

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: P941413

Luminaire Tested: **GALN-SB4D-940-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941413
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-940-U-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29236 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

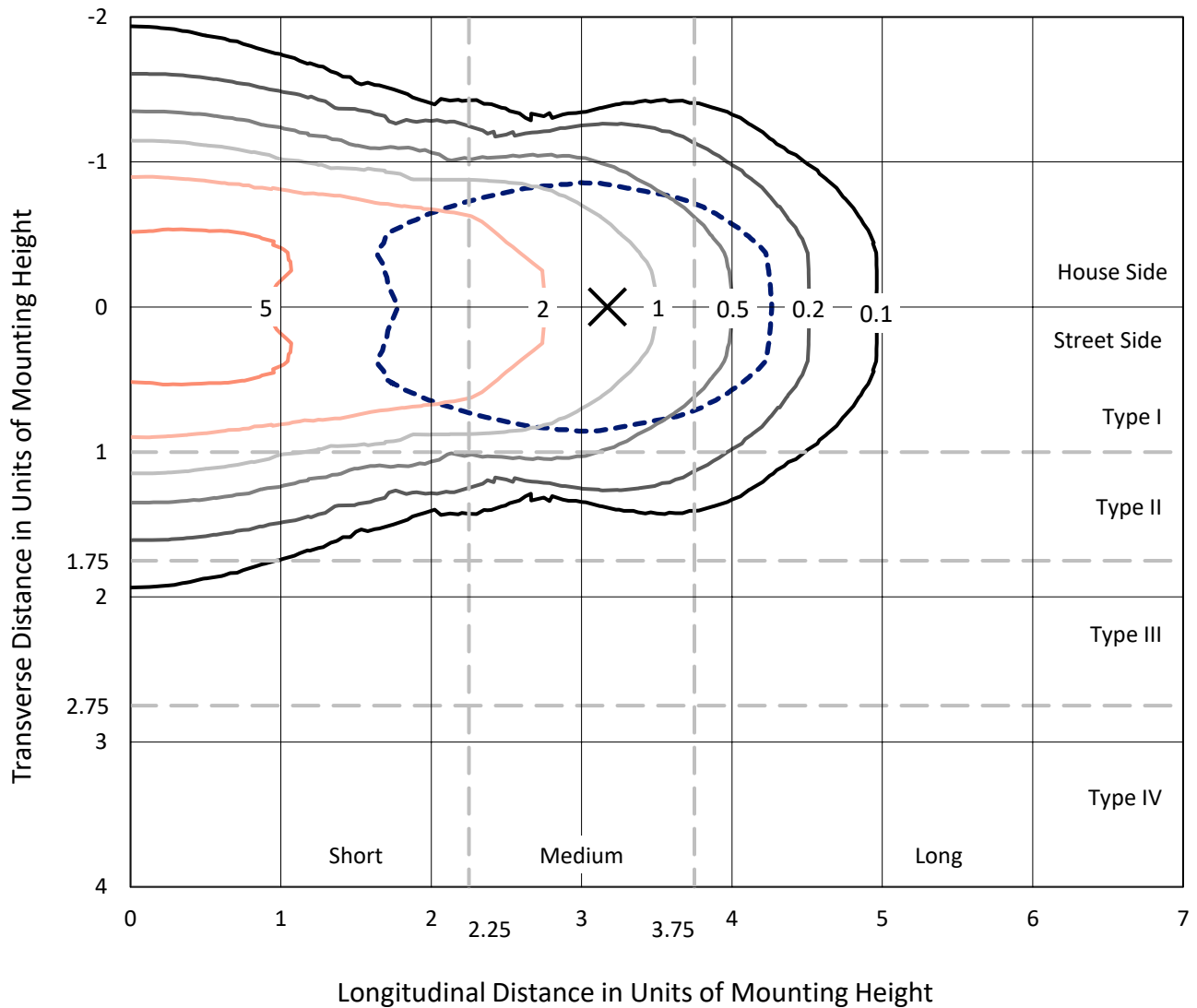
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

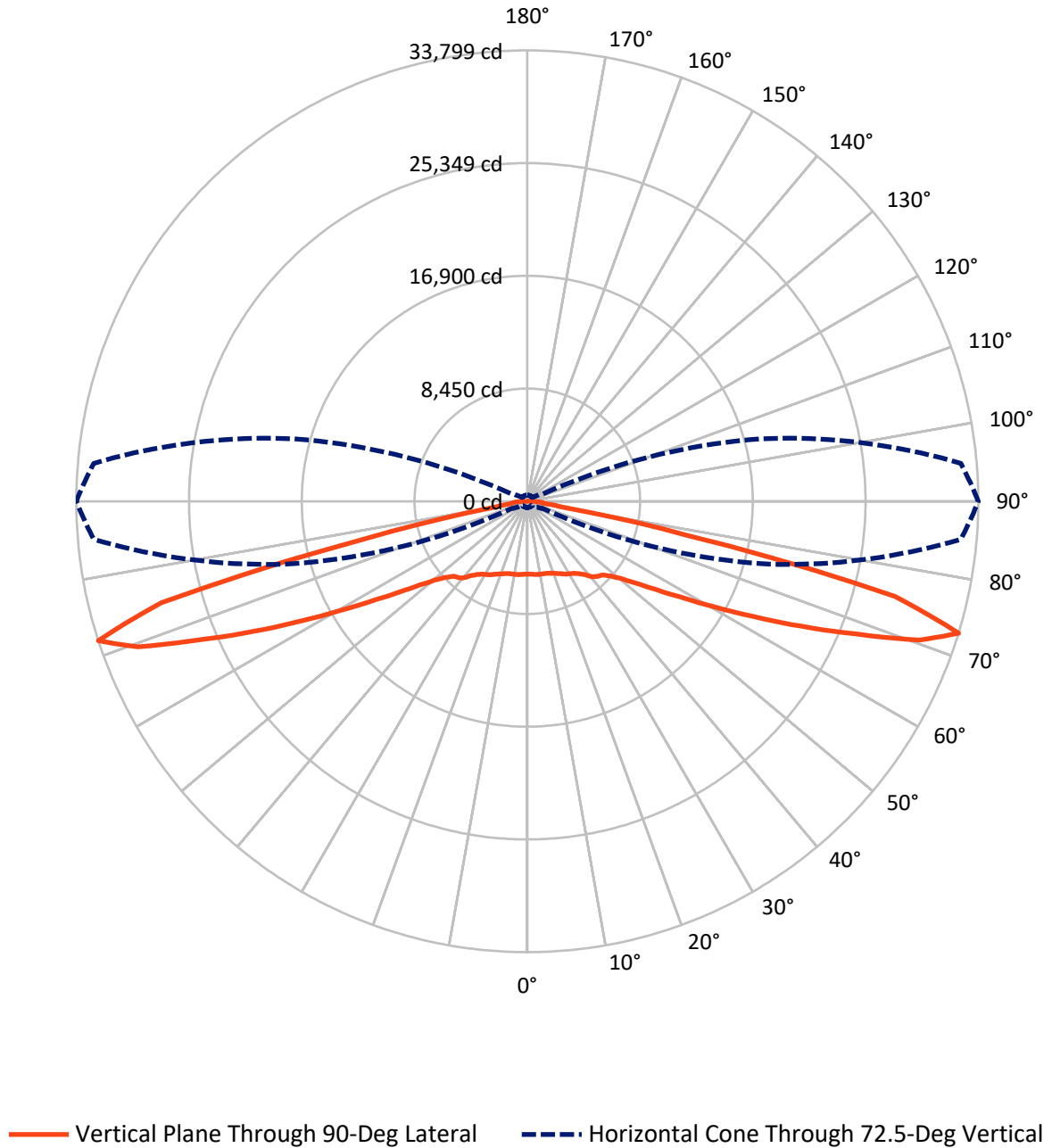
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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	14618.0	0.0	14618.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14618.0	0.0	14618.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	29236.0	0.0	29236.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	529.7	1.8
10°-20°	1619.6	5.5
20°-30°	2700.6	9.2
30°-40°	3714.2	12.7
40°-50°	4536.0	15.5
50°-60°	5246.4	17.9
60°-70°	6255.5	21.4
70°-80°	4365.9	14.9
80°-90°	268.2	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°	29236.0	100.0
0°-180°	29236.0	100.0

Coefficient of Utilization



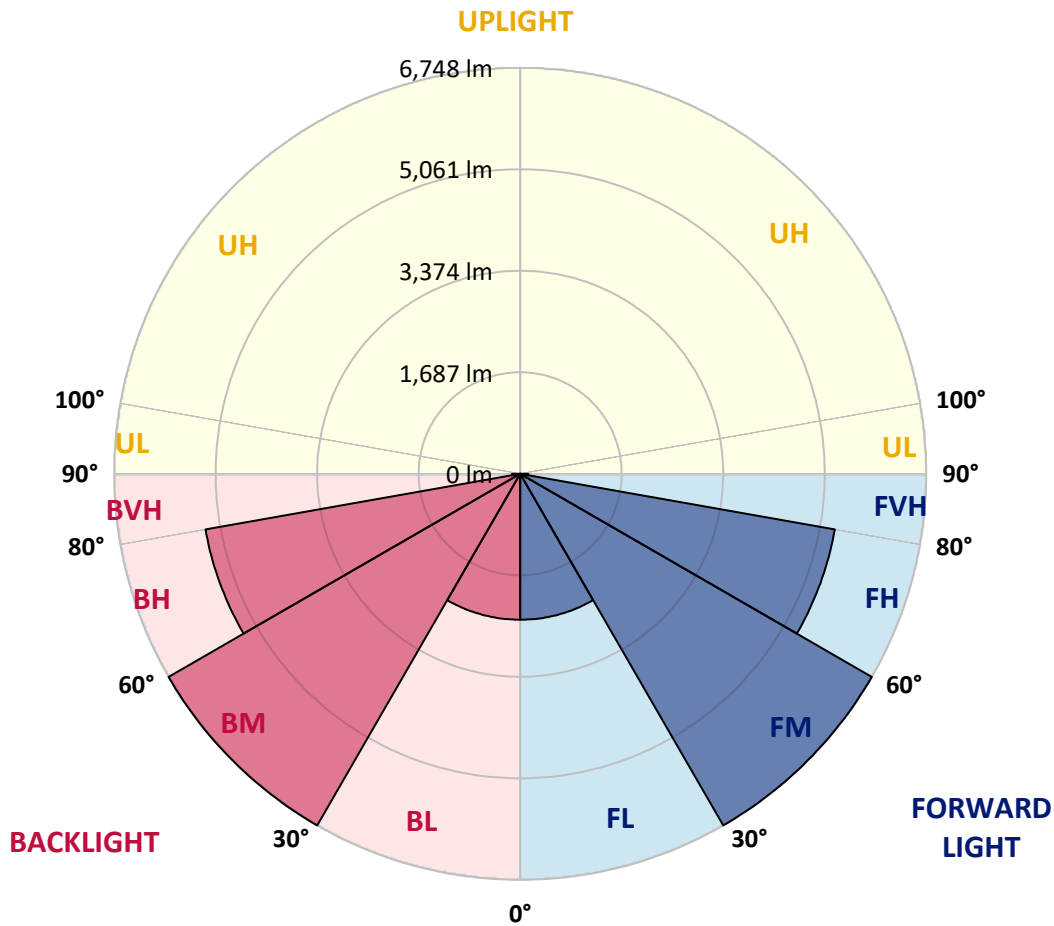
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2425.0	8.3			
FM (30°-60°)	6748.3	23.1			
FH (60°-80°)	5310.7	18.2			G3/7500
FVH (80°-90°)	134.1	0.5			G2/225
BL (0°-30°)	2425.0	8.3	B3/2500		
BM (30°-60°)	6748.3	23.1	B4/8500		
BH (60°-80°)	5310.7	18.2	B5		G5
BVH (80°-90°)	134.1	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°	5463.1	5463.1	5463.1	5463.1	5463.1	5463.1	5463.1	5463.1	5463.1	5463.1
2.5°	5467.7	5473.9	5473.9	5469.3	5480.1	5470.8	5470.8	5466.2	5470.8	5466.2
5°	5495.7	5503.5	5506.6	5505.0	5519.0	5511.2	5511.2	5505.0	5506.6	5501.9
7.5°	5548.5	5559.4	5565.6	5573.4	5593.6	5584.2	5578.0	5559.4	5551.6	5539.2
10°	5565.6	5578.0	5598.2	5638.6	5685.2	5686.8	5668.2	5621.5	5585.8	5557.8
12.5°	5512.8	5529.9	5571.8	5654.2	5758.3	5800.2	5770.7	5693.0	5623.1	5573.4
15°	5446.0	5464.6	5528.3	5652.6	5806.4	5904.3	5901.2	5798.7	5686.8	5609.1
17.5°	5341.9	5360.5	5452.2	5626.2	5843.7	6005.3	6048.8	5943.2	5786.2	5682.1
20°	5153.9	5170.9	5298.4	5542.3	5856.2	6112.5	6226.0	6132.7	5937.0	5795.6
22.5°	4909.9	4936.3	5085.5	5397.8	5826.6	6224.4	6427.9	6364.2	6112.5	5916.8
25°	4648.9	4676.8	4850.9	5220.7	5750.5	6305.2	6667.2	6626.8	6311.4	6067.5
27.5°	4423.6	4453.1	4642.7	5045.1	5632.4	6336.3	6903.4	6923.6	6552.2	6233.7
30°	4246.5	4274.4	4476.4	4903.7	5480.1	6305.2	7110.1	7249.9	6797.7	6378.2
32.5°	4052.2	4088.0	4300.8	4731.2	5299.9	6230.6	7290.3	7602.6	7082.1	6533.6
35°	3806.7	3839.4	4063.1	4495.1	5063.7	6111.0	7441.0	7994.1	7489.2	6769.8
37.5°	3508.4	3539.5	3761.7	4199.8	4829.1	5943.2	7556.0	8435.4	7973.9	7110.1
40°	3208.5	3238.1	3446.3	3870.4	4547.9	5728.7	7596.4	8867.4	8530.2	7577.7
42.5°	2933.5	2959.9	3151.0	3545.7	4232.5	5455.3	7543.6	9243.4	9029.0	7904.0
45°	2680.3	2703.6	2872.9	3241.2	3904.6	5122.8	7385.1	9647.4	9622.5	8137.1
47.5°	2391.3	2414.6	2590.1	2945.9	3576.8	4732.8	7116.3	10045.1	10447.5	8665.4
50°	2038.5	2058.7	2239.0	2605.7	3236.5	4317.9	6743.4	10357.4	11488.6	9465.6
52.5°	1620.6	1642.3	1817.9	2184.6	2832.5	3872.0	6252.4	10561.0	12691.2	10634.0
55°	1205.7	1221.3	1373.5	1702.9	2332.2	3363.9	5637.1	10618.5	14055.4	12231.3
57.5°	874.8	884.1	982.0	1227.5	1768.2	2728.4	4889.7	10469.3	15679.1	14279.1
60°	708.5	711.6	741.1	849.9	1229.0	2010.6	3987.0	9956.6	17441.1	16919.0
62.5°	643.3	643.3	651.0	680.6	831.3	1326.9	2894.7	8893.8	19330.5	20254.9
65°	598.2	598.2	601.3	615.3	655.7	845.3	1827.2	7162.9	20923.1	24162.7
67.5°	557.8	559.4	557.8	562.5	585.8	624.6	1059.7	4947.2	21780.7	28211.8
70°	515.9	519.0	511.2	511.2	529.8	531.4	663.5	2712.9	21069.1	31605.2
72.5°	466.1	470.8	458.4	455.3	469.2	463.0	498.8	1302.1	18089.0	32618.3
75°	422.6	428.8	400.9	393.1	393.1	388.4	405.5	668.1	11740.3	26608.3
77.5°	383.8	396.2	351.2	326.3	320.1	306.1	331.0	408.6	5135.2	12492.3
80°	317.0	334.1	289.0	259.5	248.6	233.1	261.0	285.9	1527.4	2900.9
82.5°	236.2	243.9	205.1	184.9	175.6	164.7	195.8	198.9	497.2	1027.0
85°	150.7	153.8	125.9	108.8	104.1	99.4	124.3	108.8	189.6	755.1
87.5°	52.8	60.6	48.2	43.5	46.6	38.8	57.5	32.6	52.8	532.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°

5463.1
5466.2
5501.9
5539.2
5553.2
5565.6
5596.7
5665.0
5769.1
5881.0
6017.8
6180.9
6302.1
6437.3
6662.6
6967.1
7425.5
7708.3
7873.0
8360.8
9083.3
10163.2
11642.4
13538.0
15985.2
19004.2
22580.9
26504.2
31156.2
33799.2
28460.4
12232.8
2778.1
1160.7
1097.0
660.4
0.0

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