

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: P942100

Luminaire Tested: **GALN-SB5D-950-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942100
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-SB5D-950-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36170 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

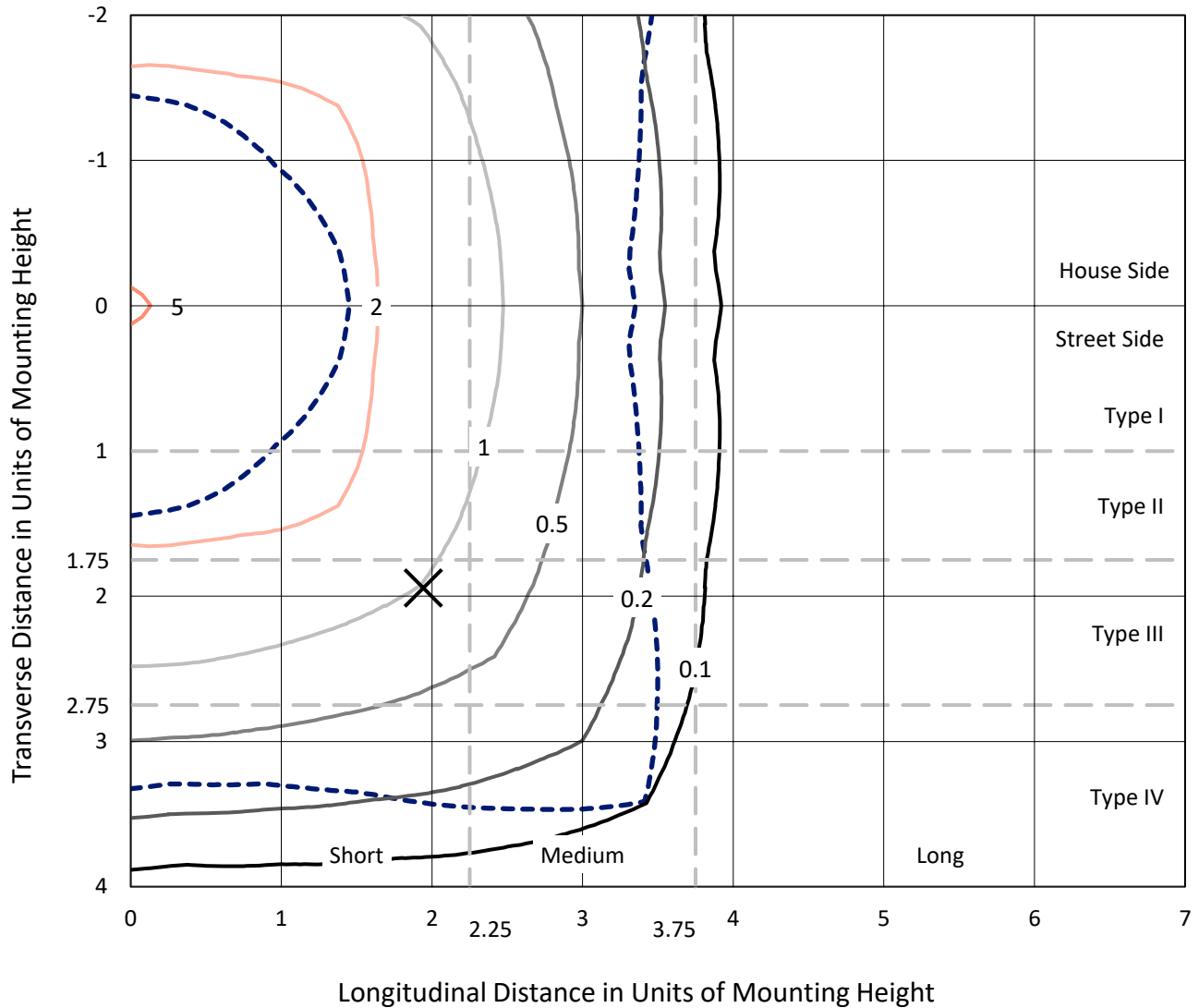
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

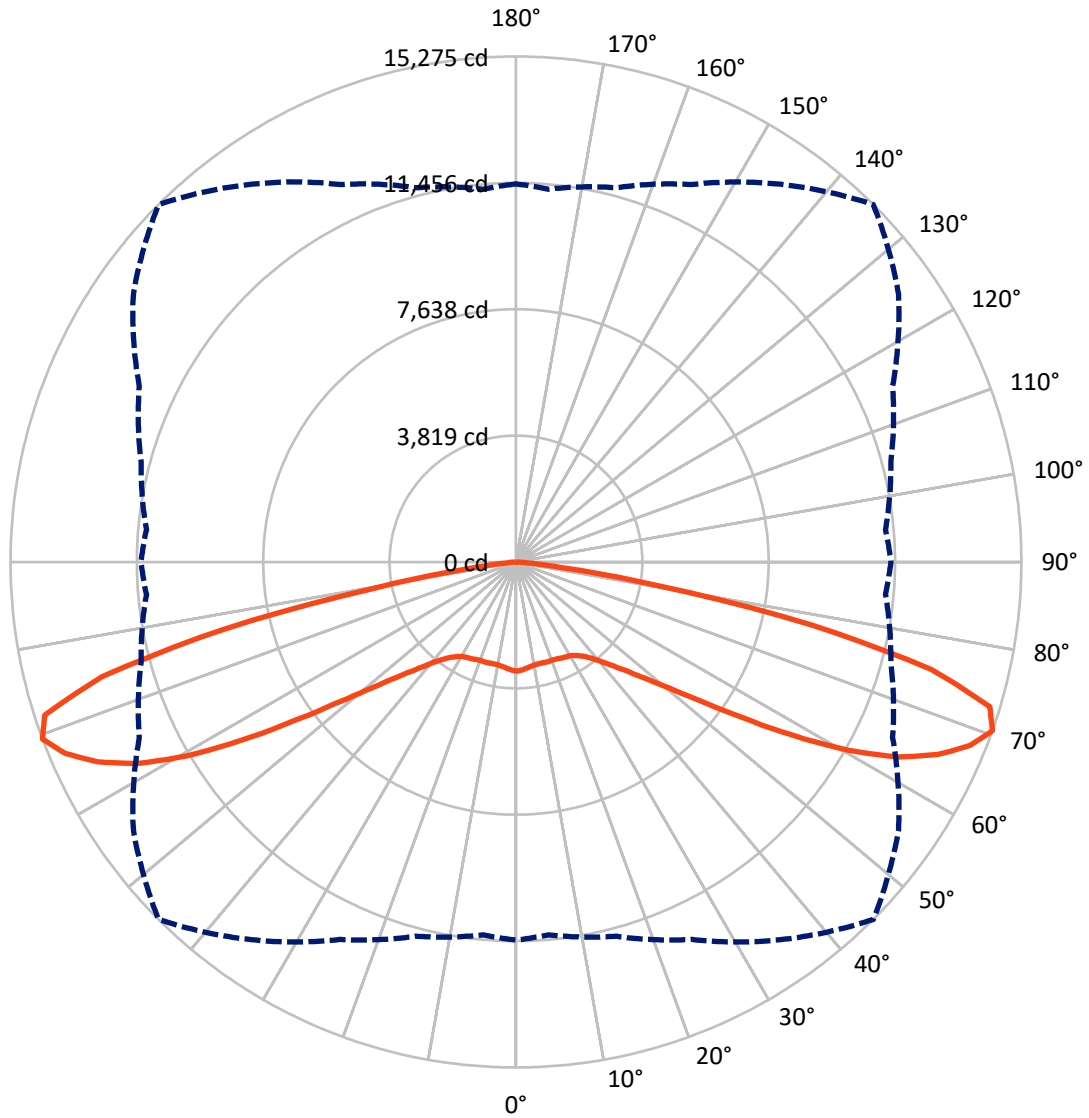
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18085.0	0.0	18085.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18085.0	0.0	18085.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	36170.0	0.0	36170.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.9	0.8
10°-20°	901.2	2.5
20°-30°	1499.7	4.1
30°-40°	2268.1	6.3
40°-50°	3769.0	10.4
50°-60°	7111.9	19.7
60°-70°	12008.8	33.2
70°-80°	7891.0	21.8
80°-90°	413.4	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°	36170.0	100.0
0°-180°	36170.0	100.0

Coefficient of Utilization



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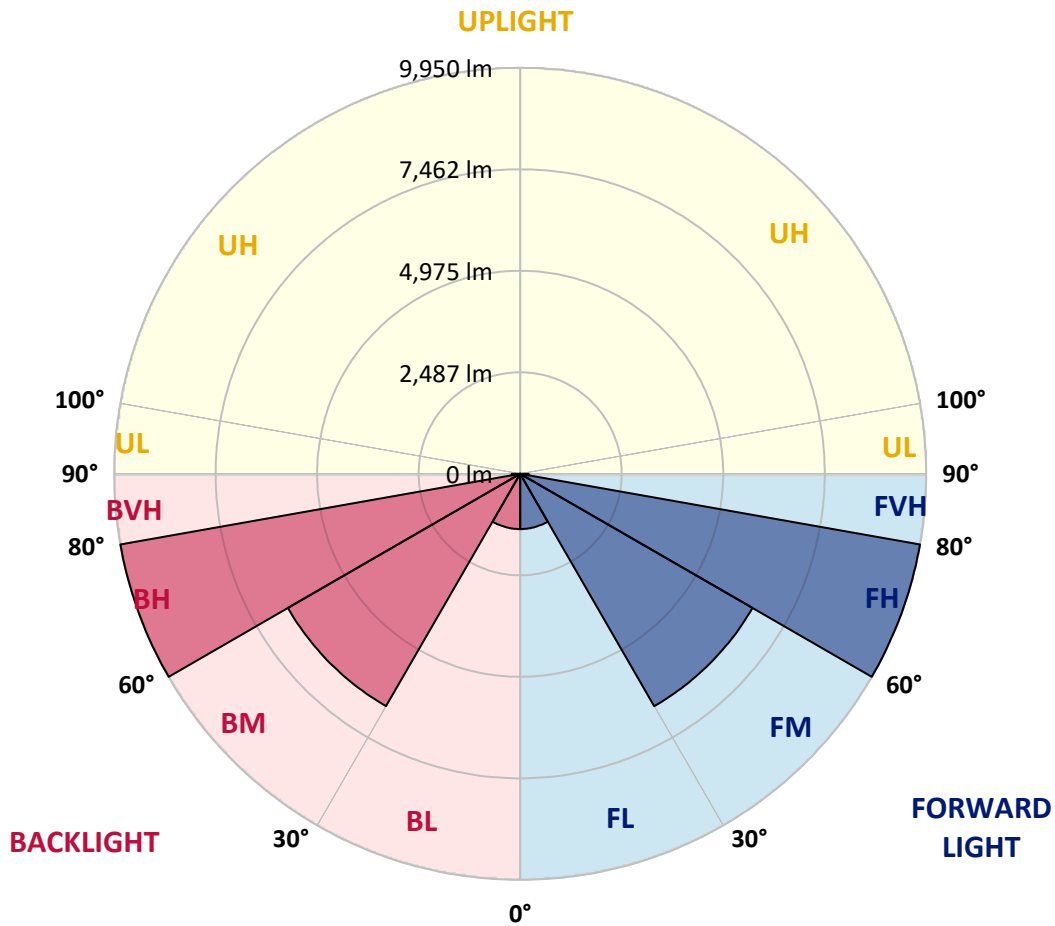
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1353.9	3.7			
FM (30°-60°)	6574.5	18.2			
FH (60°-80°)	9949.9	27.5			G4/12000
FVH (80°-90°)	206.7	0.6			G2/225
BL (0°-30°)	1353.9	3.7	B3/2500		
BM (30°-60°)	6574.5	18.2	B4/8500		
BH (60°-80°)	9949.9	27.5	B5		G4/12000
BVH (80°-90°)	206.7	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°
0°	3299.4	3299.4	3299.4	3299.4	3299.4	3299.4	3299.4	3299.4	3299.4	3299.4
2.5°	3278.8	3288.2	3284.4	3276.9	3276.9	3271.2	3276.9	3280.6	3286.3	3290.0
5°	3235.5	3243.0	3241.2	3235.5	3237.4	3231.8	3235.5	3241.2	3244.9	3246.8
7.5°	3197.9	3205.4	3201.7	3192.3	3192.3	3186.6	3188.5	3194.2	3199.8	3201.7
10°	3188.5	3196.0	3184.8	3169.7	3164.1	3156.6	3158.4	3164.1	3175.4	3181.0
12.5°	3192.3	3197.9	3186.6	3164.1	3158.4	3150.9	3150.9	3156.6	3171.6	3179.1
15°	3203.6	3209.2	3192.3	3167.8	3162.2	3156.6	3154.7	3162.2	3179.1	3192.3
17.5°	3224.2	3229.9	3203.6	3169.7	3162.2	3164.1	3162.2	3167.8	3194.2	3218.6
20°	3243.0	3246.8	3211.1	3169.7	3162.2	3164.1	3162.2	3173.5	3207.3	3241.2
22.5°	3248.7	3252.4	3218.6	3182.9	3177.2	3179.1	3177.2	3188.5	3220.5	3254.3
25°	3250.6	3256.2	3229.9	3201.7	3211.1	3214.8	3211.1	3213.0	3237.4	3267.5
27.5°	3278.8	3286.3	3261.8	3237.4	3243.0	3241.2	3246.8	3252.4	3271.2	3301.3
30°	3337.0	3342.7	3322.0	3297.6	3293.8	3280.6	3297.6	3316.4	3337.0	3363.4
32.5°	3432.9	3444.2	3417.9	3391.6	3374.6	3367.1	3380.3	3412.2	3440.4	3468.6
35°	3592.7	3600.2	3575.8	3526.9	3496.8	3496.8	3508.1	3549.5	3594.6	3630.3
37.5°	3818.3	3827.7	3784.5	3726.2	3681.1	3681.1	3696.1	3739.4	3807.0	3857.8
40°	4092.8	4106.0	4051.4	3991.3	3948.0	3940.5	3959.3	4008.2	4072.1	4136.0
42.5°	4423.7	4438.7	4367.3	4314.6	4280.8	4280.8	4290.2	4335.3	4393.6	4472.6
45°	4846.7	4873.0	4775.2	4722.6	4690.6	4698.2	4703.8	4743.3	4795.9	4886.2
47.5°	5350.5	5376.9	5273.5	5218.9	5213.3	5249.0	5226.5	5254.7	5282.9	5386.3
50°	5922.1	5967.2	5895.7	5892.0	5903.3	5969.1	5916.4	5931.5	5899.5	5965.3
52.5°	6621.4	6687.2	6674.1	6696.6	6822.6	6957.9	6837.6	6785.0	6664.7	6685.3
55°	7469.3	7569.0	7587.8	7723.1	8008.9	8285.2	8029.6	7817.1	7561.4	7514.4
57.5°	8433.8	8512.7	8603.0	8879.3	9413.3	9903.9	9413.3	8943.2	8540.9	8445.0
60°	9471.5	9569.3	9655.8	10063.7	10857.1	11547.1	10842.1	10095.7	9563.7	9433.9
62.5°	10586.4	10712.3	10772.5	11225.6	12150.6	12974.0	12163.7	11259.4	10669.1	10530.0
65°	11656.1	11759.5	11827.2	12310.4	13194.0	14019.3	13254.1	12363.0	11755.8	11573.4
67.5°	12154.3	12210.7	12376.2	12923.2	13855.7	14797.6	14013.7	12981.5	12302.8	11983.2
70°	11424.9	11310.2	11708.8	12584.8	13934.7	15275.1	14115.2	12558.5	11727.6	11208.7
72.5°	8828.6	8631.2	9323.0	10821.4	13032.3	14970.6	13122.5	10906.0	9753.5	8700.7
75°	4803.4	4579.7	5534.8	7429.8	10392.7	12975.9	10631.5	7642.3	6162.7	4767.7
77.5°	1355.5	1270.9	2041.7	3594.6	6251.1	9110.6	6491.7	3673.6	2421.5	1436.3
80°	415.5	402.3	545.2	1082.9	2654.6	4363.5	2551.2	1096.1	693.7	438.0
82.5°	246.3	225.6	270.7	394.8	676.8	1370.5	658.0	411.7	330.9	221.8
85°	141.0	131.6	159.8	191.8	227.5	291.4	189.9	195.5	176.7	118.4
87.5°	58.3	52.6	62.0	60.2	52.6	67.7	50.8	60.2	71.4	47.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
3299.4
3288.2
3246.8
3201.7
3181.0
3181.0
3194.2
3218.6
3243.0
3254.3
3265.6
3293.8
3357.7
3457.4
3617.2
3839.0
4115.4
4466.9
4882.4
5356.2
5925.8
6615.8
7441.1
8377.4
9321.1
10417.2
11483.2
11987.0
11332.8
8962.0
5077.9
1596.1
462.5
240.6
124.1
43.2
0.0

OF REPORT)