

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: P939943

Luminaire Tested: **GALN-SB2D-740-U-T1**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939943  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)  
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-T1  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

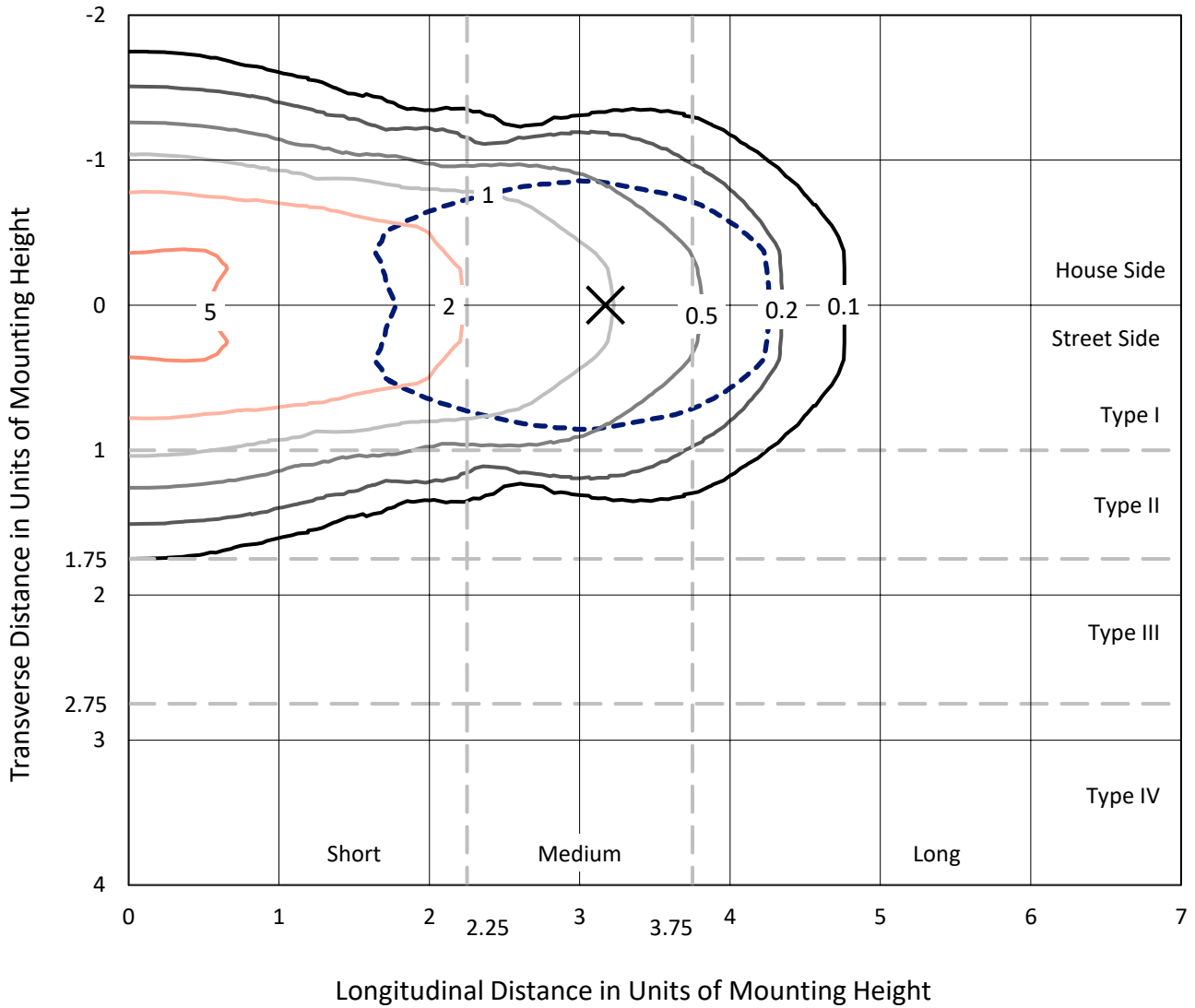
Lumens per Lamp: N/A  
Luminaire Lumens: 21299 lumens  
Efficiency: N/A  
Efficacy: 144.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 147.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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



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### Iso-Footcandle Lines of Horizontal Illumination

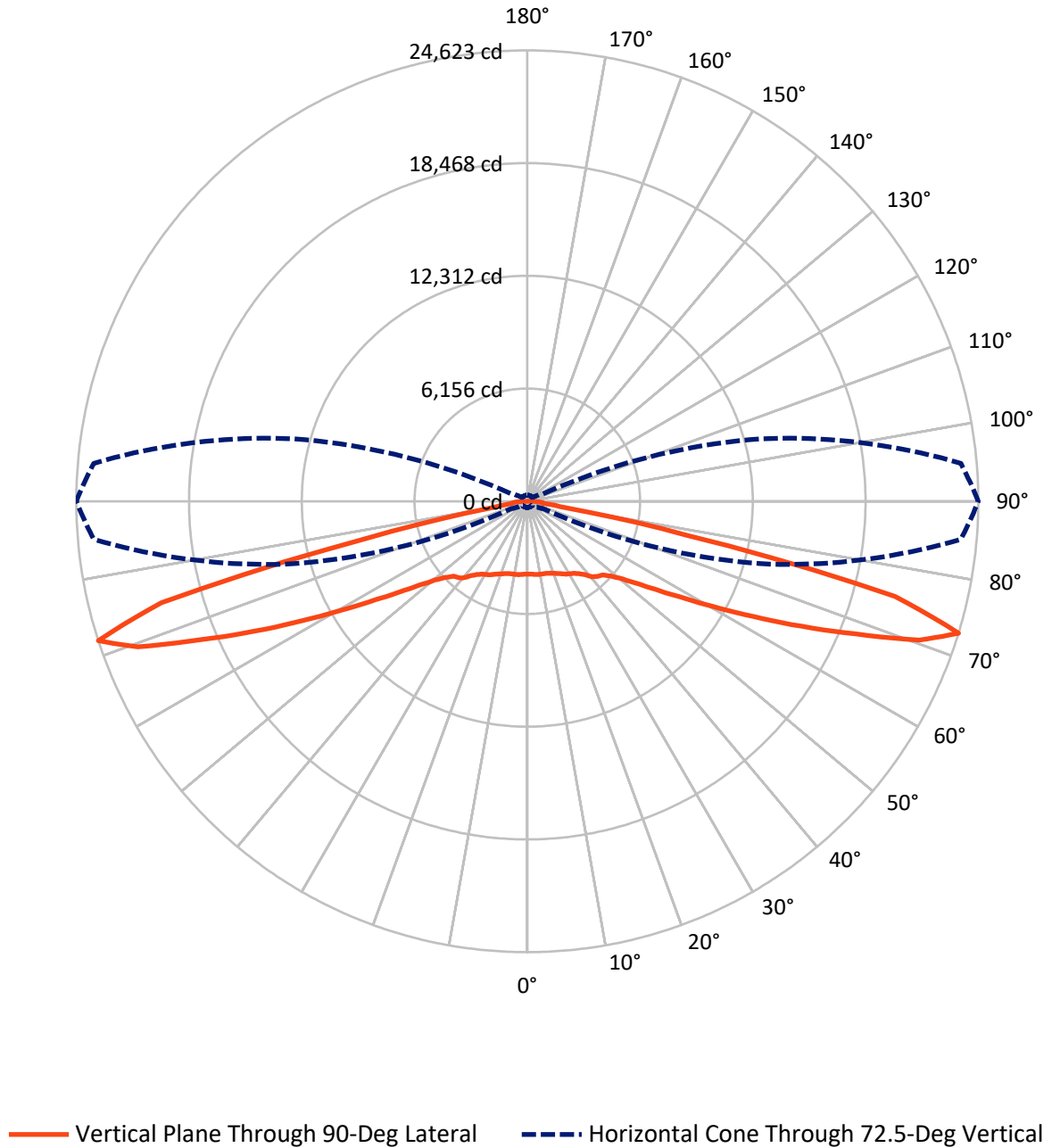
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10649.5	0.0	10649.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	10649.5	0.0	10649.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	21299.0	0.0	21299.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	385.9	1.8
10°-20°	1179.9	5.5
20°-30°	1967.4	9.2
30°-40°	2705.8	12.7
40°-50°	3304.6	15.5
50°-60°	3822.1	17.9
60°-70°	4557.2	21.4
70°-80°	3180.6	14.9
80°-90°	195.4	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°	21299.0	100.0
0°-180°	21299.0	100.0

**Coefficient of Utilization**



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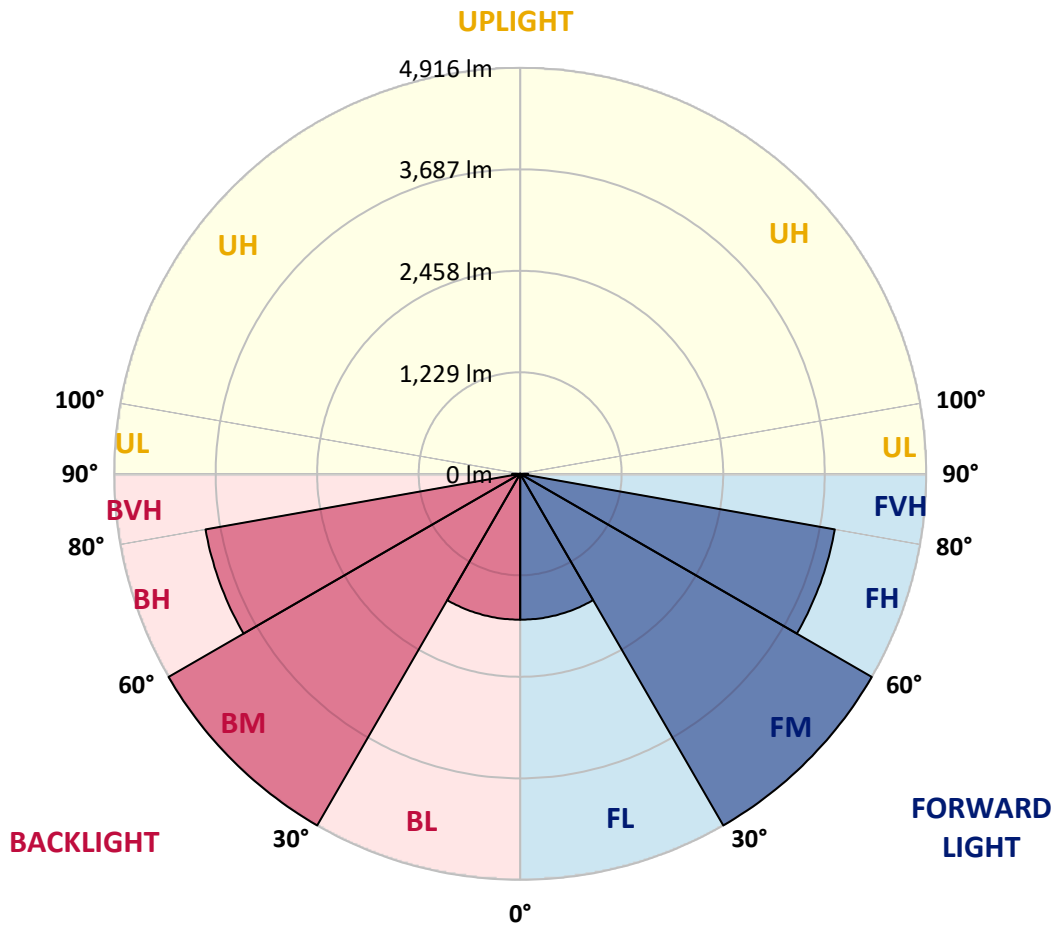
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1766.6	8.3			
FM (30°-60°)	4916.3	23.1			
FH (60°-80°)	3868.9	18.2			G2/5000
FVH (80°-90°)	97.7	0.5			G1/100
BL (0°-30°)	1766.6	8.3	B3/2500		
BM (30°-60°)	4916.3	23.1	B3/5000		
BH (60°-80°)	3868.9	18.2	B4/5000		G4/5000
BVH (80°-90°)	97.7	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 I Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3979.9	3979.9	3979.9	3979.9	3979.9	3979.9	3979.9	3979.9	3979.9	3979.9
2.5°	3983.3	3987.9	3987.9	3984.5	3992.4	3985.6	3985.6	3982.2	3985.6	3982.2
5°	4003.7	4009.4	4011.6	4010.5	4020.7	4015.0	4015.0	4010.5	4011.6	4008.2
7.5°	4042.2	4050.1	4054.7	4060.3	4075.0	4068.2	4063.7	4050.1	4044.5	4035.4
10°	4054.7	4063.7	4078.4	4107.9	4141.8	4142.9	4129.4	4095.4	4069.4	4049.0
12.5°	4016.2	4028.6	4059.2	4119.2	4195.0	4225.6	4204.1	4147.5	4096.5	4060.3
15°	3967.5	3981.1	4027.5	4118.0	4230.1	4301.4	4299.2	4224.4	4142.9	4086.3
17.5°	3891.7	3905.2	3972.0	4098.8	4257.3	4375.0	4406.7	4329.7	4215.4	4139.5
20°	3754.7	3767.1	3860.0	4037.7	4266.3	4453.1	4535.7	4467.8	4325.2	4222.2
22.5°	3577.0	3596.2	3704.9	3932.4	4244.8	4534.6	4682.9	4636.5	4453.1	4310.5
25°	3386.8	3407.2	3534.0	3803.4	4189.4	4593.5	4857.2	4827.8	4598.0	4420.3
27.5°	3222.7	3244.2	3382.3	3675.4	4103.3	4616.1	5029.3	5044.0	4773.4	4541.4
30°	3093.6	3114.0	3261.2	3572.4	3992.4	4593.5	5179.8	5281.7	4952.3	4646.7
32.5°	2952.1	2978.2	3133.2	3446.8	3861.1	4539.1	5311.1	5538.6	5159.4	4759.9
35°	2773.3	2797.1	2960.1	3274.7	3689.0	4452.0	5420.9	5823.9	5456.0	4931.9
37.5°	2555.9	2578.6	2740.5	3059.7	3518.1	4329.7	5504.7	6145.4	5809.2	5179.8
40°	2337.5	2359.0	2510.7	2819.7	3313.2	4173.5	5534.1	6460.0	6214.4	5520.5
42.5°	2137.1	2156.4	2295.6	2583.1	3083.4	3974.3	5495.6	6734.0	6577.8	5758.2
45°	1952.6	1969.6	2093.0	2361.3	2844.6	3732.0	5380.2	7028.3	7010.2	5928.0
47.5°	1742.1	1759.1	1887.0	2146.2	2605.8	3447.9	5184.3	7318.1	7611.2	6312.9
50°	1485.1	1499.8	1631.1	1898.3	2357.9	3145.7	4912.7	7545.6	8369.7	6895.9
52.5°	1180.6	1196.5	1324.4	1591.5	2063.5	2820.8	4555.0	7693.9	9245.8	7747.1
55°	878.4	889.7	1000.6	1240.6	1699.1	2450.7	4106.7	7735.8	10239.6	8910.7
57.5°	637.3	644.1	715.4	894.2	1288.2	1987.7	3562.3	7627.1	11422.5	10402.6
60°	516.2	518.4	539.9	619.2	895.4	1464.7	2904.6	7253.5	12706.2	12325.8
62.5°	468.6	468.6	474.3	495.8	605.6	966.7	2108.8	6479.3	14082.6	14756.1
65°	435.8	435.8	438.1	448.3	477.7	615.8	1331.2	5218.3	15242.9	17603.0
67.5°	406.4	407.5	406.4	409.8	426.7	455.0	772.0	3604.1	15867.7	20552.9
70°	375.8	378.1	372.4	372.4	386.0	387.1	483.3	1976.4	15349.3	23025.0
72.5°	339.6	343.0	333.9	331.7	341.8	337.3	363.4	948.6	13178.2	23763.1
75°	307.9	312.4	292.0	286.4	286.4	283.0	295.4	486.7	8553.0	19384.7
77.5°	279.6	288.6	255.8	237.7	233.2	223.0	241.1	297.7	3741.1	9100.9
80°	230.9	243.4	210.5	189.0	181.1	169.8	190.2	208.3	1112.7	2113.4
82.5°	172.1	177.7	149.4	134.7	127.9	120.0	142.6	144.9	362.2	748.2
85°	109.8	112.1	91.7	79.2	75.8	72.4	90.6	79.2	138.1	550.1
87.5°	38.5	44.1	35.1	31.7	34.0	28.3	41.9	23.8	38.5	388.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°

3979.9  
3982.2  
4008.2  
4035.4  
4045.6  
4054.7  
4077.3  
4127.1  
4202.9  
4284.4  
4384.0  
4502.9  
4591.2  
4689.7  
4853.8  
5075.7  
5409.6  
5615.6  
5735.6  
6091.0  
6617.4  
7404.1  
8481.7  
9862.7  
11645.5  
13844.9  
16450.7  
19308.8  
22697.9  
24623.4  
20734.0  
8911.9  
2023.9  
845.6  
799.2  
481.1  
0.0

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