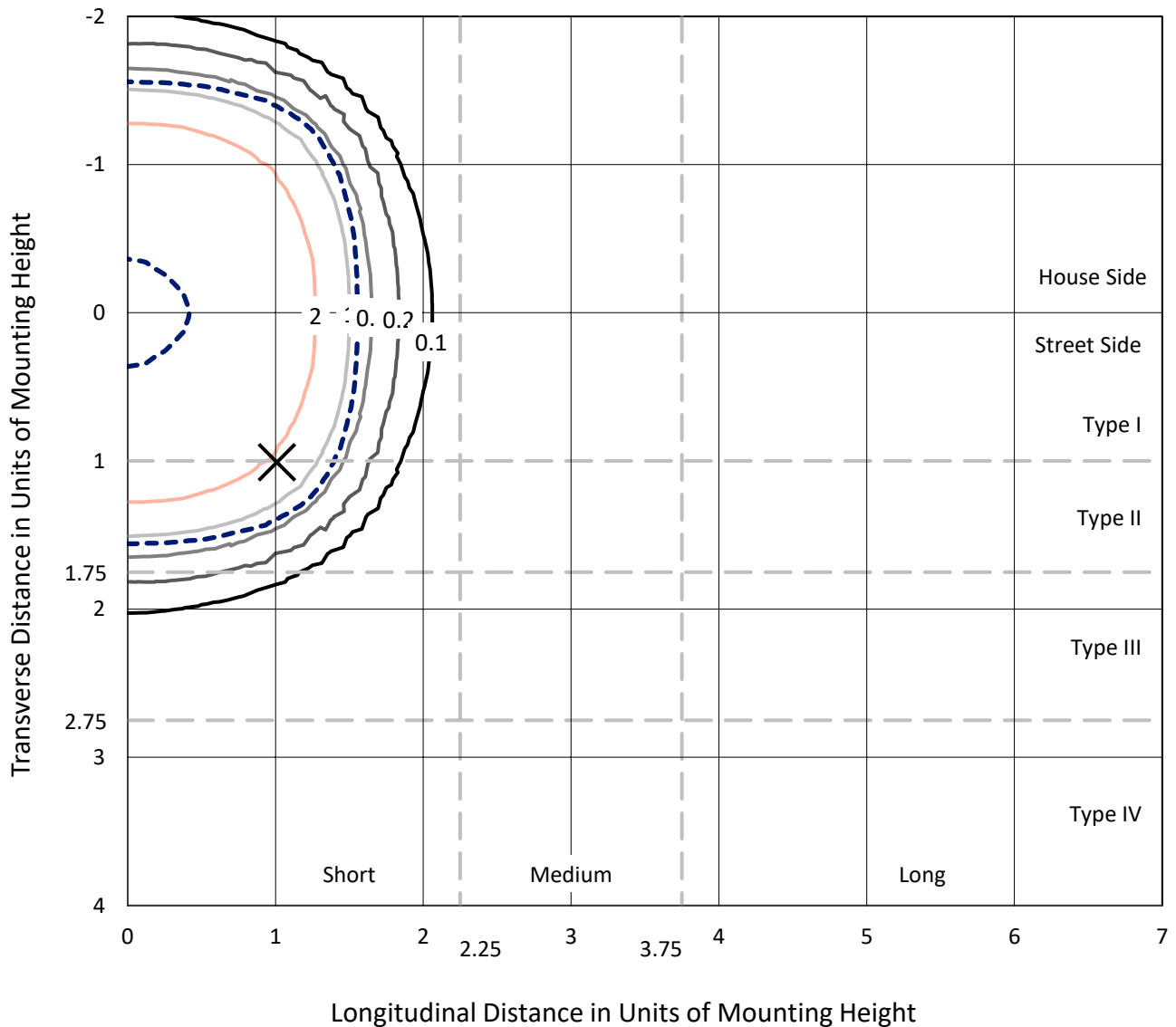
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

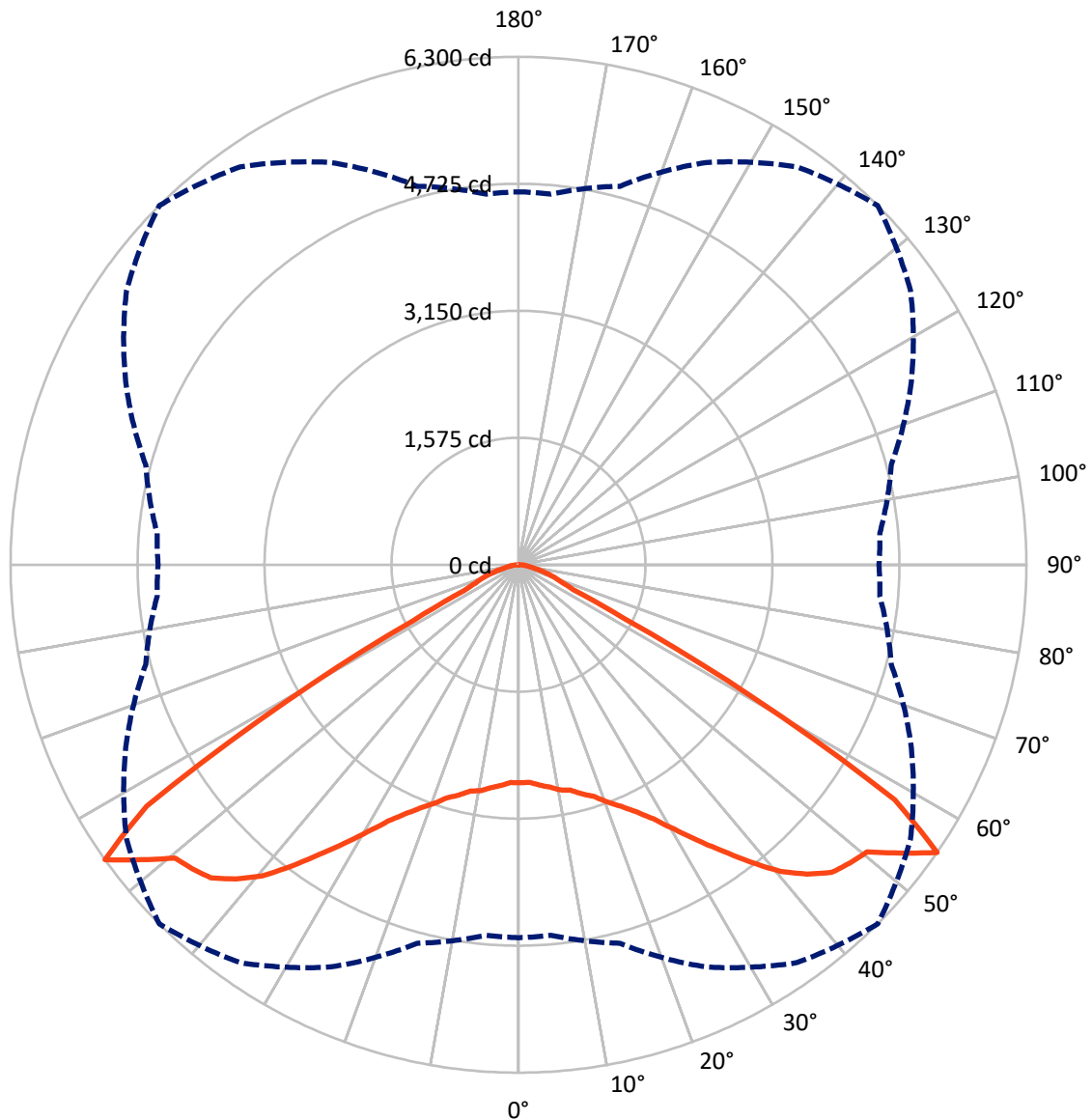
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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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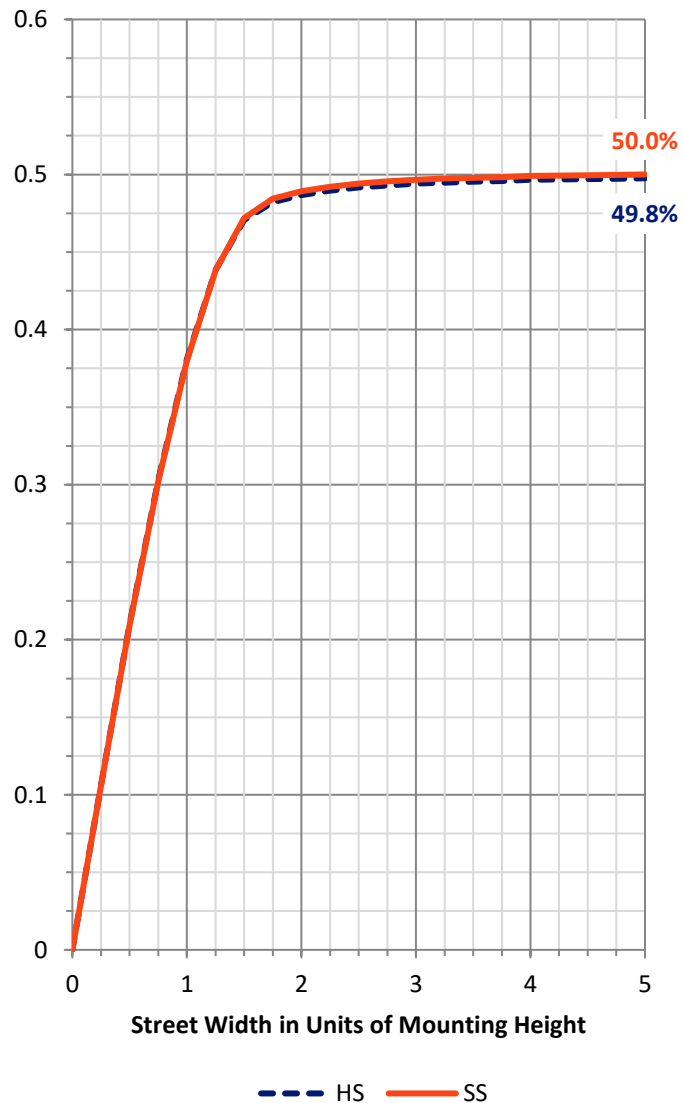
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7400.9	0.0	7400.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7400.9	0.0	7400.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	14801.8	0.0	14801.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.0	1.8
10°-20°	836.5	5.7
20°-30°	1559.9	10.5
30°-40°	2611.8	17.6
40°-50°	4064.1	27.5
50°-60°	4219.8	28.5
60°-70°	894.9	6.0
70°-80°	294.7	2.0
80°-90°	56.1	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°	14801.8	100.0
0°-180°	14801.8	100.0

Coefficient of Utilization



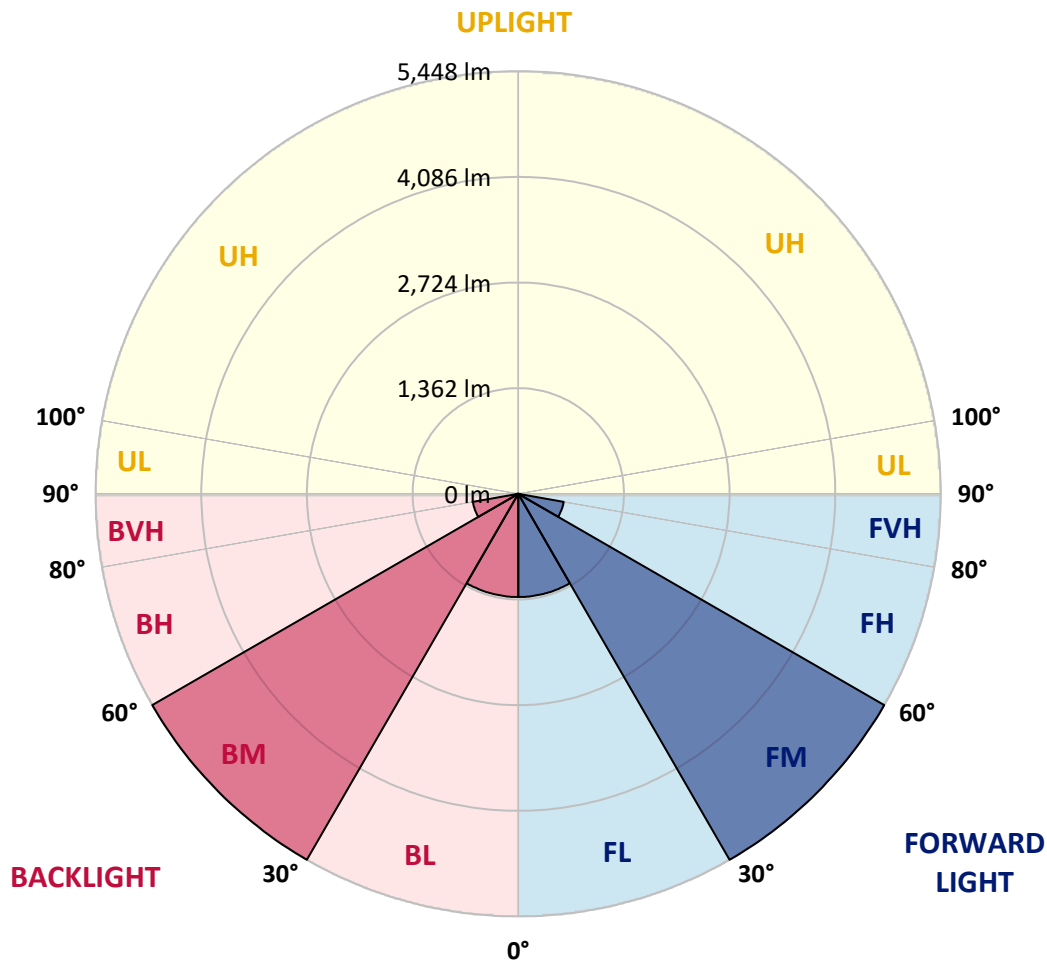
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1330.2	9.0			
FM (30°-60°)	5447.8	36.8			
FH (60°-80°)	594.8	4.0			G0/660
FVH (80°-90°)	28.1	0.2			G1/100
BL (0°-30°)	1330.2	9.0	B3/2500		
BM (30°-60°)	5447.8	36.8	B4/8500		
BH (60°-80°)	594.8	4.0	B2/1000		G0/660
BVH (80°-90°)	28.1	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°	2702.6	2702.6	2702.6	2702.6	2702.6	2702.6	2702.6	2702.6	2702.6	2702.6	2702.6
2.5°	2734.8	2722.3	2700.8	2716.9	2729.5	2702.6	2713.3	2718.7	2715.1	2700.8	2706.2
5°	2774.2	2767.0	2749.1	2761.6	2745.5	2745.5	2734.8	2720.5	2741.9	2738.4	2747.3
7.5°	2774.2	2765.2	2800.9	2777.7	2784.9	2784.9	2767.0	2752.6	2763.4	2747.3	2738.4
10°	2829.6	2842.1	2826.0	2831.4	2827.8	2840.3	2813.5	2804.5	2795.6	2790.2	2779.5
12.5°	2895.8	2886.8	2892.2	2888.6	2901.1	2868.9	2852.9	2833.1	2849.3	2826.0	2842.1
15°	2949.4	2944.1	2949.4	2963.7	2951.2	2949.4	2920.8	2901.1	2876.1	2881.4	2856.4
17.5°	3022.8	3017.4	3019.2	3031.7	3029.9	3021.0	2999.5	2961.9	2953.0	2938.7	2922.6
20°	3131.8	3122.9	3119.3	3124.7	3133.6	3140.8	3097.9	3083.5	3053.2	3029.9	3003.1
22.5°	3224.9	3221.3	3235.6	3212.3	3232.0	3253.5	3212.3	3205.2	3130.0	3117.5	3088.9
25°	3353.7	3348.3	3339.3	3373.3	3396.6	3394.8	3355.5	3316.1	3258.8	3244.5	3244.5
27.5°	3489.6	3459.2	3505.6	3514.7	3555.8	3568.3	3534.3	3477.1	3423.4	3393.0	3400.2
30°	3659.5	3630.8	3641.6	3706.0	3759.7	3806.2	3720.3	3636.3	3561.2	3507.4	3498.5
32.5°	3829.4	3800.8	3833.0	3895.6	4002.9	4072.7	3988.6	3841.9	3754.3	3675.6	3691.7
35°	3967.1	3988.6	4040.5	4135.3	4246.1	4358.9	4224.7	4112.0	3986.8	3899.2	3911.7
37.5°	4188.9	4255.1	4296.2	4405.3	4562.8	4679.0	4539.5	4392.9	4258.7	4144.2	4104.9
40°	4478.7	4523.4	4569.9	4698.7	4884.7	5000.9	4868.6	4677.3	4544.8	4426.8	4421.4
42.5°	4797.0	4840.0	4888.3	5045.7	5156.6	5244.2	5122.6	5020.7	4873.9	4781.0	4775.6
45°	5167.3	5136.9	5190.6	5294.3	5387.3	5444.5	5365.8	5315.8	5210.2	5124.3	5115.4
47.5°	5414.1	5387.3	5483.9	5576.9	5591.2	5528.6	5544.7	5591.2	5480.3	5339.0	5383.8
50°	5557.2	5557.2	5621.6	5707.4	5680.7	5600.2	5727.2	5730.7	5619.8	5494.6	5494.6
52.5°	5308.6	5364.0	5546.5	5827.3	5916.7	5940.0	5911.3	5789.7	5499.9	5244.2	5231.7
55°	4625.3	4612.8	4859.7	5503.6	6024.0	6299.5	5934.6	5374.7	4786.3	4498.3	4469.8
57.5°	3008.4	3022.8	3391.2	4047.6	4986.6	5499.9	4884.7	4097.7	3391.2	2994.1	3031.7
60°	1354.0	1402.3	1625.8	2115.9	2922.6	3341.1	2929.8	2223.3	1706.3	1481.0	1500.6
62.5°	778.1	787.0	795.9	944.4	1244.9	1472.0	1293.2	998.0	880.0	840.6	840.6
65°	656.4	651.1	652.9	665.4	697.6	744.1	724.4	697.6	701.1	697.6	692.2
67.5°	558.0	565.2	559.8	568.8	570.6	577.7	590.2	601.0	602.8	606.4	602.8
70°	457.9	459.7	463.2	470.4	472.2	477.6	495.5	504.4	509.7	509.7	516.9
72.5°	350.5	348.7	352.4	359.5	368.5	370.3	386.3	398.9	406.0	397.1	398.9
75°	230.8	232.6	237.9	243.3	255.8	268.3	273.7	286.2	288.0	291.5	282.6
77.5°	137.7	141.3	146.7	157.4	168.1	178.8	191.4	200.3	203.9	200.3	189.6
80°	89.4	89.4	96.6	105.5	118.1	127.0	134.1	141.3	146.7	141.3	137.7
82.5°	55.4	55.4	64.4	75.1	84.1	89.4	100.1	109.1	114.5	110.9	105.5
85°	28.6	30.4	37.6	46.5	53.6	57.2	55.4	50.1	44.7	42.9	39.4
87.5°	8.9	8.9	10.7	10.7	8.9	8.9	10.7	8.9	10.7	10.7	10.7
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)