

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: P648360

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648360
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)
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-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14953 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

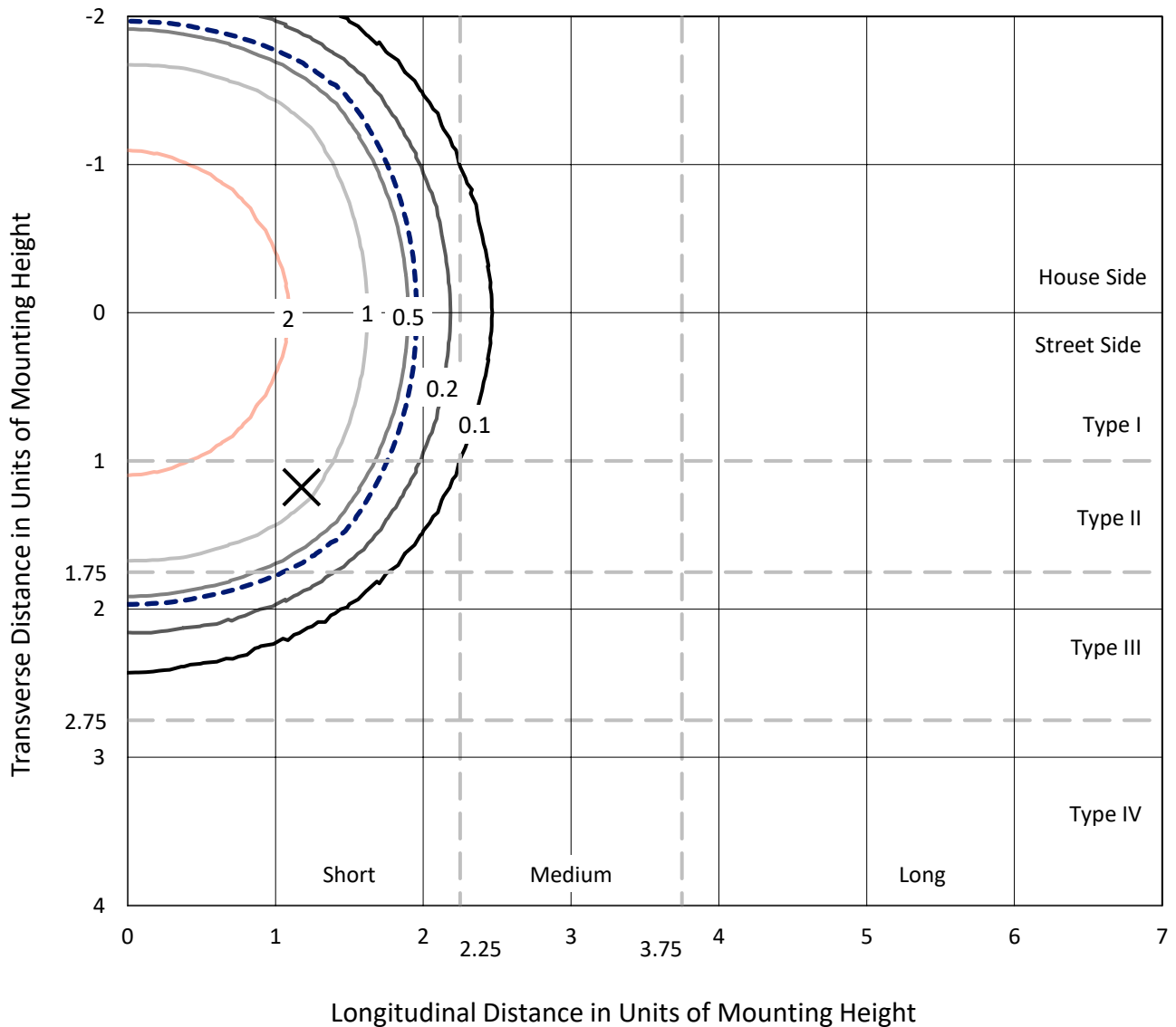
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P648360
 CATALOG NUMBER: GALN-SA4B-835-U-5WQ-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

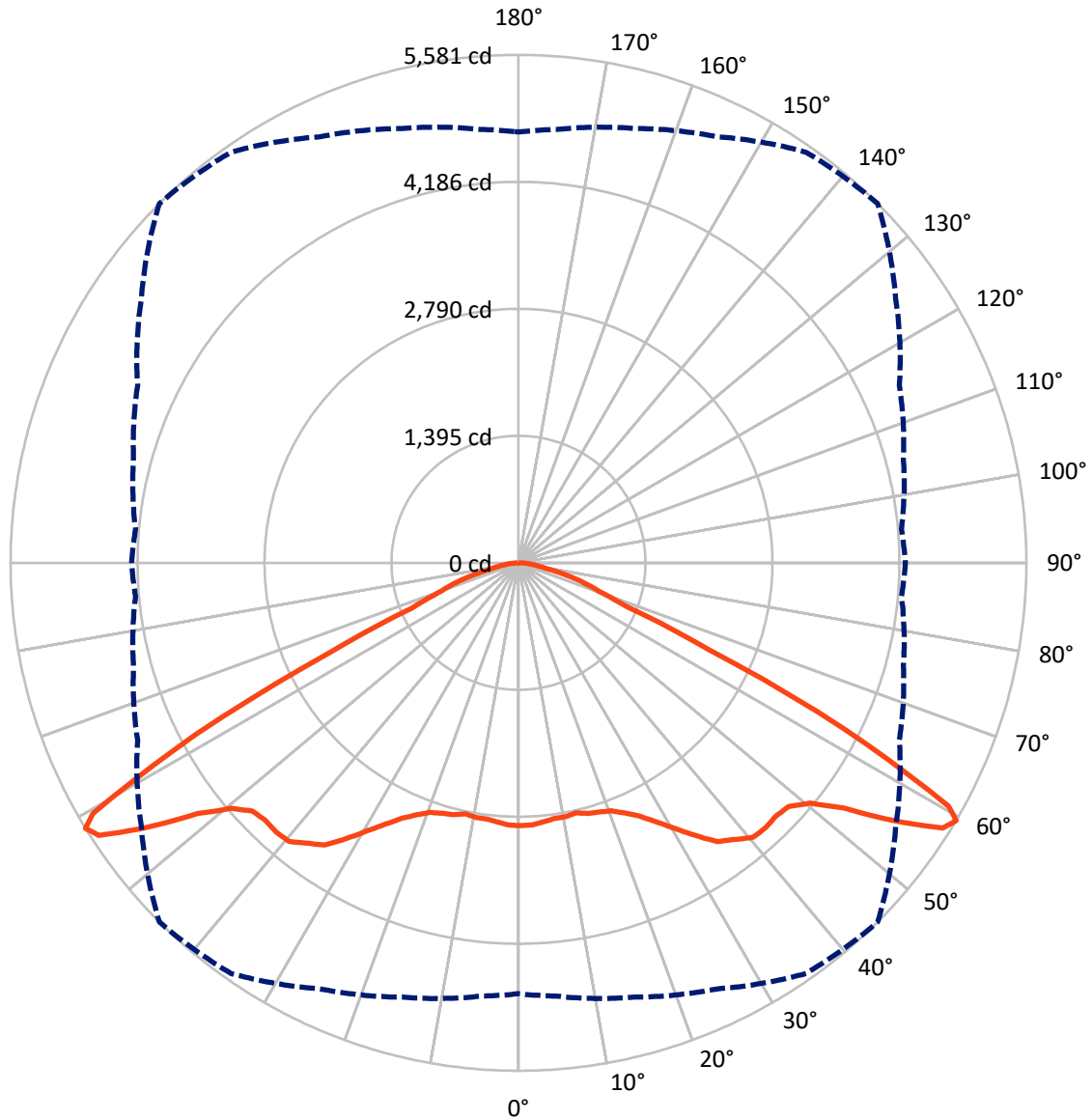
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type V - Short - N/A

REPORT NUMBER: P648360
CATALOG NUMBER: GALN-SA4B-835-U-5WQ-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 59-Deg Vertical

REPORT NUMBER: P648360
 CATALOG NUMBER: GALN-SA4B-835-U-5WQ-GRSWH

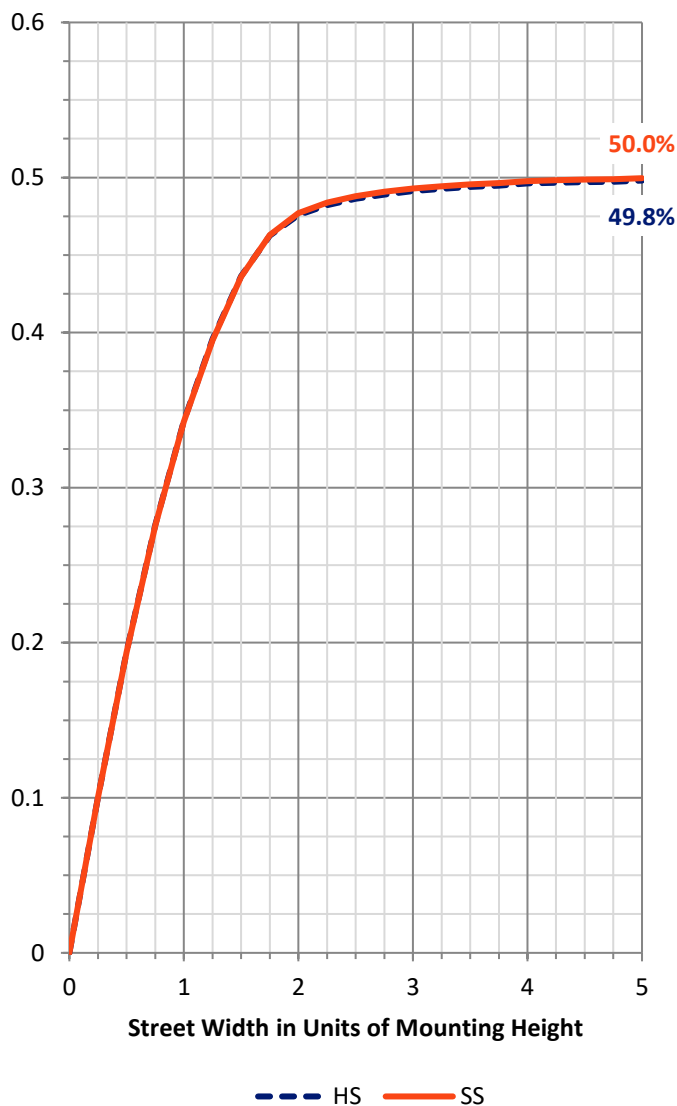
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7476.5	0.0	7476.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7476.5	0.0	7476.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	14953.0	0.0	14953.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.3	1.8
10°-20°	809.7	5.4
20°-30°	1413.8	9.5
30°-40°	2258.0	15.1
40°-50°	3075.8	20.6
50°-60°	4159.3	27.8
60°-70°	2281.0	15.3
70°-80°	583.5	3.9
80°-90°	99.5	0.7
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°	14953.0	100.0
0°-180°	14953.0	100.0

Coefficient of Utilization



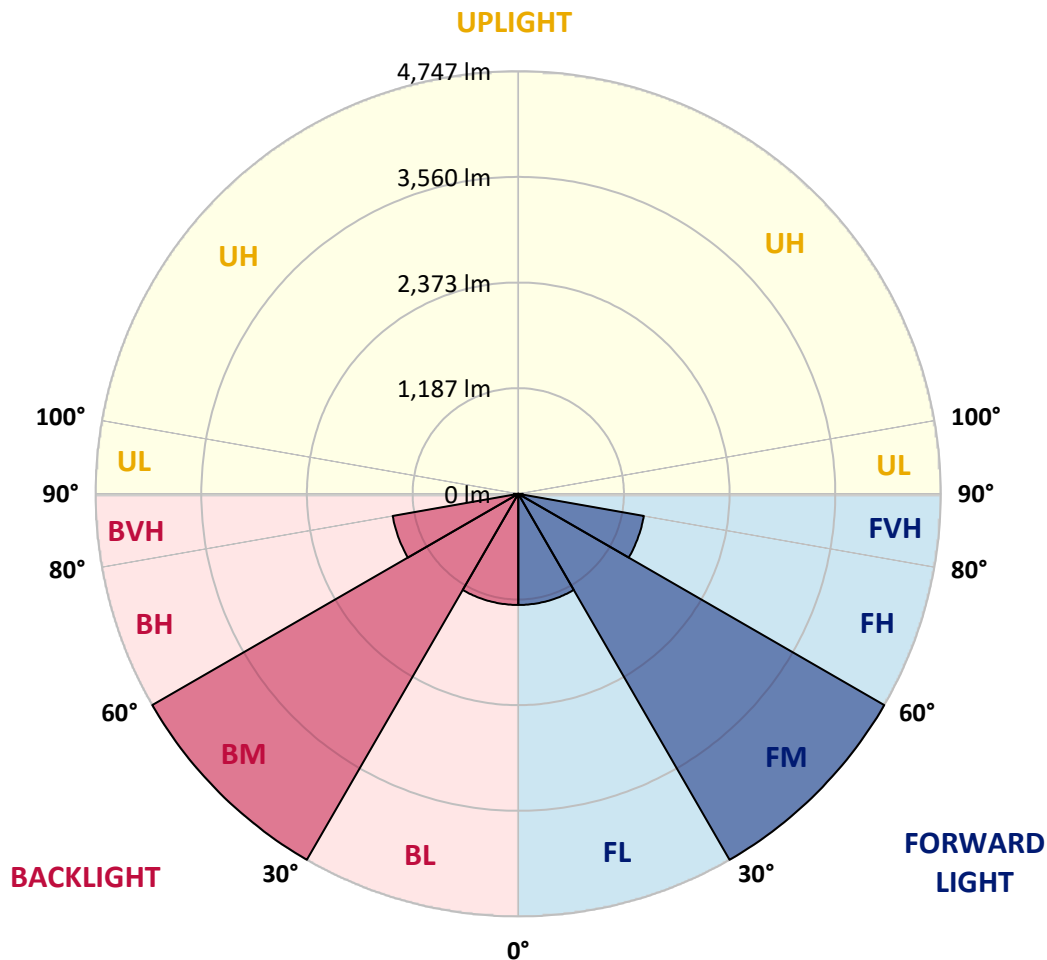
REPORT NUMBER: P648360
 CATALOG NUMBER: GALN-SA4B-835-U-5WQ-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1247.9	8.3			
FM (30°-60°)	4746.6	31.7			
FH (60°-80°)	1432.3	9.6			G1/1800
FVH (80°-90°)	49.8	0.3			G1/100
BL (0°-30°)	1247.9	8.3	B3/2500		
BM (30°-60°)	4746.6	31.7	B3/5000		
BH (60°-80°)	1432.3	9.6	B3/2500		G1/1800
BVH (80°-90°)	49.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





REPORT NUMBER: P648360

CATALOG NUMBER: GALN-SA4B-835-U-5WQ-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2888.2	2888.2	2888.2	2888.2	2888.2	2888.2	2888.2	2888.2	2888.2	2888.2	2888.2
2.5°	2870.9	2892.0	2876.7	2890.1	2888.2	2882.5	2872.8	2867.1	2859.4	2870.9	2851.8
5°	2859.4	2876.7	2894.0	2870.9	2870.9	2859.4	2853.7	2842.2	2842.2	2840.3	2838.4
7.5°	2878.6	2861.4	2853.7	2857.6	2861.4	2836.4	2853.7	2830.7	2811.5	2825.0	2840.3
10°	2861.4	2869.1	2840.3	2853.7	2832.6	2836.4	2825.0	2840.3	2819.2	2819.2	2819.2
12.5°	2878.6	2857.6	2867.1	2857.6	2851.8	2819.2	2834.5	2817.3	2815.4	2834.5	2817.3
15°	2913.1	2878.6	2870.9	2851.8	2857.6	2857.6	2842.2	2844.1	2823.0	2834.5	2838.4
17.5°	2901.6	2882.5	2876.7	2853.7	2872.8	2878.6	2849.9	2830.7	2844.1	2842.2	2840.3
20°	2911.2	2918.9	2913.1	2916.9	2924.6	2909.3	2882.5	2855.6	2838.4	2863.3	2861.4
22.5°	2972.5	2964.8	2961.0	2957.2	2970.6	2986.0	2949.6	2907.4	2907.4	2924.6	2932.3
25°	3022.4	3020.4	3018.5	3035.8	3081.7	3081.7	3035.8	2982.1	2968.7	2980.2	2970.6
27.5°	3095.2	3116.3	3108.6	3139.3	3206.3	3221.7	3160.3	3097.1	3060.7	3047.3	3064.5
30°	3261.9	3237.0	3242.7	3275.4	3334.7	3384.6	3290.6	3223.6	3173.7	3171.9	3179.5
32.5°	3373.1	3392.3	3409.5	3440.2	3534.1	3572.4	3459.3	3350.1	3319.5	3302.1	3307.9
35°	3595.4	3578.2	3574.3	3605.0	3698.9	3762.2	3620.3	3524.5	3484.3	3522.6	3522.6
37.5°	3806.2	3758.3	3721.9	3762.2	3848.4	3856.0	3735.3	3683.5	3662.5	3706.6	3704.6
40°	3905.8	3902.0	3817.7	3840.7	3955.7	3967.2	3854.1	3792.8	3788.9	3846.5	3904.0
42.5°	4009.4	3972.9	3888.6	3904.0	3974.9	3978.7	3871.4	3854.1	3896.3	3951.9	3955.7
45°	4026.6	3996.0	3942.2	3904.0	3955.7	3967.2	3904.0	3915.5	3919.3	3986.3	3986.3
47.5°	4061.1	4057.3	4026.6	3997.8	4007.5	3997.8	3957.6	3974.9	4032.4	4064.9	4049.6
50°	4156.9	4116.7	4147.3	4122.4	4124.4	4151.2	4114.7	4132.0	4120.5	4091.8	4072.6
52.5°	4367.7	4348.5	4375.4	4392.6	4411.8	4473.1	4431.0	4339.0	4252.8	4176.1	4174.2
55°	4676.3	4689.7	4741.5	4829.6	4904.4	5002.1	4798.9	4578.6	4440.5	4319.8	4327.5
57.5°	4967.6	4958.0	5029.0	5230.2	5448.7	5498.5	5099.8	4785.5	4561.3	4484.6	4452.1
59°	4733.8	4779.8	4940.8	5165.0	5508.1	5580.9	5059.6	4616.9	4379.2	4224.0	4250.8
60°	4365.9	4383.1	4526.8	4839.2	5303.0	5427.6	4789.4	4356.2	4040.0	3949.9	3990.2
62.5°	3085.6	3072.2	3175.7	3430.6	3846.5	4015.1	3560.9	3256.2	3056.8	2957.2	2980.2
65°	1640.5	1701.9	1744.1	1903.1	2123.5	2301.7	2113.9	1981.7	1870.5	1788.1	1786.2
67.5°	1107.7	1100.1	1109.7	1146.1	1220.9	1270.7	1266.8	1199.7	1190.2	1174.8	1192.0
70°	933.3	929.5	912.3	912.3	927.6	939.1	952.5	960.2	975.5	994.6	992.8
72.5°	757.0	747.5	735.9	730.2	749.3	755.1	772.4	780.0	793.4	791.5	808.8
75°	500.2	500.2	513.6	529.0	534.7	546.2	548.1	571.1	571.1	575.0	559.6
77.5°	279.8	272.2	281.7	297.1	310.5	331.5	352.7	369.9	379.4	375.6	375.6
80°	162.9	162.9	172.5	189.7	206.9	226.1	241.5	254.9	264.5	260.7	253.0
82.5°	101.6	101.6	111.2	128.4	141.8	153.3	174.4	191.7	203.2	199.4	189.7
85°	51.8	51.8	63.3	74.8	92.0	99.7	97.7	90.0	88.2	78.6	78.6
87.5°	13.4	13.4	19.2	21.1	17.2	19.2	19.2	19.2	19.2	19.2	21.1
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)