

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: P941443

Luminaire Tested: **GALN-SB5A-727-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941443
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5A-727-U-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

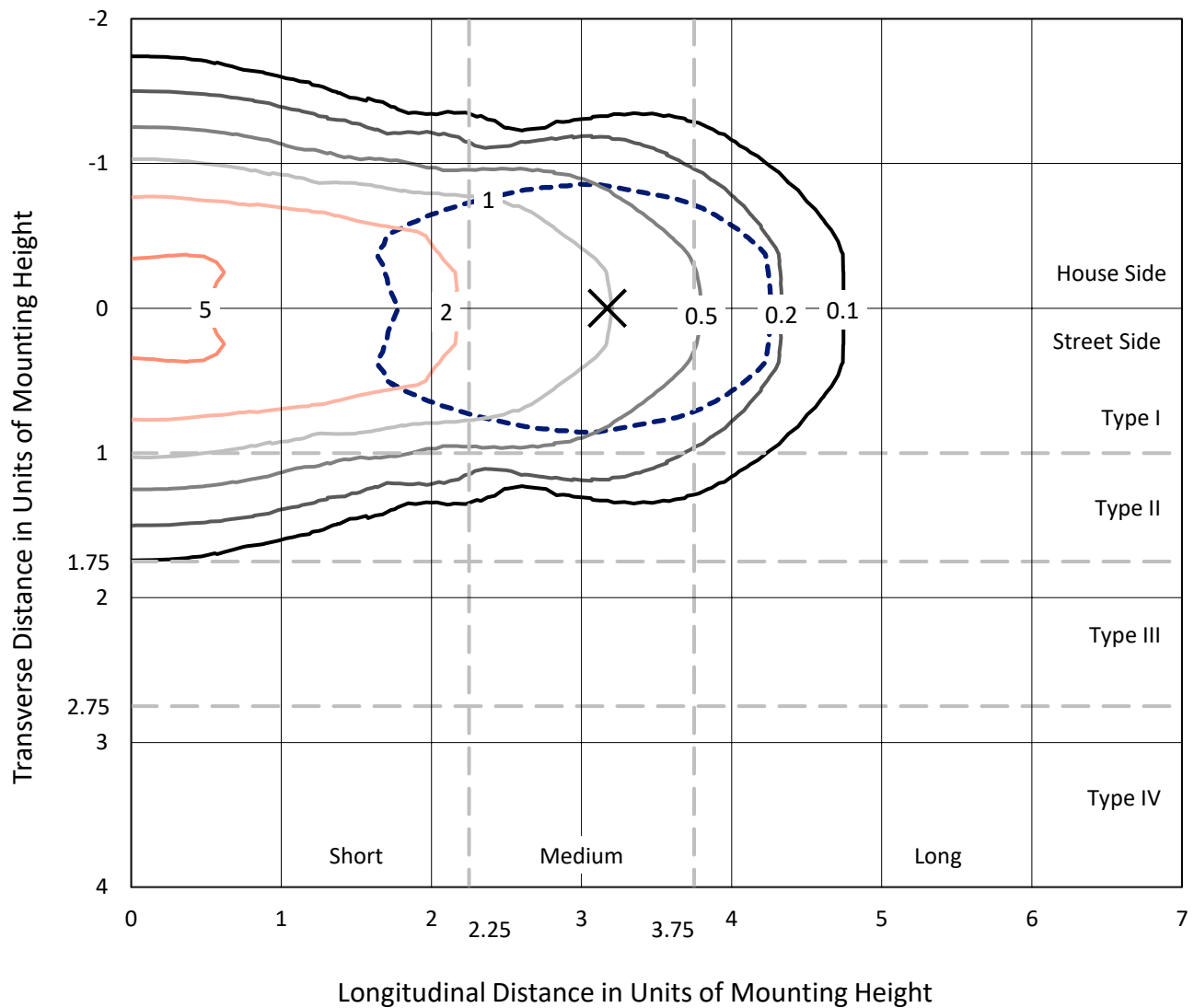
Lumens per Lamp: N/A
Luminaire Lumens: 20792 lumens
Efficiency: N/A
Efficacy: 146.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 141.7
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



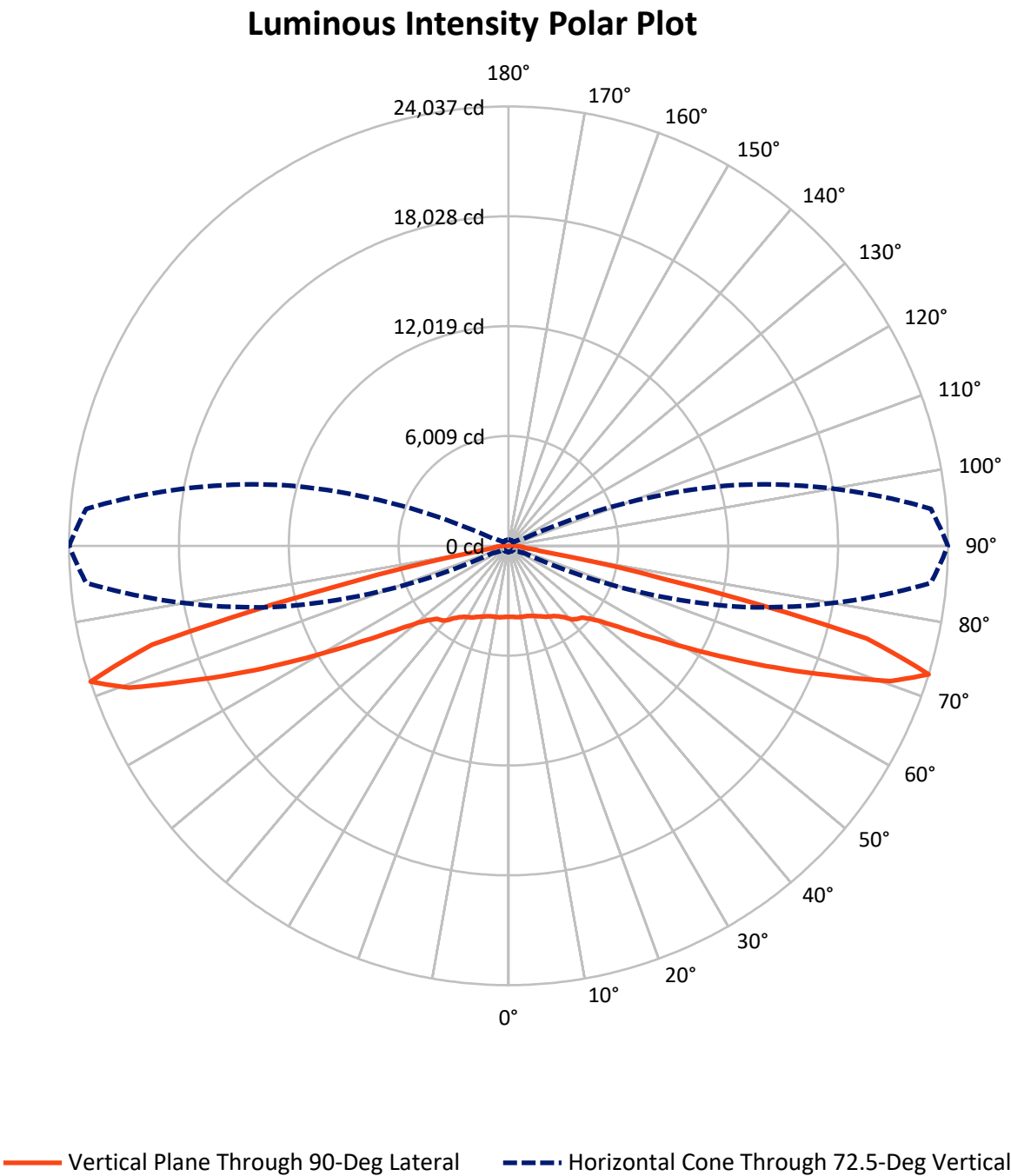
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
Type I - Short - N/A

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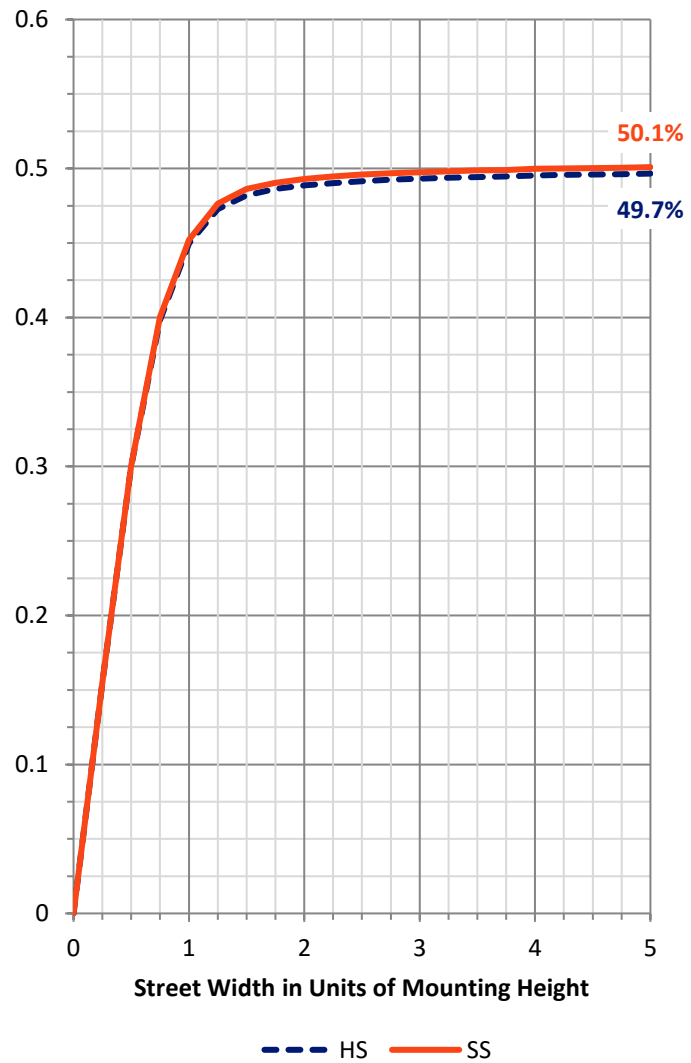
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10396.0	0.0	10396.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10396.0	0.0	10396.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	20792.0	0.0	20792.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	376.7	1.8
10°-20°	1151.9	5.5
20°-30°	1920.6	9.2
30°-40°	2641.4	12.7
40°-50°	3225.9	15.5
50°-60°	3731.1	17.9
60°-70°	4448.7	21.4
70°-80°	3104.9	14.9
80°-90°	190.7	0.9
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°	20792.0	100.0
0°-180°	20792.0	100.0

Coefficient of Utilization



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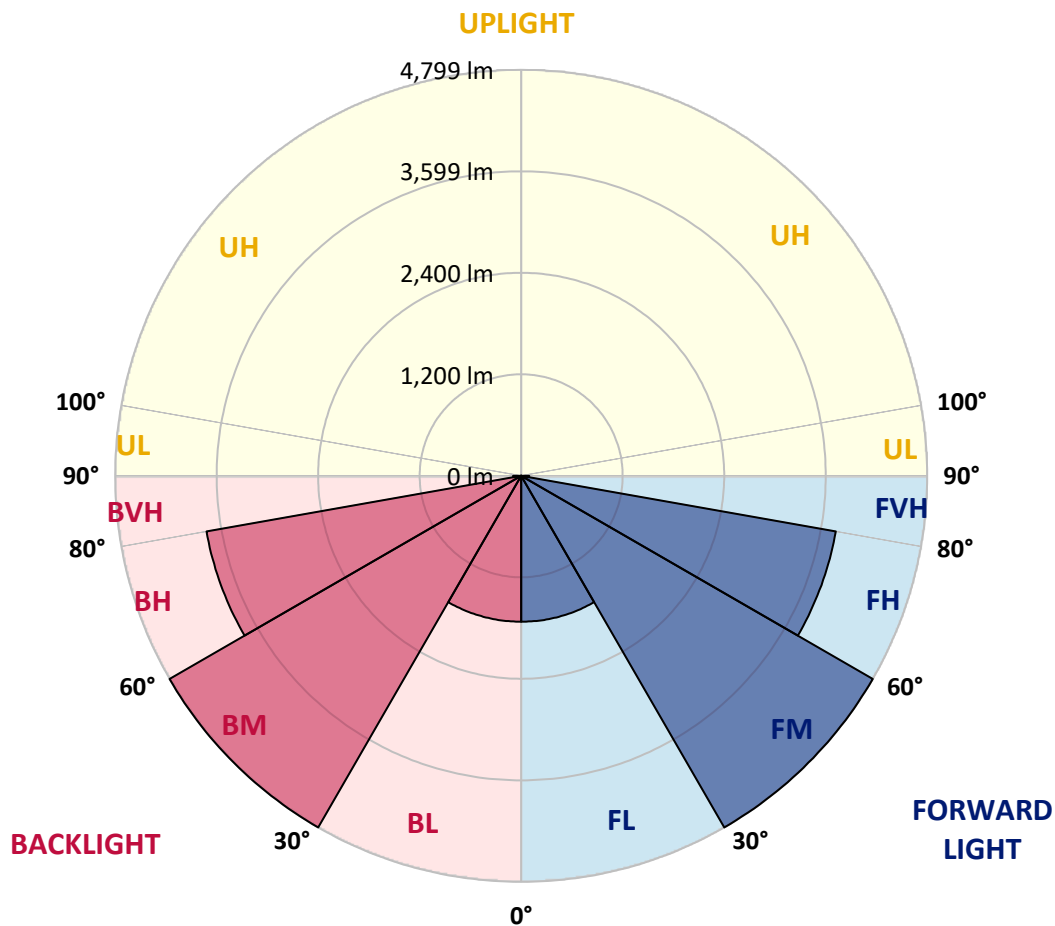
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1724.6	8.3			
FM	(30°-60°)	4799.2	23.1			
FH	(60°-80°)	3776.8	18.2			G2/5000
FVH	(80°-90°)	95.4	0.5			G1/100
BL	(0°-30°)	1724.6	8.3	B3/2500		
BM	(30°-60°)	4799.2	23.1	B3/5000		
BH	(60°-80°)	3776.8	18.2	B4/5000		G4/5000
BVH	(80°-90°)	95.4	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3885.2	3885.2	3885.2	3885.2	3885.2	3885.2	3885.2	3885.2	3885.2	3885.2	3885.2
2.5°	3888.5	3892.9	3892.9	3889.6	3897.4	3890.7	3890.7	3887.4	3890.7	3887.4	3887.4
5°	3908.4	3913.9	3916.1	3915.0	3925.0	3919.5	3919.5	3915.0	3916.1	3912.8	3912.8
7.5°	3946.0	3953.7	3958.1	3963.7	3978.0	3971.4	3967.0	3953.7	3948.2	3939.4	3939.4
10°	3958.1	3967.0	3981.3	4010.1	4043.2	4044.3	4031.1	3997.9	3972.5	3952.6	3949.3
12.5°	3920.6	3932.7	3962.6	4021.1	4095.2	4125.0	4104.0	4048.7	3999.0	3963.7	3958.1
15°	3873.0	3886.3	3931.6	4020.0	4129.4	4199.0	4196.8	4123.9	4044.3	3989.1	3980.2
17.5°	3799.0	3812.3	3877.5	4001.2	4155.9	4270.9	4301.8	4226.7	4115.0	4041.0	4028.9
20°	3665.3	3677.5	3768.1	3941.6	4164.8	4347.1	4427.8	4361.5	4222.2	4121.7	4102.9
22.5°	3491.8	3510.6	3616.7	3838.8	4143.8	4426.7	4571.4	4526.1	4347.1	4207.9	4182.5
25°	3306.2	3326.1	3449.8	3712.8	4089.6	4484.1	4741.6	4712.9	4488.5	4315.1	4279.7
27.5°	3146.0	3167.0	3301.8	3588.0	4005.7	4506.2	4909.5	4923.9	4659.8	4433.3	4395.7
30°	3020.0	3039.9	3183.5	3487.4	3897.4	4484.1	5056.5	5156.0	4834.4	4536.1	4481.9
32.5°	2881.9	2907.3	3058.7	3364.7	3769.2	4431.1	5184.7	5406.8	5036.6	4646.6	4578.0
35°	2707.3	2730.5	2889.6	3196.8	3601.2	4346.0	5291.9	5685.3	5326.1	4814.5	4738.3
37.5°	2495.1	2517.2	2675.2	2986.8	3434.4	4226.7	5373.6	5999.1	5670.9	5056.5	4954.9
40°	2281.8	2302.8	2450.9	2752.6	3234.4	4074.2	5402.4	6306.3	6066.5	5389.1	5280.8
42.5°	2086.3	2105.0	2241.0	2521.6	3010.0	3879.7	5364.8	6573.7	6421.2	5621.2	5481.9
45°	1906.1	1922.7	2043.2	2305.0	2776.9	3643.2	5252.1	6861.0	6843.3	5786.9	5599.1
47.5°	1700.6	1717.2	1842.0	2095.1	2543.7	3365.9	5060.9	7143.9	7430.1	6162.6	5946.0
50°	1449.8	1464.1	1592.3	1853.1	2301.7	3070.8	4795.7	7366.0	8170.4	6731.7	6459.9
52.5°	1152.5	1168.0	1292.9	1553.6	2014.4	2753.7	4446.5	7510.7	9025.7	7562.7	7227.9
55°	857.5	868.5	976.8	1211.1	1658.6	2392.3	4009.0	7551.6	9995.9	8698.6	8279.8
57.5°	622.1	628.7	698.4	873.0	1257.5	1940.4	3477.5	7445.5	11150.6	10155.0	9627.9
60°	503.9	506.1	527.1	604.4	874.1	1429.9	2835.4	7080.9	12403.7	12032.4	11368.3
62.5°	457.5	457.5	463.0	484.0	591.2	943.7	2058.6	6325.1	13747.4	14404.9	13515.3
65°	425.4	425.4	427.6	437.6	466.3	601.1	1299.5	5094.1	14880.0	17184.0	16059.1
67.5°	396.7	397.8	396.7	400.0	416.6	444.2	753.6	3518.3	15490.0	20063.6	18849.2
70°	366.9	369.1	363.5	363.5	376.8	377.9	471.8	1929.3	14983.9	22476.9	22157.6
72.5°	331.5	334.8	326.0	323.8	333.7	329.3	354.7	926.0	12864.5	23197.4	24037.2
75°	300.6	305.0	285.1	279.6	279.6	276.3	288.4	475.2	8349.4	18923.2	20240.4
77.5°	272.9	281.8	249.7	232.1	227.6	217.7	235.4	290.6	3652.0	8884.3	8699.7
80°	225.4	237.6	205.5	184.5	176.8	165.8	185.6	203.3	1086.2	2063.0	1975.8
82.5°	168.0	173.5	145.9	131.5	124.9	117.1	139.2	141.4	353.6	730.4	825.4
85°	107.2	109.4	89.5	77.4	74.0	70.7	88.4	77.4	134.8	537.0	780.1
87.5°	37.6	43.1	34.3	30.9	33.2	27.6	40.9	23.2	37.6	379.0	469.6
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)