

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: P647973

Luminaire Tested: **GALN-SA6A-835-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647973
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6A-835-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22159.7 lumens
Efficiency: N/A
Efficacy: 121.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

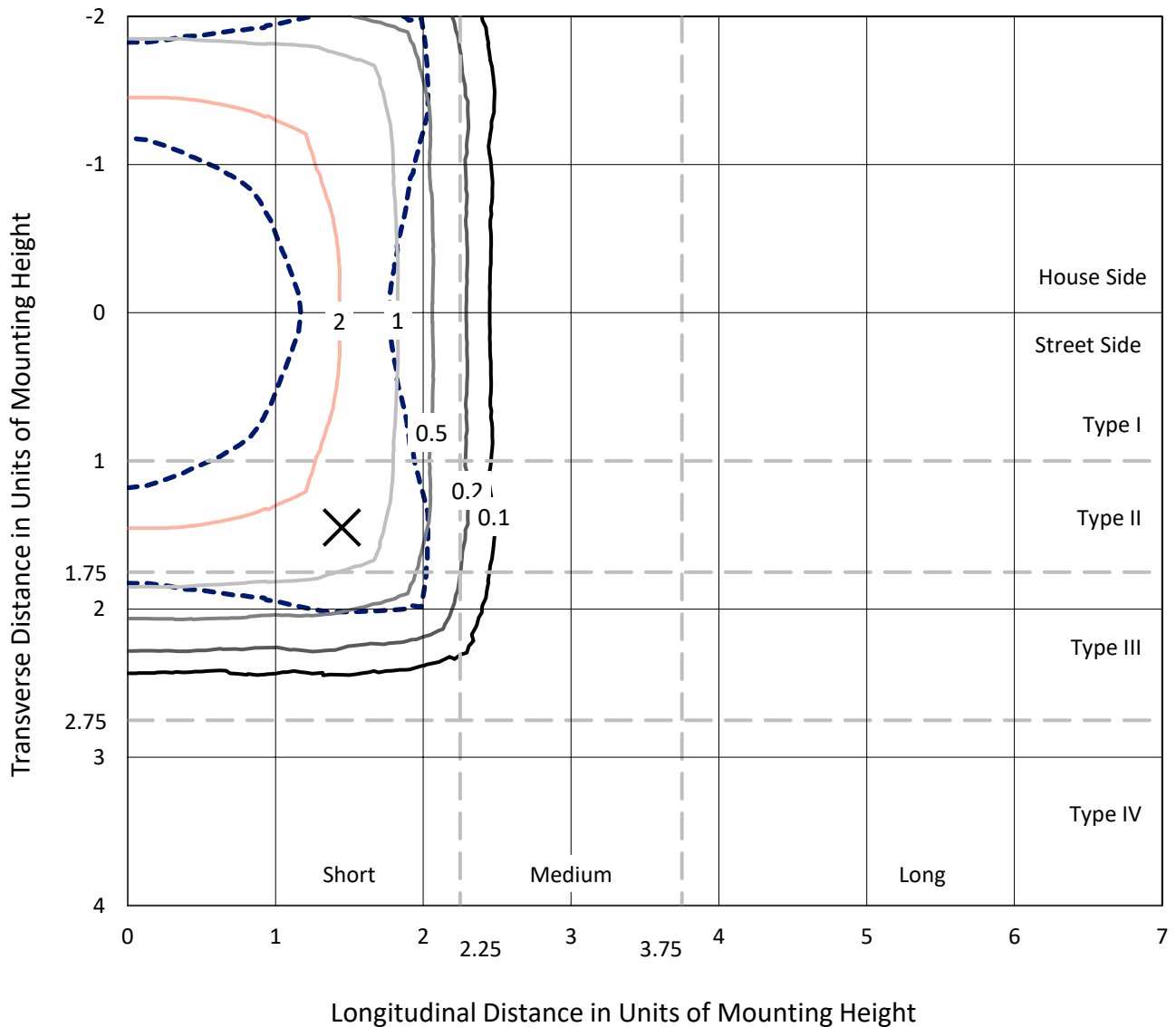
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

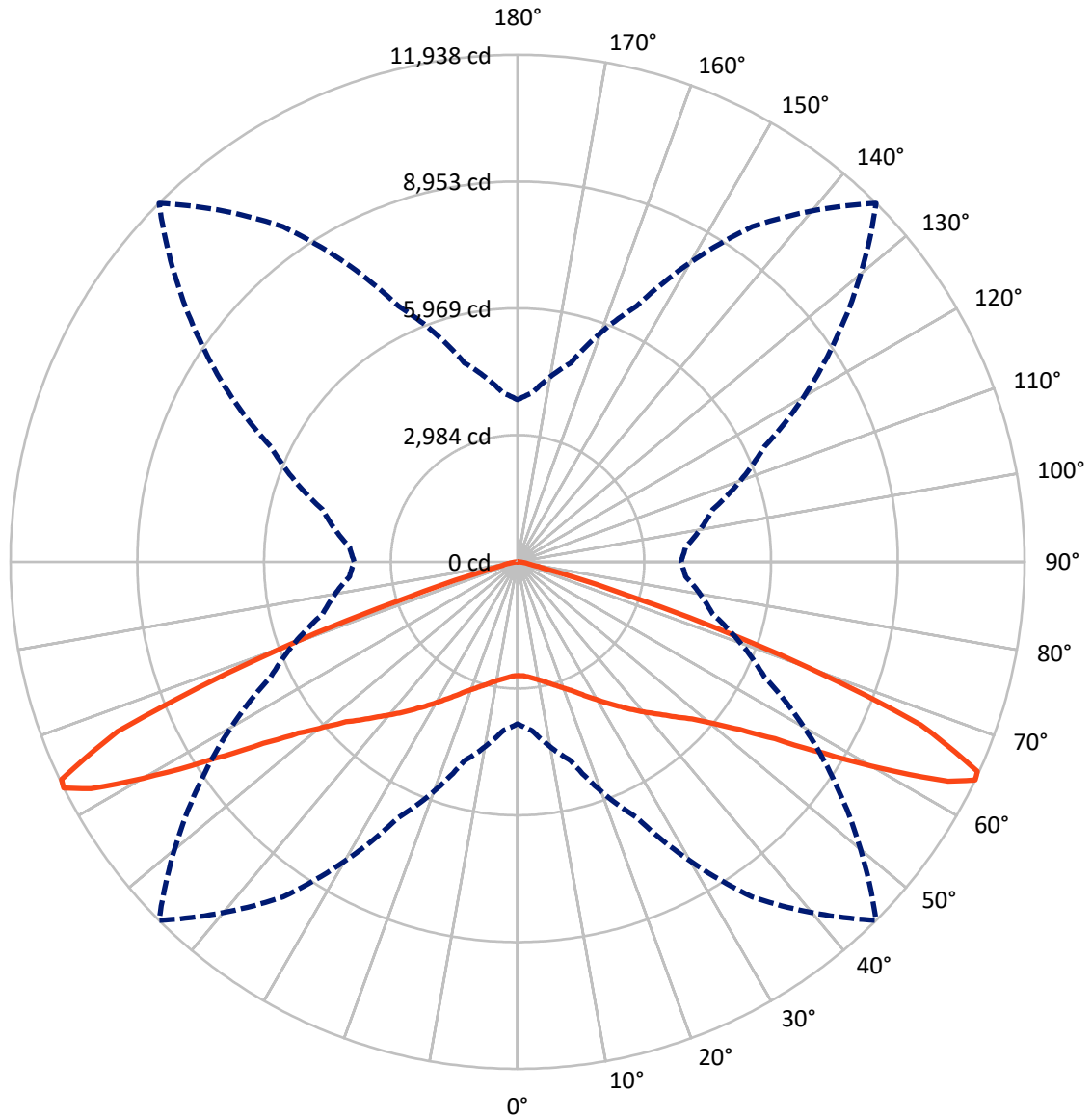
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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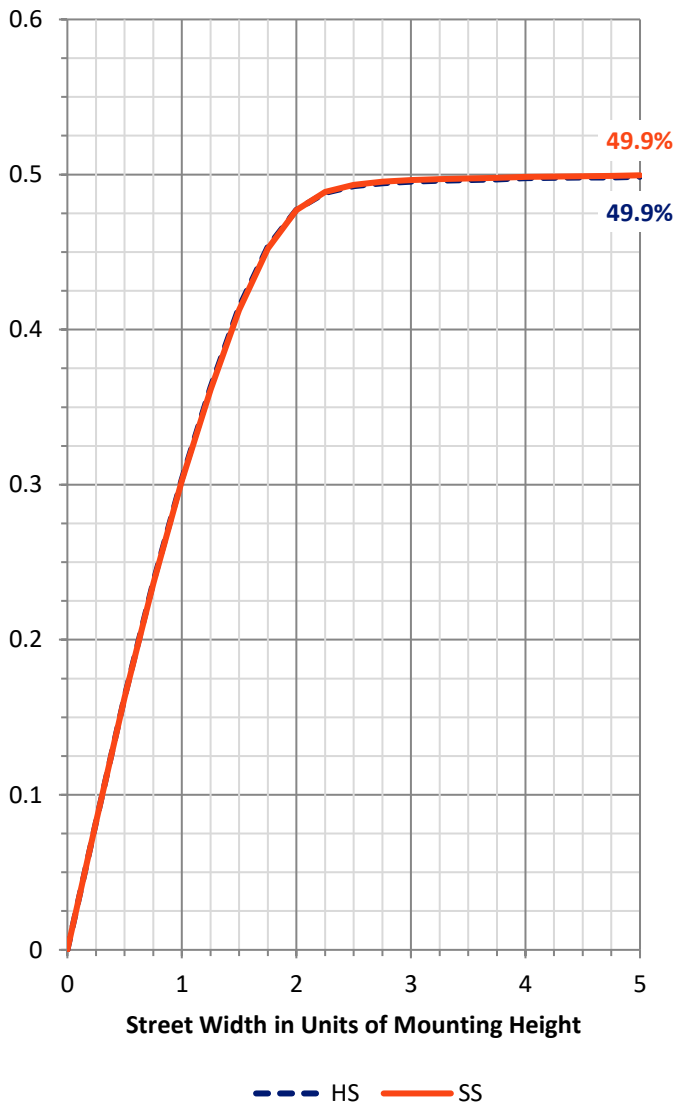
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11079.8	0.0	11079.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11079.8	0.0	11079.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	22159.7	0.0	22159.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.1	1.2
10°-20°	848.8	3.8
20°-30°	1603.9	7.2
30°-40°	2656.3	12.0
40°-50°	4146.9	18.7
50°-60°	6411.0	28.9
60°-70°	5528.1	24.9
70°-80°	626.5	2.8
80°-90°	75.1	0.3
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°	22159.7	100.0
0°-180°	22159.7	100.0

Coefficient of Utilization



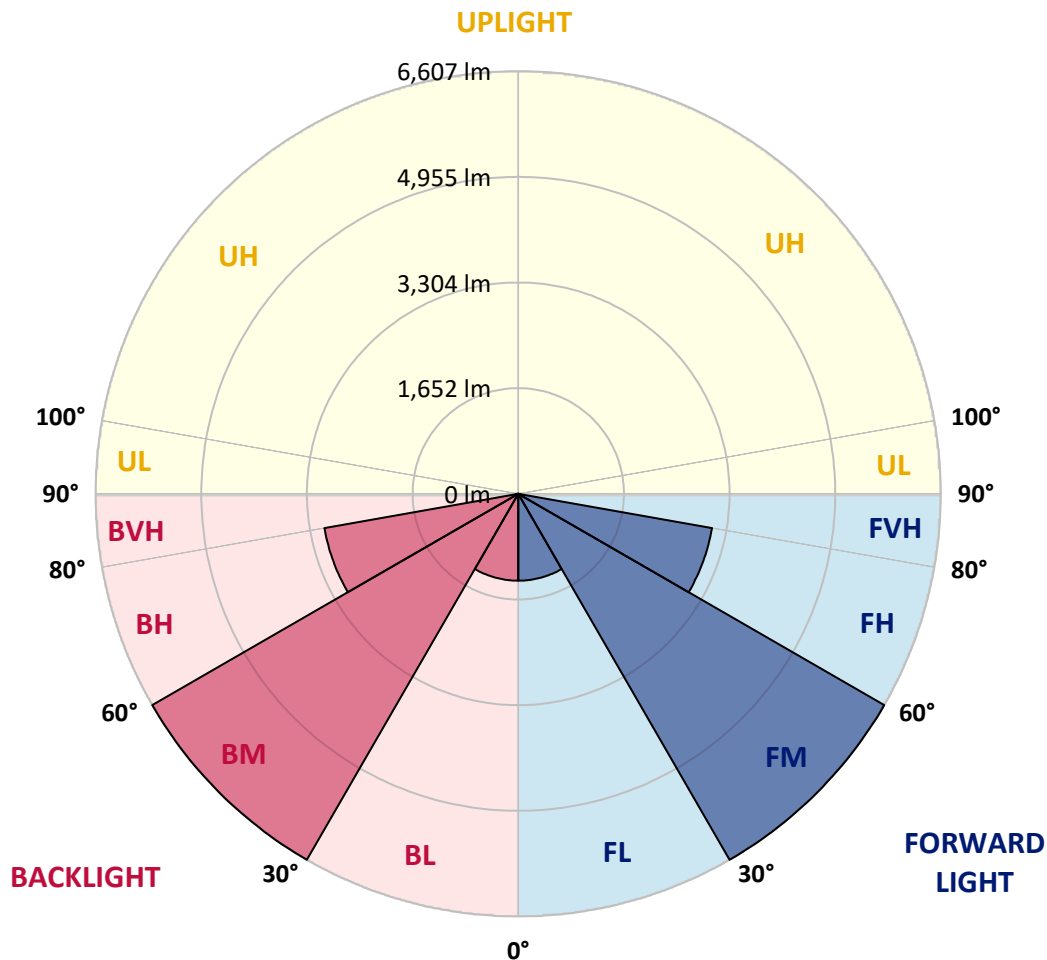
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1357.9	6.1			
FM (30°-60°)	6607.1	29.8			
FH (60°-80°)	3077.3	13.9			G2/5000
FVH (80°-90°)	37.5	0.2			G1/100
BL (0°-30°)	1357.9	6.1	B3/2500		
BM (30°-60°)	6607.1	29.8	B4/8500		
BH (60°-80°)	3077.3	13.9	B4/5000		G2/5000
BVH (80°-90°)	37.5	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-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2678.4	2678.4	2678.4	2678.4	2678.4	2678.4	2678.4	2678.4	2678.4	2678.4	2678.4
2.5°	2688.9	2694.8	2690.1	2688.9	2687.7	2687.7	2687.7	2688.9	2693.6	2697.1	2694.8
5°	2723.0	2727.7	2725.3	2724.1	2723.0	2724.1	2721.8	2720.6	2724.1	2724.1	2723.0
7.5°	2765.2	2771.1	2768.8	2771.1	2772.3	2773.5	2767.6	2762.9	2761.7	2765.2	2762.9
10°	2822.7	2827.4	2828.6	2829.8	2832.1	2830.9	2823.9	2815.7	2814.5	2813.3	2812.1
12.5°	2887.3	2890.8	2892.0	2896.7	2900.2	2901.4	2893.2	2886.1	2874.4	2876.7	2872.0
15°	2960.1	2967.1	2965.9	2973.0	2982.4	2984.7	2976.5	2964.8	2954.2	2948.3	2944.8
17.5°	3049.2	3053.9	3051.6	3058.6	3070.4	3076.3	3069.2	3053.9	3043.4	3030.4	3023.4
20°	3154.9	3163.1	3165.4	3165.4	3176.0	3181.9	3171.3	3166.6	3150.2	3140.8	3135.0
22.5°	3274.6	3278.1	3285.2	3292.2	3302.8	3300.4	3296.9	3289.9	3274.6	3266.4	3257.0
25°	3409.6	3413.1	3430.7	3446.0	3449.5	3447.2	3442.5	3438.9	3424.8	3406.0	3399.0
27.5°	3566.9	3573.9	3597.3	3611.4	3611.4	3612.6	3603.2	3615.0	3584.5	3562.2	3559.8
30°	3764.0	3768.7	3788.7	3802.8	3795.7	3789.9	3787.5	3799.3	3766.4	3726.5	3717.1
32.5°	3958.8	3975.3	3992.9	4023.4	3998.8	3988.2	3985.9	3994.1	3956.5	3911.9	3899.0
35°	4167.8	4179.5	4212.4	4238.2	4215.9	4191.2	4201.8	4227.7	4183.0	4123.2	4120.9
37.5°	4399.0	4409.5	4451.8	4478.8	4462.4	4420.1	4437.7	4468.3	4423.6	4349.7	4334.5
40°	4639.6	4661.9	4714.8	4742.9	4715.9	4659.6	4692.4	4725.3	4685.4	4599.7	4565.7
42.5°	4909.6	4944.8	5021.1	5035.2	4983.5	4907.2	4964.7	5017.5	4989.4	4890.8	4877.9
45°	5225.3	5246.4	5340.3	5370.8	5299.3	5204.1	5275.8	5372.0	5350.9	5237.0	5212.4
47.5°	5578.6	5598.5	5695.9	5741.7	5651.3	5523.4	5652.5	5778.1	5765.2	5643.2	5631.4
50°	5996.4	6001.1	6136.1	6187.7	6097.4	5987.1	6102.1	6258.1	6206.5	6050.4	6048.0
52.5°	6454.1	6460.0	6630.2	6730.0	6679.5	6555.1	6691.2	6786.3	6654.9	6450.6	6435.4
55°	6850.9	6880.2	7112.6	7377.8	7447.1	7356.7	7397.8	7353.2	7029.2	6742.9	6698.3
57.5°	7012.9	7070.3	7423.6	7918.9	8369.6	8503.4	8186.5	7761.6	7178.3	6773.4	6730.0
60°	6617.3	6679.5	7227.6	8167.7	9317.9	9898.9	9008.1	7830.9	6839.1	6269.9	6201.8
62.5°	5299.3	5316.8	6123.1	7582.1	9870.7	11375.4	9354.3	7240.6	5852.1	5078.5	5051.6
64°	3813.4	3994.1	4848.5	6647.8	9629.0	11937.6	9154.8	6413.1	4753.4	3970.6	3843.8
65°	2852.1	2901.4	3908.4	5677.1	9202.9	11895.4	8767.5	5622.0	3936.5	3038.7	2897.9
67.5°	1077.5	1083.4	1442.4	2829.8	6551.6	10234.6	6691.2	3058.6	1658.4	1199.5	1156.1
70°	447.2	455.4	529.3	951.9	2815.7	6571.5	3226.5	1103.2	606.8	491.8	484.8
72.5°	327.5	332.1	354.5	422.5	866.2	2698.3	1061.0	468.3	355.6	318.1	314.5
75°	257.1	259.4	275.9	311.0	403.7	747.6	441.3	321.6	271.2	244.1	241.8
77.5°	196.0	201.9	213.6	237.1	271.2	354.5	292.2	240.6	208.9	186.6	183.1
80°	135.0	142.0	164.4	173.7	181.9	230.0	199.5	181.9	163.2	136.2	127.9
82.5°	83.3	88.0	110.3	118.5	115.0	129.1	127.9	130.3	116.2	84.5	78.6
85°	43.5	45.8	59.8	62.2	57.5	52.9	65.7	76.3	71.6	48.2	47.0
87.5°	9.4	10.6	12.9	11.7	12.9	12.9	16.4	24.7	25.8	16.4	15.3
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)