

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: P947438

Luminaire Tested: **GALN-SB2D-750-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947438
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-750-U-RW
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22171 lumens
Efficiency: N/A
Efficacy: 150.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G4

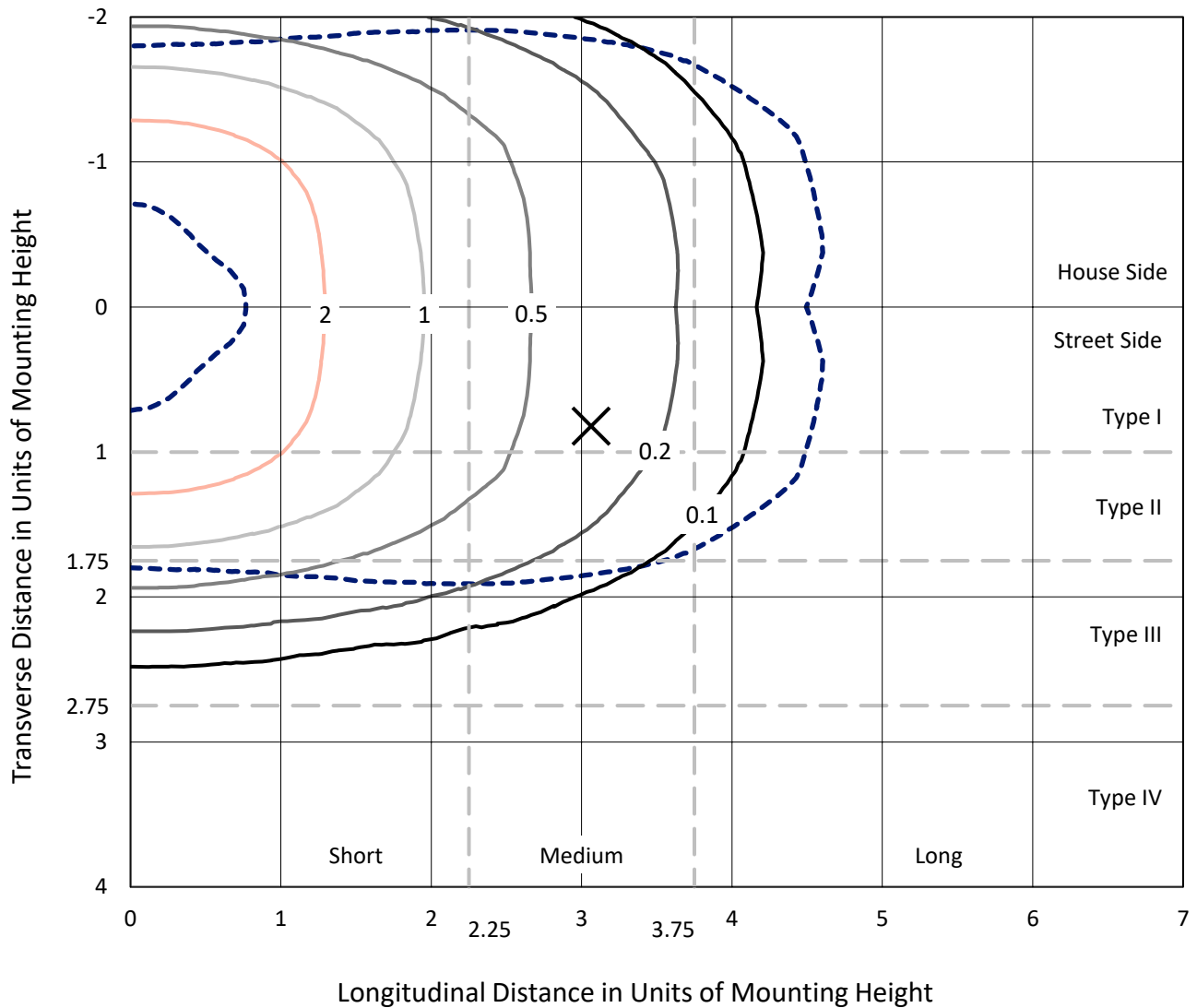
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P947438
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Iso-Footcandle Lines of Horizontal Illumination

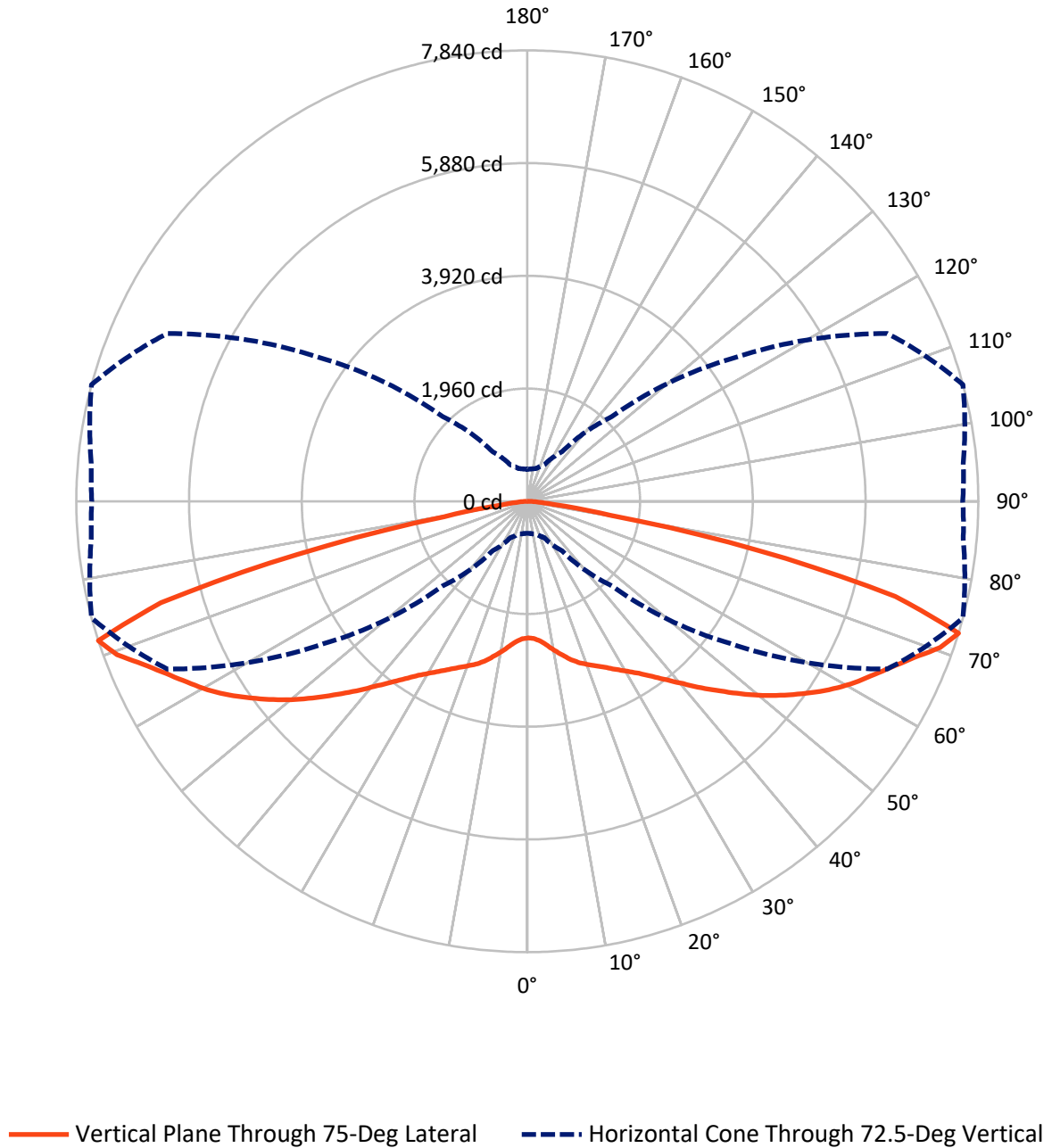
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type III - Medium - N/A

REPORT NUMBER: P947438
CATALOG NUMBER: GALN-SB2D-750-U-RW

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11085.5	0.0	11085.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11085.5	0.0	11085.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	22171.0	0.0	22171.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.6	1.0
10°-20°	767.3	3.5
20°-30°	1482.6	6.7
30°-40°	2503.6	11.3
40°-50°	3970.4	17.9
50°-60°	5315.8	24.0
60°-70°	5059.0	22.8
70°-80°	2639.9	11.9
80°-90°	199.8	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°	22171.0	100.0
0°-180°	22171.0	100.0

Coefficient of Utilization



REPORT NUMBER: P947438

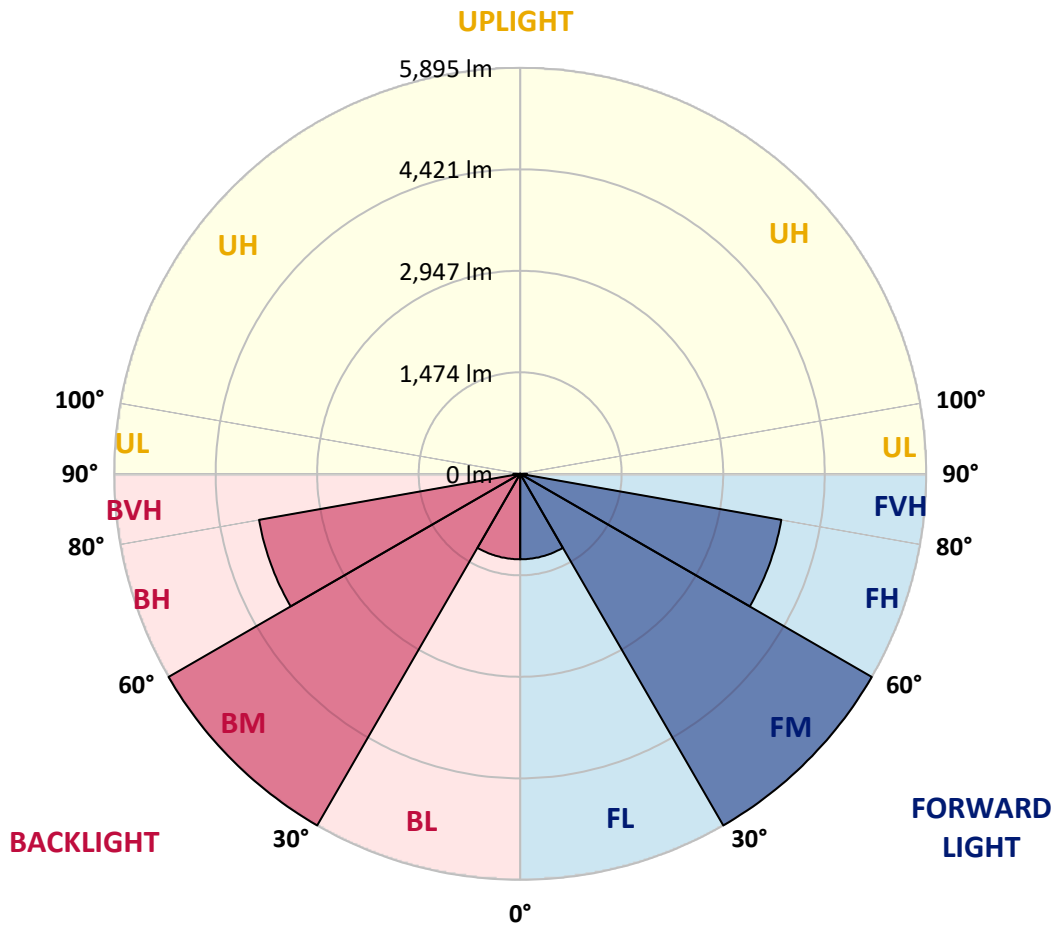
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1241.3	5.6			
FM (30°-60°)	5894.9	26.6			
FH (60°-80°)	3849.4	17.4			G2/5000
FVH (80°-90°)	99.9	0.5			G1/100
BL (0°-30°)	1241.3	5.6	B3/2500		
BM (30°-60°)	5894.9	26.6	B4/8500		
BH (60°-80°)	3849.4	17.4	B4/5000		G4/5000
BVH (80°-90°)	99.9	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



REPORT NUMBER: P947438

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2374.9	2374.9	2374.9	2374.9	2374.9	2374.9	2374.9	2374.9	2374.9	2374.9
2.5°	2374.9	2372.6	2374.9	2377.2	2376.0	2376.0	2381.7	2385.1	2391.9	2390.8
5°	2359.1	2357.9	2367.0	2377.2	2385.1	2398.7	2415.7	2428.1	2444.0	2447.4
7.5°	2351.1	2347.7	2363.6	2381.7	2406.6	2440.6	2473.4	2507.4	2534.5	2543.6
10°	2356.8	2357.9	2379.4	2413.4	2453.0	2500.6	2547.0	2604.7	2643.2	2652.2
12.5°	2382.8	2380.6	2416.8	2471.1	2525.5	2585.5	2639.8	2703.2	2745.1	2766.6
15°	2430.4	2425.9	2476.8	2557.2	2636.4	2706.6	2750.7	2810.7	2859.4	2886.6
17.5°	2487.0	2489.2	2556.0	2660.2	2764.3	2843.6	2885.4	2916.0	2953.4	2977.1
20°	2586.6	2591.1	2665.8	2789.2	2908.1	2998.6	3032.6	3021.3	3031.5	3049.6
22.5°	2720.2	2722.4	2806.2	2939.8	3064.3	3163.9	3186.5	3140.1	3111.8	3124.3
25°	2875.2	2890.0	2973.7	3110.7	3238.6	3333.7	3343.9	3273.7	3203.5	3206.9
27.5°	3064.3	3077.9	3162.8	3298.6	3428.8	3511.4	3510.3	3416.3	3313.3	3287.3
30°	3269.2	3283.9	3371.1	3511.4	3632.5	3705.0	3689.1	3577.1	3429.9	3381.2
32.5°	3512.6	3521.6	3609.9	3750.3	3862.3	3920.1	3887.2	3749.1	3565.8	3510.3
35°	3806.9	3820.5	3886.1	4018.6	4117.0	4164.6	4109.1	3946.1	3740.1	3677.8
37.5°	4143.1	4134.0	4208.7	4326.5	4408.0	4437.4	4361.6	4168.0	3939.3	3865.7
40°	4494.0	4489.5	4571.0	4684.2	4728.3	4746.4	4634.4	4422.7	4169.1	4089.9
42.5°	4812.1	4808.7	4918.5	5044.1	5097.3	5077.0	4935.5	4693.2	4435.1	4344.6
45°	5066.8	5062.3	5197.0	5373.5	5477.7	5443.7	5253.6	4992.1	4704.5	4610.6
47.5°	5262.6	5264.9	5409.8	5628.2	5810.5	5822.9	5578.4	5296.6	5001.1	4894.7
50°	5404.1	5410.9	5566.0	5808.2	6057.3	6167.1	5910.1	5609.0	5307.9	5187.9
52.5°	5439.2	5451.7	5638.4	5922.6	6215.7	6425.2	6247.4	5909.0	5598.8	5484.5
55°	5252.4	5277.3	5513.9	5913.5	6313.1	6595.0	6544.0	6213.5	5892.0	5774.3
57.5°	4823.4	4858.5	5134.7	5656.5	6291.6	6711.6	6773.8	6505.5	6185.2	6072.0
60°	4222.3	4264.2	4529.1	5098.5	5988.2	6754.6	6935.7	6789.7	6454.6	6344.8
62.5°	3315.6	3369.9	3686.9	4354.8	5347.5	6554.2	7073.8	7046.6	6696.8	6559.9
65°	2127.0	2184.7	2518.7	3307.7	4492.9	5940.7	7116.8	7296.8	6952.7	6761.4
67.5°	1282.5	1308.6	1473.8	2004.8	3283.9	5015.8	6752.3	7574.1	7251.5	7013.8
70°	820.7	835.4	933.9	1177.3	1856.5	3659.7	5849.0	7626.2	7613.8	7273.0
72.5°	556.9	561.5	587.5	697.3	1050.5	2079.5	4314.0	6904.0	7840.1	7607.0
75°	407.5	432.4	474.3	493.5	596.6	1039.2	2472.3	4850.6	6607.4	6709.3
77.5°	303.4	304.5	362.2	384.9	425.6	553.5	1046.0	2707.7	4102.3	4307.2
80°	257.0	243.4	242.2	310.2	320.4	345.3	467.5	935.0	1469.3	890.9
82.5°	213.9	199.2	180.0	242.2	218.5	211.7	202.6	380.3	467.5	229.8
85°	149.4	142.6	135.8	158.5	124.5	106.4	97.4	177.7	197.0	97.4
87.5°	64.5	66.8	67.9	70.2	52.1	37.4	37.4	49.8	49.8	38.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
2374.9
2389.6
2447.4
2545.8
2661.3
2775.6
2896.8
2988.4
3063.2
3133.3
3212.6
3295.2
3386.9
3523.9
3686.9
3879.3
4115.9
4367.2
4632.1
4926.4
5224.1
5513.9
5807.1
6098.0
6368.6
6575.7
6785.1
7031.9
7270.8
7570.7
6462.5
3842.0
673.5
195.8
86.0
28.3
0.0

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