

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: P949114

Luminaire Tested: **GALN-SB4A-722-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949114
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4A-722-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15553 lumens
Efficiency: N/A
Efficacy: 136.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 114
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



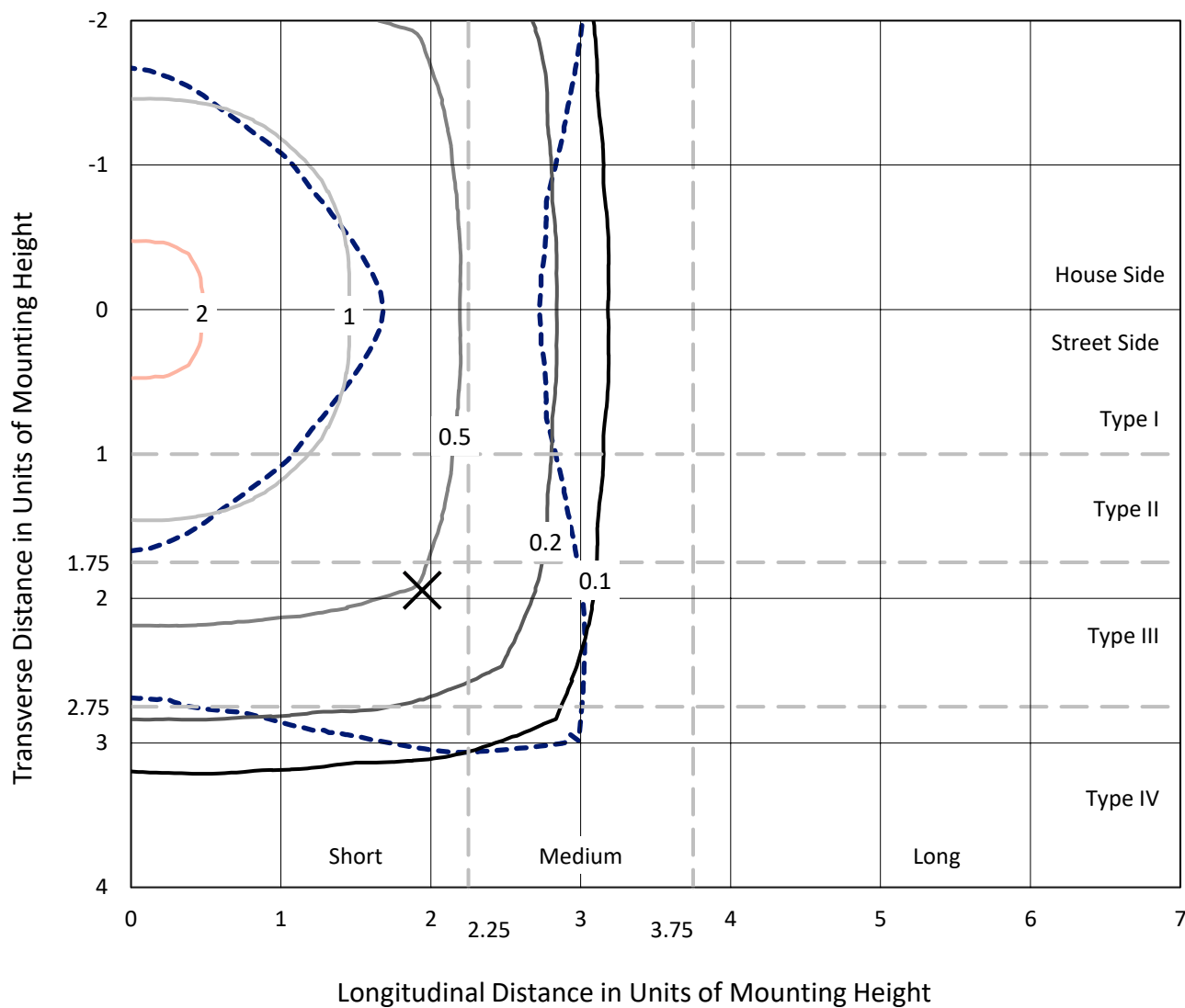
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

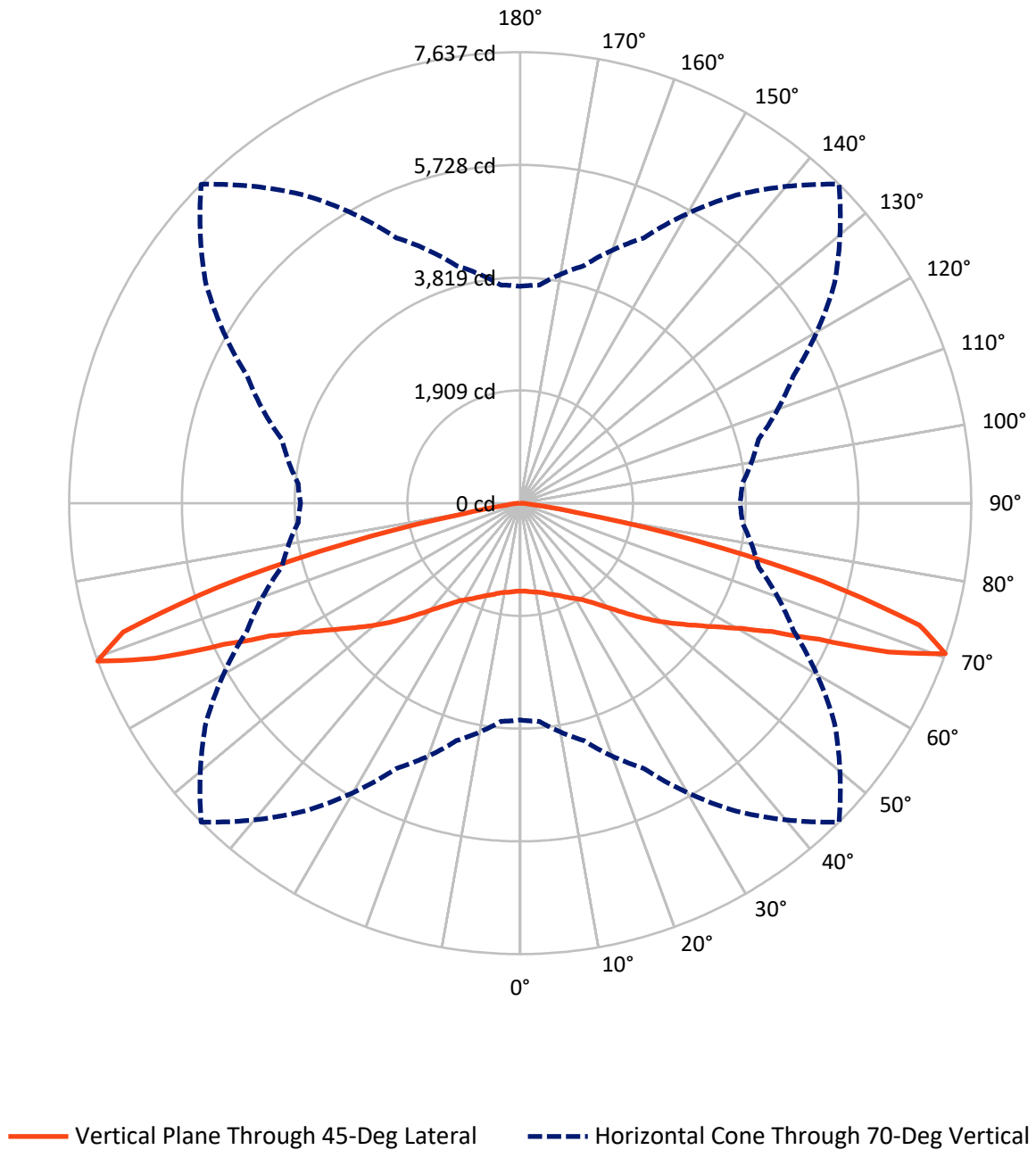


Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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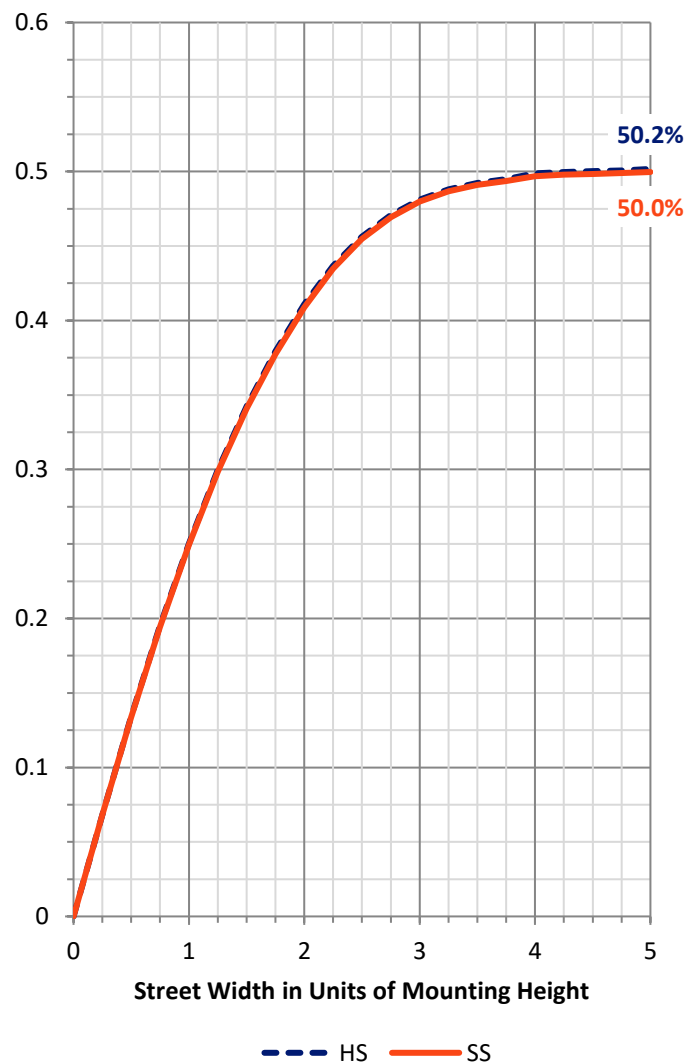
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7776.5	0.0	7776.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7776.5	0.0	7776.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	15553.0	0.0	15553.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.7	0.9
10°-20°	448.8	2.9
20°-30°	802.1	5.2
30°-40°	1300.1	8.4
40°-50°	2117.7	13.6
50°-60°	3228.8	20.8
60°-70°	4803.5	30.9
70°-80°	2618.0	16.8
80°-90°	89.1	0.6
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°	15553.0	100.0
0°-180°	15553.0	100.0

Coefficient of Utilization



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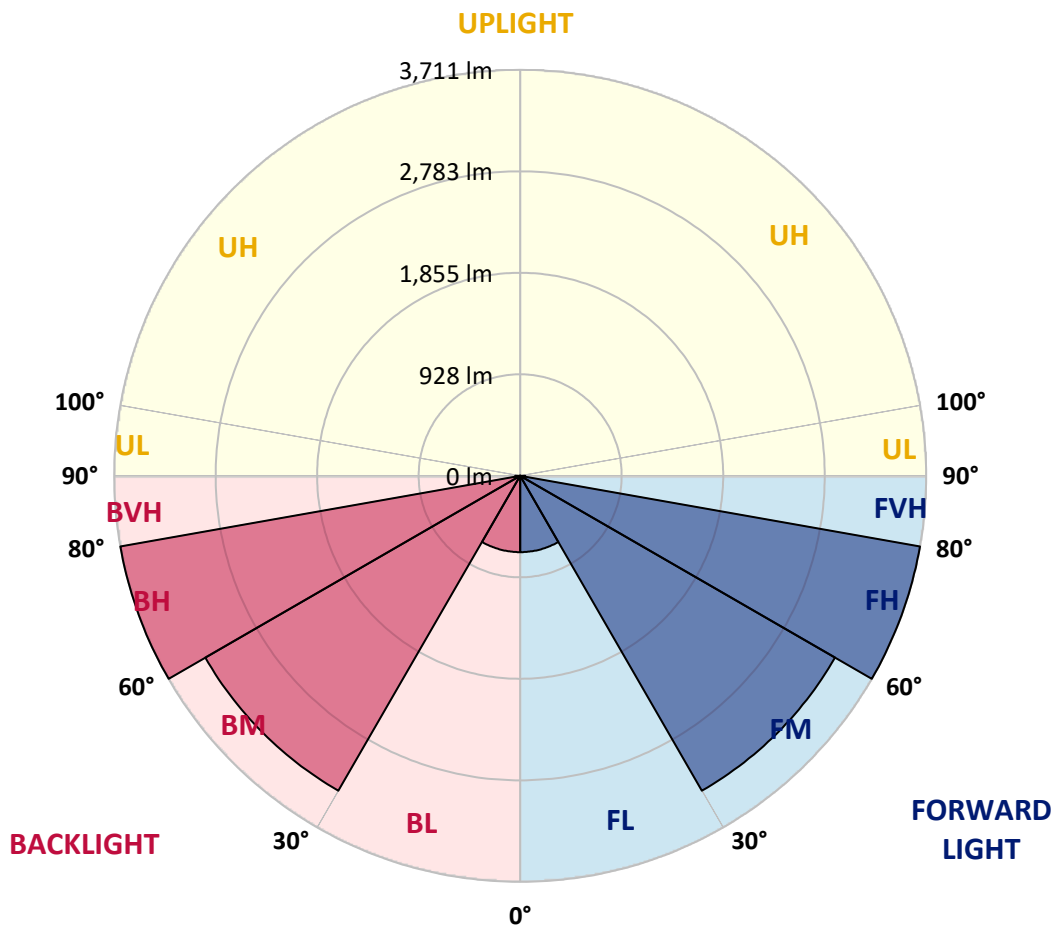
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	697.8	4.5			
FM	(30°-60°)	3323.4	21.4			
FH	(60°-80°)	3710.8	23.9			G2/5000
FVH	(80°-90°)	44.6	0.3			G1/100
BL	(0°-30°)	697.8	4.5	B2/1000		
BM	(30°-60°)	3323.4	21.4	B3/5000		
BH	(60°-80°)	3710.8	23.9	B4/5000		G2/5000
BVH	(80°-90°)	44.6	0.3			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°	1489.8	1489.8	1489.8	1489.8	1489.8	1489.8	1489.8	1489.8	1489.8	1489.8	1489.8
2.5°	1496.8	1498.4	1495.3	1493.7	1492.2	1489.8	1490.6	1494.5	1497.6	1496.8	1497.6
5°	1509.3	1510.9	1508.6	1507.8	1504.7	1503.9	1503.9	1507.8	1510.1	1508.6	1509.3
7.5°	1523.4	1525.7	1521.8	1521.0	1519.5	1517.9	1517.1	1521.0	1523.4	1523.4	1523.4
10°	1536.7	1539.0	1535.9	1533.5	1532.0	1532.0	1530.4	1533.5	1537.4	1536.7	1536.7
12.5°	1550.7	1552.3	1549.2	1547.6	1547.6	1549.9	1547.6	1549.2	1552.3	1550.7	1549.9
15°	1567.9	1568.7	1567.9	1570.2	1574.1	1582.0	1574.9	1573.4	1574.9	1571.0	1571.0
17.5°	1591.3	1592.9	1596.0	1601.5	1606.9	1621.0	1608.5	1604.6	1604.6	1596.8	1596.8
20°	1620.2	1622.6	1627.2	1636.6	1643.6	1656.9	1644.4	1639.0	1636.6	1626.5	1626.5
22.5°	1650.7	1654.6	1661.6	1674.1	1686.6	1699.1	1686.6	1677.2	1670.2	1656.9	1656.1
25°	1685.8	1690.5	1701.4	1721.7	1738.9	1756.9	1742.0	1723.3	1709.2	1690.5	1689.7
27.5°	1735.8	1741.2	1754.5	1779.5	1801.4	1817.0	1802.9	1778.7	1759.2	1736.6	1735.8
30°	1806.1	1811.5	1827.1	1853.7	1868.5	1878.7	1869.3	1850.6	1827.1	1801.4	1801.4
32.5°	1896.6	1903.7	1920.8	1945.8	1948.9	1950.5	1947.4	1938.0	1920.8	1889.6	1890.4
35°	2011.4	2019.2	2038.7	2059.0	2055.9	2059.0	2054.4	2051.2	2038.7	2002.8	2002.8
37.5°	2152.0	2161.3	2181.6	2197.2	2189.4	2185.5	2186.3	2187.1	2180.1	2140.2	2140.2
40°	2315.1	2327.6	2342.5	2358.9	2345.6	2333.9	2341.7	2347.9	2341.7	2301.1	2301.1
42.5°	2483.0	2501.0	2516.6	2540.0	2529.1	2514.3	2525.2	2532.2	2518.9	2475.2	2478.3
45°	2669.6	2686.8	2707.1	2742.3	2734.5	2718.8	2734.5	2736.0	2713.4	2661.8	2667.3
47.5°	2862.5	2880.5	2910.9	2957.8	2954.6	2937.5	2957.8	2946.8	2917.9	2856.3	2852.4
50°	3045.2	3070.2	3117.1	3182.6	3188.9	3167.8	3195.1	3174.1	3125.6	3048.3	3046.8
52.5°	3217.0	3243.6	3317.7	3406.7	3429.4	3402.1	3438.8	3402.1	3329.4	3230.3	3220.9
55°	3397.4	3427.0	3515.3	3631.6	3676.9	3656.6	3691.0	3635.5	3532.5	3412.2	3395.8
57.5°	3609.8	3627.7	3733.1	3871.3	3947.9	3952.5	3968.2	3874.5	3749.5	3612.9	3594.1
60°	3840.1	3865.1	3979.9	4145.4	4266.4	4305.5	4289.1	4150.1	4004.9	3847.9	3822.9
62.5°	4135.3	4162.6	4300.0	4498.3	4689.6	4786.5	4722.4	4521.0	4341.4	4153.2	4120.4
65°	4379.7	4410.1	4658.4	5012.1	5360.4	5554.8	5393.9	5023.1	4699.8	4434.3	4390.6
67.5°	4202.4	4239.9	4629.5	5279.2	6145.1	6725.3	6174.8	5358.8	4725.6	4365.6	4311.7
70°	3673.0	3708.1	4162.6	4956.7	6366.1	7637.3	6498.8	5102.7	4177.4	3774.5	3720.6
72.5°	2438.5	2551.7	3011.6	3964.3	5684.4	7067.3	5740.6	3883.8	2793.8	2433.1	2354.2
75°	808.9	899.5	1213.4	2055.1	3807.3	5285.4	3624.6	1818.5	961.2	691.8	654.3
77.5°	203.8	235.0	324.0	588.0	1518.7	3009.3	1367.2	480.2	261.6	182.7	163.2
80°	99.2	109.3	156.2	196.0	380.3	956.5	356.8	184.3	123.4	95.3	87.5
82.5°	54.7	55.4	88.2	110.9	141.3	247.5	146.8	107.8	71.1	57.8	57.8
85°	33.6	32.8	46.8	59.3	59.3	88.2	70.3	59.3	40.6	35.9	37.5
87.5°	13.3	13.3	17.2	18.7	16.4	22.6	18.0	19.5	15.6	14.8	15.6
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)