

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: P647366

Luminaire Tested: **GALN-SA4D-835-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647366
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-835-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16461 lumens
Efficiency: N/A
Efficacy: 67.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

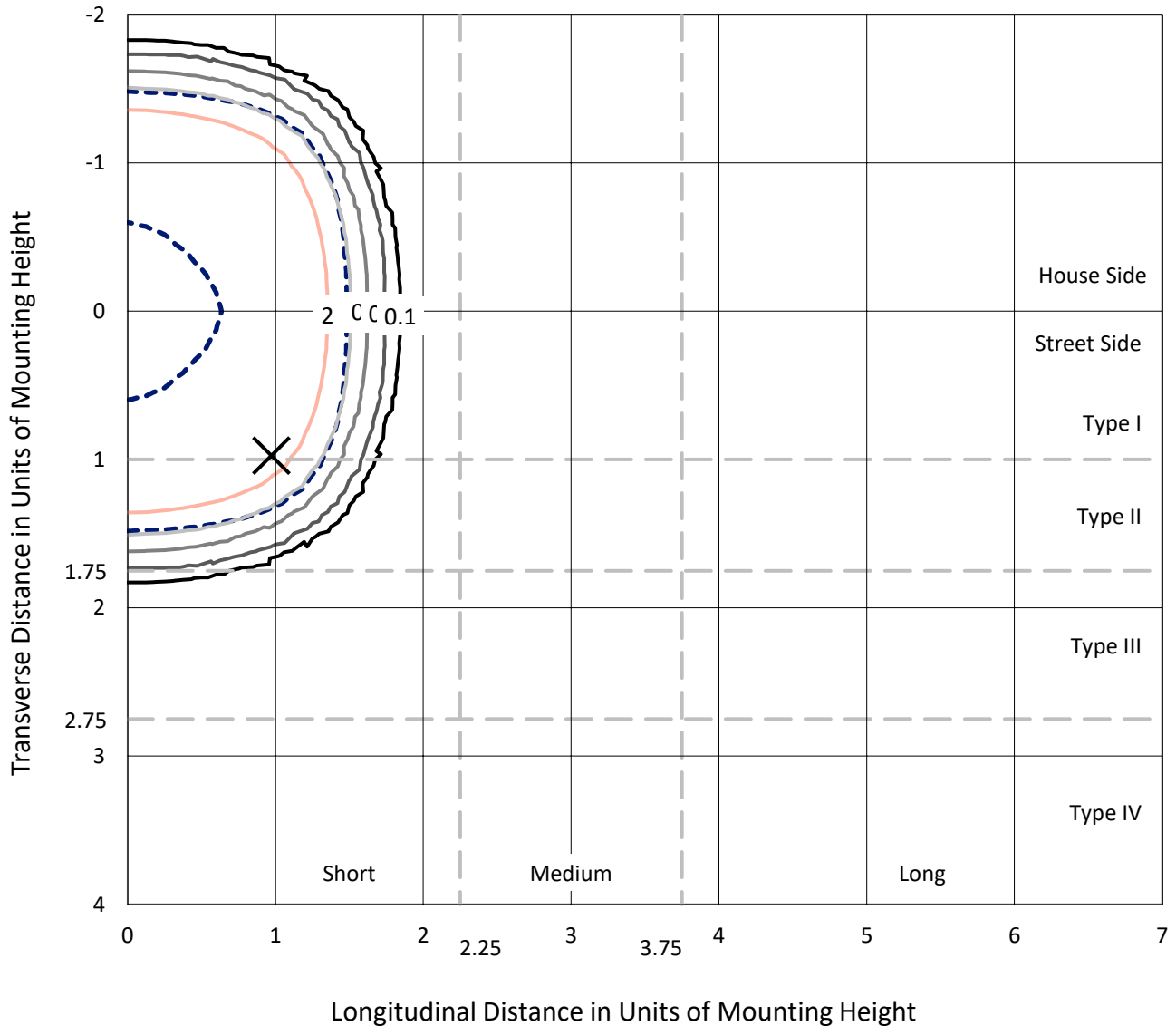
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P647366
 CATALOG NUMBER: GALN-SA4D-835-U-5NQ-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

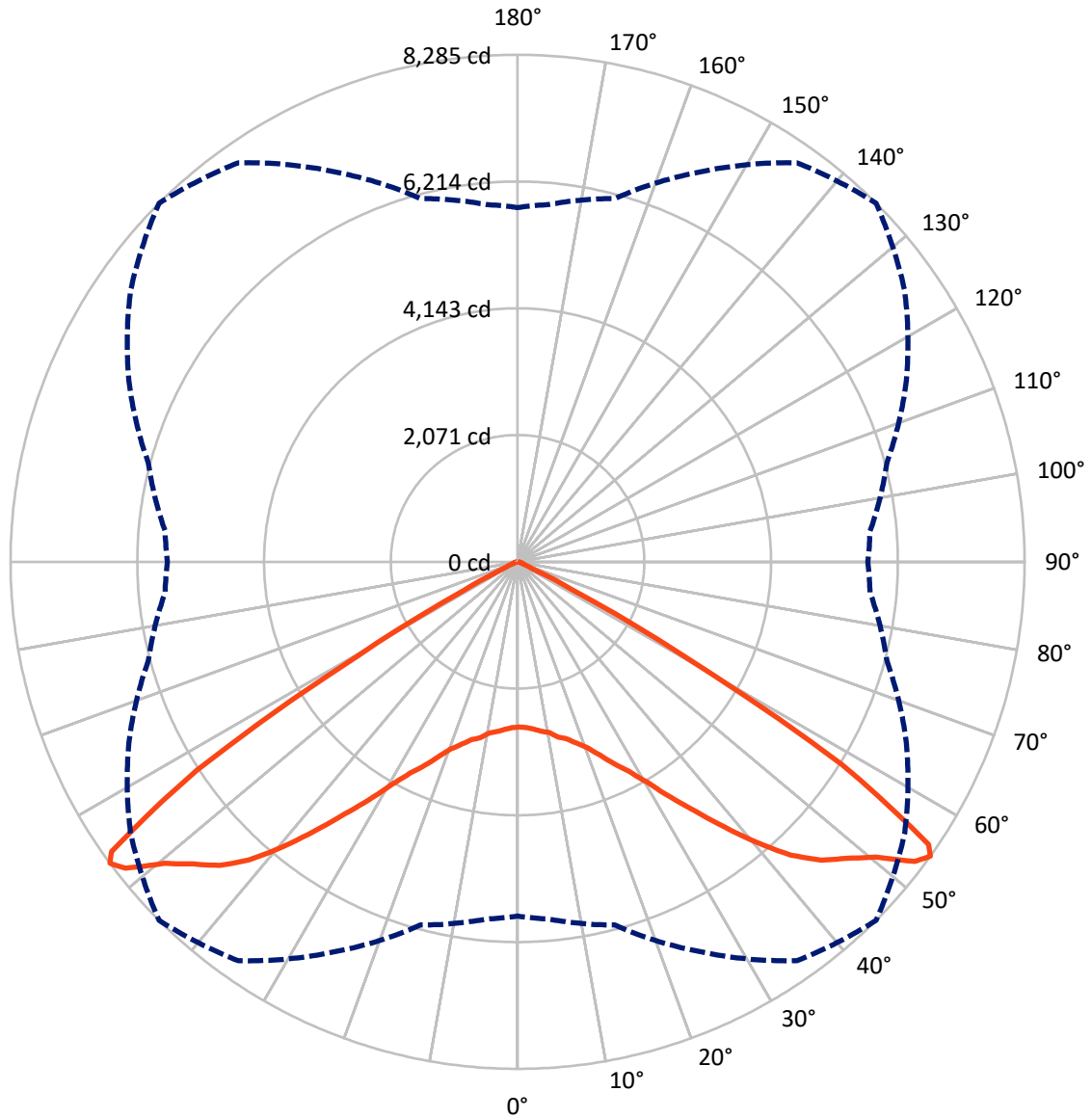
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P647366
CATALOG NUMBER: GALN-SA4D-835-U-5NQ-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

REPORT NUMBER: P647366
 CATALOG NUMBER: GALN-SA4D-835-U-5NQ-GRSBK

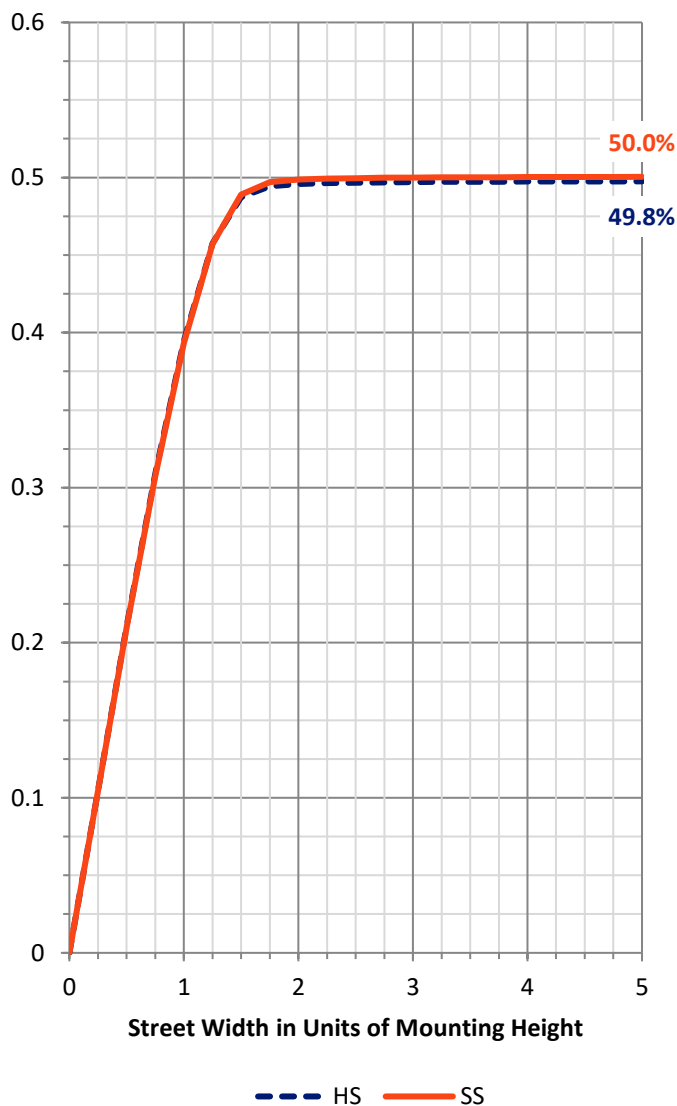
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8230.5	0.0	8230.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8230.5	0.0	8230.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	16461.0	0.0	16461.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.2	1.6
10°-20°	855.5	5.2
20°-30°	1676.7	10.2
30°-40°	3015.1	18.3
40°-50°	5161.3	31.4
50°-60°	4994.1	30.3
60°-70°	427.5	2.6
70°-80°	50.7	0.3
80°-90°	15.9	0.1
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°	16461.0	100.0
0°-180°	16461.0	100.0

Coefficient of Utilization

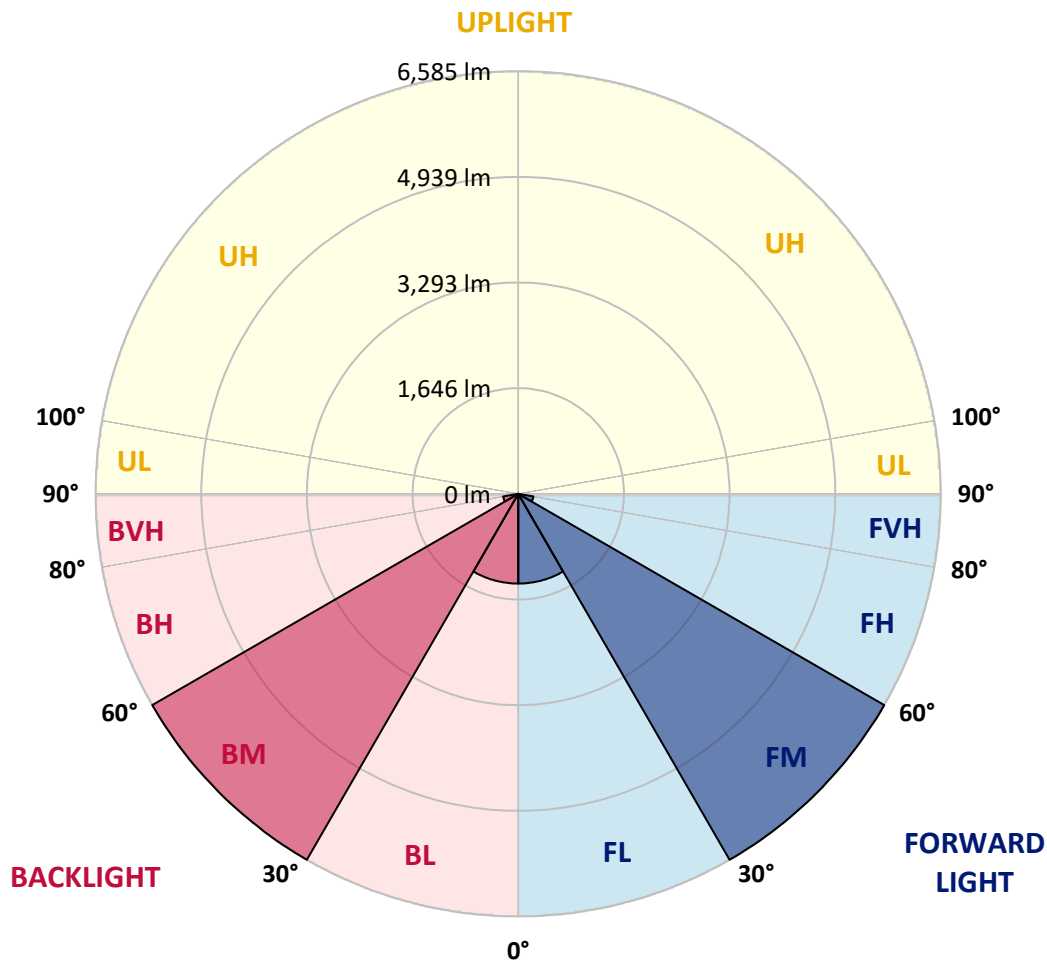


REPORT NUMBER: P647366
 CATALOG NUMBER: GALN-SA4D-835-U-5NQ-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1398.2	8.5			
FM (30°-60°)	6585.3	40.0			
FH (60°-80°)	239.1	1.5			G0/660
FVH (80°-90°)	7.9	0.0			G0/10
BL (0°-30°)	1398.2	8.5	B3/2500		
BM (30°-60°)	6585.3	40.0	B4/8500		
BH (60°-80°)	239.1	1.5	B1/500		G0/660
BVH (80°-90°)	7.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G0
 Type V Short





REPORT NUMBER: P647366

CATALOG NUMBER: GALN-SA4D-835-U-5NQ-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2699.1	2699.1	2699.1	2699.1	2699.1	2699.1	2699.1	2699.1	2699.1	2699.1	2699.1
2.5°	2712.2	2727.8	2717.3	2725.2	2725.2	2712.2	2720.0	2688.7	2709.5	2693.9	2696.5
5°	2753.9	2751.2	2751.2	2753.9	2743.4	2748.6	2738.2	2727.8	2720.0	2709.5	2740.8
7.5°	2806.0	2806.0	2787.8	2793.0	2787.8	2795.5	2774.7	2753.9	2746.1	2738.2	2733.0
10°	2855.5	2850.4	2842.5	2866.0	2847.8	2837.3	2826.9	2813.9	2785.1	2774.7	2764.3
12.5°	2928.6	2926.0	2915.6	2939.0	2928.6	2939.0	2899.9	2866.0	2860.8	2826.9	2845.1
15°	3014.6	3038.1	3019.9	3019.9	3014.6	3001.6	2986.0	2970.3	2923.3	2910.3	2912.9
17.5°	3126.8	3118.9	3121.6	3121.6	3147.7	3113.8	3082.4	3043.3	3019.9	3012.0	2986.0
20°	3233.7	3244.1	3241.5	3259.8	3275.4	3238.9	3205.0	3199.8	3134.6	3145.0	3108.5
22.5°	3421.5	3413.6	3426.6	3439.7	3429.3	3424.1	3392.7	3353.7	3296.3	3270.2	3265.0
25°	3619.7	3606.6	3583.2	3614.4	3630.1	3653.6	3593.6	3572.8	3484.0	3445.0	3447.5
27.5°	3789.2	3807.4	3833.5	3846.6	3885.6	3877.8	3836.1	3768.3	3700.5	3656.1	3627.5
30°	4021.3	4031.7	4076.0	4094.3	4162.1	4180.4	4115.1	4036.9	3917.0	3859.6	3825.7
32.5°	4235.1	4308.1	4305.5	4396.8	4506.3	4582.0	4464.6	4344.6	4224.7	4156.9	4096.9
35°	4582.0	4568.9	4644.5	4741.0	4918.3	5004.4	4876.6	4738.4	4555.9	4446.3	4399.4
37.5°	4905.3	4910.5	5012.2	5166.1	5369.5	5502.5	5390.3	5163.5	4975.7	4834.9	4769.7
40°	5374.7	5385.2	5489.5	5664.1	5893.6	6037.1	5906.7	5677.2	5426.9	5317.4	5317.4
42.5°	5925.0	5969.3	6037.1	6188.4	6394.4	6553.5	6436.1	6256.2	6003.2	5862.4	5883.2
45°	6490.8	6511.7	6556.1	6780.3	6876.9	6955.1	6845.5	6762.1	6592.5	6420.4	6391.8
47.5°	7020.2	7028.1	7158.5	7228.9	7304.5	7239.3	7309.7	7200.2	7009.8	6843.0	6809.0
50°	7255.0	7241.9	7427.1	7640.9	7698.3	7583.5	7523.5	7450.6	7161.1	6960.2	6871.6
52.5°	6571.7	6647.4	6991.6	7586.2	8034.7	8131.1	7781.8	7445.3	6905.5	6514.3	6454.3
54°	5789.3	5859.7	6144.0	7025.5	7959.0	8285.1	7721.8	7007.2	6245.8	5781.5	5721.5
55°	5014.8	4936.6	5453.0	6352.6	7604.4	8149.5	7484.5	6441.3	5570.3	5145.2	5061.8
57.5°	2714.7	2727.8	3163.3	4013.4	5343.4	6248.3	5518.1	4357.6	3291.1	2813.9	2772.1
60°	860.6	881.4	1071.8	1622.1	2553.0	3048.5	2613.0	1749.8	1210.0	970.1	931.0
62.5°	268.6	279.1	305.1	453.7	698.9	998.8	782.4	469.4	349.5	320.8	326.0
65°	164.3	164.3	166.9	177.3	208.6	242.5	234.7	206.0	198.2	193.0	190.3
67.5°	107.0	104.3	109.5	117.4	122.5	125.2	133.0	140.8	138.2	133.0	133.0
70°	65.2	62.6	67.8	78.2	80.8	86.1	93.9	104.3	101.7	96.5	99.1
72.5°	36.5	36.5	39.2	46.9	54.7	60.0	67.8	75.6	78.2	75.6	75.6
75°	13.1	15.7	20.8	28.7	33.9	41.7	49.6	57.4	65.2	60.0	57.4
77.5°	5.2	5.2	10.4	18.2	26.1	33.9	46.9	54.7	60.0	54.7	49.6
80°	2.6	2.6	7.8	15.7	23.5	31.3	39.2	46.9	49.6	44.3	39.2
82.5°	2.6	2.6	7.8	15.7	23.5	28.7	41.7	46.9	52.1	46.9	39.2
85°	0.0	2.6	7.8	15.7	20.8	23.5	23.5	15.7	13.1	7.8	7.8
87.5°	0.0	0.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)