

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: P947414

Luminaire Tested: **GALN-SB2D-740-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947414
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2D-740-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22561 lumens
Efficiency: N/A
Efficacy: 152.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

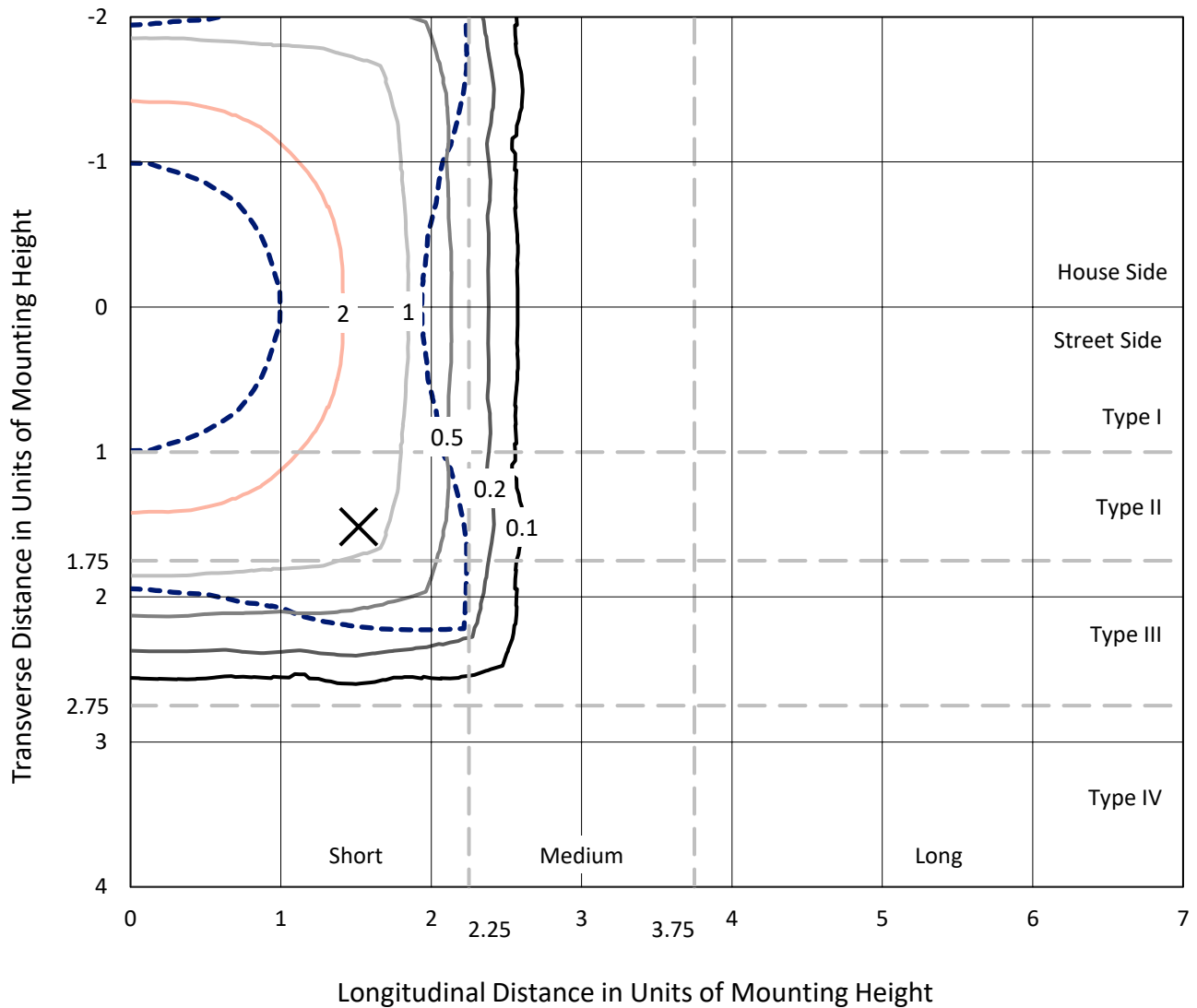
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P947414
 CATALOG NUMBER: GALN-SB2D-740-U-5NQ

Iso-Footcandle Lines of Horizontal Illumination

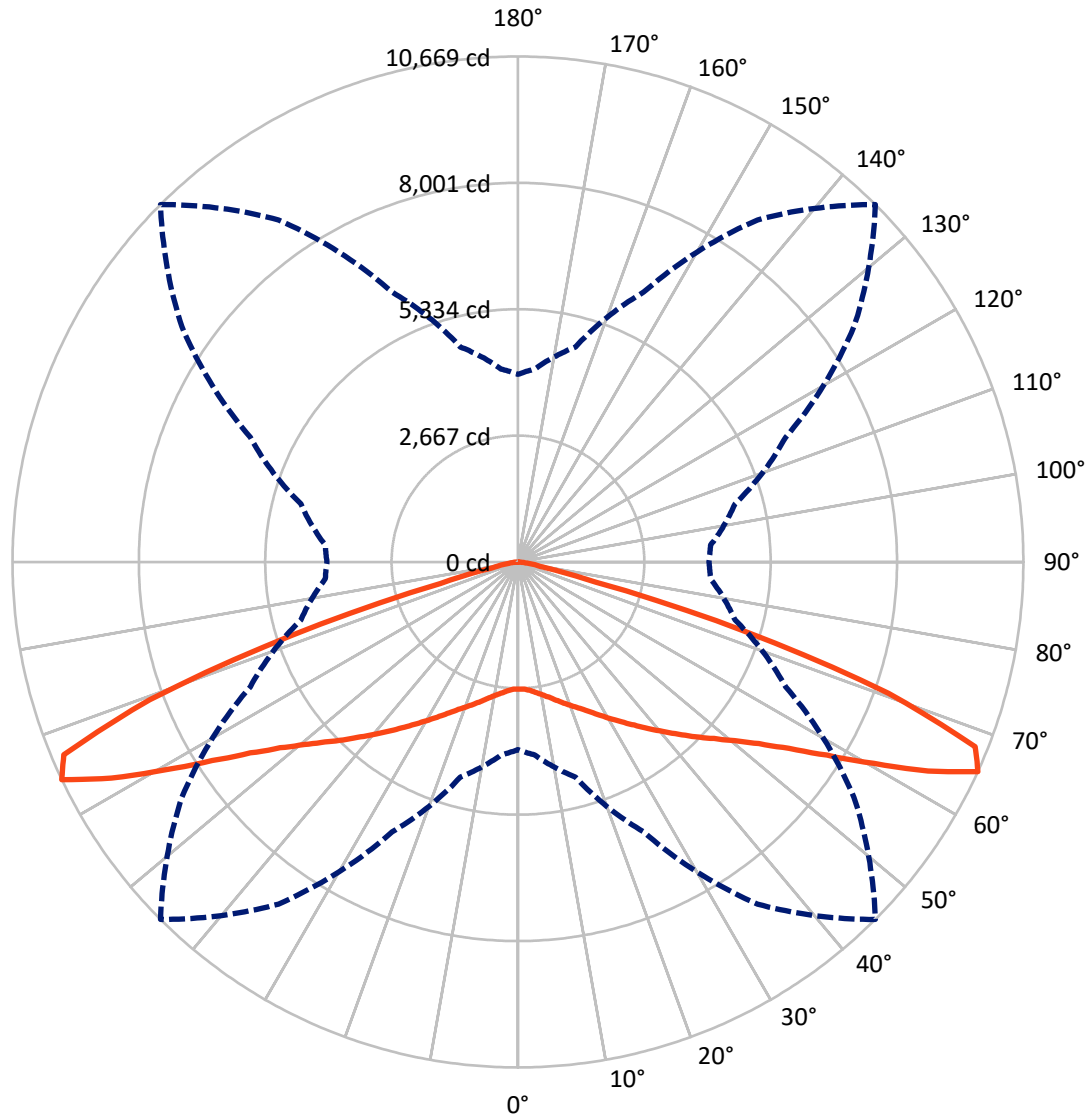
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P947414
CATALOG NUMBER: GALN-SB2D-740-U-5NQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P947414

CATALOG NUMBER: GALN-SB2D-740-U-5NQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11280.5	0.0	11280.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11280.5	0.0	11280.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	22561.0	0.0	22561.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.0	1.2
10°-20°	864.7	3.8
20°-30°	1632.6	7.2
30°-40°	2673.3	11.8
40°-50°	4144.9	18.4
50°-60°	6122.9	27.1
60°-70°	5828.5	25.8
70°-80°	940.5	4.2
80°-90°	88.7	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°	22561.0	100.0
0°-180°	22561.0	100.0



REPORT NUMBER: P947414

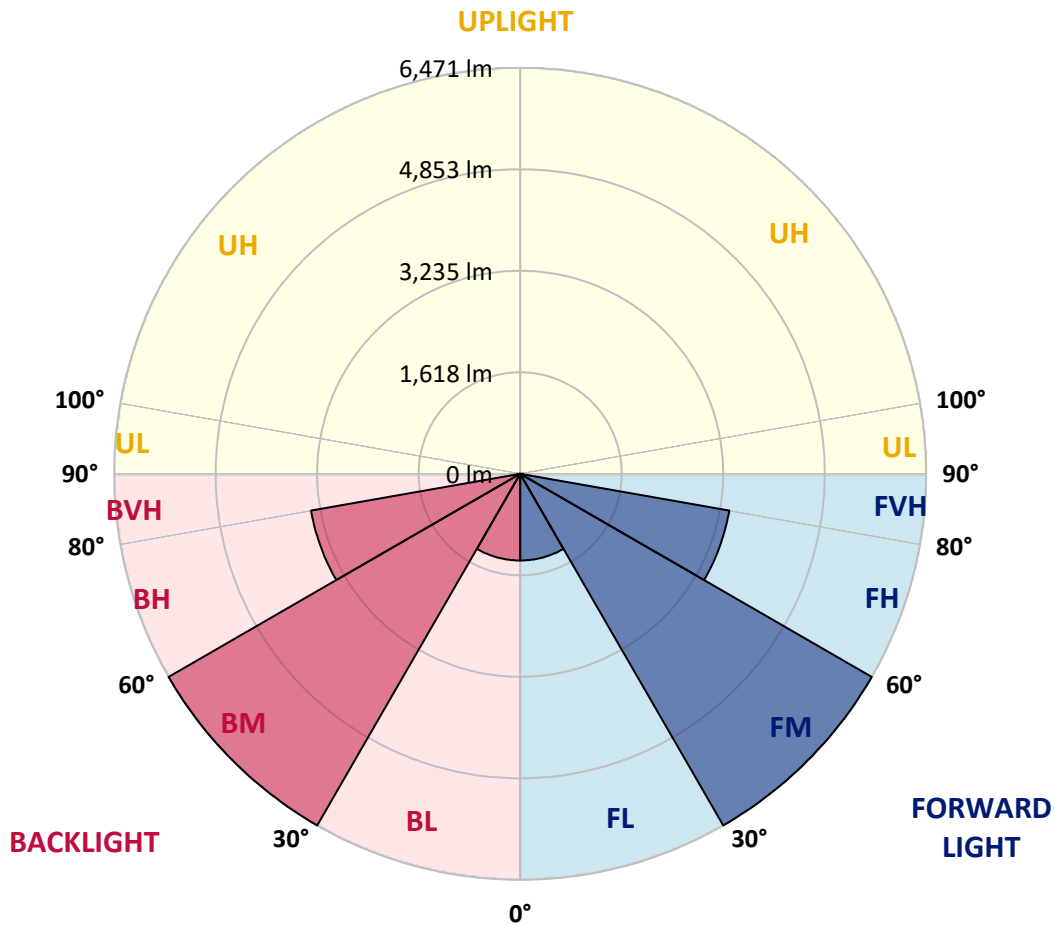
CATALOG NUMBER: GALN-SB2D-740-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1381.1	6.1			
FM (30°-60°)	6470.6	28.7			
FH (60°-80°)	3384.5	15.0			G2/5000
FVH (80°-90°)	44.3	0.2			G1/100
BL (0°-30°)	1381.1	6.1	B3/2500		
BM (30°-60°)	6470.6	28.7	B4/8500		
BH (60°-80°)	3384.5	15.0	B4/5000		G2/5000
BVH (80°-90°)	44.3	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: P947414

CATALOG NUMBER: GALN-SB2D-740-U-5NQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2685.0	2685.0	2685.0	2685.0	2685.0	2685.0	2685.0	2685.0	2685.0	2685.0
2.5°	2703.1	2694.0	2700.8	2695.2	2690.6	2686.1	2688.4	2696.3	2699.7	2700.8
5°	2739.3	2731.4	2734.8	2734.8	2726.9	2724.6	2725.7	2731.4	2738.2	2738.2
7.5°	2798.2	2790.3	2798.2	2793.7	2786.9	2784.6	2783.5	2788.0	2798.2	2798.2
10°	2869.5	2860.4	2865.0	2862.7	2854.8	2851.4	2850.2	2857.0	2866.1	2865.0
12.5°	2947.6	2937.4	2943.1	2936.3	2934.0	2930.6	2930.6	2929.5	2935.1	2930.6
15°	3034.8	3028.0	3030.2	3025.7	3029.1	3026.8	3017.8	3013.3	3015.5	3008.7
17.5°	3137.8	3121.9	3129.8	3127.6	3127.6	3132.1	3117.4	3111.7	3116.3	3109.5
20°	3256.6	3240.8	3244.2	3239.6	3234.0	3238.5	3220.4	3224.9	3228.3	3223.8
22.5°	3386.8	3366.4	3365.3	3367.6	3355.1	3356.2	3343.8	3355.1	3361.9	3349.4
25°	3520.4	3498.9	3513.6	3507.9	3492.1	3495.5	3486.4	3497.7	3503.4	3487.5
27.5°	3661.9	3647.1	3660.7	3664.1	3644.9	3658.5	3644.9	3655.1	3660.7	3637.0
30°	3827.1	3812.4	3824.9	3833.9	3811.3	3832.8	3821.5	3828.3	3829.4	3801.1
32.5°	4007.1	3984.5	4016.2	4020.7	3995.8	4021.8	4007.1	4016.2	4021.8	3983.3
35°	4226.7	4198.4	4234.6	4229.0	4207.5	4229.0	4215.4	4229.0	4242.5	4196.1
37.5°	4463.3	4433.8	4472.3	4462.1	4441.8	4456.5	4448.6	4457.6	4479.1	4429.3
40°	4723.6	4687.4	4739.5	4721.4	4702.1	4699.9	4704.4	4710.0	4738.3	4682.9
42.5°	5002.1	4963.6	5041.7	5013.4	4986.2	4968.1	4982.8	4994.2	5021.3	4959.1
45°	5320.2	5276.0	5377.9	5343.9	5300.9	5263.6	5287.3	5304.3	5343.9	5269.2
47.5°	5671.1	5621.3	5729.9	5719.7	5649.6	5568.1	5622.4	5671.1	5700.5	5609.9
50°	6014.0	5975.6	6118.2	6130.6	6044.6	5930.3	6006.1	6079.7	6087.6	5968.8
52.5°	6335.5	6297.0	6504.2	6582.3	6505.3	6369.5	6449.8	6524.6	6464.6	6310.6
55°	6592.5	6560.8	6824.5	7026.0	7052.0	6940.0	6987.5	6985.3	6788.3	6551.7
57.5°	6654.7	6650.2	6983.0	7409.7	7681.4	7695.0	7601.0	7361.1	6936.6	6618.5
60°	6371.7	6400.0	6857.4	7610.1	8334.5	8635.6	8229.3	7544.4	6767.9	6326.5
62.5°	5525.0	5599.8	6151.0	7365.6	8862.0	9717.8	8733.0	7266.0	6075.2	5499.0
65°	3959.6	4089.7	4698.7	6285.7	8814.5	10668.6	8660.5	6234.8	4744.0	4079.5
67.5°	1796.4	1928.8	2446.1	4303.7	7662.2	10410.5	7644.1	4349.0	2568.4	1935.6
70°	650.9	673.5	839.9	1722.8	4896.8	8294.9	5106.2	1735.3	893.1	717.7
72.5°	393.9	397.3	432.4	616.9	1701.3	5036.0	1773.8	637.3	441.5	391.7
75°	250.2	247.9	307.9	376.9	603.3	1699.1	632.8	376.9	306.8	279.6
77.5°	180.0	185.6	220.7	281.9	380.3	576.2	373.5	269.4	220.7	181.1
80°	134.7	138.1	160.7	219.6	267.1	358.8	237.7	199.2	166.4	113.2
82.5°	97.3	97.3	105.3	159.6	163.0	193.6	129.0	140.4	109.8	80.4
85°	57.7	56.6	65.7	95.1	84.9	71.3	58.9	86.0	69.0	49.8
87.5°	20.4	21.5	20.4	27.2	22.6	19.2	18.1	23.8	19.2	17.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
2685.0
2700.8
2738.2
2794.8
2862.7
2932.9
3009.9
3115.1
3234.0
3361.9
3505.6
3655.1
3818.1
4009.4
4224.4
4459.9
4701.0
4991.9
5307.7
5640.5
5983.5
6315.1
6559.6
6598.1
6274.4
5465.1
4030.9
1907.3
708.6
398.4
281.9
184.5
116.6
80.4
48.7
15.8
0.0

OF REPORT)