

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: P944053

Luminaire Tested: **GALN-SB8D-827-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944053
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-SB8D-827-U-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 70784 lumens
Efficiency: N/A
Efficacy: 121.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

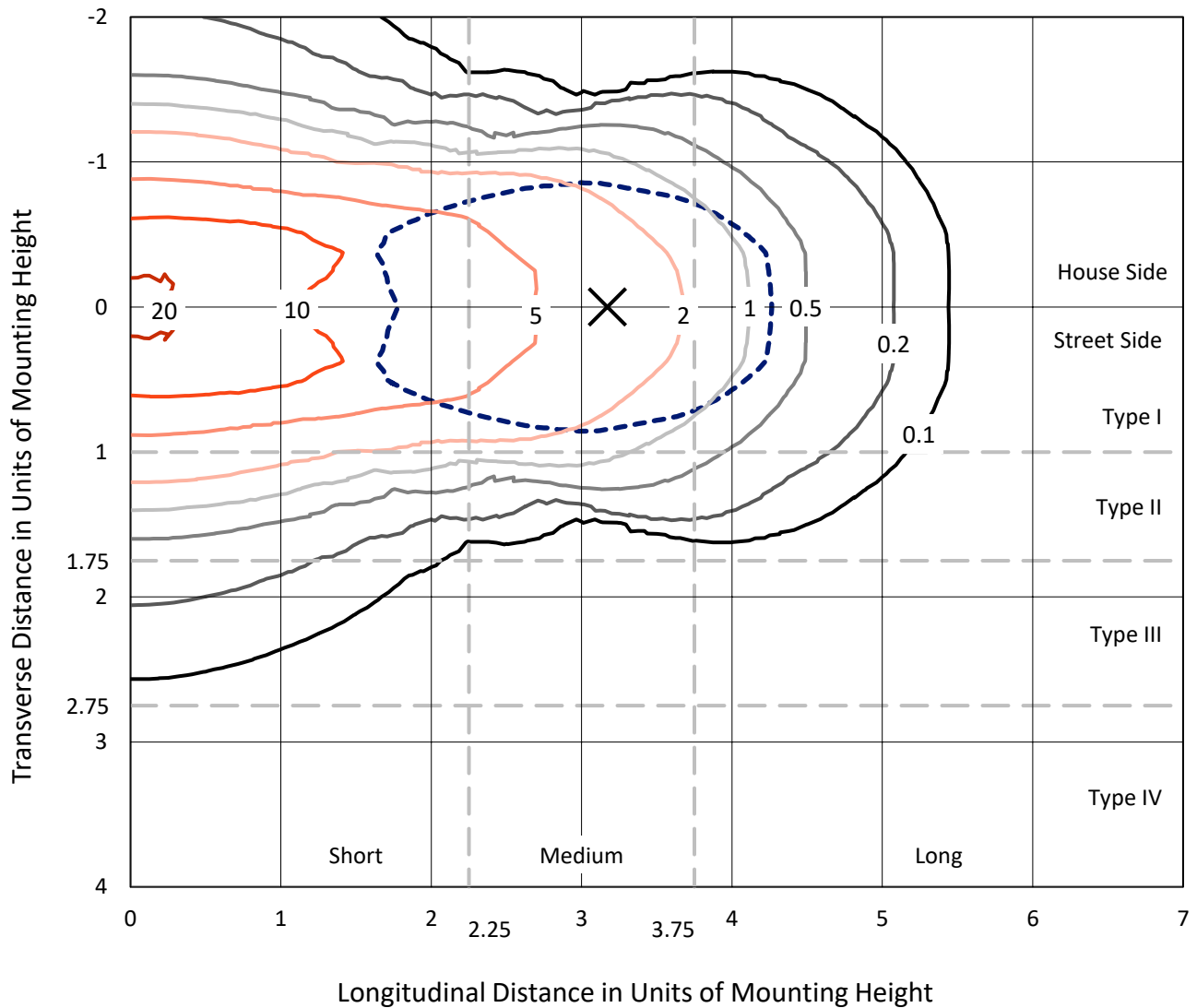
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

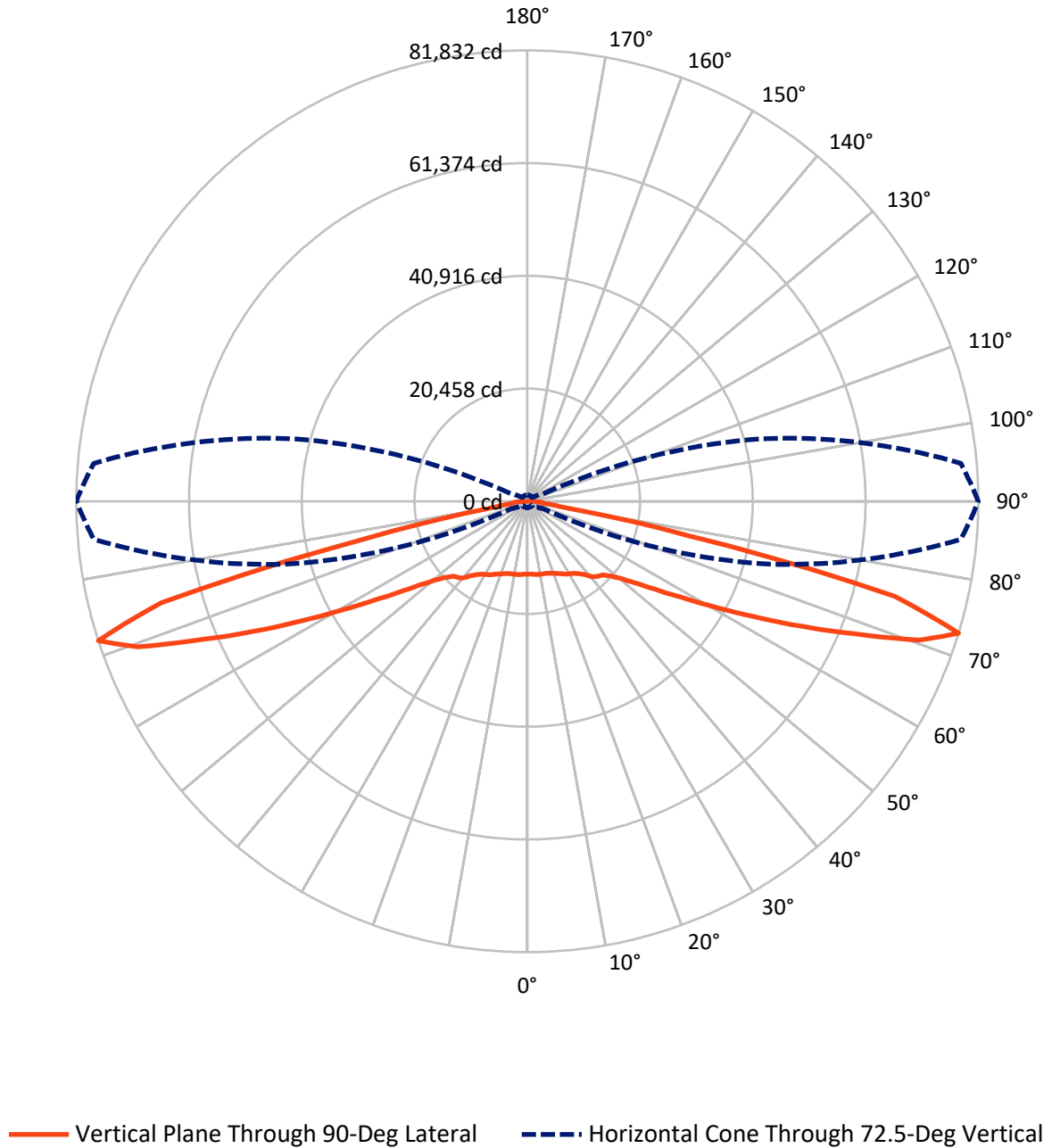
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.2 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	35392.0	0.0	35392.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	35392.0	0.0	35392.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	70784.0	0.0	70784.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1282.5	1.8
10°-20°	3921.3	5.5
20°-30°	6538.5	9.2
30°-40°	8992.5	12.7
40°-50°	10982.3	15.5
50°-60°	12702.1	17.9
60°-70°	15145.2	21.4
70°-80°	10570.4	14.9
80°-90°	649.2	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°	70784.0	100.0
0°-180°	70784.0	100.0

Coefficient of Utilization



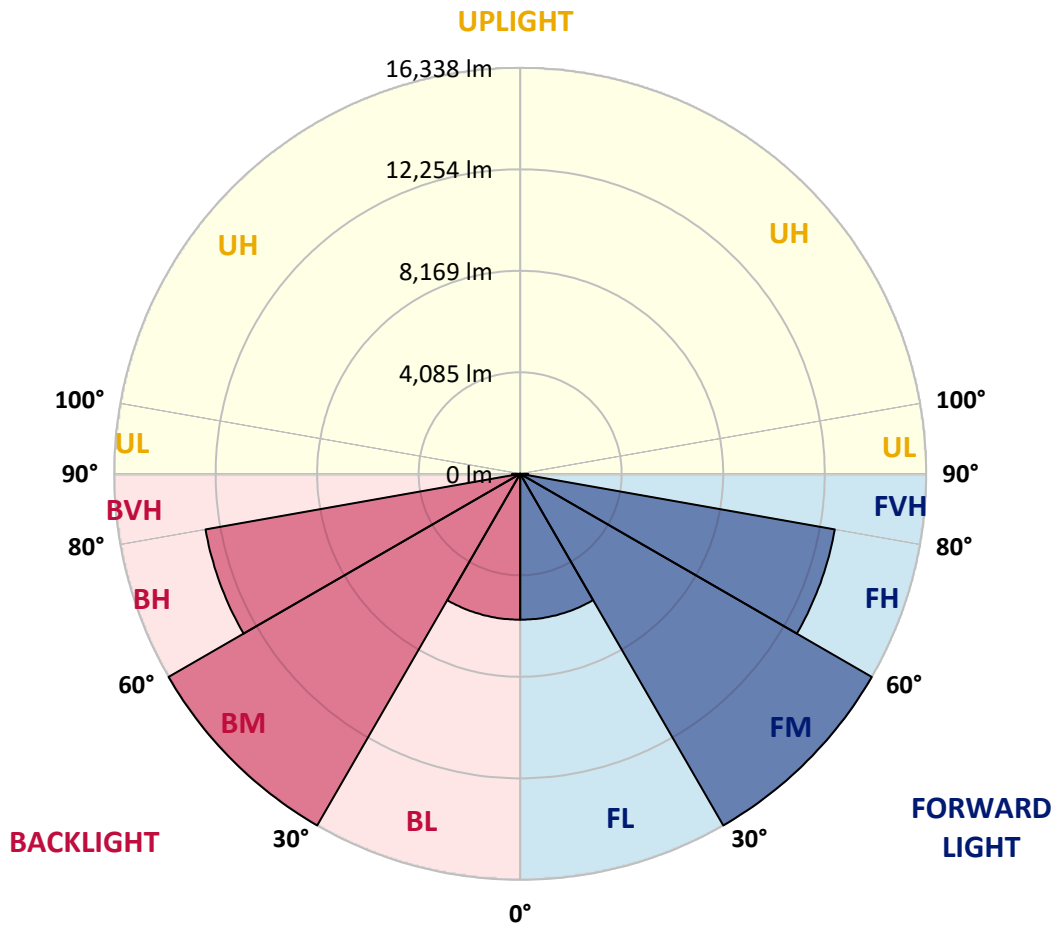
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5871.2	8.3			
FM (30°-60°)	16338.4	23.1			
FH (60°-80°)	12857.8	18.2			G5
FVH (80°-90°)	324.6	0.5			G3/500
BL (0°-30°)	5871.2	8.3	B5		
BM (30°-60°)	16338.4	23.1	B5		
BH (60°-80°)	12857.8	18.2	B5		G5
BVH (80°-90°)	324.6	0.5			G3/500
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°	13226.7	13226.7	13226.7	13226.7	13226.7	13226.7	13226.7	13226.7	13226.7	13226.7
2.5°	13238.0	13253.1	13253.1	13241.8	13268.1	13245.5	13245.5	13234.3	13245.5	13234.3
5°	13305.7	13324.5	13332.1	13328.3	13362.2	13343.4	13343.4	13328.3	13332.1	13320.8
7.5°	13433.6	13460.0	13475.0	13493.8	13542.7	13520.2	13505.1	13460.0	13441.2	13411.1
10°	13475.0	13505.1	13554.0	13651.8	13764.7	13768.4	13723.3	13610.4	13523.9	13456.2
12.5°	13347.1	13388.5	13490.1	13689.4	13941.5	14043.1	13971.6	13783.5	13614.2	13493.8
15°	13185.4	13230.5	13384.7	13685.7	14058.1	14295.1	14287.6	14039.3	13768.4	13580.4
17.5°	12933.3	12978.5	13200.4	13621.7	14148.4	14539.6	14645.0	14389.2	14009.2	13757.2
20°	12478.1	12519.5	12828.0	13418.6	14178.5	14799.2	15073.8	14848.1	14374.1	14031.8
22.5°	11887.5	11951.5	12312.6	13068.7	14107.0	15070.1	15562.9	15408.6	14799.2	14325.2
25°	11255.5	11323.2	11744.6	12639.9	13922.7	15265.7	16142.2	16044.4	15280.7	14690.1
27.5°	10710.0	10781.5	11240.5	12214.8	13636.8	15340.9	16714.0	16762.9	15863.8	15092.6
30°	10281.2	10348.9	10837.9	11872.5	13268.1	15265.7	17214.3	17552.9	16458.2	15442.5
32.5°	9811.0	9897.5	10412.9	11454.9	12831.7	15085.1	17650.7	18406.8	17146.6	15818.7
35°	9216.6	9295.6	9837.3	10883.1	12259.9	14795.4	18015.6	19354.8	18132.2	16390.5
37.5°	8494.3	8569.5	9107.5	10168.3	11691.9	14389.2	18294.0	20423.2	19305.9	17214.3
40°	7768.3	7839.7	8343.8	9370.8	11011.0	13870.0	18391.8	21469.0	20652.7	18346.6
42.5°	7102.4	7166.4	7629.1	8584.6	10247.3	13207.9	18263.9	22379.4	21860.2	19136.6
45°	6489.2	6545.7	6955.7	7847.3	9453.6	12402.9	17880.2	23357.5	23297.3	19700.9
47.5°	5789.5	5845.9	6271.0	7132.5	8659.8	11458.7	17229.4	24320.5	25294.8	20980.0
50°	4935.6	4984.5	5420.9	6308.7	7836.0	10454.2	16326.5	25076.6	27815.3	22917.3
52.5°	3923.6	3976.3	4401.4	5289.2	6857.9	9374.6	15137.8	25569.4	30727.0	25746.2
55°	2919.2	2956.8	3325.5	4123.0	5646.6	8144.5	13648.1	25708.6	34029.9	29613.4
57.5°	2117.9	2140.5	2377.5	2971.9	4281.0	6605.8	11838.6	25347.5	37961.0	34571.6
60°	1715.4	1722.9	1794.4	2057.7	2975.6	4867.9	9653.0	24106.1	42227.0	40963.0
62.5°	1557.4	1557.4	1576.2	1647.7	2012.6	3212.6	7008.4	21532.9	46801.4	49039.7
65°	1448.3	1448.3	1455.8	1489.7	1587.5	2046.5	4424.0	17342.2	50657.4	58500.9
67.5°	1350.5	1354.3	1350.5	1361.8	1418.2	1512.3	2565.6	11977.8	52733.9	68304.3
70°	1248.9	1256.5	1237.7	1237.7	1282.8	1286.6	1606.3	6568.2	51011.0	76520.2
72.5°	1128.6	1139.8	1109.8	1102.2	1136.1	1121.0	1207.6	3152.4	43795.7	78973.0
75°	1023.2	1038.3	970.6	951.8	951.8	940.5	981.8	1617.6	28424.7	64422.0
77.5°	929.2	959.3	850.2	790.0	774.9	741.1	801.3	989.4	12433.0	30245.4
80°	767.4	808.8	699.7	628.2	601.9	564.3	632.0	692.2	3697.9	7023.4
82.5°	571.8	590.6	496.6	447.7	425.1	398.8	474.0	481.5	1203.8	2486.6
85°	364.9	372.4	304.7	263.3	252.0	240.8	300.9	263.3	458.9	1828.3
87.5°	127.9	146.7	116.6	105.3	112.9	94.0	139.2	79.0	127.9	1290.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°

13226.7
13234.3
13320.8
13411.1
13444.9
13475.0
13550.3
13715.8
13967.8
14238.7
14569.7
14964.7
15258.1
15585.4
16130.9
16868.2
17978.0
18662.6
19061.4
20242.6
21991.9
24606.4
28187.7
32777.2
38702.1
46011.4
54671.3
64170.0
75433.0
81832.0
68906.2
29617.2
6726.2
2810.1
2655.9
1598.8
0.0

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