

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: P944023

Luminaire Tested: **GALN-SB8D-740-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944023
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-740-U-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 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: 86121 lumens
Efficiency: N/A
Efficacy: 147.2 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

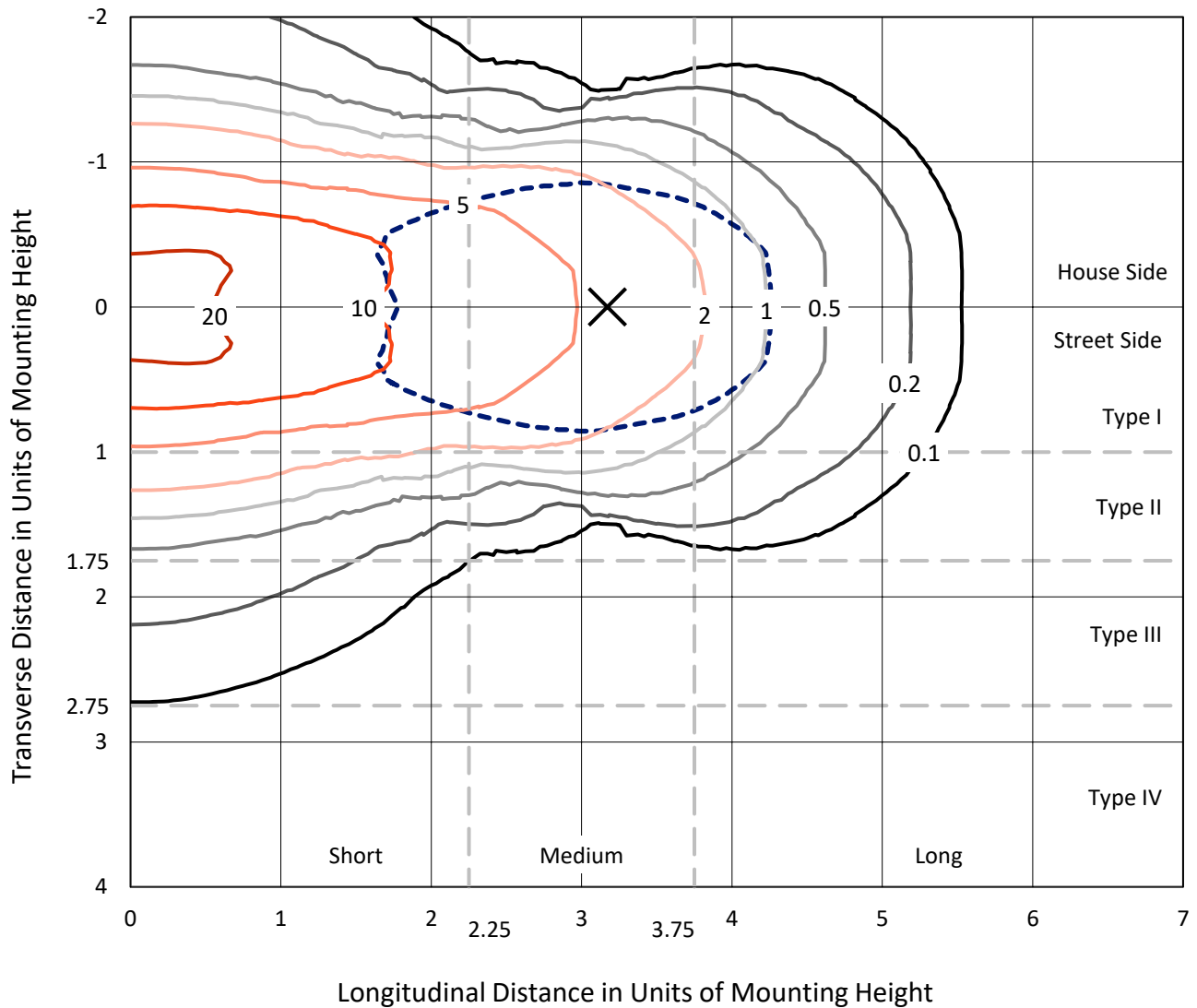
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

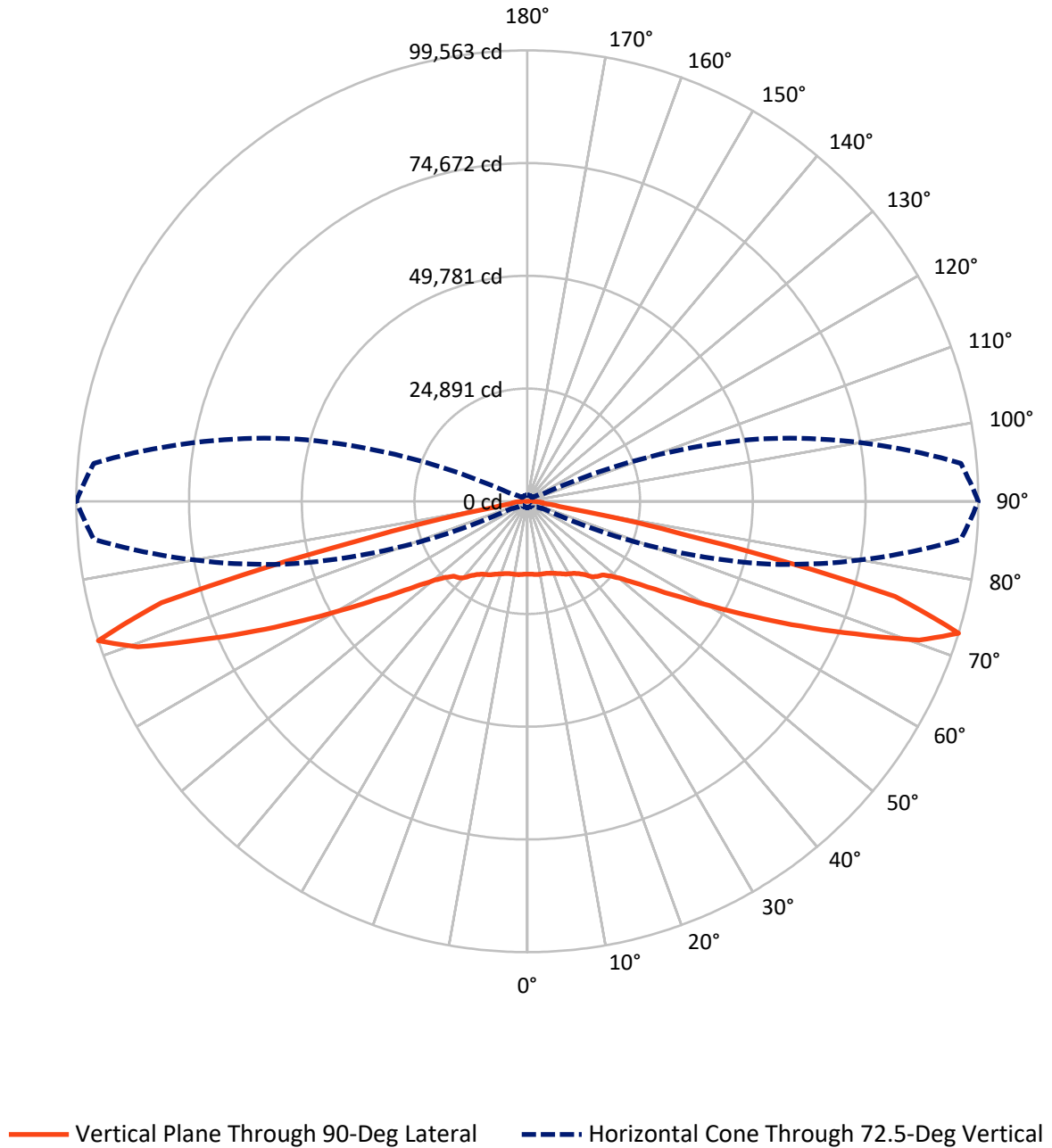
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.7 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	43060.5	0.0	43060.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	43060.5	0.0	43060.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	86121.0	0.0	86121.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1560.4	1.8
10°-20°	4771.0	5.5
20°-30°	7955.2	9.2
30°-40°	10940.9	12.7
40°-50°	13361.8	15.5
50°-60°	15454.3	17.9
60°-70°	18426.8	21.4
70°-80°	12860.7	14.9
80°-90°	789.9	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°	86121.0	100.0
0°-180°	86121.0	100.0

Coefficient of Utilization



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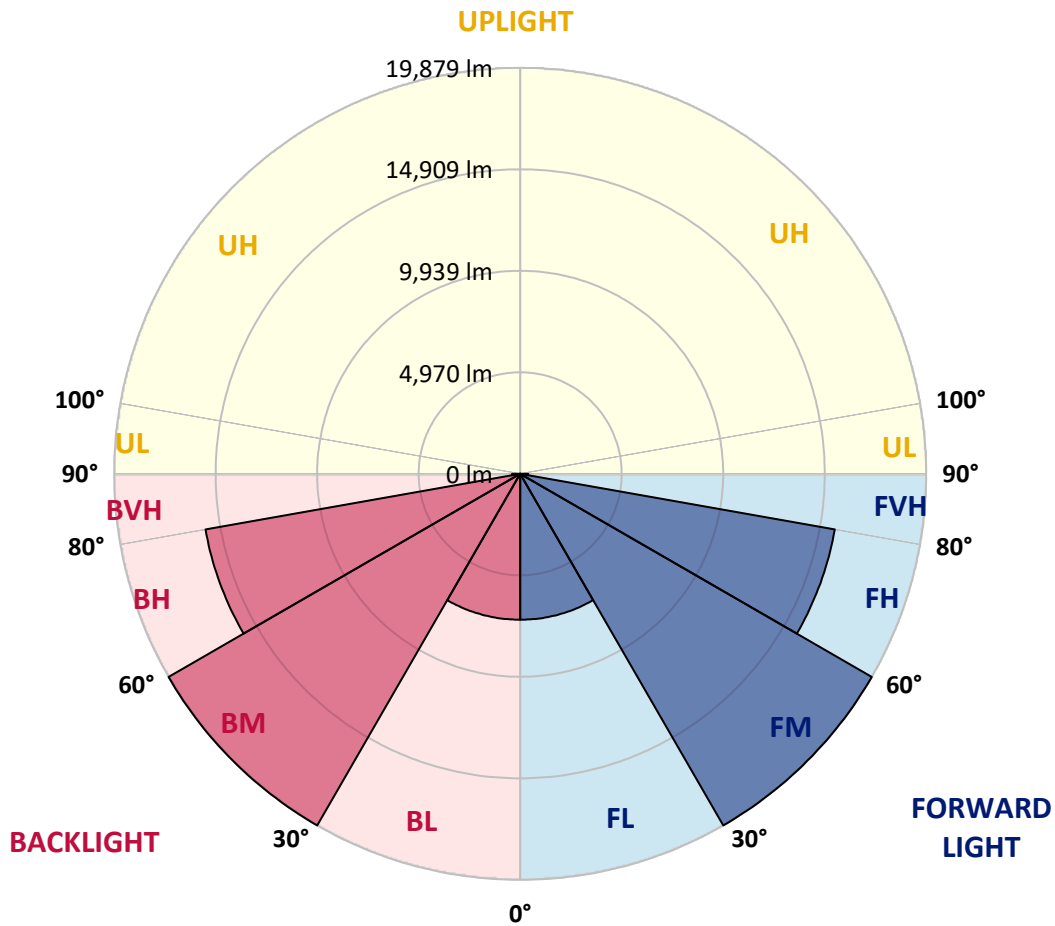
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7143.3	8.3			
FM (30°-60°)	19878.5	23.1			
FH (60°-80°)	15643.7	18.2			G5
FVH (80°-90°)	395.0	0.5			G3/500
BL (0°-30°)	7143.3	8.3	B5		
BM (30°-60°)	19878.5	23.1	B5		
BH (60°-80°)	15643.7	18.2	B5		G5
BVH (80°-90°)	395.0	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°	16092.6	16092.6	16092.6	16092.6	16092.6	16092.6	16092.6	16092.6	16092.6	16092.6
2.5°	16106.3	16124.7	16124.7	16110.9	16143.0	16115.5	16115.5	16101.8	16115.5	16101.8
5°	16188.7	16211.6	16220.8	16216.2	16257.4	16234.5	16234.5	16216.2	16220.8	16207.0
7.5°	16344.4	16376.4	16394.7	16417.6	16477.1	16449.6	16431.3	16376.4	16353.5	16316.9
10°	16394.7	16431.3	16490.8	16609.8	16747.1	16751.7	16696.8	16559.5	16454.2	16371.8
12.5°	16239.1	16289.4	16413.0	16655.6	16962.2	17085.8	16998.9	16770.0	16564.0	16417.6
15°	16042.3	16097.2	16284.9	16651.0	17104.1	17392.5	17383.3	17081.2	16751.7	16522.9
17.5°	15735.6	15790.5	16060.6	16573.2	17214.0	17690.0	17818.1	17506.9	17044.6	16738.0
20°	15181.8	15232.1	15607.5	16326.0	17250.6	18005.8	18339.9	18065.3	17488.6	17072.1
22.5°	14463.2	14541.0	14980.4	15900.4	17163.6	18335.3	18934.9	18747.3	18005.8	17429.1
25°	13694.3	13776.7	14289.3	15378.6	16939.4	18573.3	19639.8	19520.8	18591.6	17873.1
27.5°	13030.6	13117.6	13676.0	14861.4	16591.5	18664.9	20335.5	20395.0	19301.1	18362.8
30°	12508.9	12591.2	13186.2	14444.9	16143.0	18573.3	20944.2	21356.1	20024.2	18788.5
32.5°	11936.7	12042.0	12669.0	13936.9	15612.0	18353.6	21475.1	22395.1	20861.8	19246.1
35°	11213.6	11309.7	11968.8	13241.2	14916.3	18001.2	21919.1	23548.5	22061.0	19941.8
37.5°	10334.8	10426.3	11080.8	12371.5	14225.2	17506.9	22257.8	24848.4	23489.0	20944.2
40°	9451.4	9538.4	10151.7	11401.2	13396.8	16875.3	22376.8	26120.8	25127.6	22321.9
42.5°	8641.3	8719.1	9282.1	10444.6	12467.7	16069.7	22221.2	27228.4	26596.8	23283.0
45°	7895.3	7963.9	8462.8	9547.6	11501.9	15090.3	21754.3	28418.4	28345.2	23969.6
47.5°	7044.0	7112.6	7629.8	8677.9	10536.2	13941.4	20962.5	29590.1	30775.5	25525.7
50°	6005.0	6064.5	6595.4	7675.6	9533.8	12719.4	19864.0	30510.1	33842.1	27882.9
52.5°	4773.8	4837.9	5355.1	6435.2	8343.8	11405.8	18417.7	31109.6	37384.7	31324.8
55°	3551.7	3597.5	4046.0	5016.4	6870.0	9909.1	16605.2	31279.0	41403.2	36029.9
57.5°	2576.8	2604.3	2892.6	3615.8	5208.6	8037.2	14403.7	30839.6	46186.2	42062.3
60°	2087.1	2096.3	2183.2	2503.6	3620.4	5922.6	11744.5	29329.2	51376.5	49838.6
62.5°	1894.9	1894.9	1917.7	2004.7	2448.7	3908.7	8526.9	26198.6	56942.1	59665.3
65°	1762.1	1762.1	1771.3	1812.5	1931.5	2489.9	5382.5	21099.8	61633.4	71176.4
67.5°	1643.1	1647.7	1643.1	1656.9	1725.5	1839.9	3121.5	14573.1	64159.9	83104.0
70°	1519.6	1528.7	1505.8	1505.8	1560.7	1565.3	1954.4	7991.4	62063.7	93100.1
72.5°	1373.1	1386.8	1350.2	1341.1	1382.2	1363.9	1469.2	3835.5	53285.1	96084.3
75°	1244.9	1263.2	1180.9	1158.0	1158.0	1144.2	1194.6	1968.1	34583.6	78380.6
77.5°	1130.5	1167.1	1034.4	961.2	942.9	901.7	974.9	1203.7	15126.9	36798.8
80°	933.7	984.0	851.3	764.4	732.3	686.5	768.9	842.2	4499.2	8545.2
82.5°	695.7	718.6	604.2	544.7	517.2	485.2	576.7	585.9	1464.6	3025.4
85°	444.0	453.1	370.7	320.4	306.7	292.9	366.2	320.4	558.4	2224.4
87.5°	155.6	178.5	141.9	128.2	137.3	114.4	169.3	96.1	155.6	1569.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°

16092.6
16101.8
16207.0
16316.9
16358.1
16394.7
16486.2
16687.6
16994.3
17323.8
17726.6
18207.2
18564.2
18962.4
19626.0
20523.1
21873.3
22706.3
23191.5
24628.7
26757.0
29937.9
34295.2
39879.1
47087.8
55980.9
66517.1
78073.9
91777.4
99562.8
83836.3
36034.5
8183.6
3419.0
3231.3
1945.2
0.0

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