

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: P947354

Luminaire Tested: **GALN-SB2D-727-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947354
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2D-727-U-RW
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19437 lumens
Efficiency: N/A
Efficacy: 131.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G4

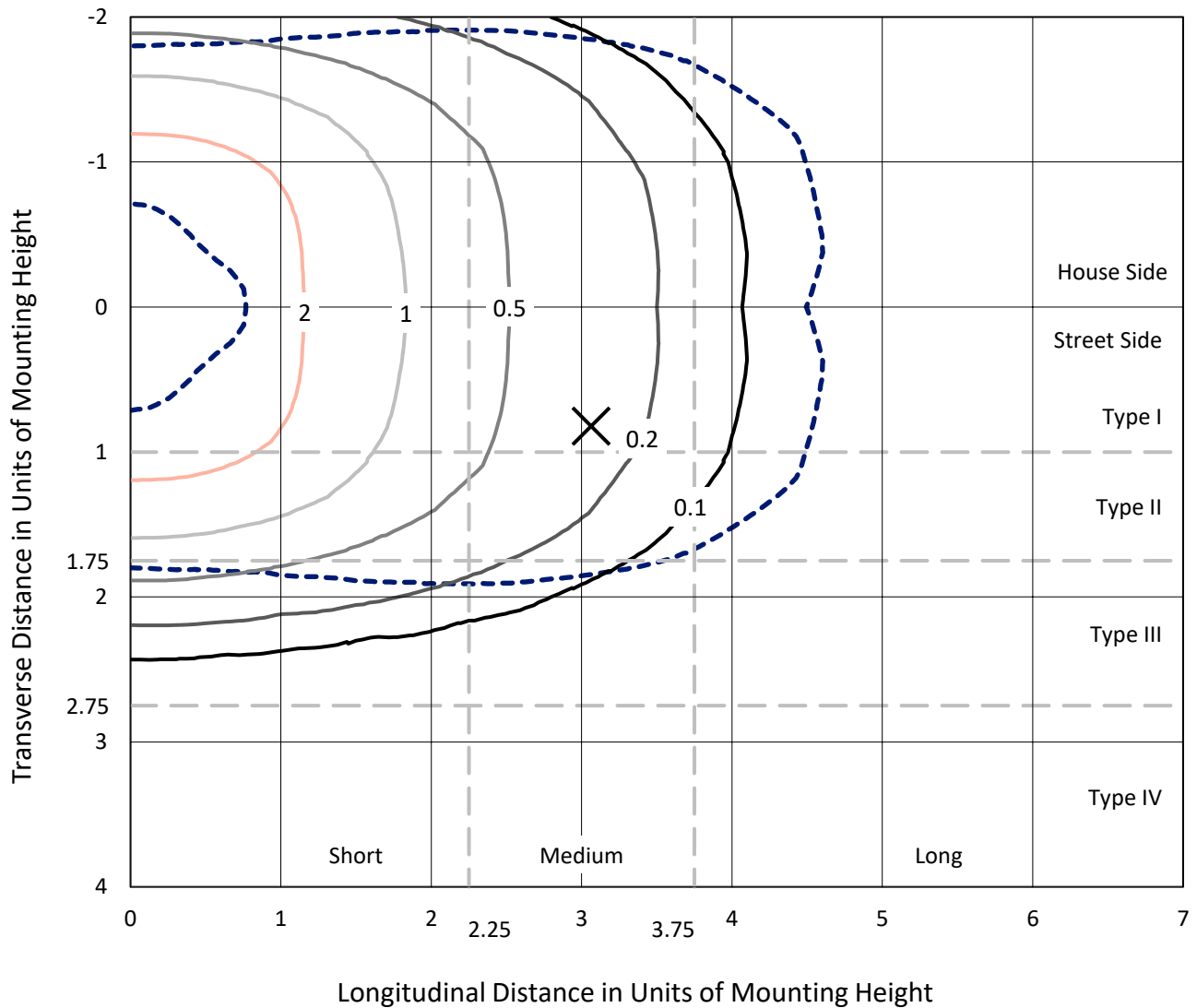
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P947354
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Iso-Footcandle Lines of Horizontal Illumination

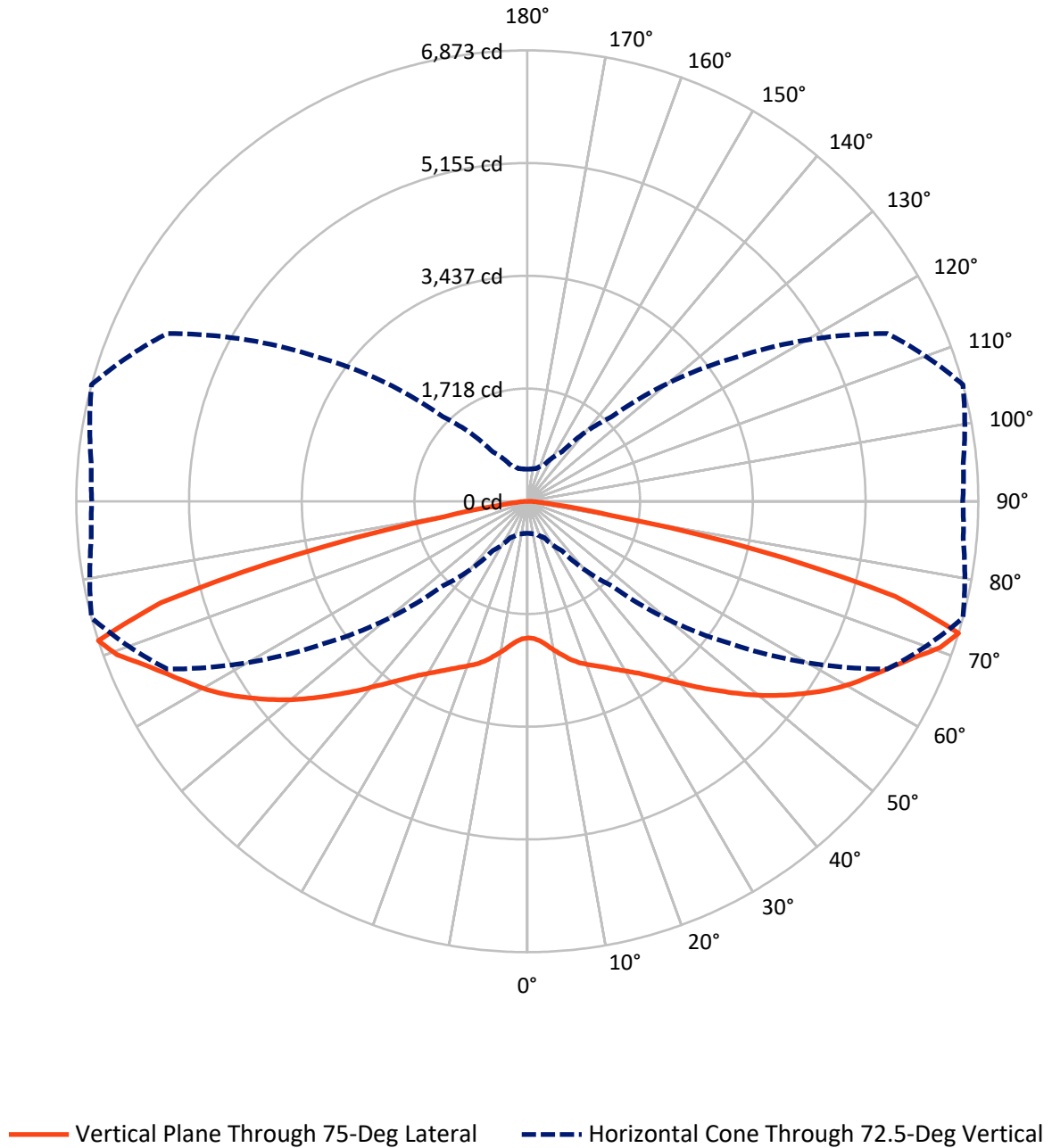
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type III - Medium - N/A

REPORT NUMBER: P947354
CATALOG NUMBER: GALN-SB2D-727-U-RW

Luminous Intensity Polar Plot



REPORT NUMBER: P947354

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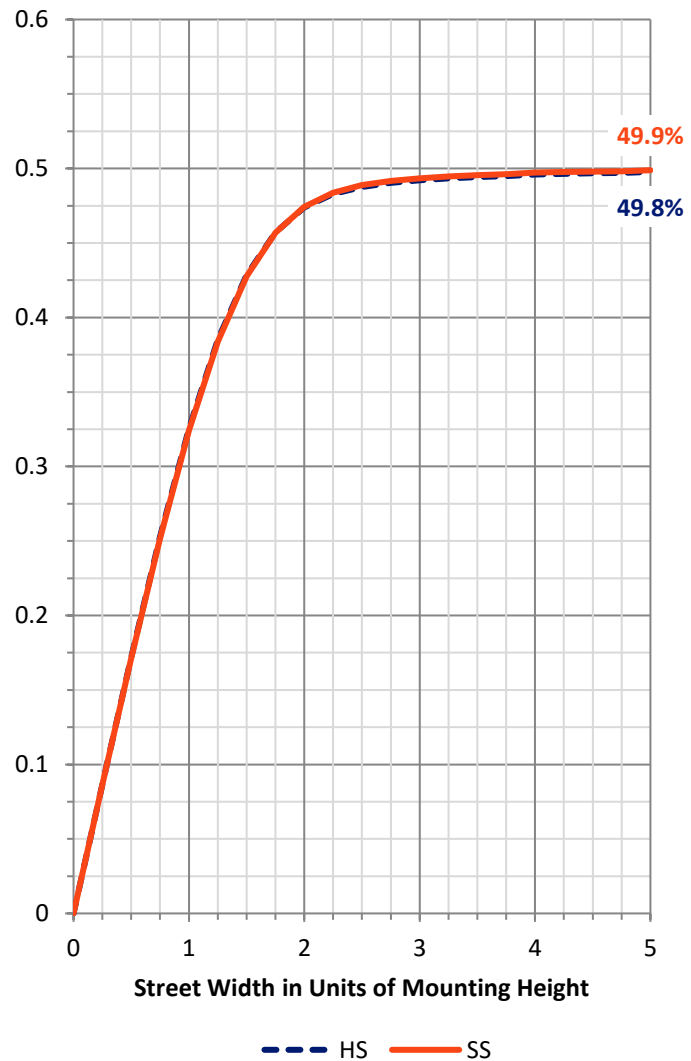
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9718.5	0.0	9718.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9718.5	0.0	9718.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	19437.0	0.0	19437.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.0	1.0
10°-20°	672.7	3.5
20°-30°	1299.8	6.7
30°-40°	2194.8	11.3
40°-50°	3480.7	17.9
50°-60°	4660.3	24.0
60°-70°	4435.1	22.8
70°-80°	2314.3	11.9
80°-90°	175.2	0.9
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°	19437.0	100.0
0°-180°	19437.0	100.0

Coefficient of Utilization



REPORT NUMBER: P947354

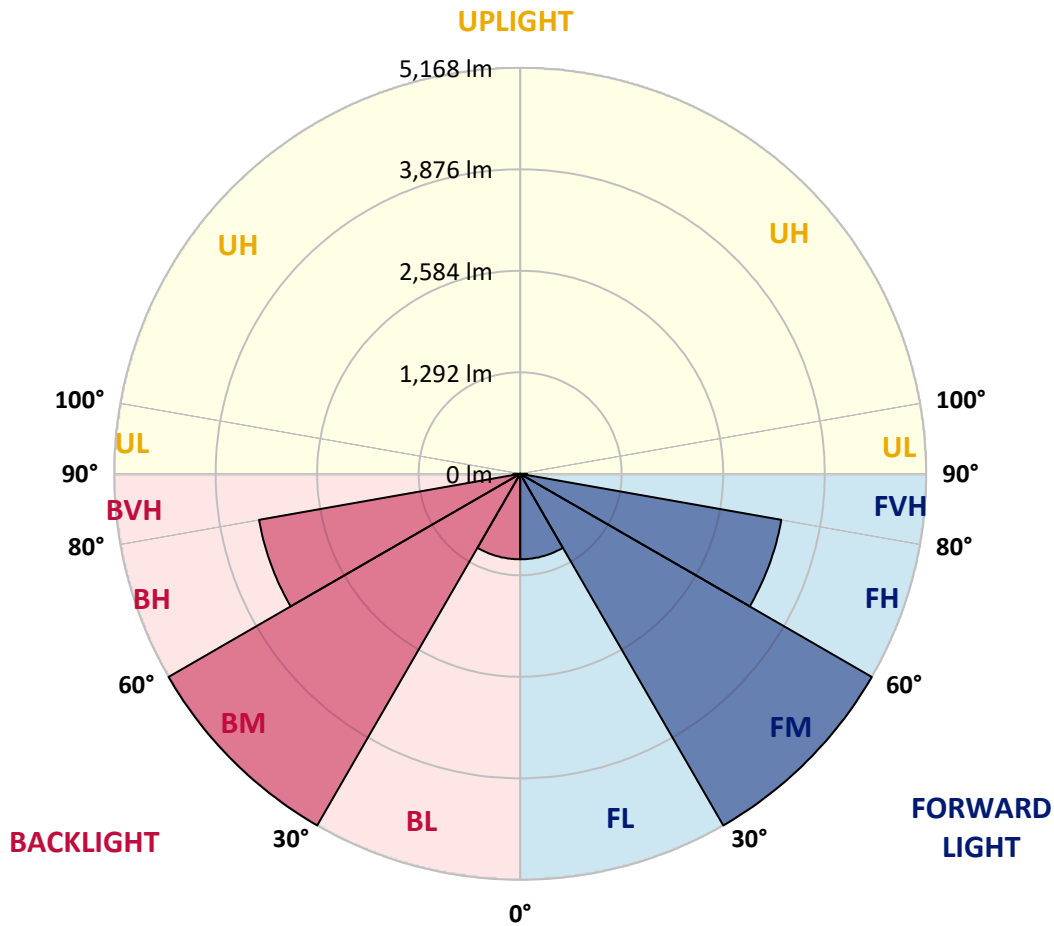
CATALOG NUMBER: GALN-SB2D-727-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1088.2	5.6			
FM (30°-60°)	5167.9	26.6			
FH (60°-80°)	3374.7	17.4			G2/5000
FVH (80°-90°)	87.6	0.5			G1/100
BL (0°-30°)	1088.2	5.6	B3/2500		
BM (30°-60°)	5167.9	26.6	B4/8500		
BH (60°-80°)	3374.7	17.4	B4/5000		G4/5000
BVH (80°-90°)	87.6	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2082.1	2082.1	2082.1	2082.1	2082.1	2082.1	2082.1	2082.1	2082.1	2082.1	2082.1
2.5°	2082.1	2080.1	2082.1	2084.0	2083.0	2083.0	2088.0	2091.0	2096.9	2095.9	2095.0
5°	2068.2	2067.2	2075.1	2084.0	2091.0	2102.9	2117.8	2128.7	2142.6	2145.6	2145.6
7.5°	2061.2	2058.2	2072.1	2088.0	2109.8	2139.6	2168.4	2198.2	2222.0	2229.9	2231.9
10°	2066.2	2067.2	2086.0	2115.8	2150.5	2192.2	2232.9	2283.5	2317.2	2325.2	2333.1
12.5°	2089.0	2087.0	2118.8	2166.4	2214.0	2266.6	2314.3	2369.8	2406.6	2425.4	2433.4
15°	2130.7	2126.7	2171.4	2241.8	2311.3	2372.8	2411.5	2464.1	2506.8	2530.6	2539.5
17.5°	2180.3	2182.3	2240.8	2332.1	2423.4	2492.9	2529.6	2556.4	2589.2	2610.0	2619.9
20°	2267.6	2271.6	2337.1	2445.3	2549.5	2628.9	2658.6	2648.7	2657.6	2673.5	2685.4
22.5°	2384.7	2386.7	2460.2	2577.3	2686.4	2773.8	2793.6	2752.9	2728.1	2739.0	2747.0
25°	2520.7	2533.6	2607.0	2727.1	2839.3	2922.6	2931.5	2870.0	2808.5	2811.5	2816.4
27.5°	2686.4	2698.3	2772.8	2891.8	3006.0	3078.4	3077.4	2995.1	2904.7	2881.9	2888.9
30°	2866.0	2878.9	2955.4	3078.4	3184.6	3248.1	3234.2	3136.0	3007.0	2964.3	2969.3
32.5°	3079.4	3087.3	3164.8	3287.8	3386.1	3436.7	3407.9	3286.8	3126.1	3077.4	3089.3
35°	3337.4	3349.3	3406.9	3523.0	3609.4	3651.0	3602.4	3459.5	3278.9	3224.3	3232.2
37.5°	3632.2	3624.2	3689.7	3792.9	3864.4	3890.2	3823.7	3654.0	3453.5	3389.0	3400.9
40°	3939.8	3935.8	4007.3	4106.5	4145.2	4161.1	4062.9	3877.3	3655.0	3585.5	3608.4
42.5°	4218.7	4215.7	4312.0	4422.1	4468.8	4450.9	4326.9	4114.5	3888.2	3808.8	3828.7
45°	4442.0	4438.0	4556.1	4710.9	4802.2	4772.4	4605.7	4376.5	4124.4	4042.0	4060.9
47.5°	4613.7	4615.6	4742.7	4934.2	5094.0	5104.9	4890.5	4643.4	4384.4	4291.1	4318.9
50°	4737.7	4743.7	4879.6	5092.0	5310.3	5406.6	5181.3	4917.3	4653.4	4548.2	4579.9
52.5°	4768.5	4779.4	4943.1	5192.2	5449.3	5632.9	5477.0	5180.3	4908.4	4808.2	4834.0
55°	4604.7	4626.6	4834.0	5184.3	5534.6	5781.7	5737.1	5447.3	5165.4	5062.2	5091.0
57.5°	4228.6	4259.4	4501.5	4959.0	5515.7	5883.9	5938.5	5703.3	5422.5	5323.2	5346.0
60°	3701.6	3738.4	3970.6	4469.8	5249.8	5921.6	6080.4	5952.4	5658.7	5562.4	5583.2
62.5°	2906.7	2954.4	3232.2	3817.8	4688.1	5746.0	6201.5	6177.7	5871.0	5750.9	5764.8
65°	1864.7	1915.3	2208.1	2899.8	3938.8	5208.1	6239.2	6397.0	6095.3	5927.6	5948.4
67.5°	1124.4	1147.2	1292.1	1757.5	2878.9	4397.3	5919.7	6640.1	6357.3	6148.9	6164.8
70°	719.5	732.4	818.7	1032.1	1627.5	3208.4	5127.7	6685.8	6674.9	6376.2	6374.2
72.5°	488.3	492.2	515.1	611.3	920.9	1823.0	3782.0	6052.6	6873.3	6668.9	6637.2
75°	357.3	379.1	415.8	432.7	523.0	911.0	2167.4	4252.4	5792.6	5881.9	5665.6
77.5°	266.0	267.0	317.6	337.4	373.1	485.3	917.0	2373.8	3596.4	3776.1	3368.2
80°	225.3	213.4	212.4	271.9	280.8	302.7	409.9	819.7	1288.1	781.0	590.5
82.5°	187.6	174.7	157.8	212.4	191.5	185.6	177.6	333.4	409.9	201.5	171.7
85°	131.0	125.0	119.1	138.9	109.2	93.3	85.3	155.8	172.7	85.3	75.4
87.5°	56.6	58.6	59.5	61.5	45.7	32.7	32.7	43.7	43.7	33.7	24.8
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)