

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: P944083

Luminaire Tested: **GALN-SB8D-840-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944083
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-840-U-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 77863 lumens
Efficiency: N/A
Efficacy: 133.1 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

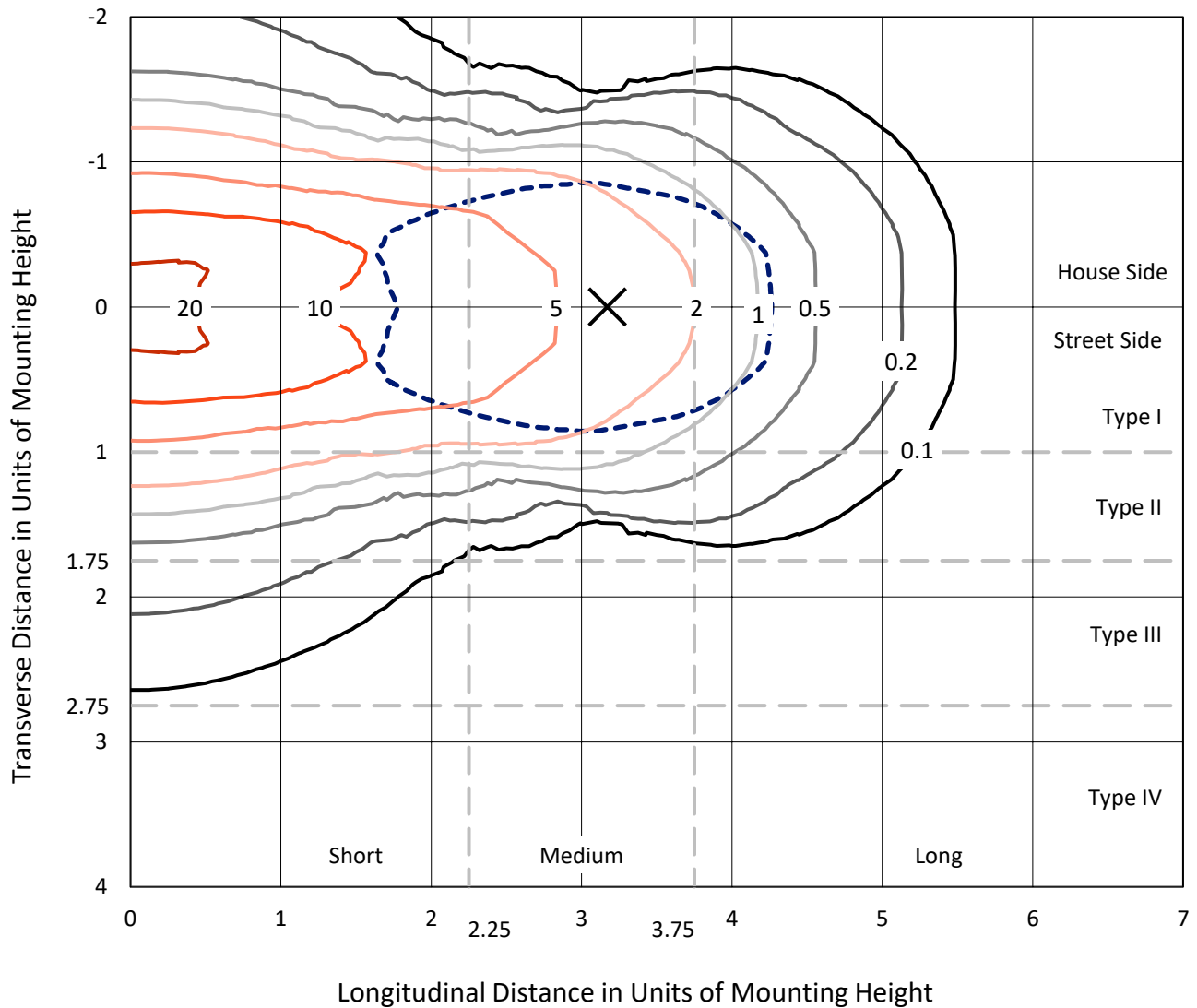
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

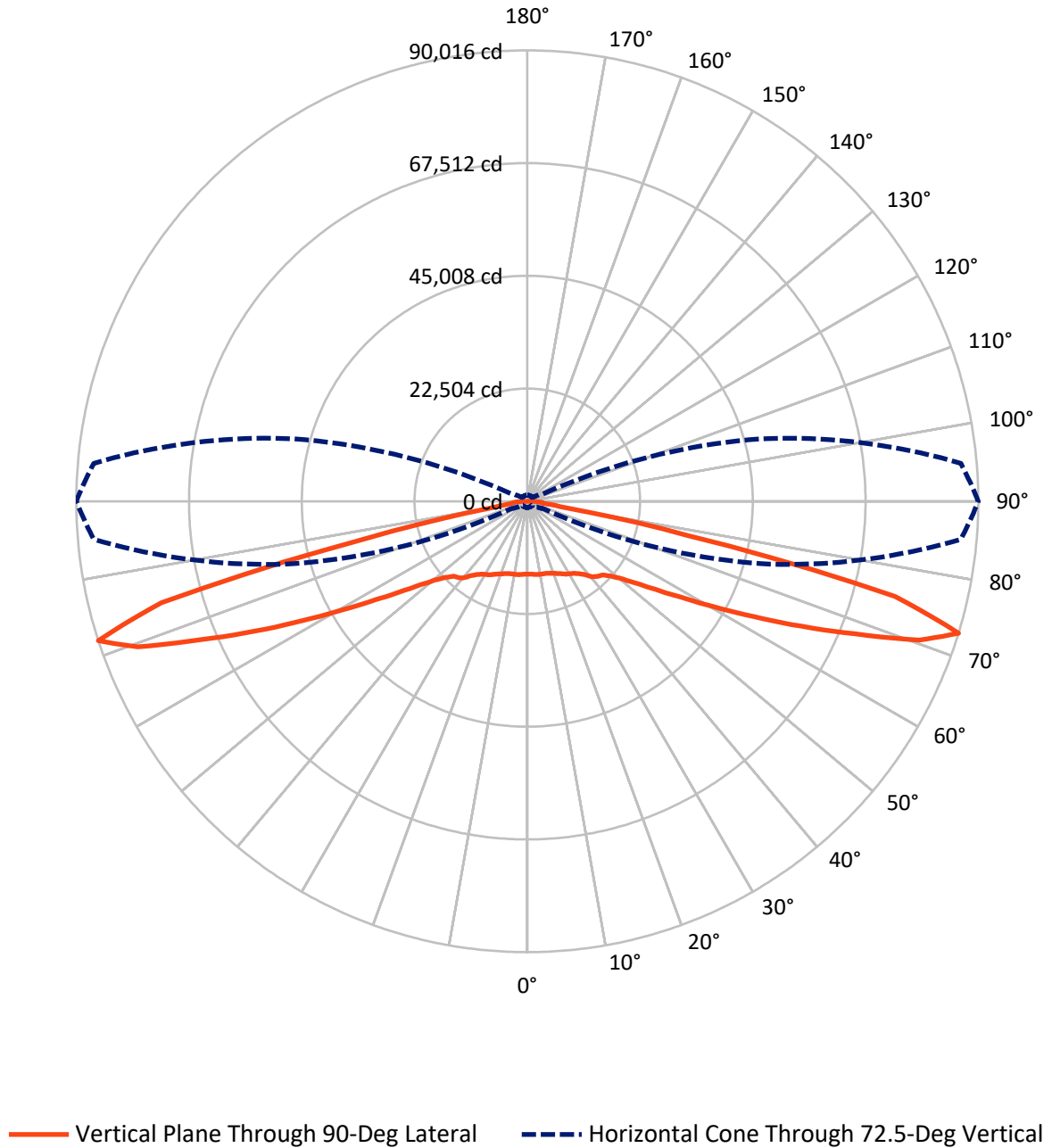
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.3 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	38931.5	0.0	38931.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	38931.5	0.0	38931.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	77863.0	0.0	77863.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1410.8	1.8
10°-20°	4313.5	5.5
20°-30°	7192.4	9.2
30°-40°	9891.8	12.7
40°-50°	12080.6	15.5
50°-60°	13972.5	17.9
60°-70°	16659.9	21.4
70°-80°	11627.5	14.9
80°-90°	714.2	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°	77863.0	100.0
0°-180°	77863.0	100.0

Coefficient of Utilization



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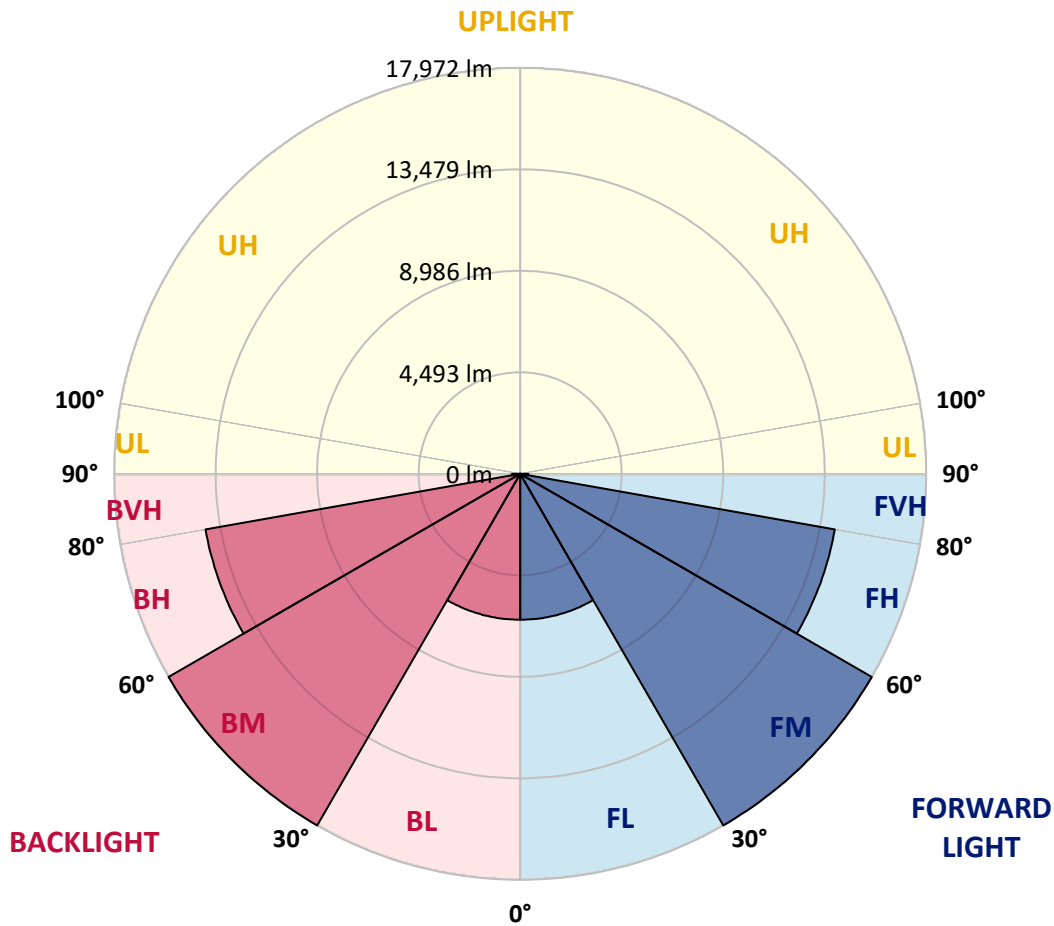
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6458.3	8.3			
FM (30°-60°)	17972.4	23.1			
FH (60°-80°)	14143.7	18.2			G5
FVH (80°-90°)	357.1	0.5			G3/500
BL (0°-30°)	6458.3	8.3	B5		
BM (30°-60°)	17972.4	23.1	B5		
BH (60°-80°)	14143.7	18.2	B5		G5
BVH (80°-90°)	357.1	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°	14549.5	14549.5	14549.5	14549.5	14549.5	14549.5	14549.5	14549.5	14549.5	14549.5
2.5°	14561.9	14578.5	14578.5	14566.1	14595.0	14570.2	14570.2	14557.8	14570.2	14557.8
5°	14636.4	14657.1	14665.4	14661.3	14698.5	14677.8	14677.8	14661.3	14665.4	14653.0
7.5°	14777.1	14806.1	14822.6	14843.3	14897.1	14872.3	14855.7	14806.1	14785.4	14752.3
10°	14822.6	14855.7	14909.5	15017.1	15141.3	15145.4	15095.8	14971.6	14876.4	14801.9
12.5°	14681.9	14727.5	14839.2	15058.5	15335.8	15447.5	15368.9	15162.0	14975.7	14843.3
15°	14504.0	14553.7	14723.3	15054.4	15464.0	15724.7	15716.5	15443.4	15145.4	14938.5
17.5°	14226.8	14276.4	14520.6	14984.0	15563.4	15993.7	16109.6	15828.2	15410.2	15133.0
20°	13726.0	13771.6	14110.9	14760.6	15596.5	16279.2	16581.3	16333.0	15811.6	15435.1
22.5°	13076.4	13146.7	13544.0	14375.7	15517.8	16577.2	17119.3	16949.6	16279.2	15757.8
25°	12381.2	12455.7	12919.1	13904.0	15315.1	16792.4	17756.5	17649.0	16808.9	16159.2
27.5°	11781.1	11859.8	12364.6	13436.4	15000.6	16875.1	18385.5	18439.3	17450.3	16602.0
30°	11309.4	11383.9	11921.8	13059.8	14595.0	16792.4	18935.9	19308.3	18104.1	16986.9
32.5°	10792.1	10887.3	11454.2	12600.5	14115.0	16593.7	19415.9	20247.7	18861.4	17400.7
35°	10138.3	10225.2	10821.1	11971.5	13486.0	16275.1	19817.3	21290.5	19945.6	18029.7
37.5°	9343.8	9426.6	10018.3	11185.3	12861.2	15828.2	20123.5	22465.7	21236.7	18935.9
40°	8545.2	8623.8	9178.3	10308.0	12112.2	15257.1	20231.1	23616.1	22718.1	20181.5
42.5°	7812.7	7883.1	8392.0	9443.1	11272.2	14528.8	20090.4	24617.5	24046.4	21050.5
45°	7138.2	7200.3	7651.3	8632.1	10399.0	13643.3	19668.3	25693.4	25627.2	21671.2
47.5°	6368.5	6430.6	6898.2	7845.8	9525.9	12604.6	18952.5	26752.8	27824.5	23078.1
50°	5429.2	5483.0	5963.0	6939.6	8619.6	11499.8	17959.3	27584.5	30597.0	25209.2
52.5°	4316.0	4374.0	4841.6	5818.2	7543.7	10312.1	16651.7	28126.6	33799.9	28321.1
55°	3211.2	3252.5	3658.1	4535.3	6211.3	8959.0	15013.0	28279.7	37433.2	32575.0
57.5°	2329.7	2354.6	2615.3	3269.1	4709.1	7266.5	13022.6	27882.4	41757.5	38029.0
60°	1887.0	1895.2	1973.9	2263.5	3273.2	5354.7	10618.3	26516.9	46450.1	45059.7
62.5°	1713.2	1713.2	1733.9	1812.5	2213.9	3533.9	7709.3	23686.4	51482.0	53944.1
65°	1593.2	1593.2	1601.4	1638.7	1746.3	2251.1	4866.4	19076.6	55723.5	64351.4
67.5°	1485.6	1489.7	1485.6	1498.0	1560.1	1663.5	2822.2	13175.7	58007.7	75135.3
70°	1373.8	1382.1	1361.4	1361.4	1411.1	1415.2	1767.0	7225.1	56112.5	84172.9
72.5°	1241.4	1253.8	1220.7	1212.5	1249.7	1233.2	1328.3	3467.7	48175.6	86870.9
75°	1125.6	1142.1	1067.6	1046.9	1046.9	1034.5	1080.0	1779.4	31267.4	70864.8
77.5°	1022.1	1055.2	935.2	869.0	852.4	815.2	881.4	1088.3	13676.4	33270.2
80°	844.2	889.7	769.7	691.1	662.1	620.7	695.2	761.4	4067.7	7725.8
82.5°	629.0	649.7	546.2	492.4	467.6	438.6	521.4	529.7	1324.2	2735.3
85°	401.4	409.7	335.2	289.7	277.3	264.8	331.0	289.7	504.8	2011.1
87.5°	140.7	161.4	128.3	115.9	124.1	103.5	153.1	86.9	140.7	1419.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°

14549.5
14557.8
14653.0
14752.3
14789.5
14822.6
14905.4
15087.5
15364.7
15662.7
16026.8
16461.3
16784.1
17144.1
17744.1
18555.2
19775.9
20529.1
20967.7
22267.1
24191.3
27067.2
31006.7
36055.2
42572.7
50613.0
60138.9
70587.5
82977.0
90015.9
75797.4
32579.2
7398.9
3091.2
2921.5
1758.7
0.0

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