

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: P527730

Luminaire Tested: **GALN-SA2D-735-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527730
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-735-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13053 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

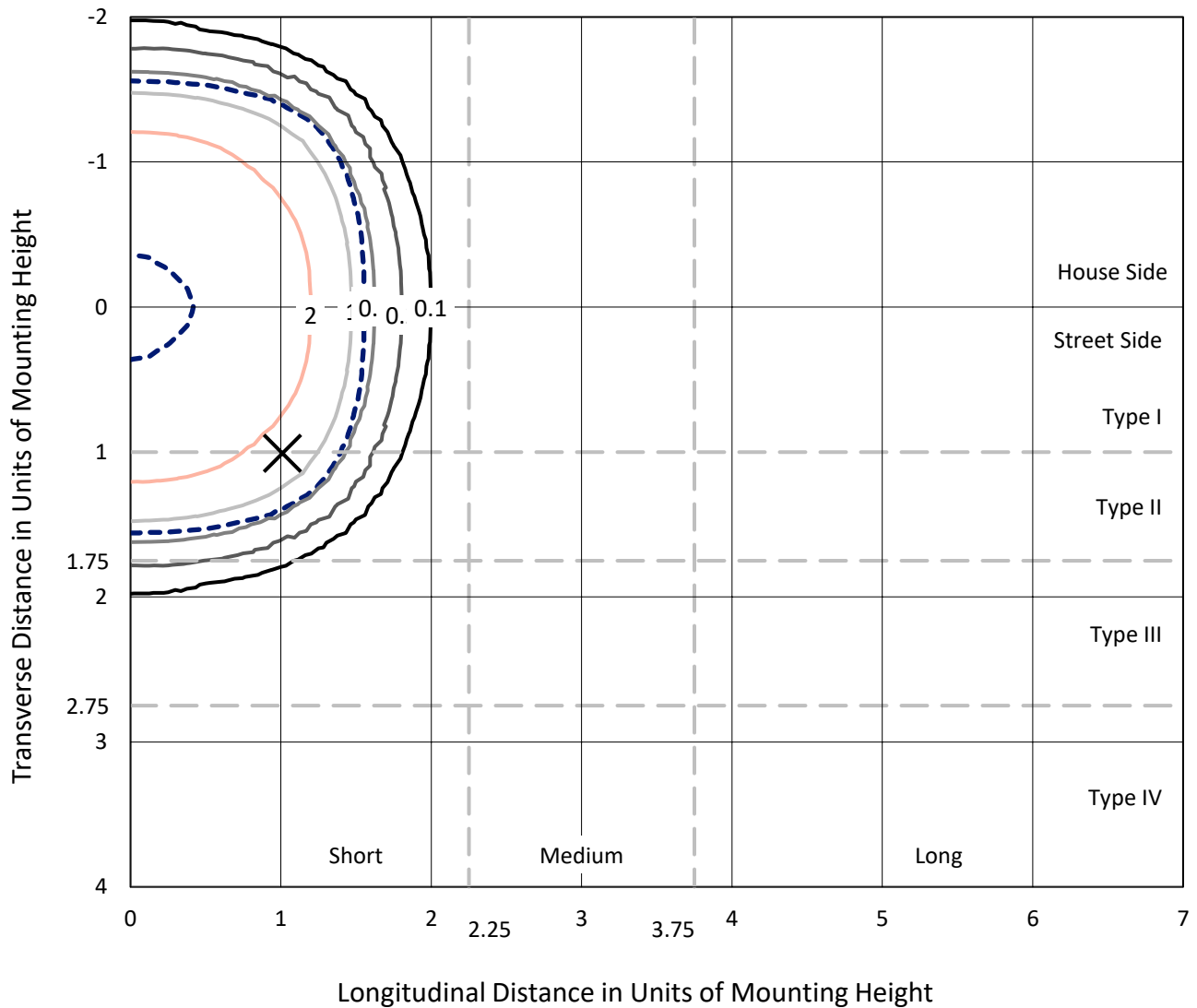
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P527730
 CATALOG NUMBER: GALN-SA2D-735-U-5NQ-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

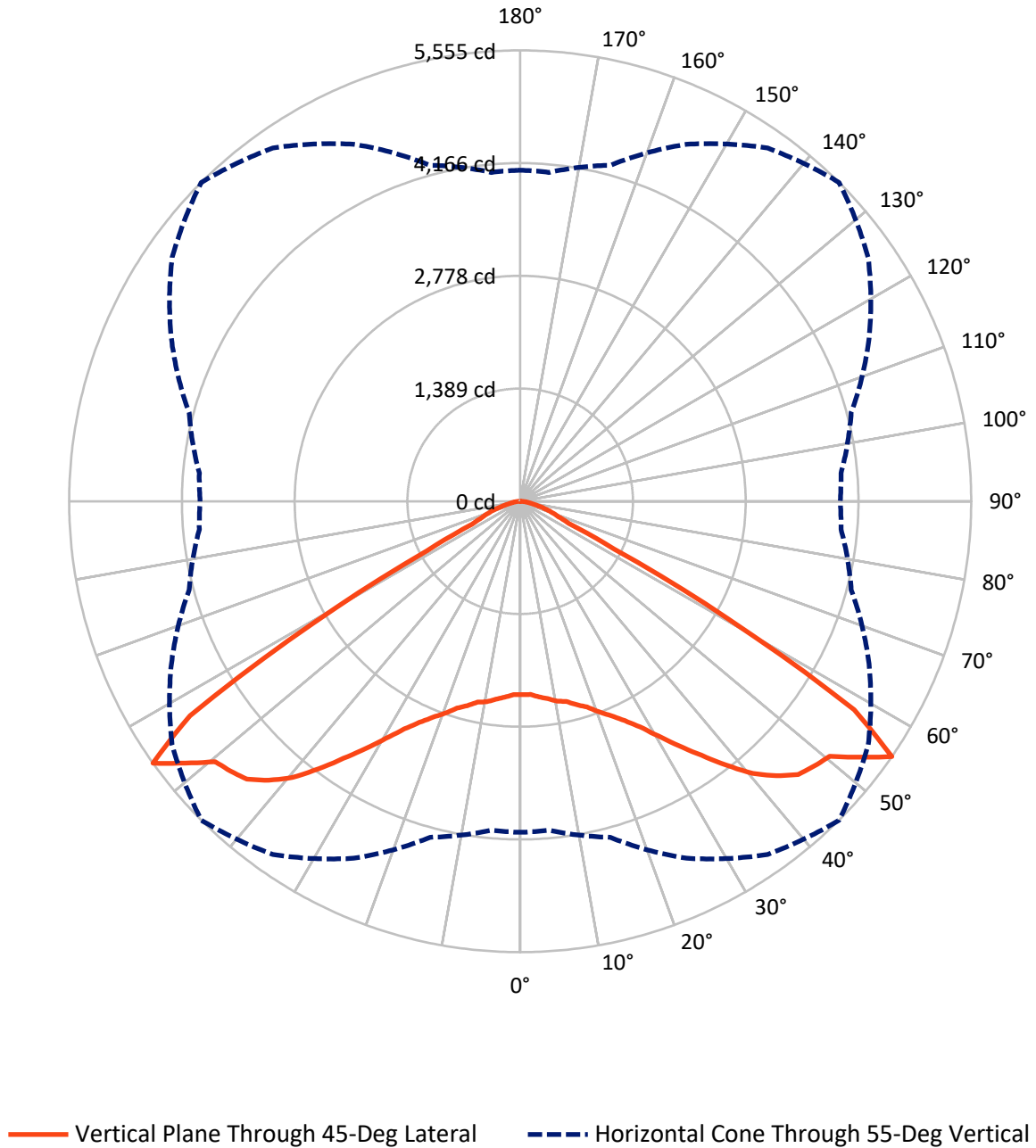
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type V - Short - N/A

REPORT NUMBER: P527730
CATALOG NUMBER: GALN-SA2D-735-U-5NQ-GRSWH

Luminous Intensity Polar Plot



REPORT NUMBER: P527730
 CATALOG NUMBER: GALN-SA2D-735-U-5NQ-GRSWH

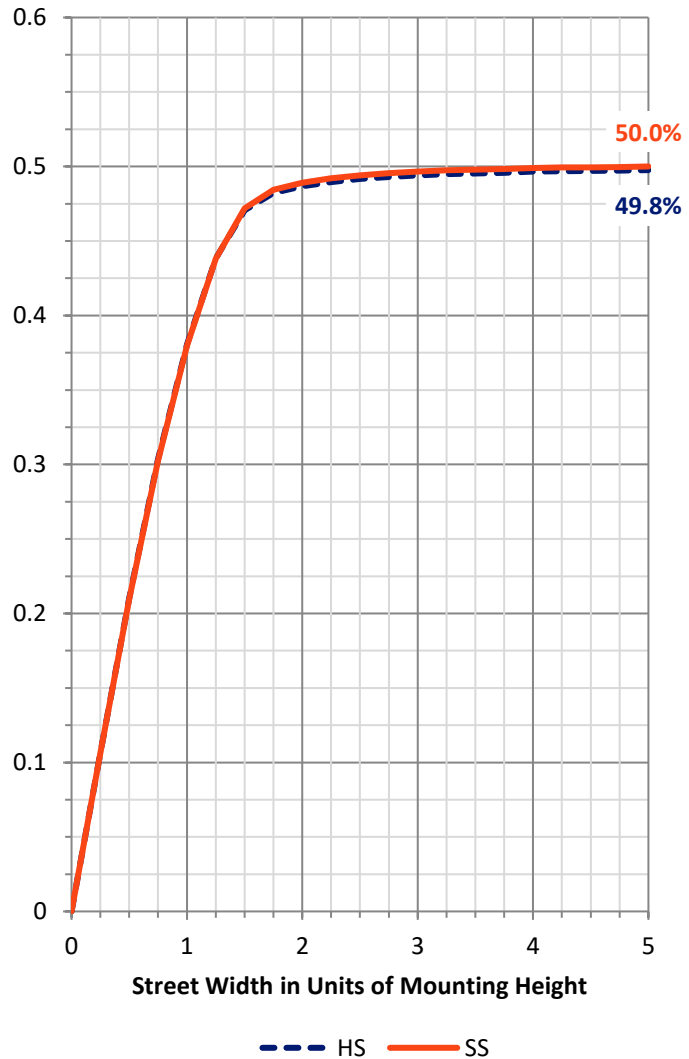
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6526.5	0.0	6526.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6526.5	0.0	6526.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	13053.0	0.0	13053.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.8	1.8
10°-20°	737.7	5.7
20°-30°	1375.6	10.5
30°-40°	2303.2	17.6
40°-50°	3583.9	27.5
50°-60°	3721.2	28.5
60°-70°	789.1	6.0
70°-80°	259.9	2.0
80°-90°	49.5	0.4
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°	13053.0	100.0
0°-180°	13053.0	100.0

Coefficient of Utilization



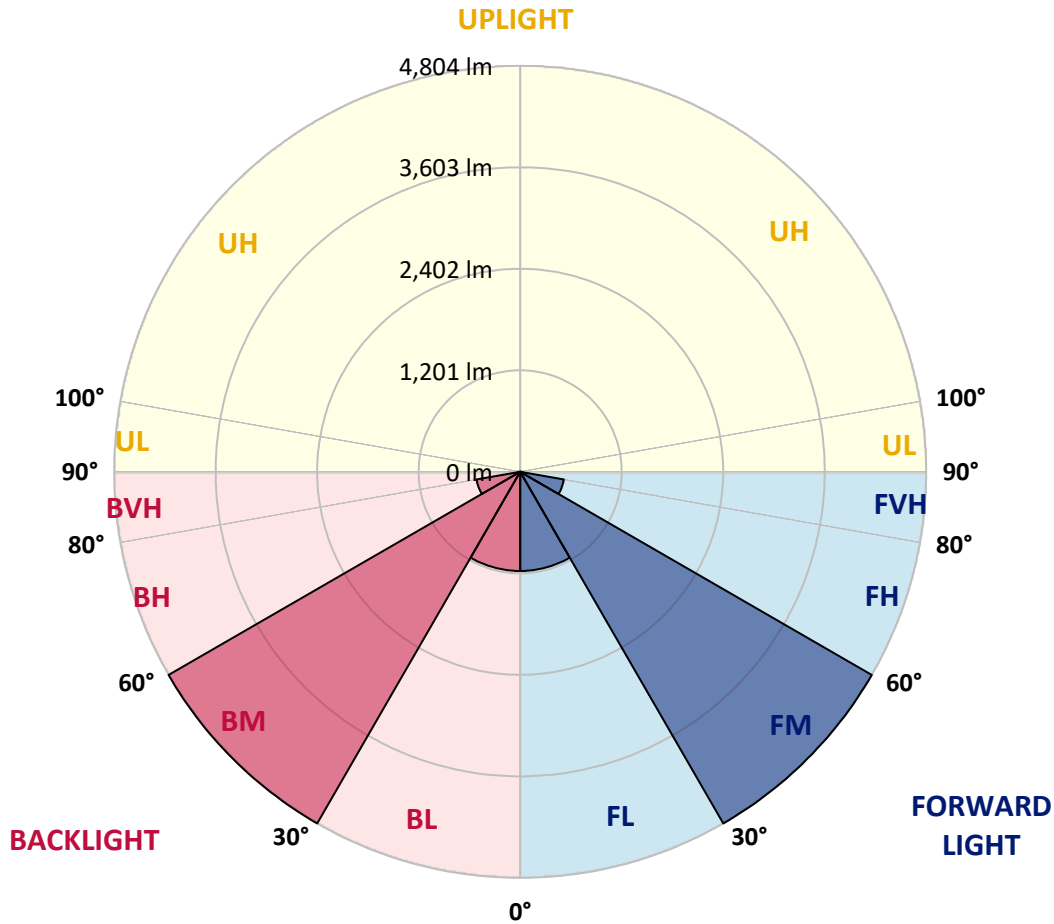
REPORT NUMBER: P527730
 CATALOG NUMBER: GALN-SA2D-735-U-5NQ-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1173.1	9.0			
FM (30°-60°)	4804.2	36.8			
FH (60°-80°)	524.5	4.0			G0/660
FVH (80°-90°)	24.8	0.2			G1/100
BL (0°-30°)	1173.1	9.0	B3/2500		
BM (30°-60°)	4804.2	36.8	B3/5000		
BH (60°-80°)	524.5	4.0	B2/1000		G0/660
BVH (80°-90°)	24.8	0.2			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: P527730

CATALOG NUMBER: GALN-SA2D-735-U-5NQ-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2383.3	2383.3	2383.3	2383.3	2383.3	2383.3	2383.3	2383.3	2383.3	2383.3	2383.3
2.5°	2411.7	2400.6	2381.7	2395.9	2406.9	2383.3	2392.7	2397.5	2394.3	2381.7	2386.4
5°	2446.4	2440.1	2424.3	2435.3	2421.1	2421.1	2411.7	2399.1	2418.0	2414.8	2422.7
7.5°	2446.4	2438.5	2470.0	2449.5	2455.8	2455.8	2440.1	2427.4	2436.9	2422.7	2414.8
10°	2495.3	2506.3	2492.1	2496.8	2493.7	2504.7	2481.1	2473.2	2465.3	2460.6	2451.1
12.5°	2553.6	2545.7	2550.5	2547.3	2558.4	2530.0	2515.8	2498.4	2512.6	2492.1	2506.3
15°	2600.9	2596.2	2600.9	2613.6	2602.5	2600.9	2575.7	2558.4	2536.3	2541.0	2518.9
17.5°	2665.6	2660.9	2662.5	2673.5	2671.9	2664.0	2645.1	2612.0	2604.1	2591.5	2577.3
20°	2761.8	2753.9	2750.8	2755.5	2763.4	2769.7	2731.9	2719.2	2692.4	2671.9	2648.3
22.5°	2843.9	2840.7	2853.3	2832.8	2850.2	2869.1	2832.8	2826.5	2760.3	2749.2	2724.0
25°	2957.4	2952.7	2944.8	2974.8	2995.3	2993.7	2959.0	2924.3	2873.8	2861.2	2861.2
27.5°	3077.3	3050.5	3091.5	3099.4	3135.6	3146.7	3116.7	3066.2	3018.9	2992.1	2998.4
30°	3227.1	3201.9	3211.4	3268.1	3315.5	3356.5	3280.8	3206.6	3140.4	3093.1	3085.2
32.5°	3377.0	3351.7	3380.1	3435.3	3530.0	3591.5	3517.4	3388.0	3310.7	3241.3	3255.5
35°	3498.4	3517.4	3563.1	3646.7	3744.5	3843.9	3725.6	3626.2	3515.8	3438.5	3449.5
37.5°	3694.0	3752.4	3788.6	3884.9	4023.7	4126.2	4003.2	3873.8	3755.5	3654.6	3619.9
40°	3949.5	3989.0	4030.0	4143.5	4307.6	4410.1	4293.4	4124.6	4007.9	3903.8	3899.1
42.5°	4230.3	4268.1	4310.7	4449.5	4547.3	4624.6	4517.4	4427.4	4298.1	4216.1	4211.4
45°	4556.8	4530.0	4577.3	4668.8	4750.8	4801.3	4731.9	4687.7	4594.6	4518.9	4511.0
47.5°	4774.5	4750.8	4836.0	4918.0	4930.6	4875.4	4889.6	4930.6	4832.8	4708.2	4747.6
50°	4900.6	4900.6	4957.4	5033.1	5009.5	4938.5	5050.5	5053.6	4955.8	4845.4	4845.4
52.5°	4681.4	4730.3	4891.2	5138.8	5217.7	5238.2	5212.9	5105.7	4850.2	4624.6	4613.6
55°	4078.9	4067.8	4285.5	4853.3	5312.3	5555.2	5233.4	4739.8	4220.8	3966.9	3941.6
57.5°	2653.0	2665.6	2990.5	3569.4	4397.5	4850.2	4307.6	3613.6	2990.5	2640.4	2673.5
60°	1194.0	1236.6	1433.8	1865.9	2577.3	2946.4	2583.6	1960.6	1504.7	1306.0	1323.3
62.5°	686.1	694.0	701.9	832.8	1097.8	1298.1	1140.4	880.1	776.0	741.3	741.3
65°	578.9	574.1	575.7	586.8	615.1	656.2	638.8	615.1	618.3	615.1	610.4
67.5°	492.1	498.4	493.7	501.6	503.2	509.5	520.5	530.0	531.5	534.7	531.5
70°	403.8	405.4	408.5	414.8	416.4	421.1	436.9	444.8	449.5	449.5	455.8
72.5°	309.1	307.6	310.7	317.0	324.9	326.5	340.7	351.7	358.0	350.2	351.7
75°	203.5	205.0	209.8	214.5	225.6	236.6	241.3	252.4	253.9	257.1	249.2
77.5°	121.5	124.6	129.3	138.8	148.3	157.7	168.8	176.7	179.8	176.7	167.2
80°	78.9	78.9	85.2	93.1	104.1	112.0	118.3	124.6	129.3	124.6	121.5
82.5°	48.9	48.9	56.8	66.2	74.1	78.9	88.3	96.2	100.9	97.8	93.1
85°	25.2	26.8	33.1	41.0	47.3	50.5	48.9	44.2	39.4	37.9	34.7
87.5°	7.9	7.9	9.5	9.5	7.9	7.9	9.5	7.9	9.5	9.5	9.5
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)