

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: P646873

Luminaire Tested: **GALN-SA4C-835-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646873
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-SA4C-835-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22726.6 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

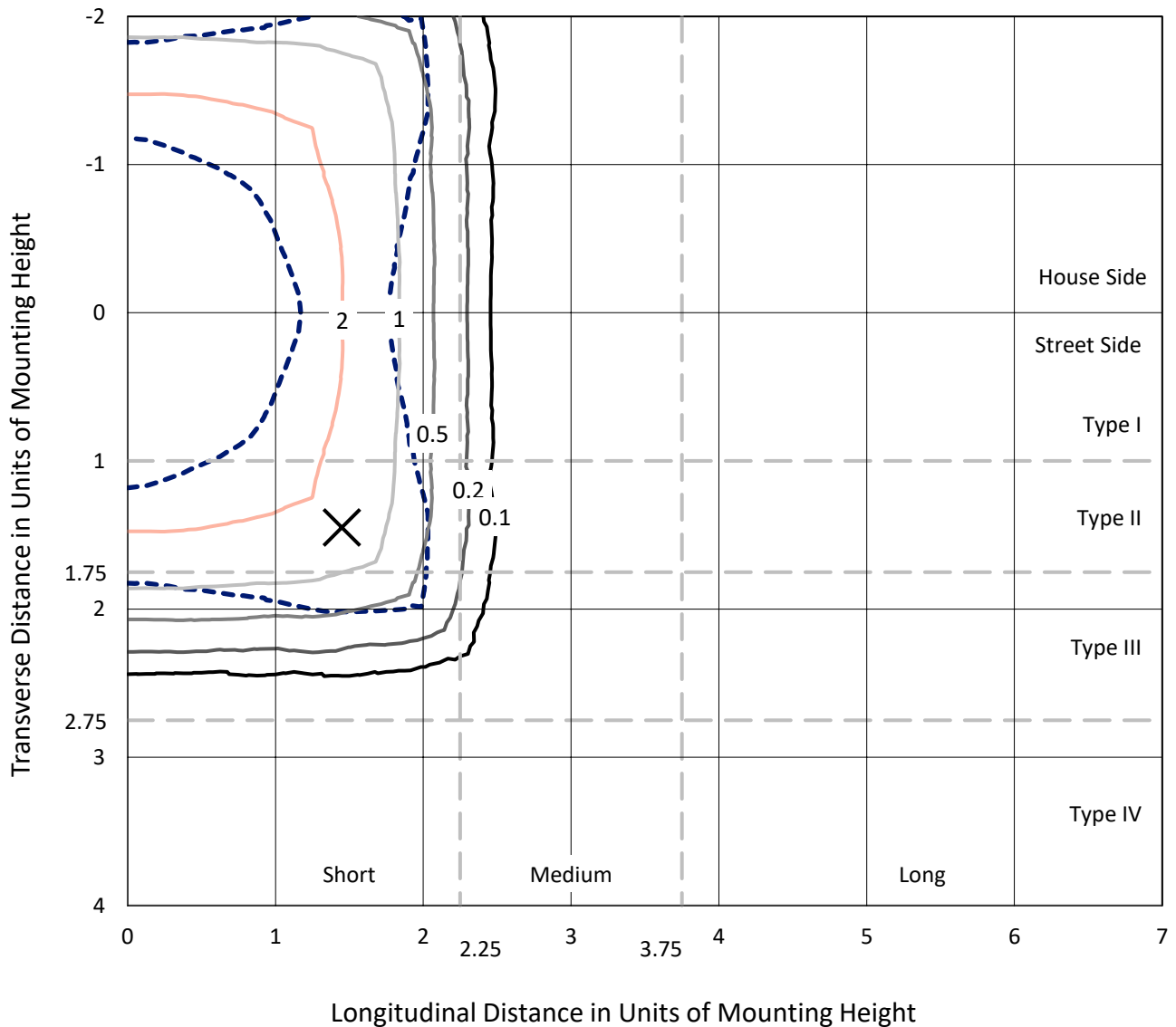
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P646873
 CATALOG NUMBER: GALN-SA4C-835-U-5NQ

Iso-Footcandle Lines of Horizontal Illumination

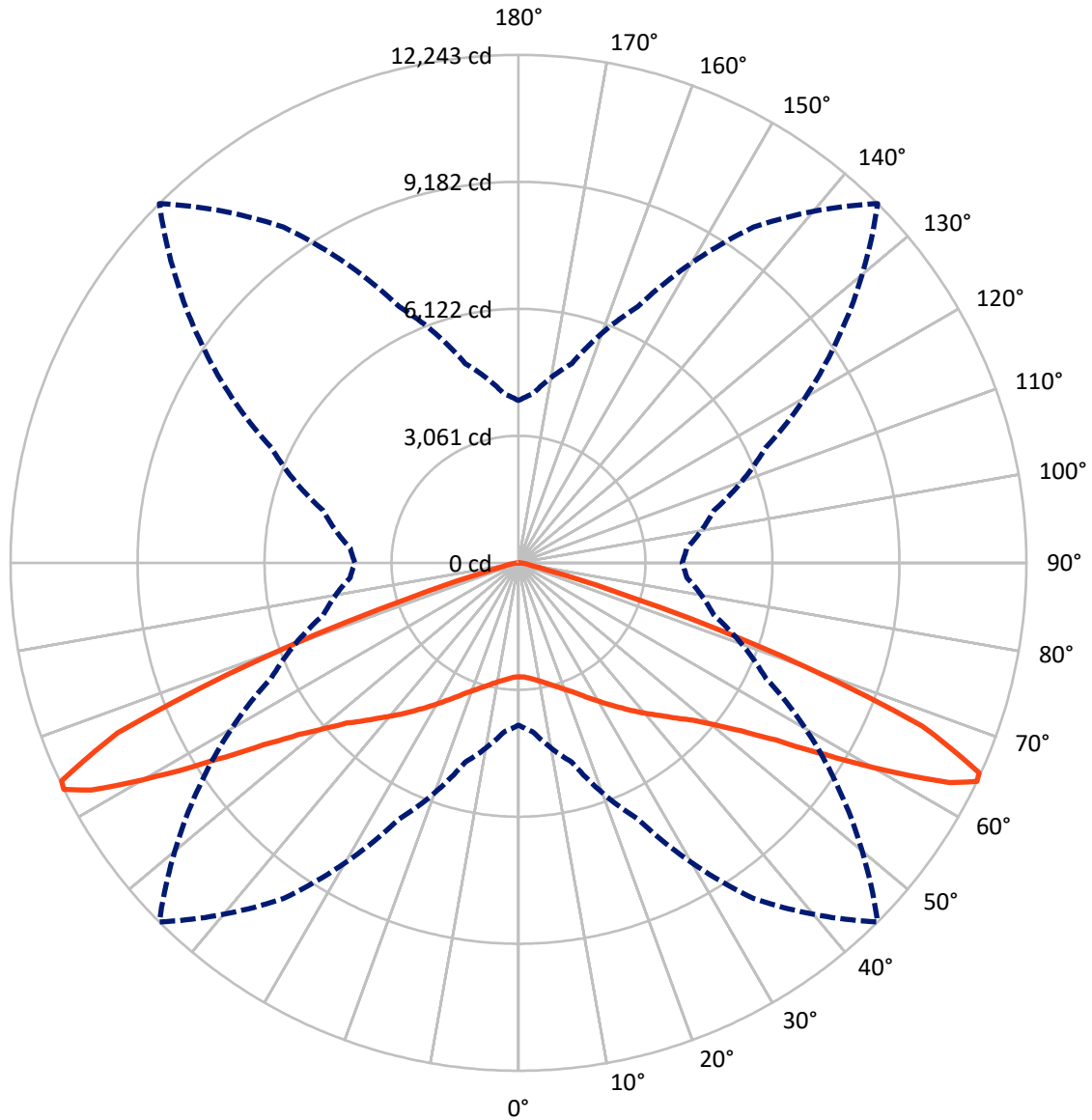
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type V - Short - N/A

REPORT NUMBER: P646873
CATALOG NUMBER: GALN-SA4C-835-U-5NQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P646873
 CATALOG NUMBER: GALN-SA4C-835-U-5NQ

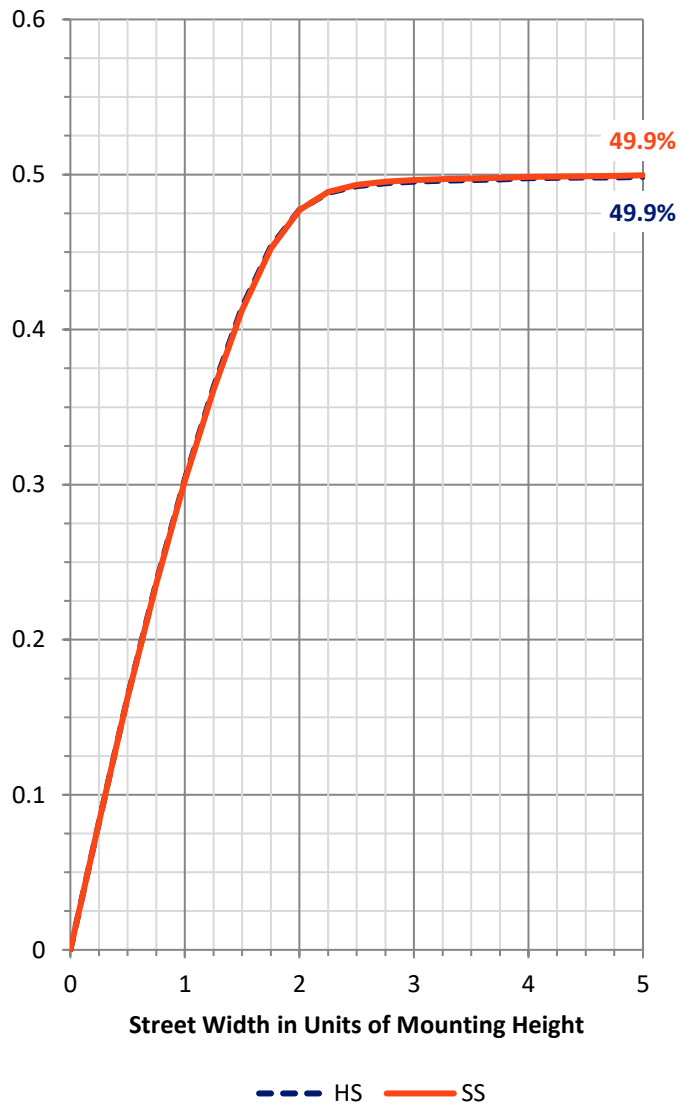
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11363.3	0.0	11363.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11363.3	0.0	11363.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	22726.6	0.0	22726.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.9	1.2
10°-20°	870.5	3.8
20°-30°	1645.0	7.2
30°-40°	2724.2	12.0
40°-50°	4253.0	18.7
50°-60°	6575.0	28.9
60°-70°	5669.6	24.9
70°-80°	642.5	2.8
80°-90°	77.0	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°	22726.6	100.0
0°-180°	22726.6	100.0

Coefficient of Utilization

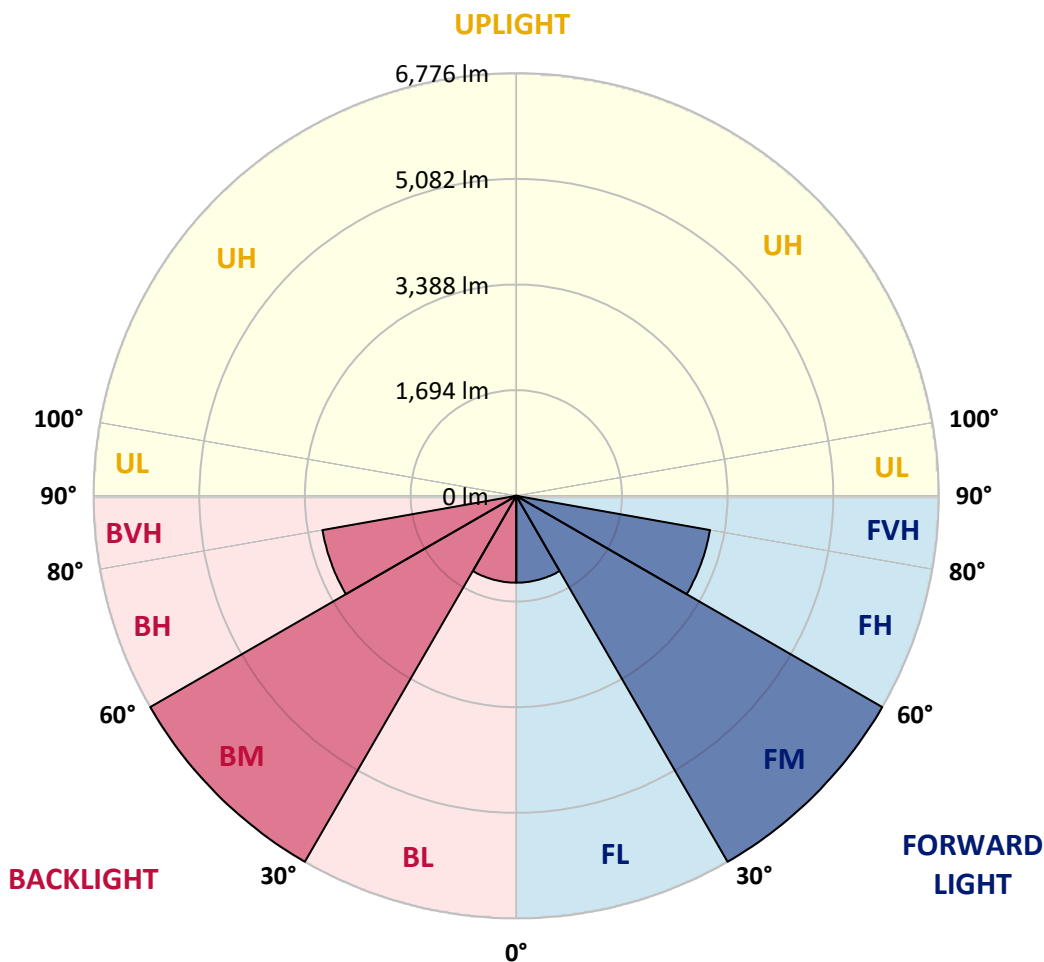


REPORT NUMBER: P646873
 CATALOG NUMBER: GALN-SA4C-835-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1392.7	6.1			
FM (30°-60°)	6776.1	29.8			
FH (60°-80°)	3156.0	13.9			G2/5000
FVH (80°-90°)	38.5	0.2			G1/100
BL (0°-30°)	1392.7	6.1	B3/2500		
BM (30°-60°)	6776.1	29.8	B4/8500		
BH (60°-80°)	3156.0	13.9	B4/5000		G2/5000
BVH (80°-90°)	38.5	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





REPORT NUMBER: P646873
 CATALOG NUMBER: GALN-SA4C-835-U-5NQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2746.9	2746.9	2746.9	2746.9	2746.9	2746.9	2746.9	2746.9	2746.9	2746.9	2746.9
2.5°	2757.7	2763.8	2758.9	2757.7	2756.6	2756.6	2756.6	2757.7	2762.5	2766.2	2763.8
5°	2792.6	2797.4	2795.1	2793.8	2792.6	2793.8	2791.4	2790.2	2793.8	2793.8	2792.6
7.5°	2835.9	2842.0	2839.5	2842.0	2843.2	2844.4	2838.4	2833.5	2832.3	2835.9	2833.5
10°	2894.9	2899.8	2900.9	2902.2	2904.5	2903.4	2896.2	2887.7	2886.5	2885.4	2884.1
12.5°	2961.1	2964.8	2966.0	2970.8	2974.4	2975.6	2967.2	2960.0	2947.9	2950.3	2945.5
15°	3035.8	3043.0	3041.8	3049.0	3058.6	3061.1	3052.6	3040.6	3029.7	3023.7	3020.1
17.5°	3127.3	3132.1	3129.7	3136.9	3148.9	3154.9	3147.7	3132.1	3121.3	3108.0	3100.8
20°	3235.6	3244.0	3246.4	3246.4	3257.3	3263.3	3252.4	3247.6	3230.8	3221.2	3215.2
22.5°	3358.4	3362.0	3369.2	3376.5	3387.3	3384.8	3381.2	3374.0	3358.4	3350.0	3340.4
25°	3496.8	3500.4	3518.5	3534.1	3537.8	3535.3	3530.5	3526.9	3512.5	3493.2	3486.0
27.5°	3658.1	3665.3	3689.4	3703.8	3703.8	3705.1	3695.4	3707.4	3676.2	3653.3	3650.9
30°	3860.3	3865.1	3885.6	3900.0	3892.8	3886.8	3884.4	3896.4	3862.8	3821.8	3812.2
32.5°	4060.2	4077.0	4095.1	4126.3	4101.0	4090.2	4087.8	4096.3	4057.7	4012.0	3998.8
35°	4274.4	4286.5	4320.1	4346.7	4323.7	4298.5	4309.3	4335.8	4290.1	4228.7	4226.2
37.5°	4511.6	4522.4	4565.7	4593.4	4576.6	4533.2	4551.3	4582.6	4536.9	4461.0	4445.3
40°	4758.3	4781.2	4835.3	4864.2	4836.5	4778.8	4812.5	4846.1	4805.3	4717.3	4682.5
42.5°	5035.2	5071.3	5149.5	5164.0	5111.0	5032.7	5091.8	5145.9	5117.0	5015.9	5002.7
45°	5358.9	5380.6	5476.9	5508.2	5434.8	5337.3	5410.7	5509.4	5487.7	5371.0	5345.7
47.5°	5721.3	5741.7	5841.6	5888.6	5795.9	5664.7	5797.1	5925.9	5912.7	5787.5	5775.5
50°	6149.8	6154.6	6293.0	6346.0	6253.4	6140.2	6258.1	6418.3	6365.2	6205.2	6202.8
52.5°	6619.2	6625.3	6799.8	6902.1	6850.4	6722.8	6862.4	6959.9	6825.1	6615.6	6600.0
55°	7026.1	7056.2	7294.5	7566.6	7637.6	7544.9	7587.0	7541.3	7209.1	6915.4	6869.7
57.5°	7192.2	7251.2	7613.5	8121.5	8583.7	8721.0	8396.0	7960.2	7361.9	6946.7	6902.1
60°	6786.6	6850.4	7412.5	8376.7	9556.4	10152.1	9238.5	8031.2	7014.1	6430.3	6360.5
62.5°	5434.8	5452.8	6279.8	7776.1	10123.3	11666.5	9593.6	7425.7	6001.8	5208.5	5180.8
64°	3910.9	4096.3	4972.6	6817.9	9875.4	12243.1	9389.0	6577.1	4875.0	4072.1	3942.2
65°	2925.1	2975.6	4008.4	5822.4	9438.4	12199.7	8991.8	5765.9	4037.3	3116.4	2972.0
67.5°	1105.0	1111.0	1479.4	2902.2	6719.2	10496.4	6862.4	3136.9	1700.8	1230.2	1185.7
70°	458.6	467.1	542.9	976.2	2887.7	6739.6	3309.0	1131.5	622.3	504.3	497.1
72.5°	335.8	340.7	363.5	433.3	888.3	2767.4	1088.1	480.3	364.7	326.2	322.6
75°	263.6	266.0	282.9	319.0	414.1	766.8	452.6	329.8	278.0	250.4	248.0
77.5°	201.0	207.0	219.1	243.1	278.0	363.5	299.7	246.8	214.2	191.4	187.8
80°	138.4	145.6	168.5	178.1	186.6	235.9	204.6	186.6	167.3	139.6	131.2
82.5°	85.4	90.3	113.1	121.6	118.0	132.4	131.2	133.6	119.2	86.7	80.6
85°	44.6	47.0	61.4	63.8	59.0	54.2	67.4	78.2	73.4	49.3	48.2
87.5°	9.6	10.8	13.2	12.1	13.2	13.2	16.8	25.3	26.5	16.8	15.7
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)