

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: P950186

Luminaire Tested: **GALN-SB4D-722-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950186
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4D-722-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35304 lumens
Efficiency: N/A
Efficacy: 120.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

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

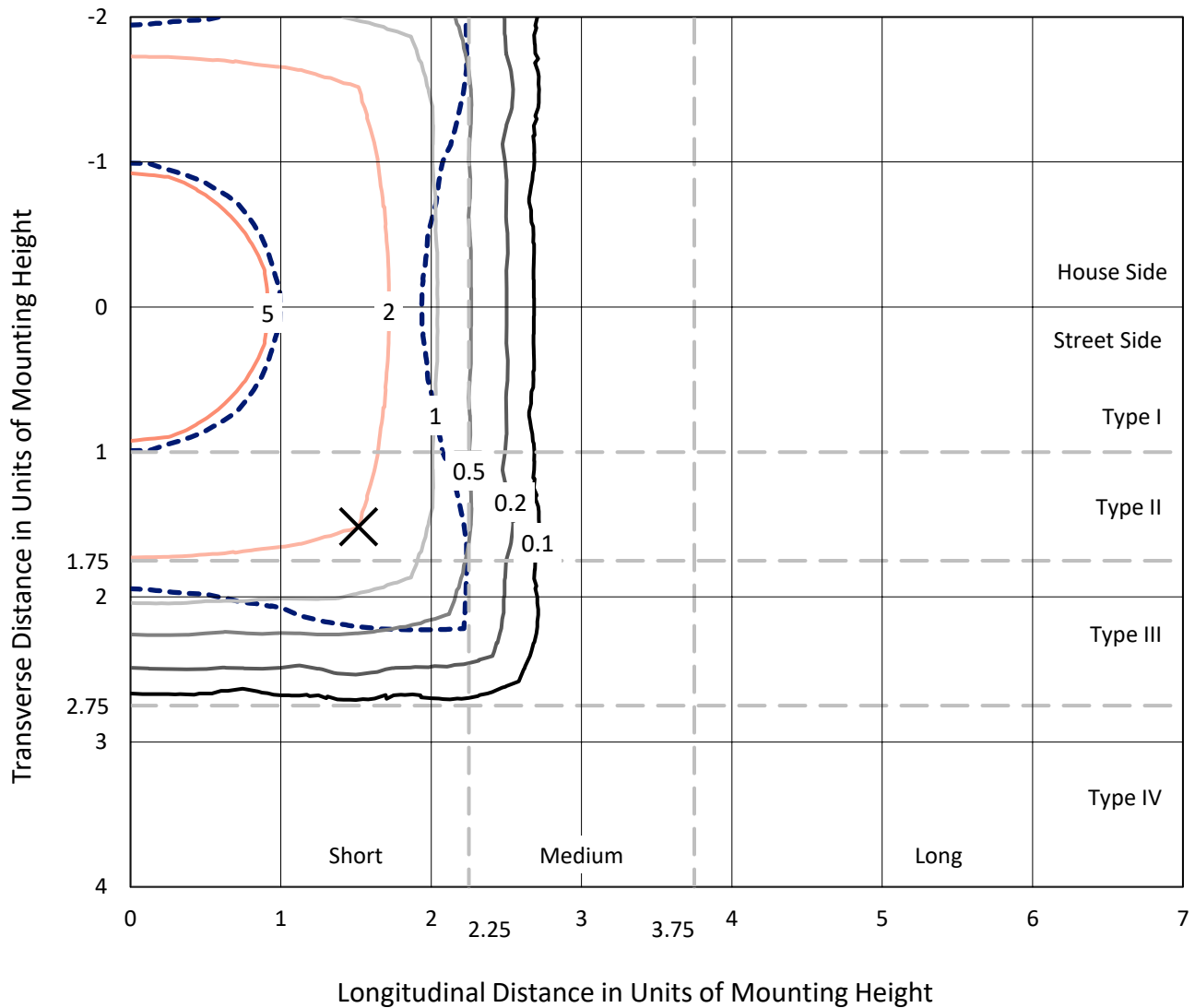


REPORT NUMBER: P950186

CATALOG NUMBER: GALN-SB4D-722-U-5NQ

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

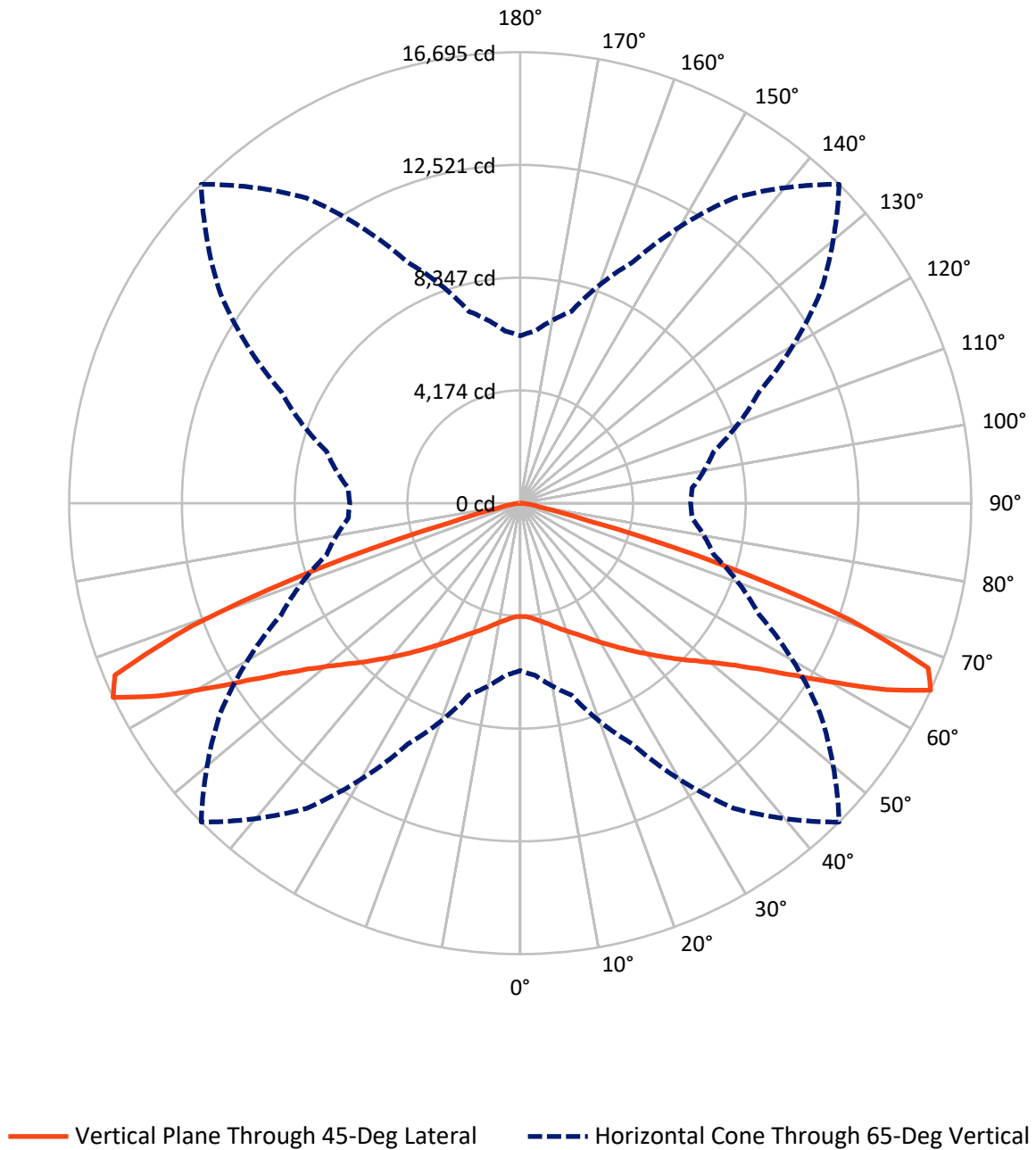


Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
Type V - Short - N/A

REPORT NUMBER: P950186

CATALOG NUMBER: GALN-SB4D-722-U-5NQ

Luminous Intensity Polar Plot



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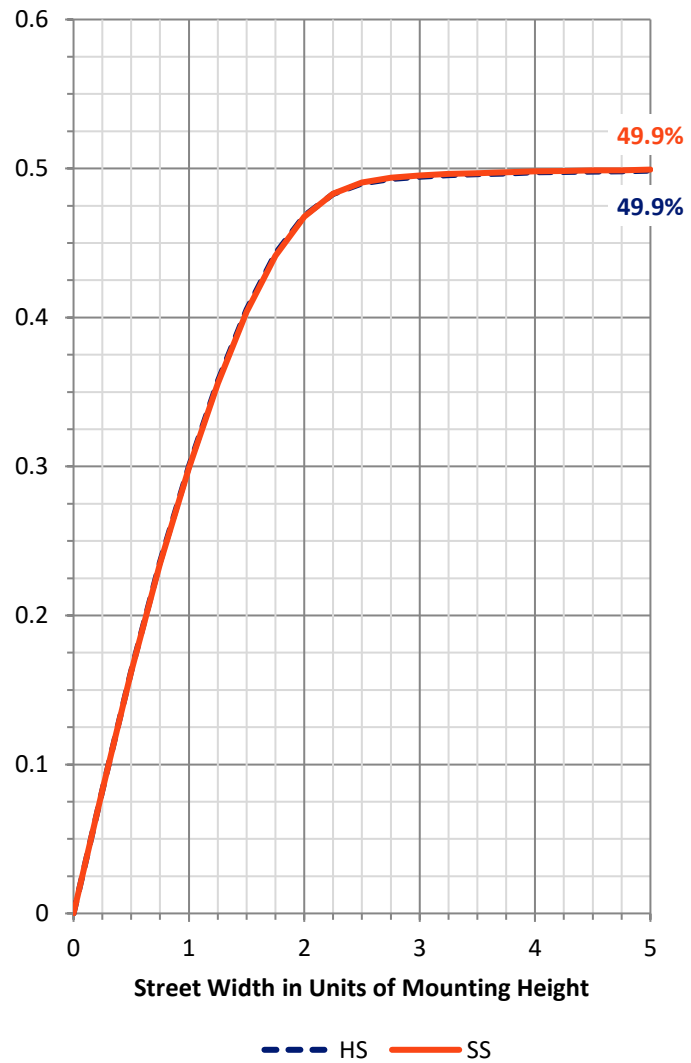
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17652.0	0.0	17652.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17652.0	0.0	17652.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	35304.0	0.0	35304.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	414.6	1.2
10°-20°	1353.0	3.8
20°-30°	2554.7	7.2
30°-40°	4183.2	11.8
40°-50°	6486.1	18.4
50°-60°	9581.3	27.1
60°-70°	9120.5	25.8
70°-80°	1471.7	4.2
80°-90°	138.7	0.4
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°	35304.0	100.0
0°-180°	35304.0	100.0

Coefficient of Utilization



REPORT NUMBER: P950186

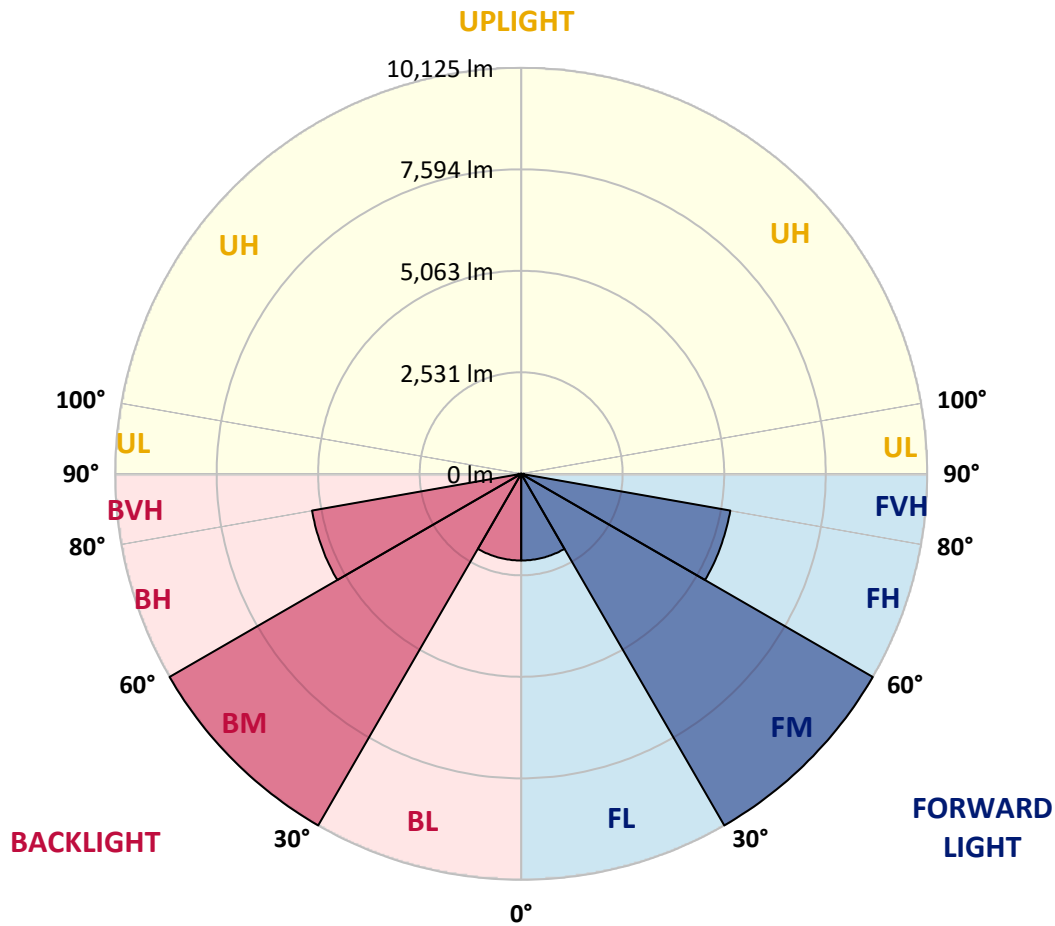
CATALOG NUMBER: GALN-SB4D-722-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2161.2	6.1			
FM	(30°-60°)	10125.3	28.7			
FH	(60°-80°)	5296.1	15.0			G3/7500
FVH	(80°-90°)	69.4	0.2			G1/100
BL	(0°-30°)	2161.2	6.1	B3/2500		
BM	(30°-60°)	10125.3	28.7	B5		
BH	(60°-80°)	5296.1	15.0	B5		G3/7500
BVH	(80°-90°)	69.4	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4201.5	4201.5	4201.5	4201.5	4201.5	4201.5	4201.5	4201.5	4201.5	4201.5	4201.5
2.5°	4229.9	4215.7	4226.3	4217.5	4210.4	4203.3	4206.8	4219.2	4224.6	4226.3	4226.3
5°	4286.6	4274.2	4279.5	4279.5	4267.1	4263.5	4265.3	4274.2	4284.8	4284.8	4284.8
7.5°	4378.7	4366.3	4378.7	4371.6	4360.9	4357.4	4355.6	4362.7	4378.7	4378.7	4373.3
10°	4490.3	4476.1	4483.2	4479.6	4467.2	4461.9	4460.1	4470.8	4484.9	4483.2	4479.6
12.5°	4612.5	4596.5	4605.4	4594.8	4591.2	4585.9	4585.9	4584.1	4593.0	4585.9	4589.4
15°	4748.9	4738.2	4741.8	4734.7	4740.0	4736.5	4722.3	4715.2	4718.7	4708.1	4709.9
17.5°	4910.1	4885.3	4897.7	4894.1	4894.1	4901.2	4878.2	4869.3	4876.4	4865.8	4874.6
20°	5096.0	5071.2	5076.6	5069.5	5060.6	5067.7	5039.4	5046.4	5051.8	5044.7	5060.6
22.5°	5299.7	5267.9	5266.1	5269.6	5250.1	5251.9	5232.4	5250.1	5260.8	5241.3	5260.8
25°	5508.8	5475.1	5498.1	5489.3	5464.5	5469.8	5455.6	5473.3	5482.2	5457.4	5485.7
27.5°	5730.2	5707.1	5728.4	5733.7	5703.6	5724.8	5703.6	5719.5	5728.4	5691.2	5719.5
30°	5988.8	5965.7	5985.2	5999.4	5964.0	5997.6	5979.9	5990.5	5992.3	5948.0	5974.6
32.5°	6270.4	6235.0	6284.6	6291.7	6252.7	6293.4	6270.4	6284.6	6293.4	6233.2	6274.0
35°	6614.0	6569.8	6626.4	6617.6	6583.9	6617.6	6596.3	6617.6	6638.8	6566.2	6610.5
37.5°	6984.2	6938.2	6998.4	6982.5	6950.6	6973.6	6961.2	6975.4	7009.0	6931.1	6978.9
40°	7391.6	7335.0	7416.4	7388.1	7358.0	7354.4	7361.5	7370.4	7414.7	7327.9	7356.2
42.5°	7827.4	7767.2	7889.4	7845.1	7802.6	7774.2	7797.3	7815.0	7857.5	7760.1	7811.4
45°	8325.1	8256.0	8415.5	8362.3	8295.0	8236.6	8273.8	8300.3	8362.3	8245.4	8305.6
47.5°	8874.2	8796.3	8966.3	8950.4	8840.6	8713.0	8798.1	8874.2	8920.3	8778.6	8826.4
50°	9410.9	9350.7	9573.9	9593.4	9458.8	9279.9	9398.5	9513.7	9526.1	9340.1	9363.1
52.5°	9914.0	9853.8	10177.9	10300.1	10179.7	9967.1	10092.9	10209.8	10115.9	9875.0	9882.1
55°	10316.1	10266.5	10679.2	10994.5	11035.2	10859.9	10934.2	10930.7	10622.5	10252.3	10264.7
57.5°	10413.5	10406.4	10927.2	11594.9	12020.1	12041.3	11894.3	11518.8	10854.5	10356.8	10324.9
60°	9970.7	10014.9	10730.5	11908.5	13042.1	13513.3	12877.4	11805.7	10590.6	9899.8	9818.3
62.5°	8645.7	8762.6	9625.3	11525.9	13867.5	15206.6	13665.6	11370.0	9506.6	8605.0	8551.8
65°	6196.0	6399.7	7352.7	9836.0	13793.1	16694.5	13552.2	9756.3	7423.5	6383.8	6307.6
67.5°	2811.1	3018.3	3827.8	6734.5	11989.9	16290.7	11961.6	6805.3	4019.1	3028.9	2984.6
70°	1018.5	1053.9	1314.3	2695.9	7662.7	12980.1	7990.3	2715.4	1397.6	1123.0	1108.8
72.5°	616.4	621.7	676.6	965.4	2662.3	7880.5	2775.6	997.2	690.8	612.9	623.5
75°	391.5	387.9	481.8	589.8	944.1	2658.7	990.2	589.8	480.0	437.5	441.1
77.5°	281.6	290.5	345.4	441.1	595.2	901.6	584.5	421.6	345.4	283.4	288.7
80°	210.8	216.1	251.5	343.6	418.0	561.5	372.0	311.7	260.4	177.1	182.4
82.5°	152.3	152.3	164.7	249.8	255.1	302.9	201.9	219.6	171.8	125.8	125.8
85°	90.3	88.6	102.7	148.8	132.8	111.6	92.1	134.6	108.0	77.9	76.2
87.5°	31.9	33.7	31.9	42.5	35.4	30.1	28.3	37.2	30.1	26.6	24.8
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)