

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: P944683

Luminaire Tested: **GALN-SB9D-730-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944683
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-SB9D-730-U-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 91692 lumens
Efficiency: N/A
Efficacy: 139.3 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): 658
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



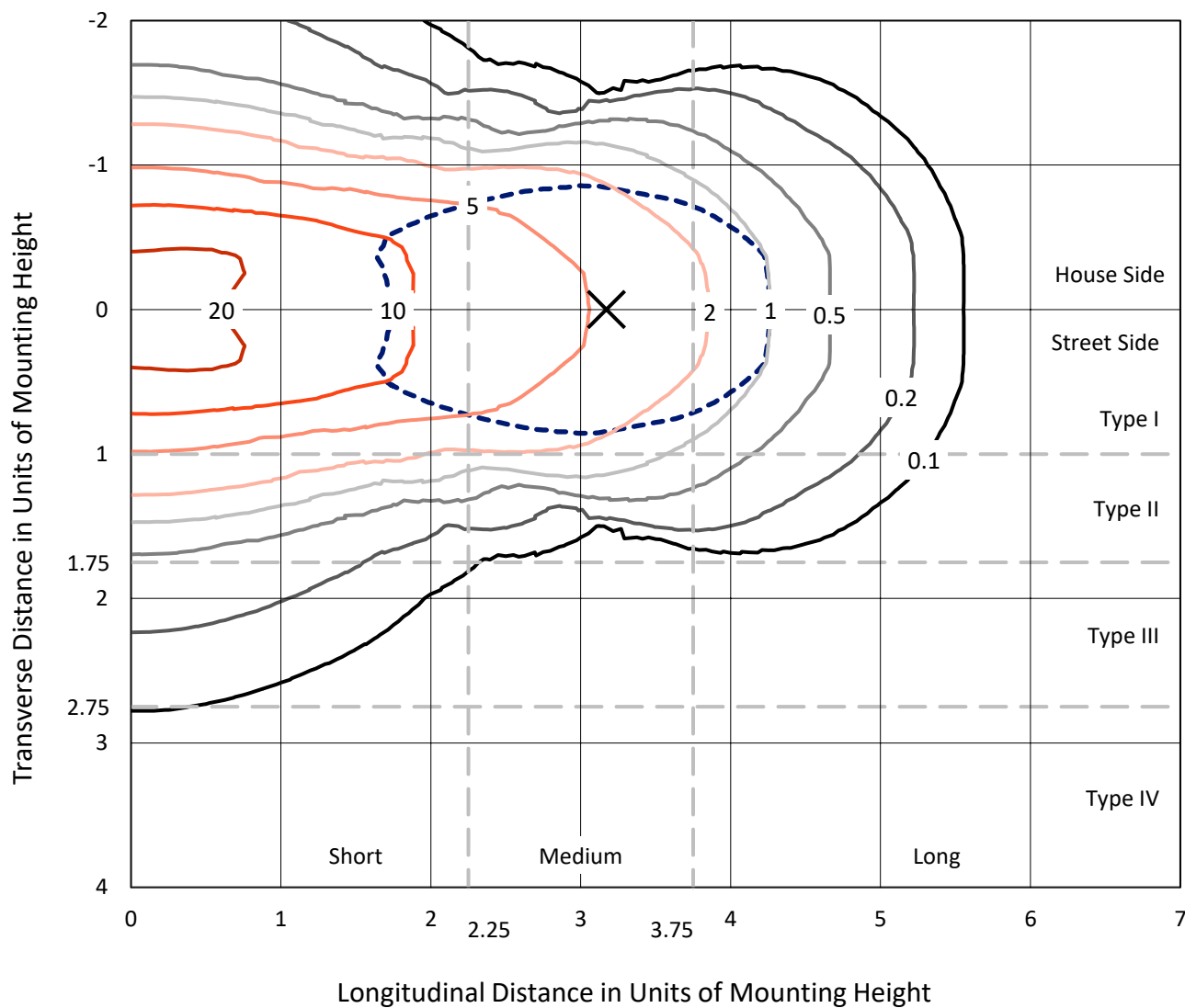
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

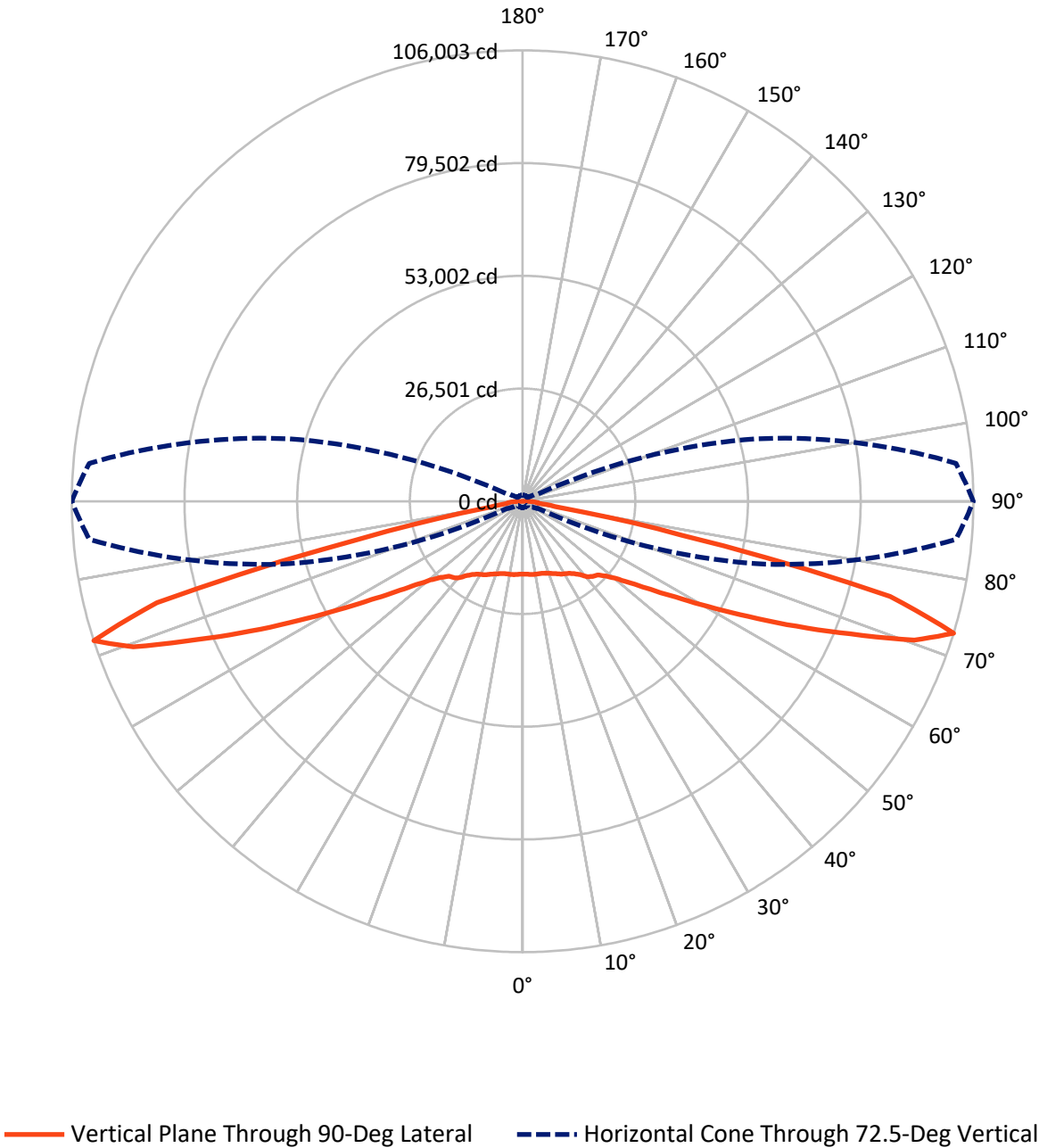
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 27.4 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	45846.0	0.0	45846.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	45846.0	0.0	45846.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	91692.0	0.0	91692.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1661.3	1.8
10°-20°	5079.6	5.5
20°-30°	8469.8	9.2
30°-40°	11648.6	12.7
40°-50°	14226.2	15.5
50°-60°	16454.1	17.9
60°-70°	19618.8	21.4
70°-80°	13692.6	14.9
80°-90°	841.0	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°	91692.0	100.0
0°-180°	91692.0	100.0

Coefficient of Utilization



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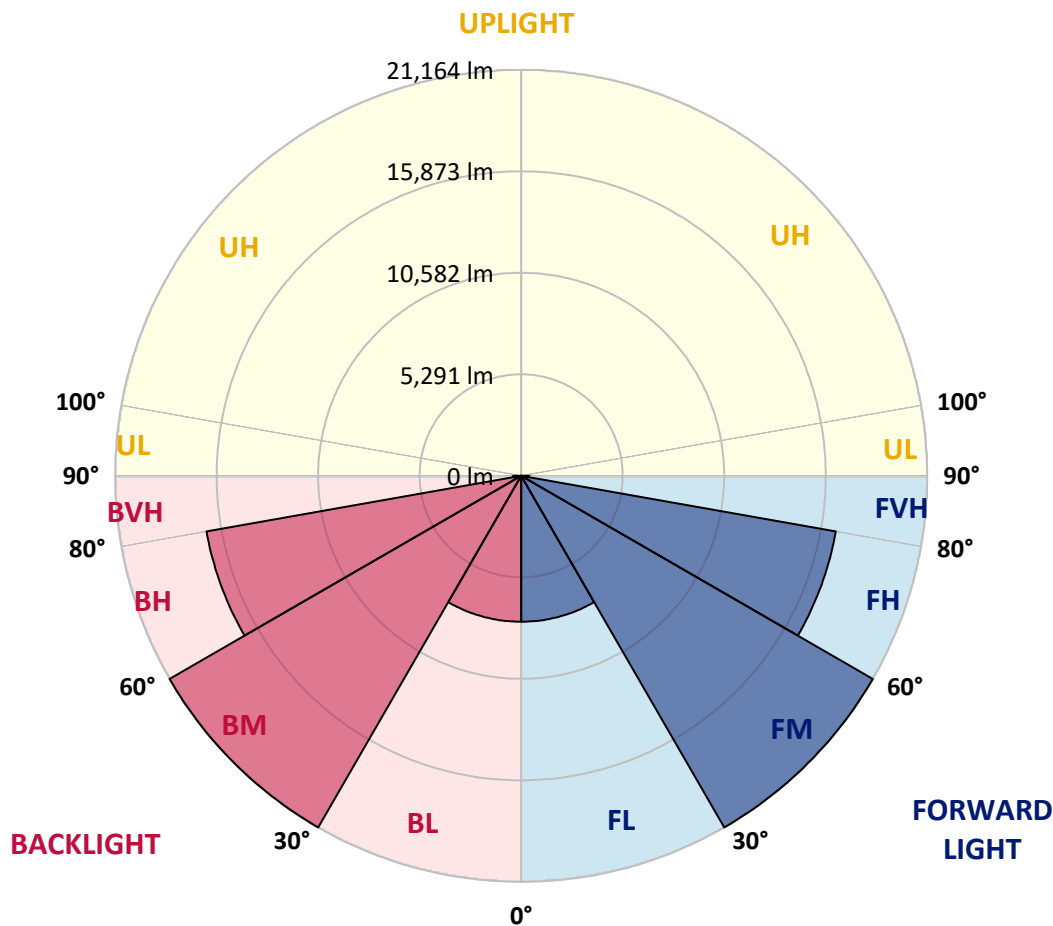
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	7605.4	8.3			
FM	(30°-60°)	21164.4	23.1			
FH	(60°-80°)	16655.7	18.2			G5
FVH	(80°-90°)	420.5	0.5			G3/500
BL	(0°-30°)	7605.4	8.3	B5		
BM	(30°-60°)	21164.4	23.1	B5		
BH	(60°-80°)	16655.7	18.2	B5		G5
BVH	(80°-90°)	420.5	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°	17133.6	17133.6	17133.6	17133.6	17133.6	17133.6	17133.6	17133.6	17133.6	17133.6
2.5°	17148.2	17167.7	17167.7	17153.1	17187.2	17158.0	17158.0	17143.4	17158.0	17143.4
5°	17236.0	17260.3	17270.1	17265.2	17309.0	17284.7	17284.7	17265.2	17270.1	17255.4
7.5°	17401.6	17435.7	17455.2	17479.6	17543.0	17513.7	17494.2	17435.7	17411.4	17372.4
10°	17455.2	17494.2	17557.6	17684.3	17830.5	17835.3	17776.9	17630.7	17518.6	17430.9
12.5°	17289.6	17343.2	17474.7	17733.0	18059.5	18191.1	18098.5	17854.8	17635.5	17479.6
15°	17080.0	17138.5	17338.3	17728.1	18210.6	18517.6	18507.8	18186.2	17835.3	17591.7
17.5°	16753.5	16812.0	17099.5	17645.3	18327.5	18834.3	18970.8	18639.4	18147.2	17820.7
20°	16163.9	16217.5	16617.1	17382.1	18366.5	19170.5	19526.3	19233.9	18619.9	18176.4
22.5°	15398.8	15481.7	15949.5	16929.0	18273.9	19521.4	20159.8	19960.0	19170.5	18556.5
25°	14580.1	14667.9	15213.6	16373.4	18035.1	19774.8	20910.2	20783.5	19794.3	19029.2
27.5°	13873.6	13966.1	14560.7	15822.8	17664.8	19872.3	21650.9	21714.3	20549.6	19550.6
30°	13318.0	13405.7	14039.2	15379.3	17187.2	19774.8	22299.0	22737.6	21319.6	20003.8
32.5°	12708.9	12821.0	13488.6	14838.4	16621.9	19540.9	22864.3	23843.8	22211.3	20491.1
35°	11939.0	12041.3	12743.0	14097.7	15881.2	19165.7	23337.0	25071.8	23488.1	21231.8
37.5°	11003.3	11100.8	11797.6	13171.8	15145.4	18639.4	23697.6	26455.7	25008.5	22299.0
40°	10062.8	10155.4	10808.4	12138.7	14263.4	17966.9	23824.3	27810.5	26753.0	23765.8
42.5°	9200.3	9283.1	9882.5	11120.3	13274.2	17109.3	23658.6	28989.7	28317.3	24789.2
45°	8406.0	8479.1	9010.3	10165.2	12246.0	16066.4	23161.6	30256.7	30178.8	25520.1
47.5°	7499.6	7572.7	8123.4	9239.3	11217.7	14843.3	22318.5	31504.2	32766.3	27177.0
50°	6393.4	6456.8	7022.1	8172.1	10150.5	13542.2	21149.0	32483.7	36031.3	29686.6
52.5°	5082.6	5150.8	5701.5	6851.5	8883.6	12143.6	19609.1	33122.1	39803.0	33351.1
55°	3781.5	3830.2	4307.8	5340.9	7314.4	10550.1	17679.4	33302.4	44081.5	38360.6
57.5°	2743.5	2772.8	3079.8	3849.7	5545.5	8557.1	15335.5	32834.6	49173.9	44783.3
60°	2222.1	2231.9	2324.4	2665.6	3854.6	6305.7	12504.2	31226.5	54699.9	53062.6
62.5°	2017.4	2017.4	2041.8	2134.4	2607.1	4161.6	9078.5	27893.3	60625.5	63525.0
65°	1876.1	1876.1	1885.9	1929.7	2056.4	2650.9	5730.7	22464.7	65620.4	75780.7
67.5°	1749.4	1754.3	1749.4	1764.0	1837.1	1959.0	3323.4	15515.8	68310.3	88479.8
70°	1617.9	1627.6	1603.2	1603.2	1661.7	1666.6	2080.8	8508.3	66078.5	99122.6
72.5°	1461.9	1476.5	1437.5	1427.8	1471.7	1452.2	1564.2	4083.6	56732.0	102299.8
75°	1325.5	1345.0	1257.2	1232.9	1232.9	1218.3	1271.9	2095.4	36820.7	83450.9
77.5°	1203.6	1242.6	1101.3	1023.3	1003.8	960.0	1038.0	1281.6	16105.4	39179.3
80°	994.1	1047.7	906.4	813.8	779.7	731.0	818.7	896.6	4790.2	9098.0
82.5°	740.7	765.1	643.2	579.9	550.7	516.5	614.0	623.7	1559.4	3221.1
85°	472.7	482.4	394.7	341.1	326.5	311.9	389.8	341.1	594.5	2368.3
87.5°	165.7	190.0	151.1	136.4	146.2	121.8	180.3	102.3	165.7	1671.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°

17133.6
17143.4
17255.4
17372.4
17416.3
17455.2
17552.7
17767.1
18093.6
18444.5
18873.3
19385.0
19765.1
20189.0
20895.6
21850.7
23288.3
24175.2
24691.7
26221.8
28487.8
31874.6
36513.7
42458.8
50133.9
59602.2
70819.9
83124.4
97714.3
106003.3
89259.5
38365.5
8713.0
3640.2
3440.4
2071.0
0.0

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