

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: P942970

Luminaire Tested: **GALN-SB7B-727-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942970
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-SB7B-727-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37572 lumens
Efficiency: N/A
Efficacy: 146.4 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): 256.7
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



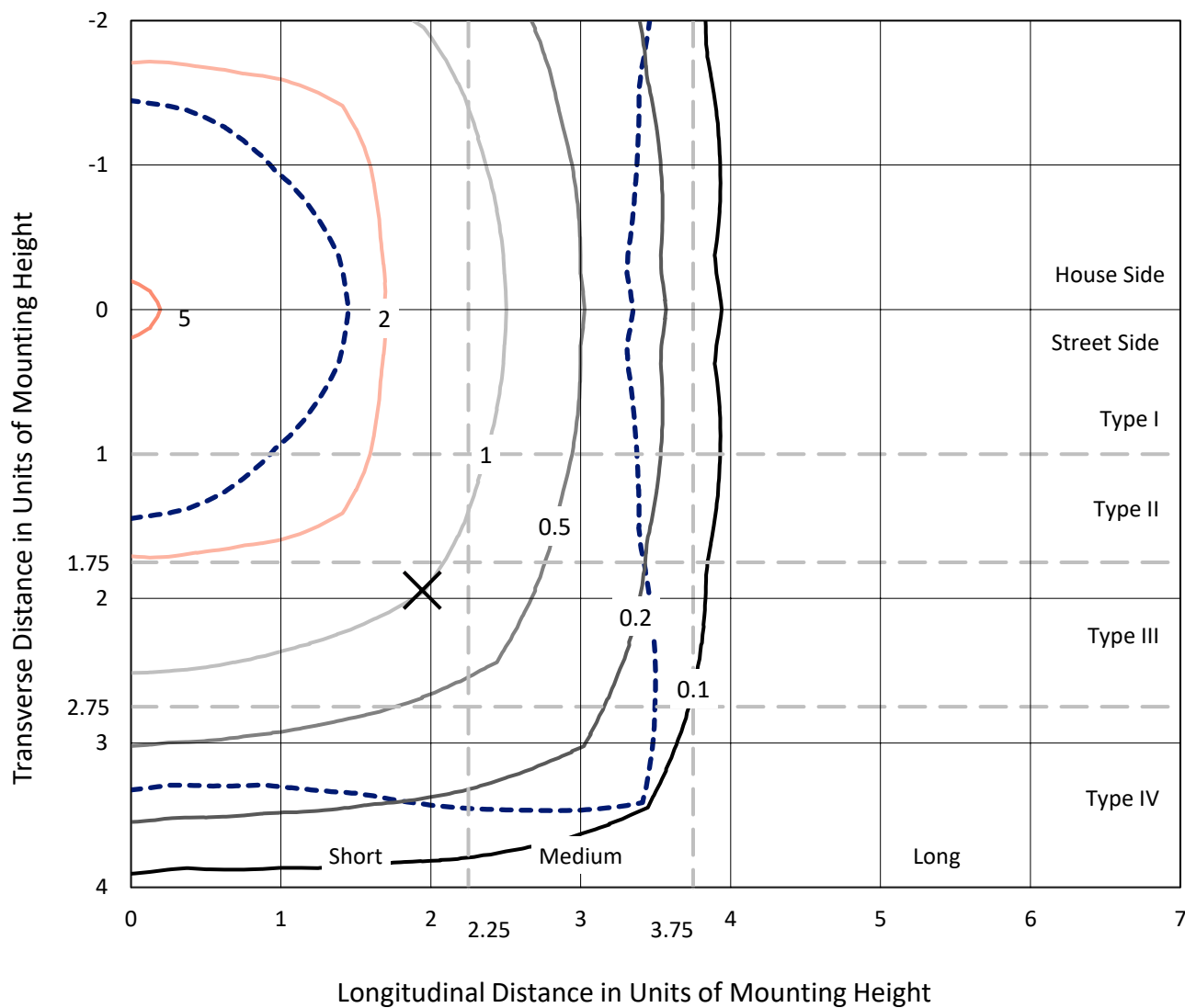
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

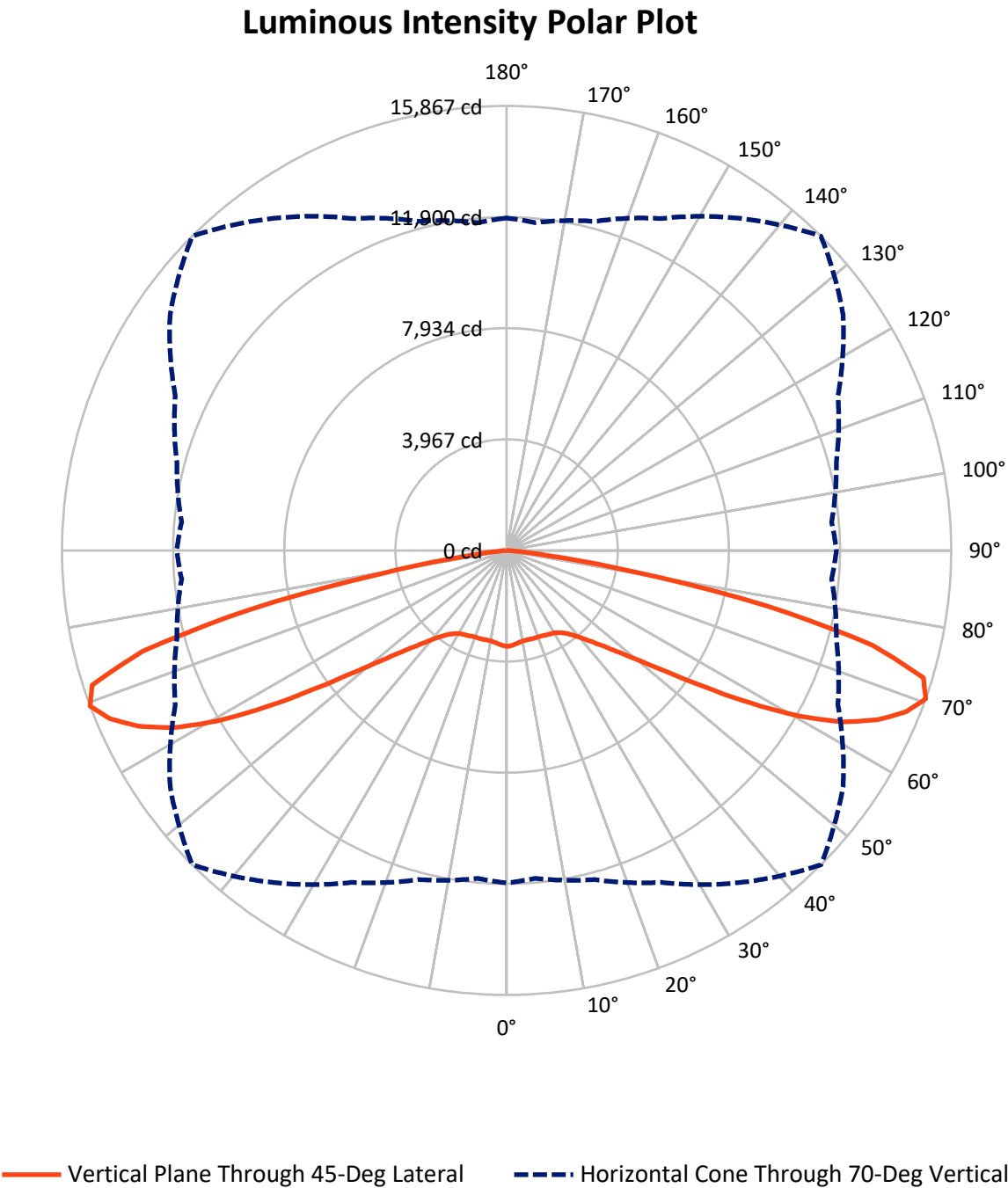
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc

Type V - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18786.0	0.0	18786.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18786.0	0.0	18786.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	37572.0	0.0	37572.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.8	0.8
10°-20°	936.1	2.5
20°-30°	1557.9	4.1
30°-40°	2356.0	6.3
40°-50°	3915.1	10.4
50°-60°	7387.6	19.7
60°-70°	12474.2	33.2
70°-80°	8196.9	21.8
80°-90°	429.4	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°	37572.0	100.0
0°-180°	37572.0	100.0

Coefficient of Utilization



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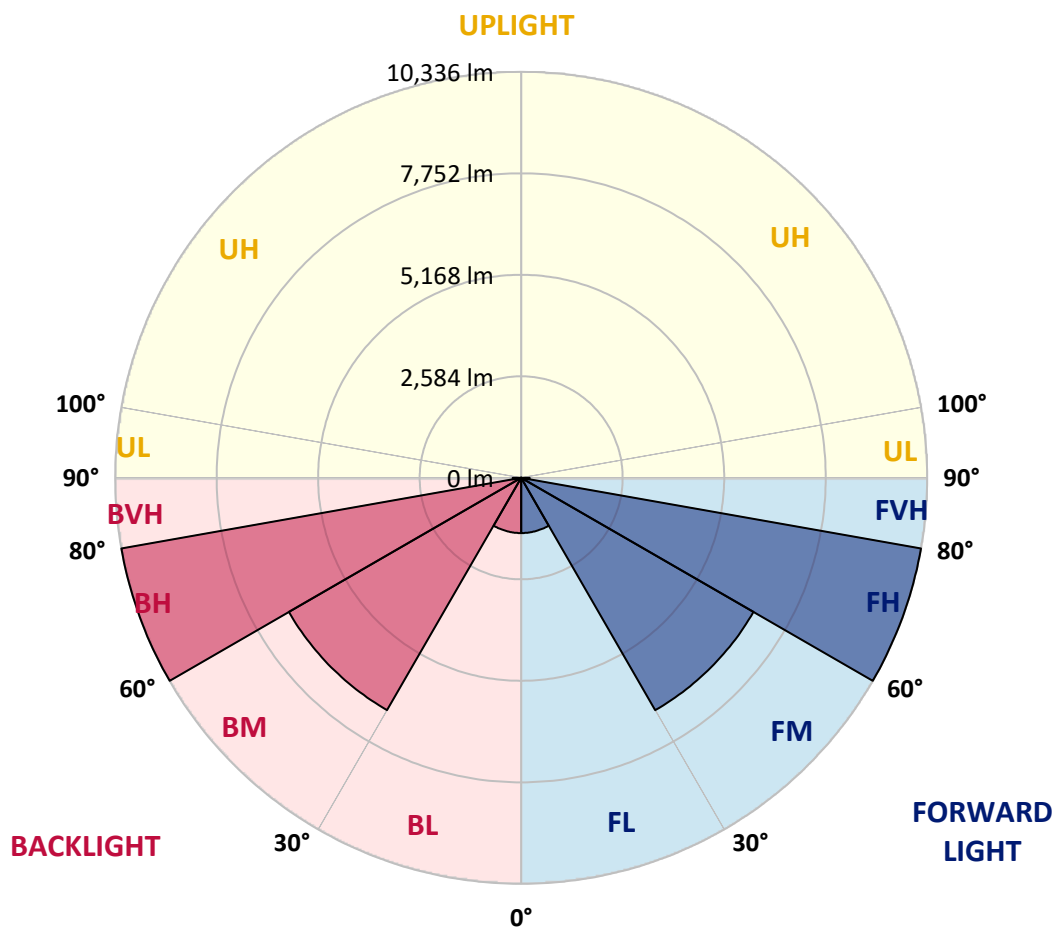
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1406.4	3.7			
FM	(30°-60°)	6829.3	18.2			
FH	(60°-80°)	10335.5	27.5			G4/12000
FVH	(80°-90°)	214.7	0.6			G2/225
BL	(0°-30°)	1406.4	3.7	B3/2500		
BM	(30°-60°)	6829.3	18.2	B4/8500		
BH	(60°-80°)	10335.5	27.5	B5		G4/12000
BVH	(80°-90°)	214.7	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°	90°
0°	3427.3	3427.3	3427.3	3427.3	3427.3	3427.3	3427.3	3427.3	3427.3	3427.3	3427.3
2.5°	3405.8	3415.6	3411.7	3403.9	3403.9	3398.0	3403.9	3407.8	3413.7	3417.6	3415.6
5°	3360.9	3368.7	3366.8	3360.9	3362.9	3357.0	3360.9	3366.8	3370.7	3372.6	3372.6
7.5°	3321.9	3329.7	3325.8	3316.0	3316.0	3310.1	3312.1	3318.0	3323.8	3325.8	3325.8
10°	3312.1	3319.9	3308.2	3292.6	3286.7	3278.9	3280.9	3286.7	3298.4	3304.3	3304.3
12.5°	3316.0	3321.9	3310.1	3286.7	3280.9	3273.0	3273.0	3278.9	3294.5	3302.3	3304.3
15°	3327.7	3333.6	3316.0	3290.6	3284.8	3278.9	3277.0	3284.8	3302.3	3316.0	3318.0
17.5°	3349.2	3355.1	3327.7	3292.6	3284.8	3286.7	3284.8	3290.6	3318.0	3343.3	3343.3
20°	3368.7	3372.6	3335.5	3292.6	3284.8	3286.7	3284.8	3296.5	3331.6	3366.8	3368.7
22.5°	3374.6	3378.5	3343.3	3306.2	3300.4	3302.3	3300.4	3312.1	3345.3	3380.5	3380.5
25°	3376.5	3382.4	3355.1	3325.8	3335.5	3339.4	3335.5	3337.5	3362.9	3394.1	3392.2
27.5°	3405.8	3413.7	3388.3	3362.9	3368.7	3366.8	3372.6	3378.5	3398.0	3429.3	3421.5
30°	3466.4	3472.2	3450.8	3425.4	3421.5	3407.8	3425.4	3444.9	3466.4	3493.7	3487.9
32.5°	3566.0	3577.7	3550.4	3523.0	3505.4	3497.6	3511.3	3544.5	3573.8	3603.1	3591.4
35°	3732.0	3739.8	3714.4	3663.6	3632.4	3632.4	3644.1	3687.1	3733.9	3771.0	3757.4
37.5°	3966.3	3976.1	3931.2	3870.6	3823.8	3823.8	3839.4	3884.3	3954.6	4007.3	3987.8
40°	4251.4	4265.1	4208.5	4146.0	4101.1	4093.3	4112.8	4163.6	4230.0	4296.4	4274.9
42.5°	4595.2	4610.8	4536.6	4481.9	4446.7	4446.7	4456.5	4503.4	4563.9	4645.9	4640.1
45°	5034.6	5061.9	4960.3	4905.7	4872.5	4880.3	4886.1	4927.1	4981.8	5075.6	5071.7
47.5°	5557.9	5585.3	5477.9	5421.2	5415.4	5452.5	5429.0	5458.3	5487.6	5595.0	5563.8
50°	6151.6	6198.5	6124.3	6120.4	6132.1	6200.4	6145.7	6161.4	6128.2	6196.5	6155.5
52.5°	6878.1	6946.4	6932.8	6956.2	7087.0	7227.6	7102.7	7048.0	6923.0	6944.5	6872.2
55°	7758.8	7862.3	7881.9	8022.5	8319.3	8606.4	8340.8	8120.1	7854.5	7805.7	7729.5
57.5°	8760.7	8842.7	8936.4	9223.5	9778.1	10287.8	9778.1	9289.9	8872.0	8772.4	8702.1
60°	9838.7	9940.2	10030.0	10453.8	11277.9	11994.7	11262.3	10487.0	9934.4	9799.6	9682.4
62.5°	10996.7	11127.6	11190.1	11660.7	12621.5	13476.9	12635.2	11695.9	11082.7	10938.1	10821.0
65°	12107.9	12215.3	12285.6	12787.5	13705.4	14562.7	13767.9	12842.2	12211.4	12022.0	11928.3
67.5°	12625.4	12684.0	12855.9	13424.2	14392.8	15371.2	14556.8	13484.7	12779.7	12447.7	12451.6
70°	11867.7	11748.6	12162.6	13072.6	14474.8	15867.2	14662.3	13045.3	12182.1	11643.1	11772.0
72.5°	9170.8	8965.7	9684.4	11240.8	13537.4	15550.9	13631.2	11328.7	10131.6	9038.0	9309.4
75°	4989.6	4757.2	5749.3	7717.8	10795.6	13478.9	11043.6	7938.5	6401.6	4952.5	5274.8
77.5°	1408.0	1320.2	2120.8	3733.9	6493.4	9463.7	6743.3	3815.9	2515.3	1492.0	1658.0
80°	431.6	417.9	566.3	1124.9	2757.5	4532.7	2650.1	1138.5	720.6	455.0	480.4
82.5°	255.8	234.3	281.2	410.1	703.0	1423.7	683.5	427.7	343.7	230.4	250.0
85°	146.5	136.7	166.0	199.2	236.3	302.7	197.2	203.1	183.6	123.0	128.9
87.5°	60.5	54.7	64.4	62.5	54.7	70.3	52.7	62.5	74.2	48.8	44.9
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)