

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: P941303

Luminaire Tested: **GALN-SB4D-740-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941303
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-SB4D-740-U-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 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: 42684 lumens
Efficiency: N/A
Efficacy: 145.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

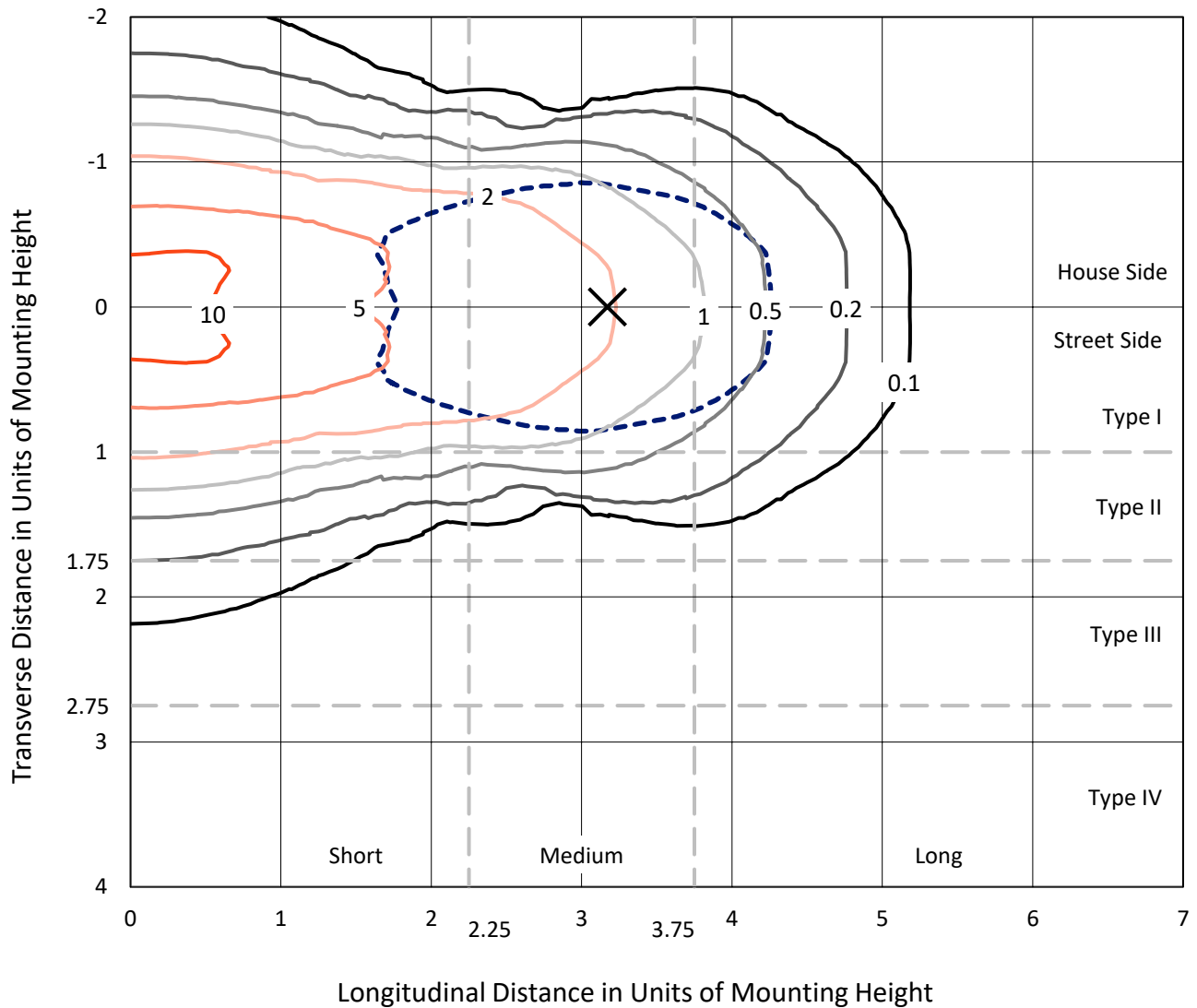
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

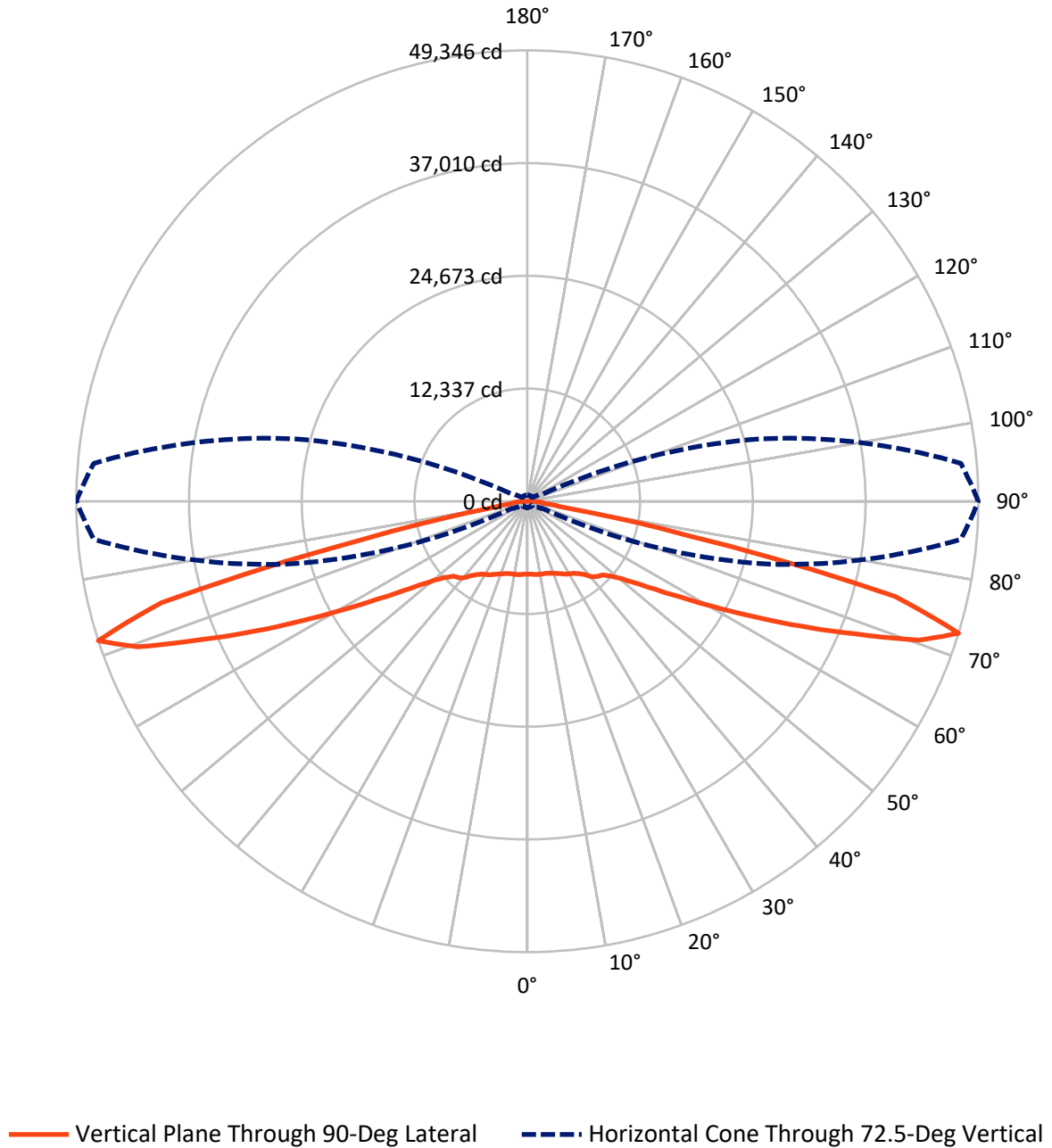
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21342.0	0.0	21342.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21342.0	0.0	21342.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	42684.0	0.0	42684.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	773.4	1.8
10°-20°	2364.6	5.5
20°-30°	3942.8	9.2
30°-40°	5422.6	12.7
40°-50°	6622.5	15.5
50°-60°	7659.6	17.9
60°-70°	9132.8	21.4
70°-80°	6374.1	14.9
80°-90°	391.5	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°	42684.0	100.0
0°-180°	42684.0	100.0



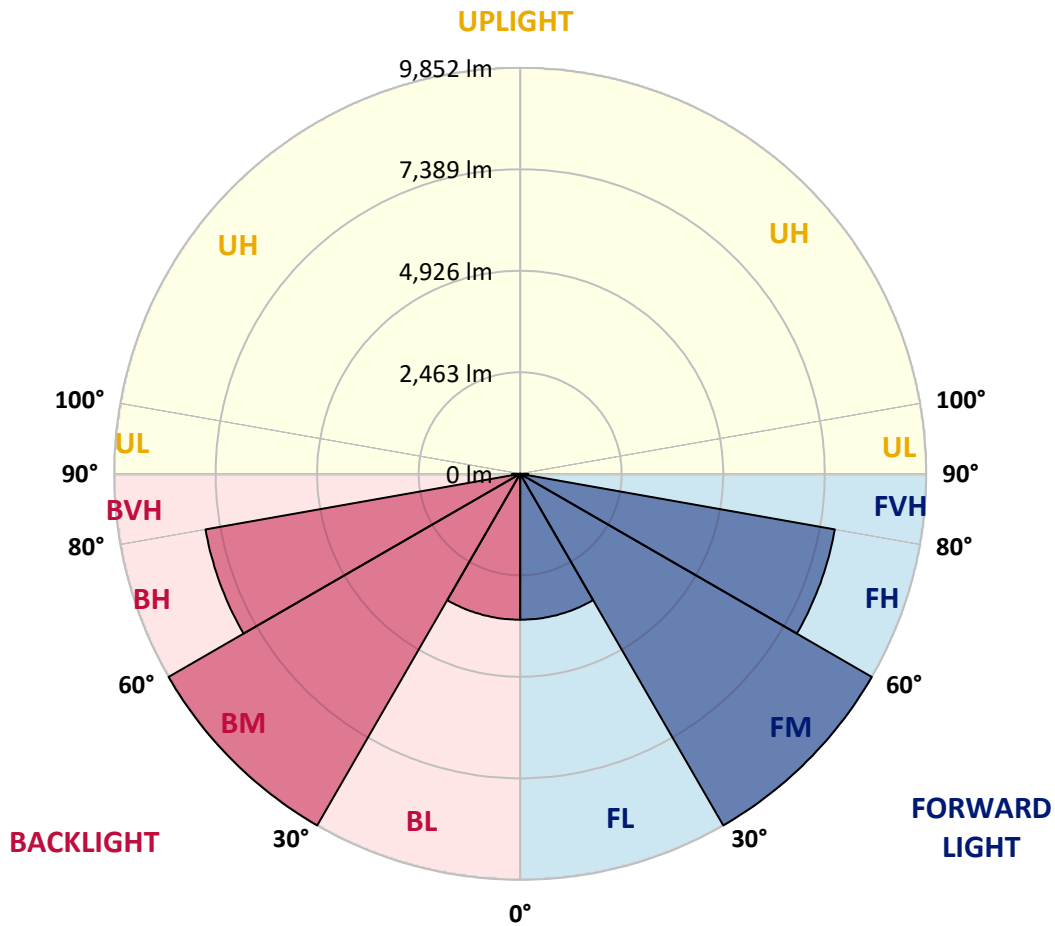
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3540.4	8.3			
FM (30°-60°)	9852.4	23.1			
FH (60°-80°)	7753.5	18.2			G4/12000
FVH (80°-90°)	195.8	0.5			G2/225
BL (0°-30°)	3540.4	8.3	B4/5000		
BM (30°-60°)	9852.4	23.1	B5		
BH (60°-80°)	7753.5	18.2	B5		G5
BVH (80°-90°)	195.8	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7976.0	7976.0	7976.0	7976.0	7976.0	7976.0	7976.0	7976.0	7976.0	7976.0
2.5°	7982.8	7991.8	7991.8	7985.0	8000.9	7987.3	7987.3	7980.5	7987.3	7980.5
5°	8023.6	8034.9	8039.5	8037.2	8057.6	8046.3	8046.3	8037.2	8039.5	8032.7
7.5°	8100.7	8116.6	8125.7	8137.0	8166.5	8152.9	8143.8	8116.6	8105.3	8087.1
10°	8125.7	8143.8	8173.3	8232.3	8300.3	8302.6	8275.4	8207.3	8155.2	8114.3
12.5°	8048.5	8073.5	8134.7	8255.0	8407.0	8468.2	8425.1	8311.7	8209.6	8137.0
15°	7951.0	7978.2	8071.2	8252.7	8477.3	8620.2	8615.7	8465.9	8302.6	8189.2
17.5°	7799.0	7826.2	7960.1	8214.1	8531.7	8767.7	8831.2	8676.9	8447.8	8295.8
20°	7524.5	7549.5	7735.5	8091.6	8549.9	8924.2	9089.8	8953.7	8667.8	8461.4
22.5°	7168.4	7206.9	7424.7	7880.7	8506.8	9087.5	9384.7	9291.7	8924.2	8638.4
25°	6787.3	6828.1	7082.2	7622.1	8395.6	9205.5	9734.0	9675.0	9214.5	8858.4
27.5°	6458.3	6501.4	6778.2	7365.7	8223.2	9250.8	10078.8	10108.3	9566.2	9101.1
30°	6199.7	6240.6	6535.5	7159.3	8000.9	9205.5	10380.5	10584.7	9924.6	9312.1
32.5°	5916.2	5968.4	6279.1	6907.5	7737.8	9096.6	10643.7	11099.6	10339.7	9538.9
35°	5557.8	5605.4	5932.1	6562.7	7393.0	8921.9	10863.7	11671.3	10934.0	9883.7
37.5°	5122.2	5167.6	5492.0	6131.7	7050.4	8676.9	11031.6	12315.5	11641.8	10380.5
40°	4684.4	4727.5	5031.5	5650.8	6639.8	8363.9	11090.6	12946.2	12453.9	11063.3
42.5°	4282.9	4321.4	4600.5	5176.7	6179.3	7964.6	11013.4	13495.2	13182.1	11539.7
45°	3913.1	3947.1	4194.4	4732.0	5700.7	7479.2	10782.1	14085.0	14048.7	11880.0
47.5°	3491.2	3525.2	3781.5	4301.0	5222.0	6909.8	10389.6	14665.7	15253.2	12651.3
50°	2976.2	3005.7	3268.9	3804.2	4725.2	6304.1	9845.2	15121.7	16773.1	13819.5
52.5°	2366.0	2397.8	2654.1	3189.5	4135.4	5653.0	9128.3	15418.8	18528.9	15525.4
55°	1760.3	1783.0	2005.3	2486.2	3405.0	4911.2	8230.0	15502.8	20520.6	17857.4
57.5°	1277.2	1290.8	1433.7	1792.1	2581.5	3983.4	7138.9	15285.0	22891.2	20847.3
60°	1034.4	1039.0	1082.1	1240.9	1794.4	2935.4	5820.9	14536.4	25463.6	24701.4
62.5°	939.1	939.1	950.5	993.6	1213.6	1937.3	4226.2	12984.7	28222.1	29571.8
65°	873.4	873.4	877.9	898.3	957.3	1234.1	2667.7	10457.7	30547.3	35277.0
67.5°	814.4	816.7	814.4	821.2	855.2	911.9	1547.1	7222.8	31799.5	41188.7
70°	753.1	757.7	746.3	746.3	773.5	775.8	968.6	3960.8	30760.5	46143.0
72.5°	680.5	687.3	669.2	664.7	685.1	676.0	728.2	1901.0	26409.6	47622.1
75°	617.0	626.1	585.3	573.9	573.9	567.1	592.1	975.4	17140.6	38847.6
77.5°	560.3	578.5	512.7	476.4	467.3	446.9	483.2	596.6	7497.3	18238.5
80°	462.8	487.7	421.9	378.8	363.0	340.3	381.1	417.4	2229.9	4235.2
82.5°	344.8	356.2	299.4	269.9	256.3	240.5	285.8	290.4	725.9	1499.5
85°	220.0	224.6	183.7	158.8	152.0	145.2	181.5	158.8	276.8	1102.5
87.5°	77.1	88.5	70.3	63.5	68.1	56.7	83.9	47.6	77.1	778.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°

7976.0
7980.5
8032.7
8087.1
8107.5
8125.7
8171.0
8270.9
8422.8
8586.2
8785.8
9024.0
9200.9
9398.3
9727.2
10171.8
10841.0
11253.9
11494.4
12206.7
13261.5
14838.1
16997.7
19765.2
23338.1
27745.7
32967.7
38695.6
45487.4
49346.1
41551.6
17859.7
4056.0
1694.6
1601.5
964.1
0.0

OF REPORT)