

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: P950231

Luminaire Tested: **GALN-SB4D-730-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950231
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4D-730-U-RW
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41997 lumens
Efficiency: N/A
Efficacy: 143.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
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

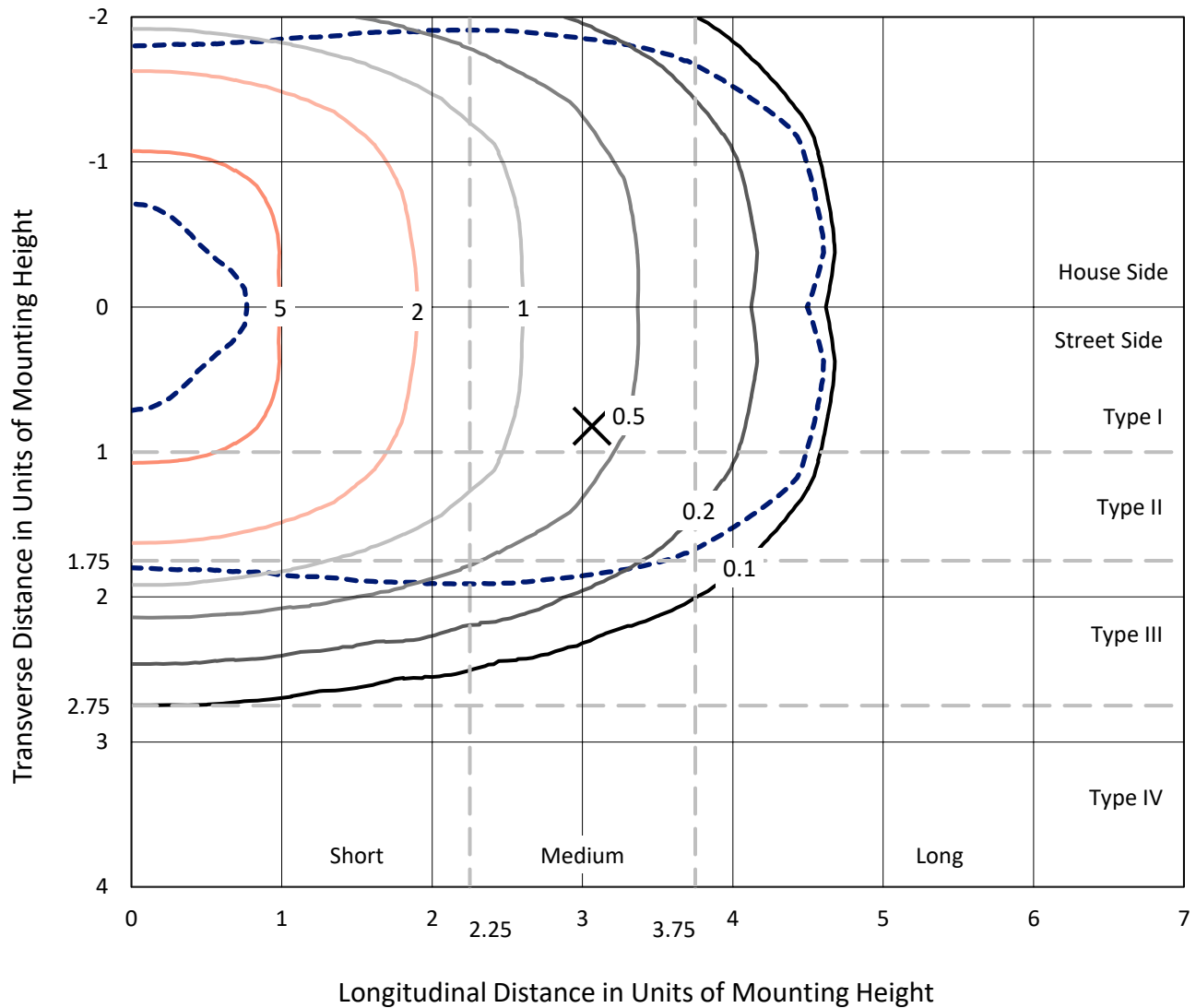


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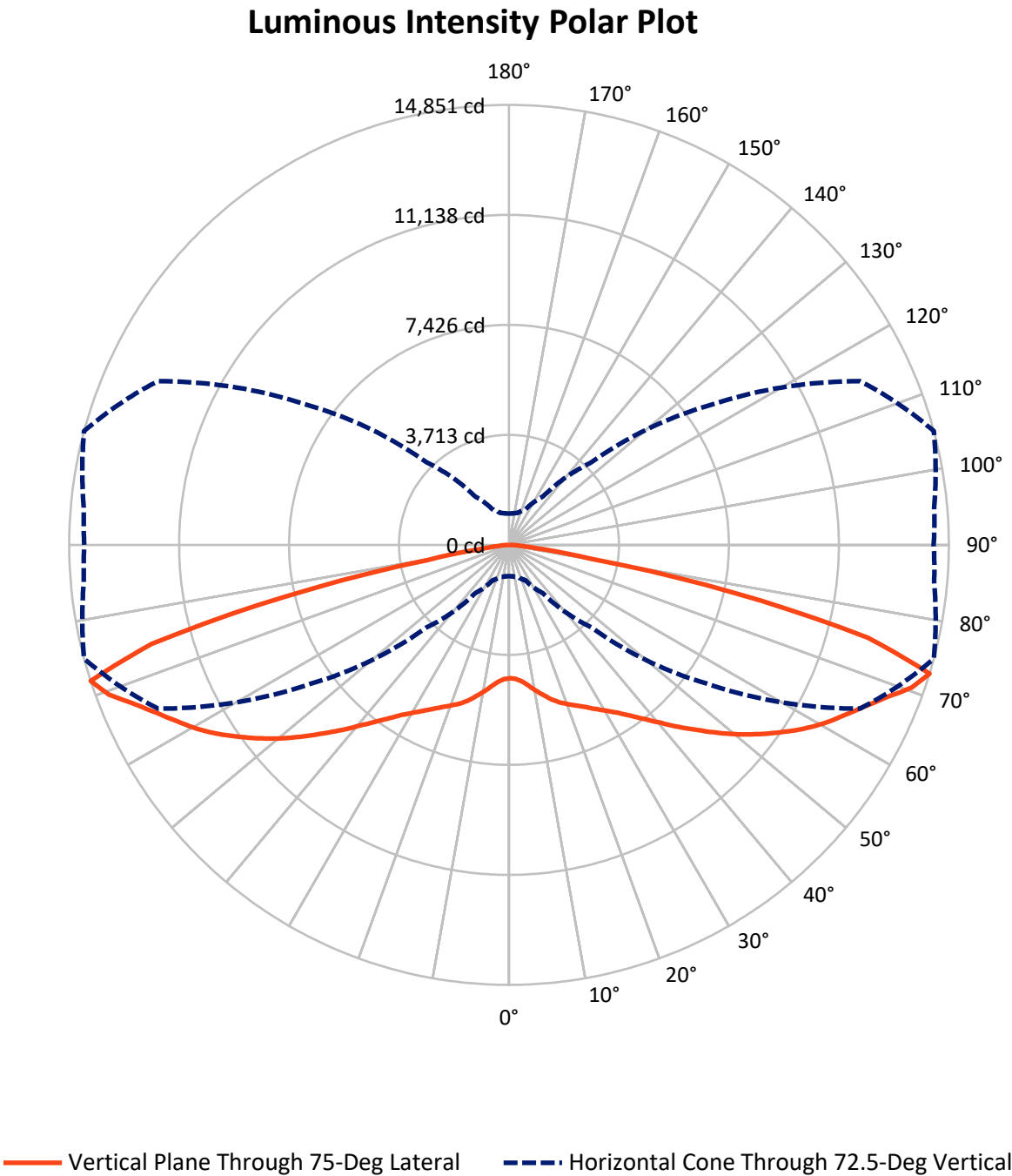
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
Type III - Medium - N/A

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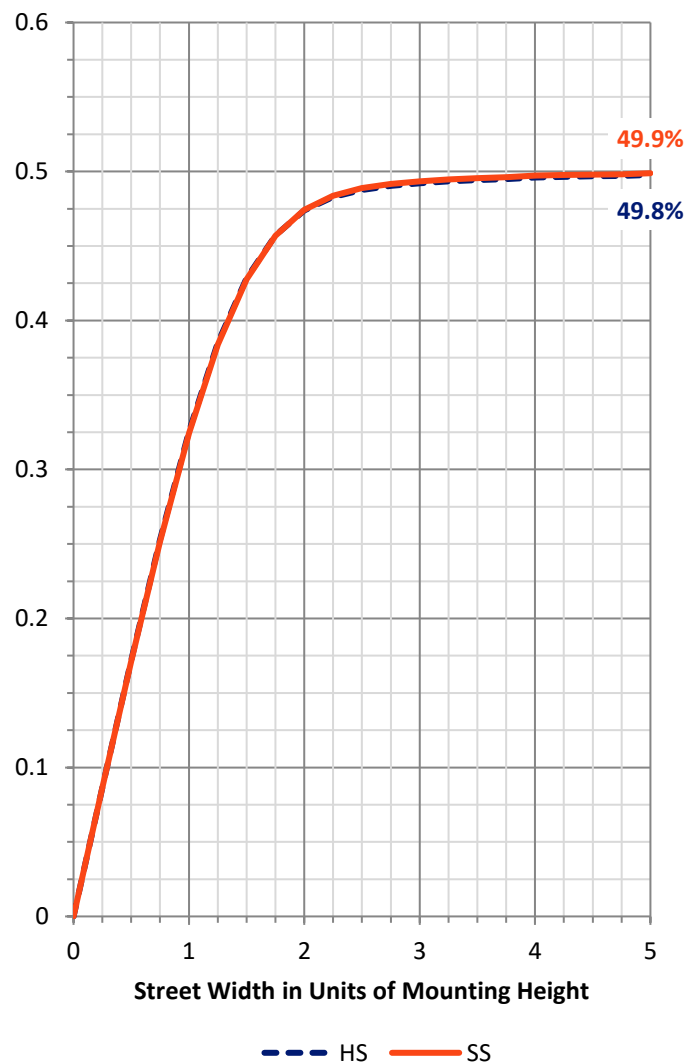
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20998.5	0.0	20998.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20998.5	0.0	20998.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	41997.0	0.0	41997.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	440.7	1.0
10°-20°	1453.5	3.5
20°-30°	2808.5	6.7
30°-40°	4742.3	11.3
40°-50°	7520.8	17.9
50°-60°	10069.4	24.0
60°-70°	9582.9	22.8
70°-80°	5000.5	11.9
80°-90°	378.5	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°	41997.0	100.0
0°-180°	41997.0	100.0

Coefficient of Utilization



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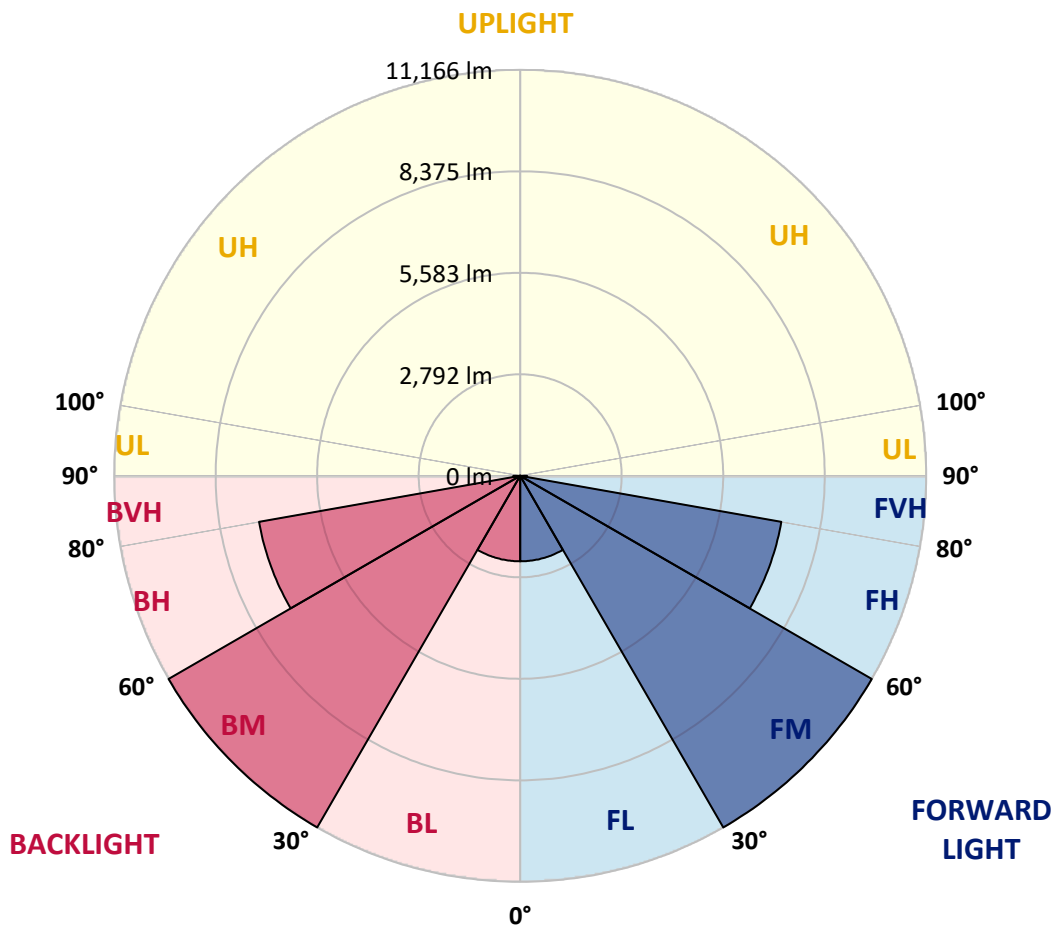
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2351.3	5.6			
FM	(30°-60°)	11166.2	26.6			
FH	(60°-80°)	7291.7	17.4			G3/7500
FVH	(80°-90°)	189.3	0.5			G2/225
BL	(0°-30°)	2351.3	5.6	B3/2500		
BM	(30°-60°)	11166.2	26.6	B5		
BH	(60°-80°)	7291.7	17.4	B5		G5
BVH	(80°-90°)	189.3	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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4498.6	4498.6	4498.6	4498.6	4498.6	4498.6	4498.6	4498.6	4498.6	4498.6	4498.6
2.5°	4498.6	4494.3	4498.6	4502.9	4500.8	4500.8	4511.5	4517.9	4530.8	4528.6	4526.5
5°	4468.6	4466.5	4483.6	4502.9	4517.9	4543.7	4575.8	4599.4	4629.4	4635.9	4635.9
7.5°	4453.6	4447.2	4477.2	4511.5	4558.7	4623.0	4685.2	4749.5	4801.0	4818.1	4822.4
10°	4464.3	4466.5	4507.2	4571.5	4646.6	4736.6	4824.6	4933.9	5006.8	5024.0	5041.1
12.5°	4513.6	4509.4	4578.0	4680.9	4783.8	4897.5	5000.4	5120.5	5199.8	5240.5	5257.7
15°	4603.7	4595.1	4691.6	4843.9	4994.0	5126.9	5210.5	5324.2	5416.4	5467.8	5487.1
17.5°	4710.9	4715.2	4841.7	5039.0	5236.3	5386.3	5465.7	5523.6	5594.3	5639.4	5660.8
20°	4899.6	4908.2	5049.7	5283.4	5508.6	5680.1	5744.4	5723.0	5742.3	5776.6	5802.3
22.5°	5152.6	5156.9	5315.6	5568.6	5804.5	5993.2	6036.1	5948.1	5894.5	5918.1	5935.3
25°	5446.4	5474.3	5632.9	5892.4	6134.7	6314.8	6334.1	6201.2	6068.2	6074.7	6085.4
27.5°	5804.5	5830.2	5991.0	6248.3	6494.9	6651.5	6649.3	6471.3	6276.2	6226.9	6241.9
30°	6192.6	6220.5	6385.6	6651.5	6880.9	7018.1	6988.1	6775.8	6497.1	6404.9	6415.6
32.5°	6653.6	6670.8	6838.0	7103.9	7316.2	7425.5	7363.3	7101.7	6754.4	6649.3	6675.0
35°	7211.1	7236.8	7361.2	7612.1	7798.6	7888.7	7783.6	7474.8	7084.6	6966.7	6983.8
37.5°	7847.9	7830.8	7972.3	8195.3	8349.7	8405.4	8261.8	7895.1	7462.0	7322.6	7348.3
40°	8512.7	8504.1	8658.5	8872.9	8956.5	8990.8	8778.5	8377.6	7897.3	7747.2	7796.5
42.5°	9115.2	9108.8	9316.8	9554.8	9655.5	9616.9	9348.9	8890.0	8401.2	8229.6	8272.5
45°	9597.7	9589.1	9844.2	10178.7	10376.0	10311.7	9951.5	9456.1	8911.5	8733.5	8774.3
47.5°	9968.6	9972.9	10247.4	10661.2	11006.4	11030.0	10566.8	10032.9	9473.3	9271.7	9331.8
50°	10236.6	10249.5	10543.3	11002.1	11473.9	11681.9	11195.1	10624.7	10054.4	9827.1	9895.7
52.5°	10303.1	10326.7	10680.5	11218.7	11774.1	12170.7	11834.1	11193.0	10605.4	10388.9	10444.6
55°	9949.3	9996.5	10444.6	11201.5	11958.5	12492.4	12395.9	11769.8	11160.8	10937.8	11000.0
57.5°	9136.6	9203.1	9726.3	10714.8	11917.7	12713.2	12831.2	12323.0	11716.2	11501.7	11551.1
60°	7998.0	8077.4	8579.1	9657.7	11343.1	12794.7	13137.8	12861.2	12226.5	12018.5	12063.5
62.5°	6280.5	6383.4	6983.8	8248.9	10129.4	12415.2	13399.4	13347.9	12685.4	12425.9	12455.9
65°	4029.0	4138.4	4770.9	6265.5	8510.5	11253.0	13480.9	13821.8	13170.0	12807.6	12852.6
67.5°	2429.4	2478.7	2791.8	3797.5	6220.5	9501.2	12790.4	14347.2	13736.0	13285.8	13320.1
70°	1554.6	1582.5	1769.0	2230.0	3516.6	6932.4	11079.3	14445.8	14422.2	13776.8	13772.5
72.5°	1055.0	1063.5	1112.9	1320.9	1989.9	3939.0	8171.7	13077.8	14851.1	14409.3	14340.7
75°	771.9	819.1	898.4	934.9	1130.0	1968.4	4683.0	9188.1	12516.0	12709.0	12241.5
77.5°	574.7	576.8	686.2	729.0	806.2	1048.5	1981.3	5129.0	7770.8	8158.9	7277.6
80°	486.7	461.0	458.9	587.5	606.8	654.0	885.6	1771.1	2783.2	1687.5	1275.8
82.5°	405.3	377.4	340.9	458.9	413.8	401.0	383.8	720.5	885.6	435.3	371.0
85°	283.0	270.2	257.3	300.2	235.9	201.6	184.4	336.6	373.1	184.4	163.0
87.5°	122.2	126.5	128.7	132.9	98.6	70.8	70.8	94.3	94.3	72.9	53.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)