

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: P529599

Luminaire Tested: **GALN-SA4D-735-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529599
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-735-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17109 lumens
Efficiency: N/A
Efficacy: 69.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

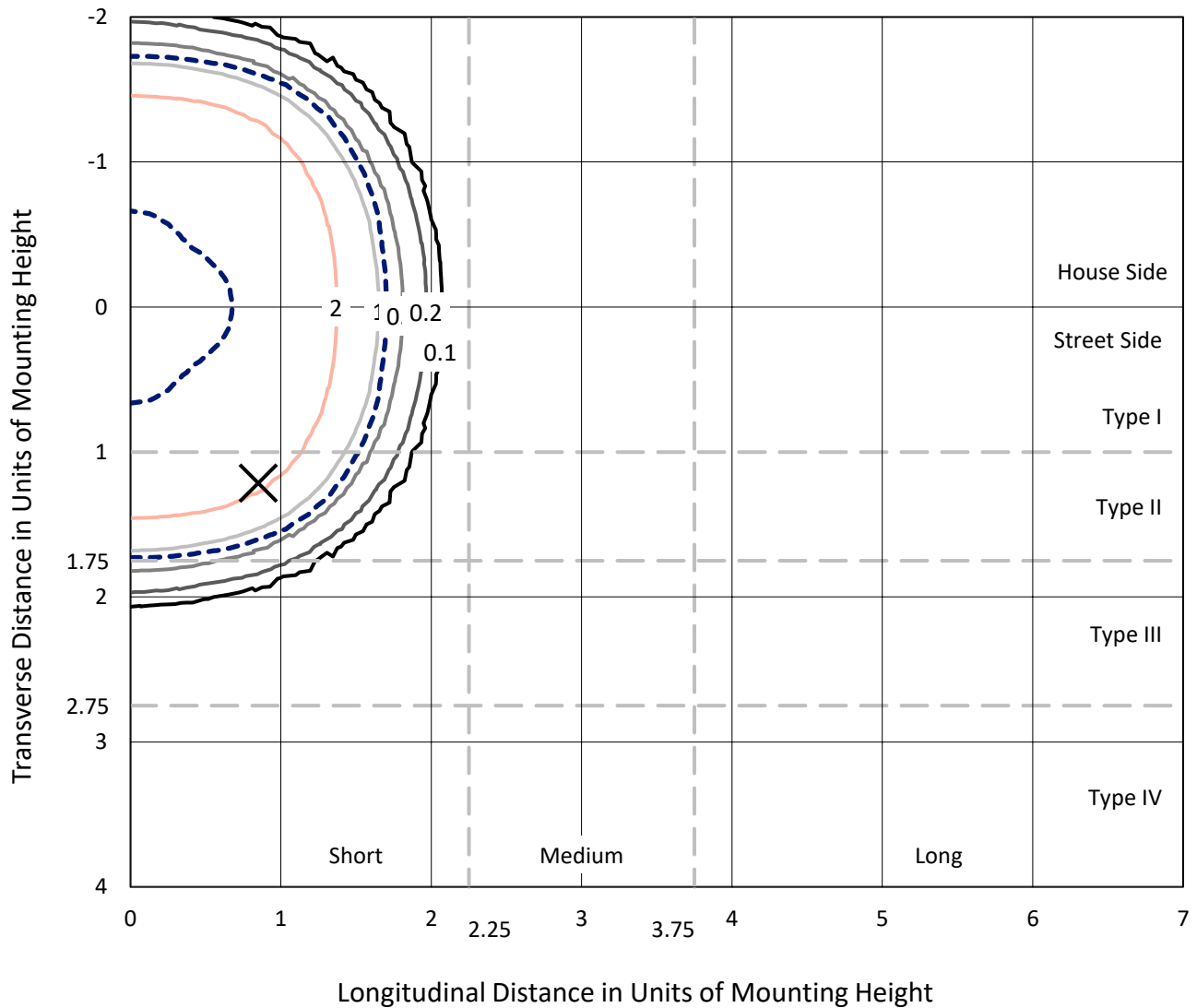
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P529599
 CATALOG NUMBER: GALN-SA4D-735-U-5MQ-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

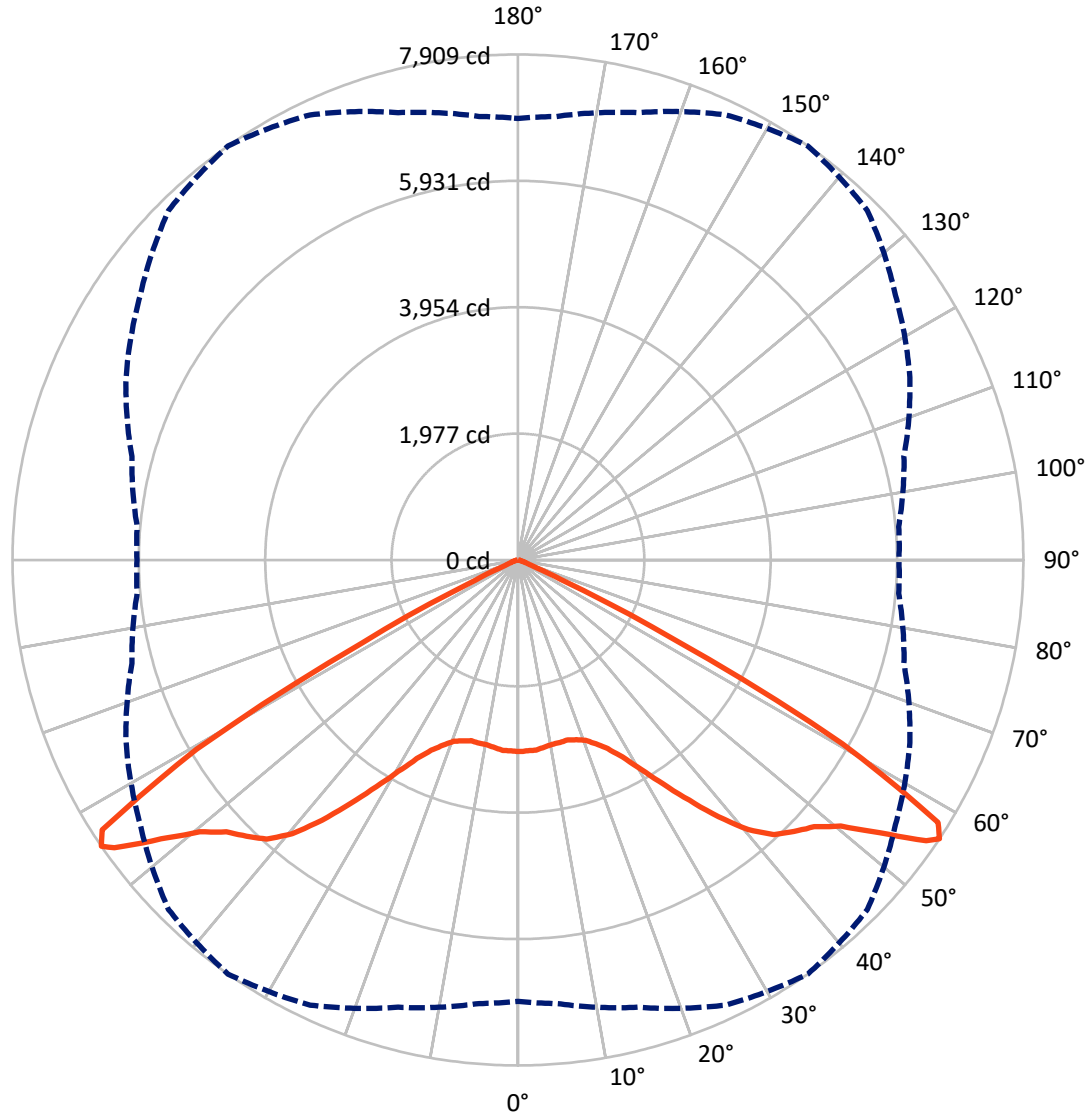
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type V - Short - N/A

REPORT NUMBER: P529599
CATALOG NUMBER: GALN-SA4D-735-U-5MQ-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P529599
 CATALOG NUMBER: GALN-SA4D-735-U-5MQ-GRSBK

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8554.5	0.0	8554.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8554.5	0.0	8554.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	17109.0	0.0	17109.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.8	1.6
10°-20°	822.6	4.8
20°-30°	1489.6	8.7
30°-40°	2762.2	16.1
40°-50°	4534.0	26.5
50°-60°	5841.1	34.1
60°-70°	1287.3	7.5
70°-80°	74.7	0.4
80°-90°	15.7	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°	17109.0	100.0
0°-180°	17109.0	100.0

Coefficient of Utilization

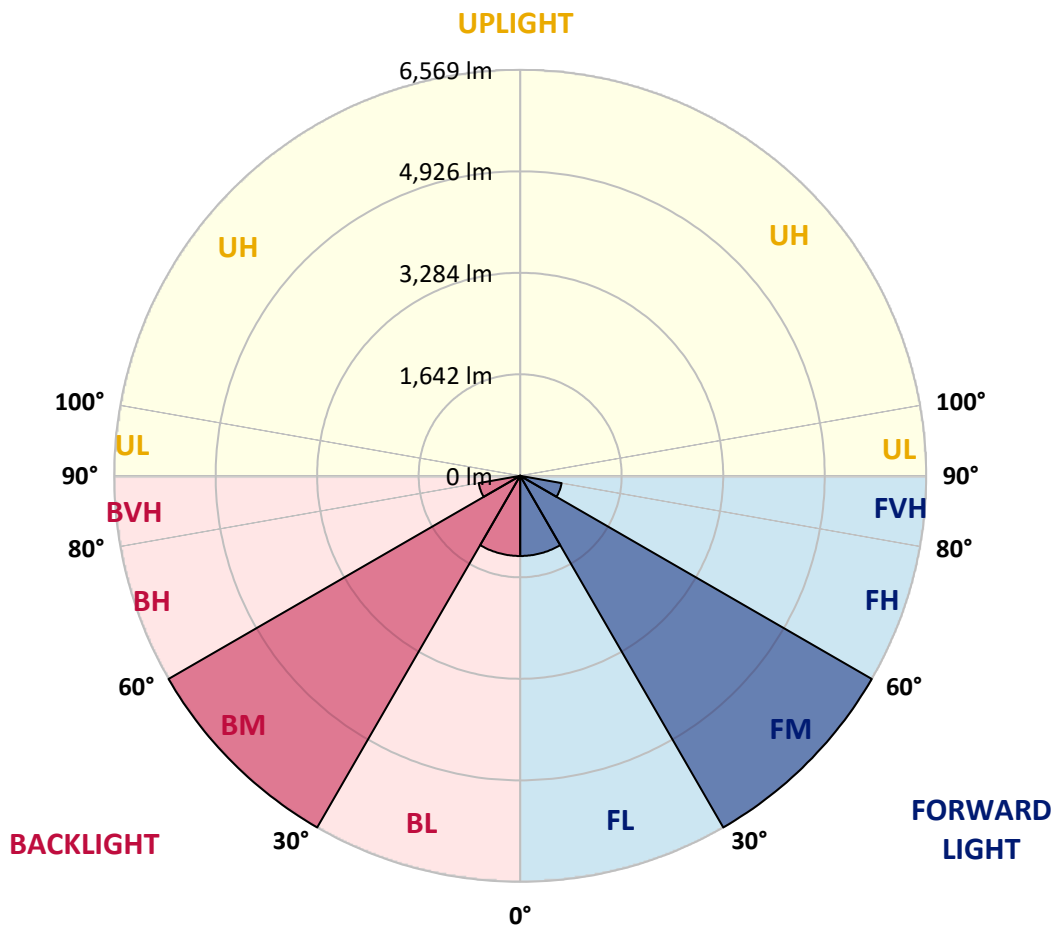


REPORT NUMBER: P529599
 CATALOG NUMBER: GALN-SA4D-735-U-5MQ-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1297.0	7.6			
FM (30°-60°)	6568.7	38.4			
FH (60°-80°)	681.0	4.0			G1/1800
FVH (80°-90°)	7.9	0.0			G0/10
BL (0°-30°)	1297.0	7.6	B3/2500		
BM (30°-60°)	6568.7	38.4	B4/8500		
BH (60°-80°)	681.0	4.0	B2/1000		G1/1800
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-G1
 Type V Short





REPORT NUMBER: P529599

CATALOG NUMBER: GALN-SA4D-735-U-5MQ-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2997.9	2997.9	2997.9	2997.9	2997.9	2997.9	2997.9	2997.9	2997.9	2997.9	2997.9
2.5°	3004.1	3004.1	3007.2	3010.3	2988.6	2979.3	2982.4	2976.2	2973.1	2982.4	2982.4
5°	2994.8	2994.8	2985.5	2988.6	2988.6	2960.7	2960.7	2966.9	2966.9	2948.3	2942.1
7.5°	2970.0	2963.8	2951.4	2966.9	2957.6	2957.6	2935.9	2920.4	2914.2	2926.6	2914.2
10°	2917.3	2920.4	2932.8	2939.0	2932.8	2951.4	2914.2	2892.5	2870.8	2861.5	2861.5
12.5°	2892.5	2911.1	2892.5	2908.0	2929.7	2914.2	2892.5	2877.0	2846.0	2833.6	2833.6
15°	2889.4	2901.8	2908.0	2929.7	2920.4	2926.6	2883.2	2864.6	2818.1	2796.4	2787.1
17.5°	2886.3	2901.8	2911.1	2951.4	2957.6	2960.7	2926.6	2870.8	2830.5	2808.8	2787.1
20°	2920.4	2926.6	2945.2	2985.5	3010.3	3053.7	2991.7	2932.8	2846.0	2821.2	2811.9
22.5°	2963.8	2994.8	3013.4	3056.8	3121.9	3159.1	3078.5	3004.1	2914.2	2883.2	2846.0
25°	3103.3	3097.1	3128.1	3218.0	3270.7	3298.6	3233.5	3125.0	3007.2	2970.0	2976.2
27.5°	3276.9	3283.1	3311.0	3410.2	3487.7	3531.1	3453.6	3311.0	3196.3	3134.3	3128.1
30°	3503.2	3497.0	3528.0	3661.3	3800.8	3865.9	3729.5	3562.1	3450.5	3369.9	3388.5
32.5°	3741.9	3745.0	3831.8	3952.7	4179.0	4306.1	4086.0	3881.4	3714.0	3658.2	3630.3
35°	4095.3	4110.8	4179.0	4365.0	4616.2	4780.5	4538.6	4293.7	4101.5	3999.2	4011.6
37.5°	4532.4	4516.9	4631.7	4833.2	5096.7	5217.6	5013.0	4734.0	4538.6	4470.4	4513.8
40°	4997.5	5013.0	5071.9	5254.8	5549.3	5629.9	5326.1	5174.2	5003.7	4969.6	5022.3
42.5°	5462.5	5453.2	5496.6	5660.9	5874.8	5819.0	5639.2	5549.3	5428.4	5360.2	5431.5
45°	5803.5	5788.0	5868.6	5980.2	6057.7	5952.3	5871.7	5840.7	5778.7	5704.3	5769.4
47.5°	6135.2	6122.8	6200.3	6231.3	6237.5	6098.0	6113.5	6169.3	6014.3	5859.3	5933.7
50°	6417.4	6395.7	6491.8	6560.0	6544.5	6321.2	6377.1	6321.2	6079.4	5896.5	5868.6
52.5°	6888.6	6897.9	7000.2	7124.2	7087.0	6901.0	6820.4	6566.2	6256.1	6091.8	5995.7
55°	7186.2	7139.7	7316.4	7710.1	7753.5	7561.3	7204.8	6829.7	6364.6	6163.1	6138.3
56°	6907.2	6966.1	7245.1	7685.3	7908.5	7731.8	7214.1	6764.6	6253.0	5980.2	5961.6
57.5°	6197.2	6166.2	6544.5	7145.9	7753.5	7679.1	6959.9	6299.5	5704.3	5397.4	5360.2
60°	3856.6	3946.5	4278.2	5022.3	5834.5	5871.7	5158.7	4591.4	3896.9	3624.1	3689.2
62.5°	1509.8	1432.3	1640.0	2194.9	2753.0	2877.0	2607.2	2167.0	1779.5	1509.8	1491.2
65°	350.3	341.0	384.4	530.1	740.9	858.7	815.3	585.9	430.9	409.2	378.2
67.5°	198.4	198.4	189.1	189.1	207.7	220.1	210.8	207.7	217.0	226.3	223.2
70°	139.5	136.4	130.2	133.3	127.1	127.1	136.4	151.9	164.3	164.3	167.4
72.5°	83.7	83.7	83.7	93.0	93.0	93.0	102.3	114.7	117.8	114.7	111.6
75°	37.2	37.2	43.4	52.7	58.9	62.0	71.3	77.5	83.7	77.5	71.3
77.5°	9.3	9.3	15.5	21.7	27.9	34.1	46.5	55.8	58.9	55.8	46.5
80°	3.1	3.1	6.2	15.5	27.9	34.1	46.5	49.6	52.7	46.5	37.2
82.5°	3.1	3.1	6.2	15.5	21.7	27.9	37.2	43.4	46.5	40.3	37.2
85°	0.0	3.1	6.2	12.4	18.6	24.8	24.8	18.6	15.5	9.3	12.4
87.5°	0.0	0.0	3.1	3.1	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)