

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: P950921

Luminaire Tested: **GALN-SB5B-727-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950921
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-SB5B-727-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27647 lumens
Efficiency: N/A
Efficacy: 151.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 182.7
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



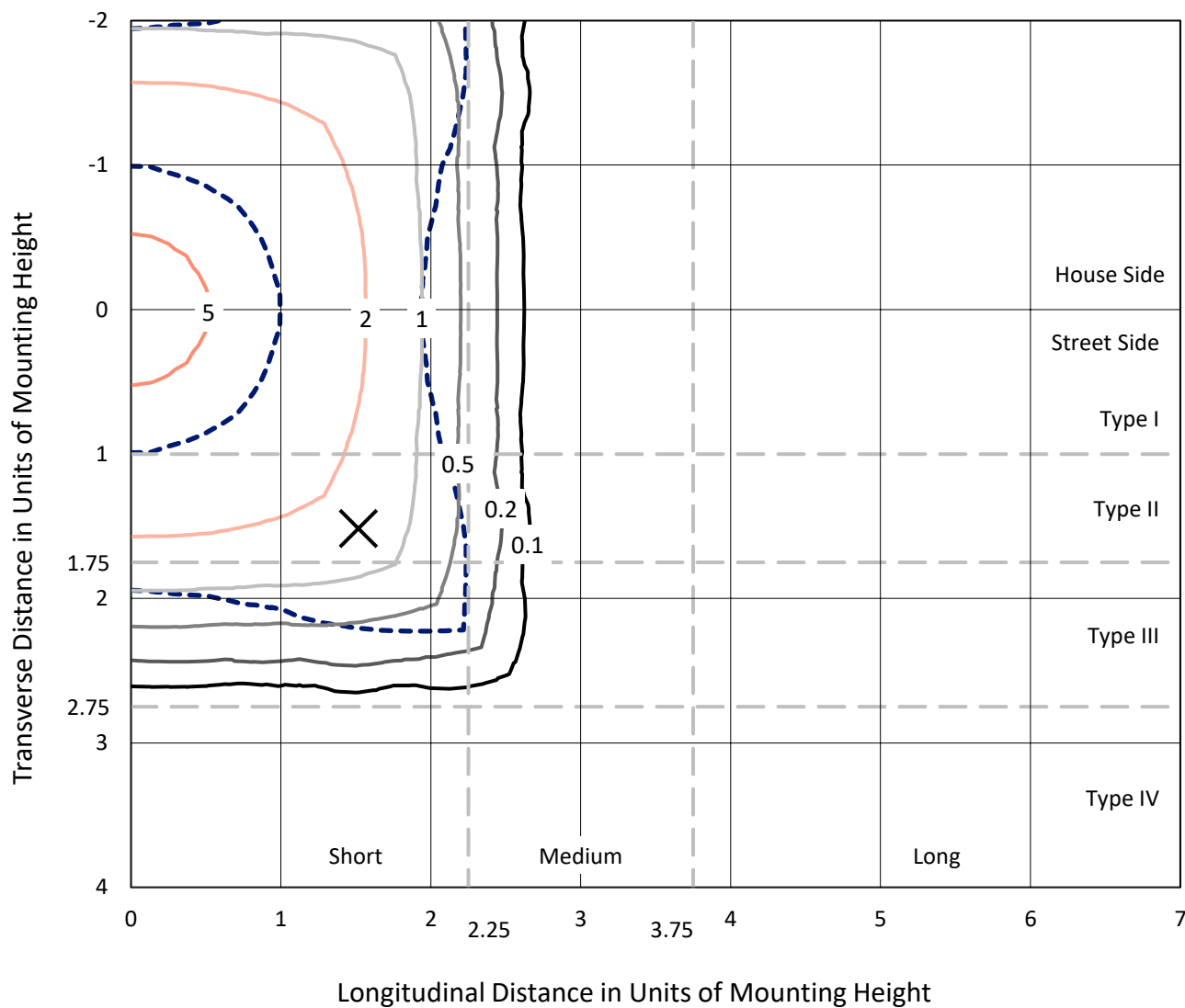
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



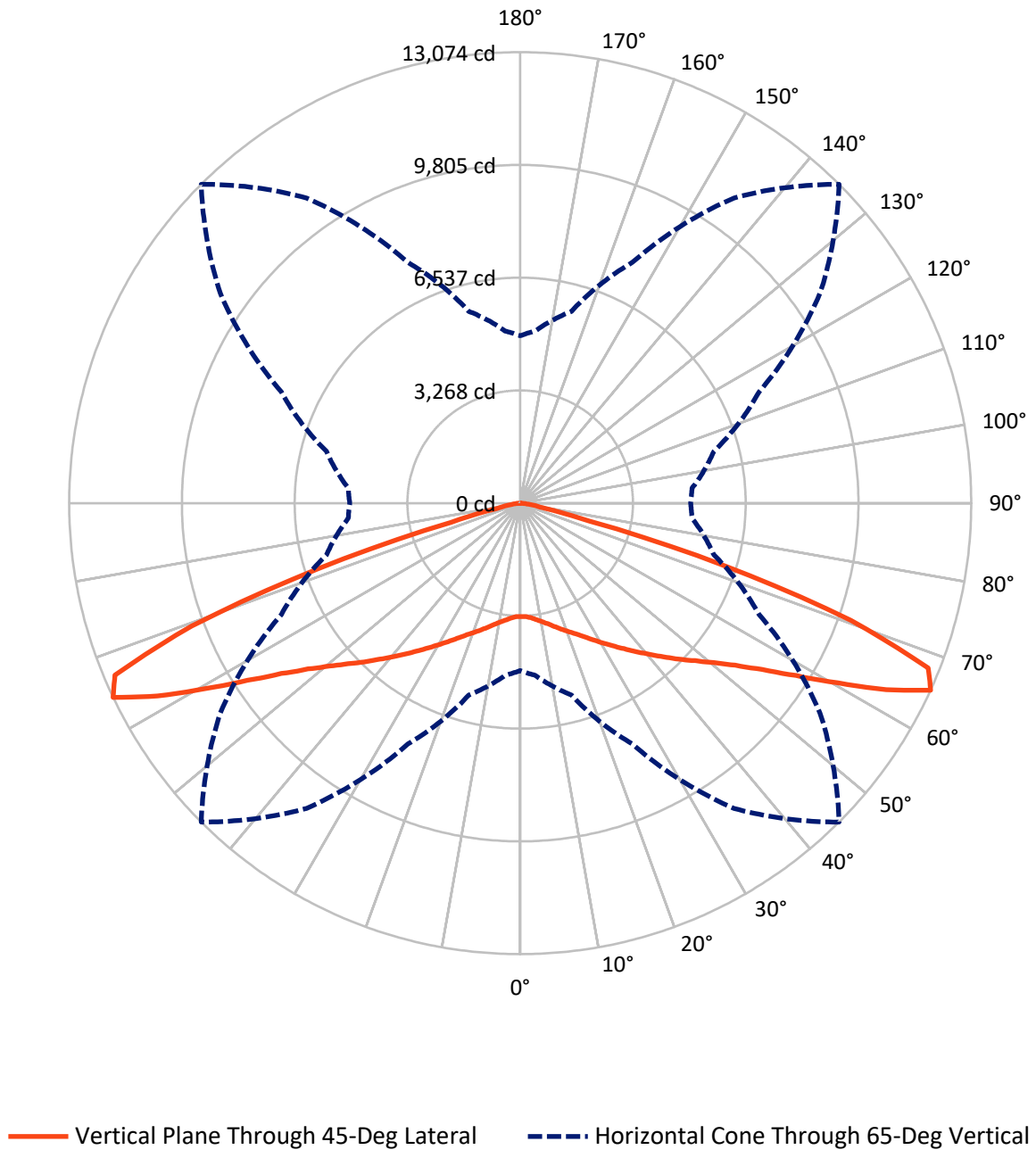
Based on 25 foot mounting height. Maximum calculated value = 5.4 fc

Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13823.5	0.0	13823.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13823.5	0.0	13823.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	27647.0	0.0	27647.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.7	1.2
10°-20°	1059.6	3.8
20°-30°	2000.6	7.2
30°-40°	3275.9	11.8
40°-50°	5079.3	18.4
50°-60°	7503.3	27.1
60°-70°	7142.4	25.8
70°-80°	1152.5	4.2
80°-90°	108.6	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°	27647.0	100.0
0°-180°	27647.0	100.0

Coefficient of Utilization



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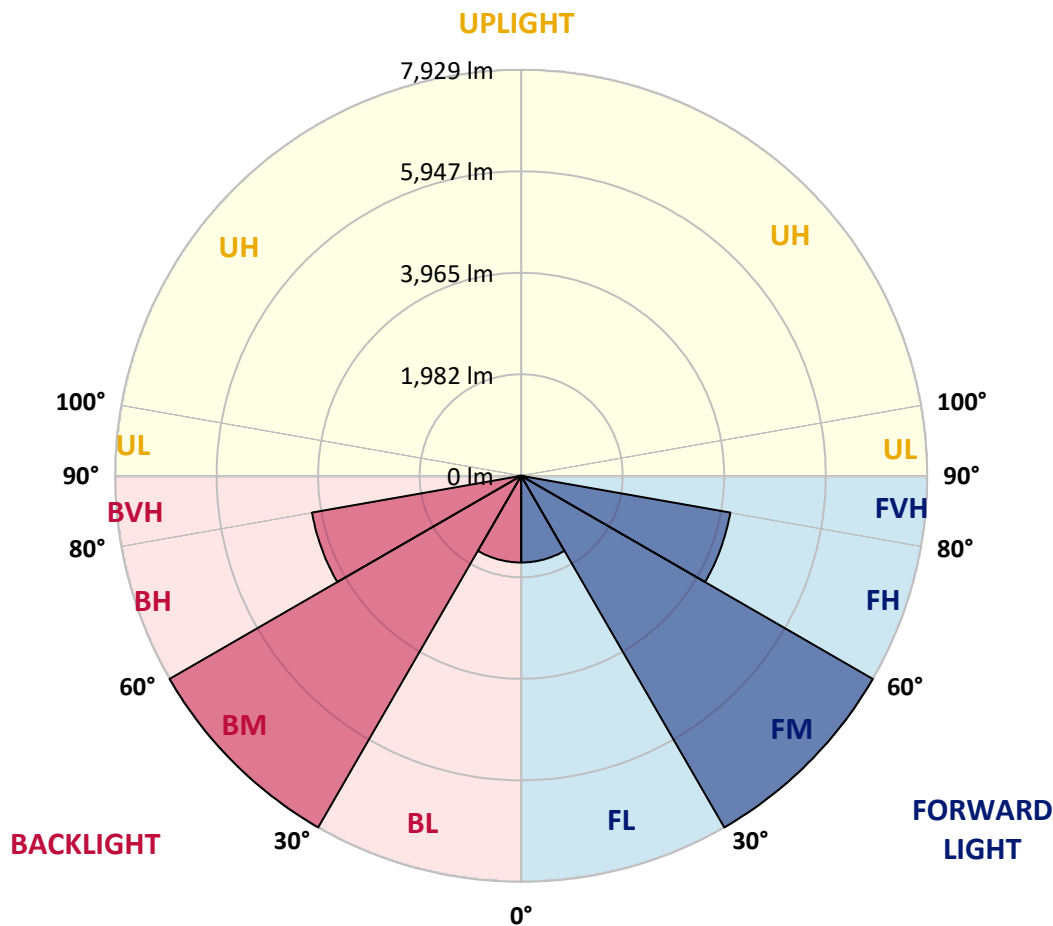
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1692.4	6.1			
FM	(30°-60°)	7929.3	28.7			
FH	(60°-80°)	4147.5	15.0			G2/5000
FVH	(80°-90°)	54.3	0.2			G1/100
BL	(0°-30°)	1692.4	6.1	B3/2500		
BM	(30°-60°)	7929.3	28.7	B4/8500		
BH	(60°-80°)	4147.5	15.0	B4/5000		G2/5000
BVH	(80°-90°)	54.3	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3290.3	3290.3	3290.3	3290.3	3290.3	3290.3	3290.3	3290.3	3290.3	3290.3	3290.3
2.5°	3312.5	3301.4	3309.7	3302.8	3297.2	3291.7	3294.4	3304.1	3308.3	3309.7	3309.7
5°	3356.9	3347.1	3351.3	3351.3	3341.6	3338.8	3340.2	3347.1	3355.5	3355.5	3355.5
7.5°	3429.0	3419.3	3429.0	3423.4	3415.1	3412.3	3410.9	3416.5	3429.0	3429.0	3424.8
10°	3516.4	3505.3	3510.8	3508.0	3498.3	3494.2	3492.8	3501.1	3512.2	3510.8	3508.0
12.5°	3612.1	3599.6	3606.5	3598.2	3595.4	3591.3	3591.3	3589.9	3596.8	3591.3	3594.1
15°	3718.9	3710.6	3713.3	3707.8	3712.0	3709.2	3698.1	3692.5	3695.3	3687.0	3688.4
17.5°	3845.1	3825.7	3835.4	3832.6	3832.6	3838.2	3820.2	3813.2	3818.8	3810.4	3817.4
20°	3990.8	3971.3	3975.5	3970.0	3963.0	3968.6	3946.4	3951.9	3956.1	3950.5	3963.0
22.5°	4150.3	4125.3	4123.9	4126.7	4111.4	4112.8	4097.6	4111.4	4119.8	4104.5	4119.8
25°	4314.0	4287.6	4305.6	4298.7	4279.3	4283.5	4272.4	4286.2	4293.2	4273.7	4295.9
27.5°	4487.4	4469.3	4486.0	4490.1	4466.6	4483.2	4466.6	4479.0	4486.0	4456.8	4479.0
30°	4689.9	4671.8	4687.1	4698.2	4670.5	4696.8	4682.9	4691.3	4692.7	4658.0	4678.8
32.5°	4910.4	4882.7	4921.5	4927.1	4896.6	4928.5	4910.4	4921.5	4928.5	4881.3	4913.2
35°	5179.5	5144.9	5189.2	5182.3	5156.0	5182.3	5165.7	5182.3	5199.0	5142.1	5176.8
37.5°	5469.4	5433.4	5480.5	5468.1	5443.1	5461.1	5451.4	5462.5	5488.9	5427.8	5465.3
40°	5788.5	5744.1	5807.9	5785.7	5762.1	5759.4	5764.9	5771.8	5806.5	5738.6	5760.7
42.5°	6129.7	6082.6	6178.3	6143.6	6110.3	6088.1	6106.1	6120.0	6153.3	6077.0	6117.2
45°	6519.5	6465.4	6590.2	6548.6	6495.9	6450.1	6479.3	6500.1	6548.6	6457.1	6504.2
47.5°	6949.5	6888.5	7021.6	7009.2	6923.2	6823.3	6889.9	6949.5	6985.6	6874.6	6912.1
50°	7369.8	7322.7	7497.4	7512.7	7407.3	7267.2	7360.1	7450.3	7460.0	7314.3	7332.4
52.5°	7763.8	7716.6	7970.4	8066.2	7971.8	7805.4	7903.9	7995.4	7921.9	7733.2	7738.8
55°	8078.6	8039.8	8363.0	8609.9	8641.8	8504.5	8562.7	8560.0	8318.6	8028.7	8038.4
57.5°	8154.9	8149.4	8557.2	9080.1	9413.1	9429.7	9314.6	9020.5	8500.3	8110.5	8085.6
60°	7808.1	7842.8	8403.2	9325.7	10213.4	10582.4	10084.4	9245.2	8293.6	7752.7	7688.9
62.5°	6770.6	6862.1	7537.7	9026.0	10859.8	11908.5	10701.7	8904.0	7444.7	6738.7	6697.1
65°	4852.2	5011.7	5758.0	7702.7	10801.6	13073.7	10612.9	7640.3	5813.5	4999.2	4939.6
67.5°	2201.4	2363.7	2997.6	5273.9	9389.5	12757.4	9367.3	5329.3	3147.4	2372.0	2337.3
70°	797.6	825.3	1029.2	2111.2	6000.7	10164.9	6257.3	2126.5	1094.4	879.4	868.3
72.5°	482.7	486.9	529.9	756.0	2084.9	6171.3	2173.6	781.0	541.0	479.9	488.3
75°	306.6	303.8	377.3	461.9	739.3	2082.1	775.4	461.9	375.9	342.6	345.4
77.5°	220.6	227.5	270.5	345.4	466.1	706.0	457.8	330.1	270.5	221.9	226.1
80°	165.1	169.2	197.0	269.1	327.4	439.7	291.3	244.1	203.9	138.7	142.9
82.5°	119.3	119.3	129.0	195.6	199.7	237.2	158.1	172.0	134.6	98.5	98.5
85°	70.7	69.4	80.5	116.5	104.0	87.4	72.1	105.4	84.6	61.0	59.6
87.5°	25.0	26.4	25.0	33.3	27.7	23.6	22.2	29.1	23.6	20.8	19.4
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)