

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: P943640

Luminaire Tested: **GALN-SB8B-722-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943640
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8B-722-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38048 lumens
Efficiency: N/A
Efficacy: 129.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 292.8
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



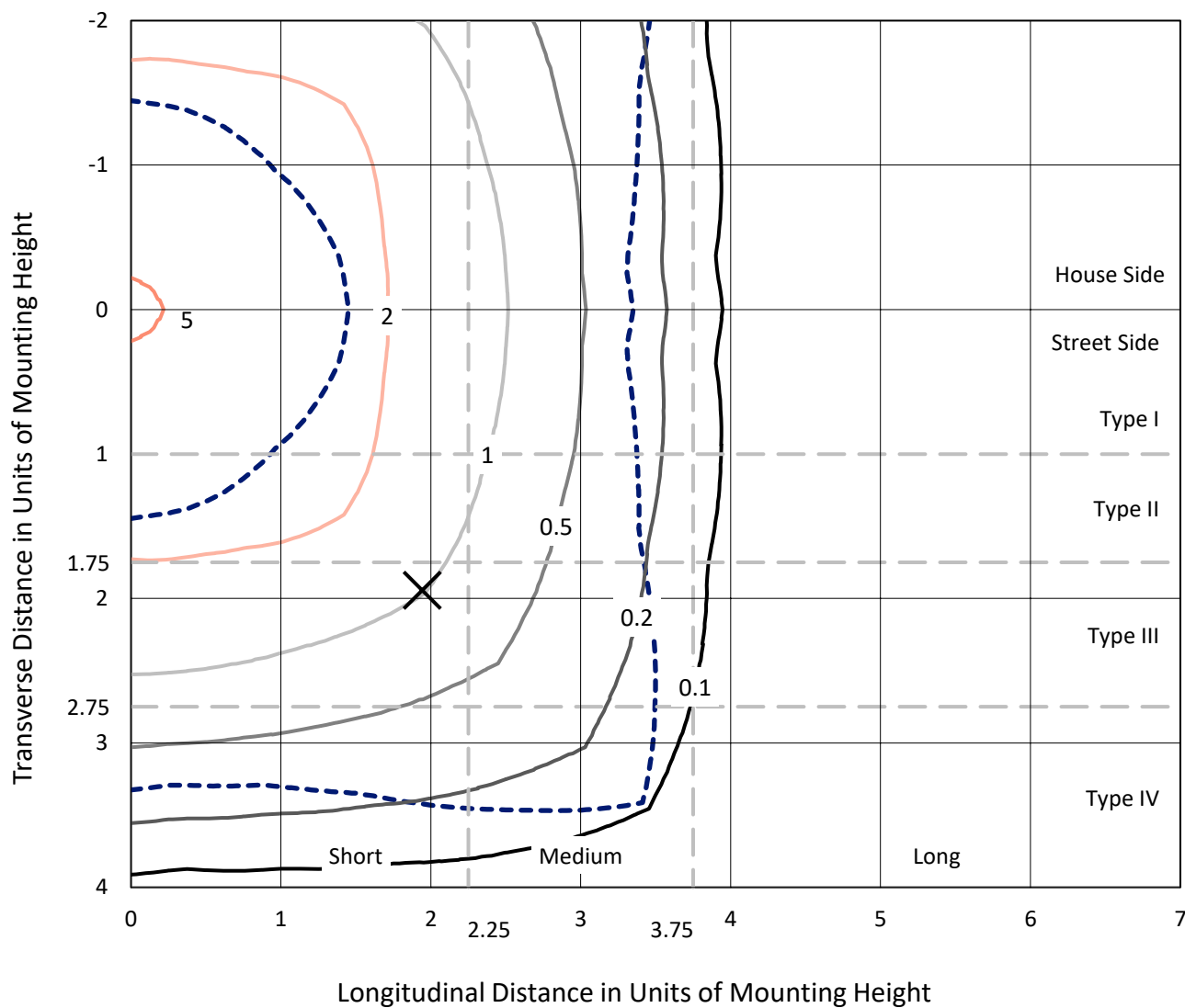
REPORT NUMBER: P943640

CATALOG NUMBER: GALN-SB8B-722-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

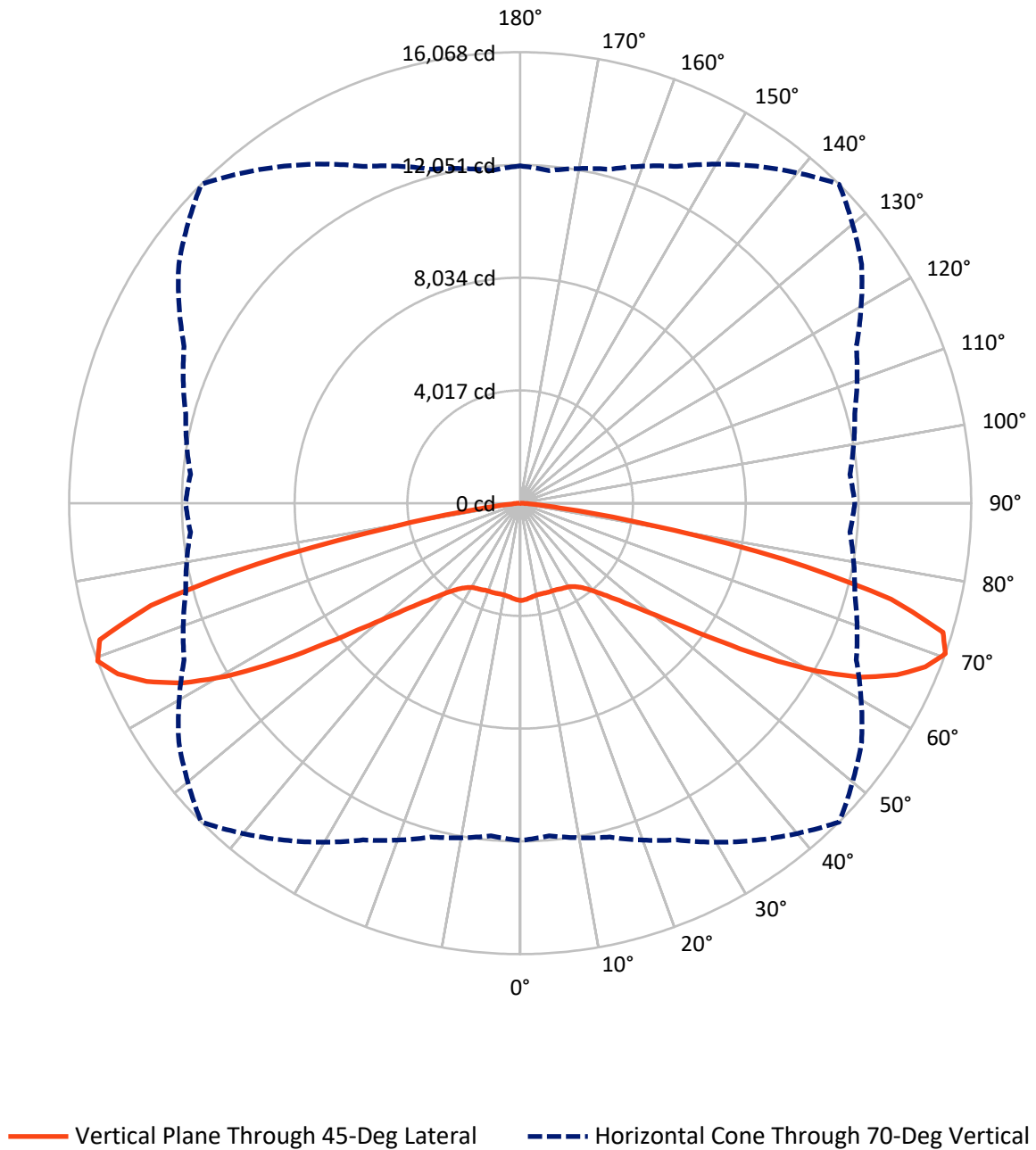


Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type V - Short - N/A

REPORT NUMBER: P943640

CATALOG NUMBER: GALN-SB8B-722-U-5WQ

Luminous Intensity Polar Plot



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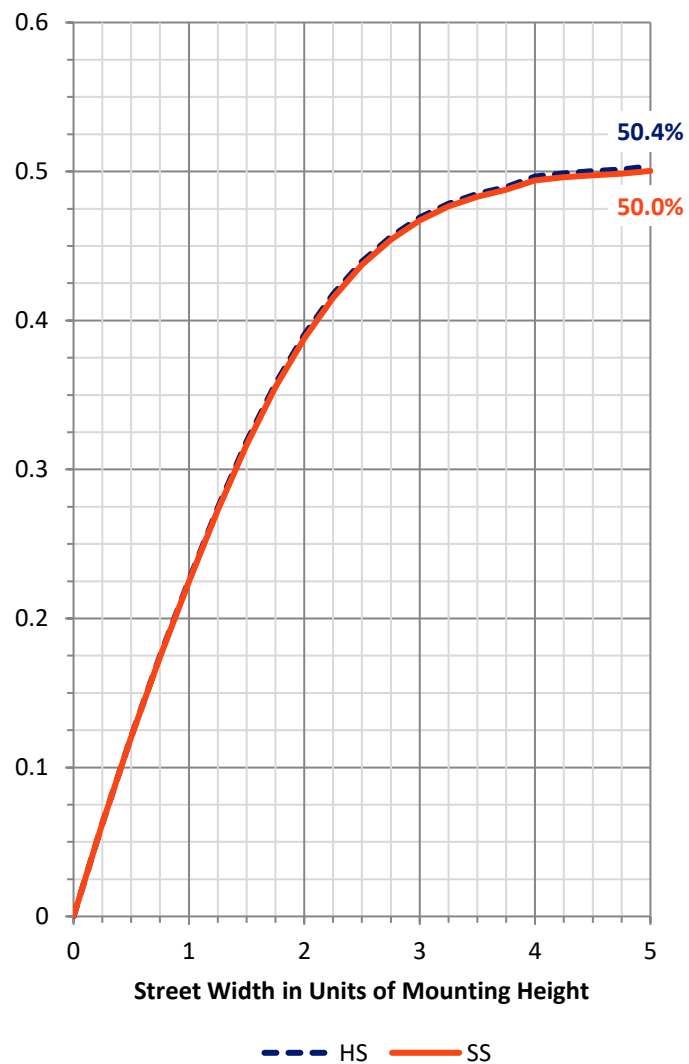
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19024.0	0.0	19024.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19024.0	0.0	19024.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	38048.0	0.0	38048.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	322.9	0.8
10°-20°	948.0	2.5
20°-30°	1577.6	4.1
30°-40°	2385.8	6.3
40°-50°	3964.7	10.4
50°-60°	7481.2	19.7
60°-70°	12632.3	33.2
70°-80°	8300.7	21.8
80°-90°	434.9	1.1
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°	38048.0	100.0
0°-180°	38048.0	100.0

Coefficient of Utilization



REPORT NUMBER: P943640

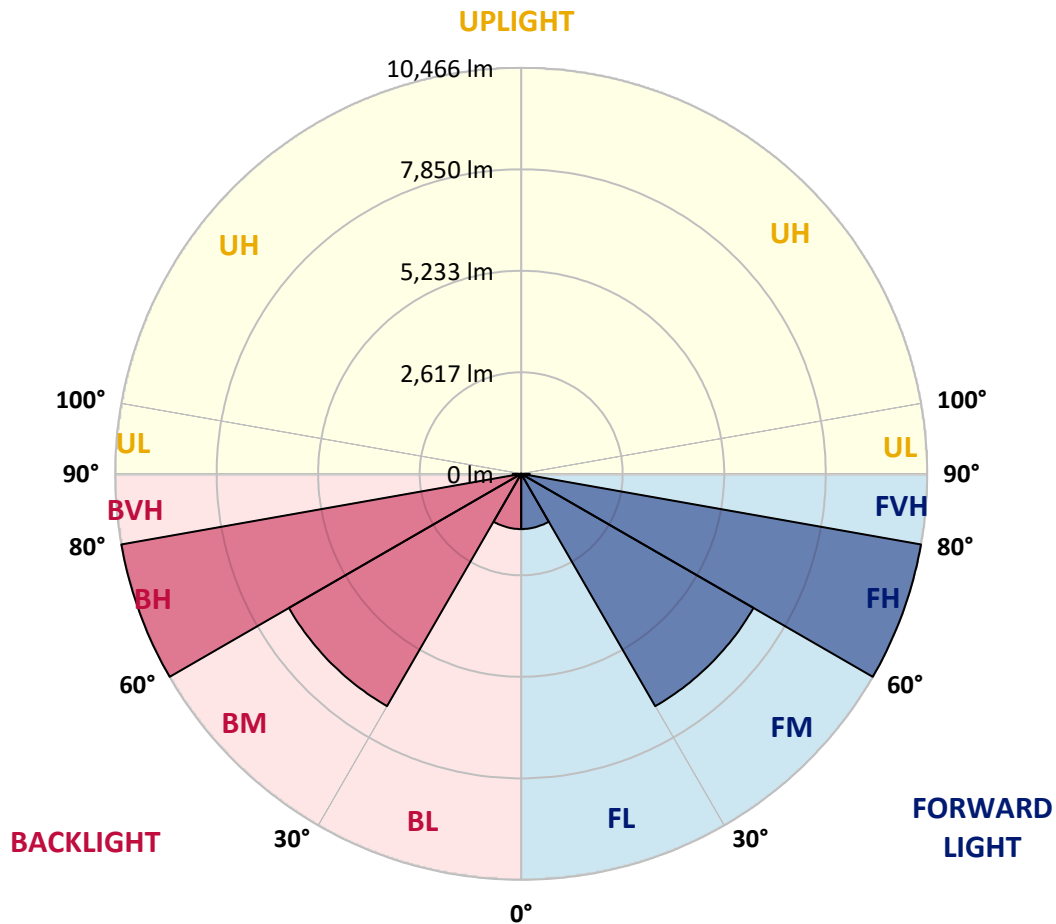
CATALOG NUMBER: GALN-SB8B-722-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1424.2	3.7			
FM	(30°-60°)	6915.8	18.2			
FH	(60°-80°)	10466.5	27.5			G4/12000
FVH	(80°-90°)	217.4	0.6			G2/225
BL	(0°-30°)	1424.2	3.7	B3/2500		
BM	(30°-60°)	6915.8	18.2	B4/8500		
BH	(60°-80°)	10466.5	27.5	B5		G4/12000
BVH	(80°-90°)	217.4	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3470.7	3470.7	3470.7	3470.7	3470.7	3470.7	3470.7	3470.7	3470.7	3470.7	3470.7
2.5°	3449.0	3458.9	3454.9	3447.0	3447.0	3441.1	3447.0	3451.0	3456.9	3460.9	3458.9
5°	3403.5	3411.4	3409.4	3403.5	3405.5	3399.5	3403.5	3409.4	3413.4	3415.4	3415.4
7.5°	3364.0	3371.9	3367.9	3358.0	3358.0	3352.1	3354.1	3360.0	3365.9	3367.9	3367.9
10°	3354.1	3362.0	3350.1	3334.3	3328.4	3320.4	3322.4	3328.4	3340.2	3346.2	3346.2
12.5°	3358.0	3364.0	3352.1	3328.4	3322.4	3314.5	3314.5	3320.4	3336.3	3344.2	3346.2
15°	3369.9	3375.8	3358.0	3332.3	3326.4	3320.4	3318.5	3326.4	3344.2	3358.0	3360.0
17.5°	3391.6	3397.6	3369.9	3334.3	3326.4	3328.4	3326.4	3332.3	3360.0	3385.7	3385.7
20°	3411.4	3415.4	3377.8	3334.3	3326.4	3328.4	3326.4	3338.2	3373.8	3409.4	3411.4
22.5°	3417.3	3421.3	3385.7	3348.1	3342.2	3344.2	3342.2	3354.1	3387.7	3423.3	3423.3
25°	3419.3	3425.3	3397.6	3367.9	3377.8	3381.8	3377.8	3379.8	3405.5	3437.1	3435.1
27.5°	3449.0	3456.9	3431.2	3405.5	3411.4	3409.4	3415.4	3421.3	3441.1	3472.7	3464.8
30°	3510.3	3516.2	3494.5	3468.8	3464.8	3451.0	3468.8	3488.5	3510.3	3538.0	3532.1
32.5°	3611.2	3623.0	3595.3	3567.6	3549.8	3541.9	3555.8	3589.4	3619.1	3648.7	3636.9
35°	3779.3	3787.2	3761.5	3710.0	3678.4	3678.4	3690.3	3733.8	3781.2	3818.8	3805.0
37.5°	4016.6	4026.5	3981.0	3919.7	3872.2	3872.2	3888.0	3933.5	4004.7	4058.1	4038.3
40°	4305.3	4319.1	4261.8	4198.5	4153.0	4145.1	4164.9	4216.3	4283.6	4350.8	4329.0
42.5°	4653.4	4669.2	4594.0	4538.7	4503.1	4503.1	4513.0	4560.4	4621.7	4704.8	4698.9
45°	5098.3	5126.0	5023.2	4967.8	4934.2	4942.1	4948.0	4989.6	5044.9	5139.9	5135.9
47.5°	5628.3	5656.0	5547.3	5489.9	5484.0	5521.5	5497.8	5527.5	5557.1	5665.9	5634.3
50°	6229.5	6277.0	6201.9	6197.9	6209.8	6279.0	6223.6	6239.4	6205.8	6275.0	6233.5
52.5°	6965.2	7034.4	7020.6	7044.3	7176.8	7319.2	7192.6	7137.3	7010.7	7032.5	6959.3
55°	7857.1	7961.9	7981.7	8124.1	8424.7	8715.4	8446.5	8223.0	7954.0	7904.6	7827.5
57.5°	8871.7	8954.7	9049.6	9340.4	9902.0	10418.2	9902.0	9407.6	8984.4	8883.5	8812.3
60°	9963.3	10066.1	10157.1	10586.3	11420.8	12146.6	11405.0	10619.9	10060.2	9923.8	9805.1
62.5°	11136.0	11268.5	11331.8	11808.4	12781.4	13647.6	12795.3	11844.0	11223.1	11076.7	10958.1
65°	12261.3	12370.1	12441.3	12949.5	13879.0	14747.2	13942.3	13004.9	12366.1	12174.3	12079.4
67.5°	12785.4	12844.7	13018.7	13594.2	14575.1	15565.9	14741.3	13655.5	12941.6	12605.4	12609.4
70°	12018.1	11897.4	12316.7	13238.3	14658.2	16068.3	14848.1	13210.6	12336.5	11790.6	11921.2
72.5°	9287.0	9079.3	9807.1	11383.2	13708.9	15747.9	13803.9	11472.2	10260.0	9152.5	9427.4
75°	5052.8	4817.5	5822.1	7815.6	10932.3	13649.6	11183.5	8039.1	6482.7	5015.3	5341.6
77.5°	1425.9	1336.9	2147.7	3781.2	6575.6	9583.6	6828.8	3864.3	2547.2	1510.9	1679.0
80°	437.1	423.2	573.5	1139.1	2792.4	4590.1	2683.6	1153.0	729.7	460.8	486.5
82.5°	259.1	237.3	284.8	415.3	711.9	1441.7	692.2	433.1	348.1	233.4	253.1
85°	148.3	138.4	168.1	201.7	239.3	306.5	199.7	205.7	185.9	124.6	130.5
87.5°	61.3	55.4	65.3	63.3	55.4	71.2	53.4	63.3	75.2	49.4	45.5
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)