

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: P940760

Luminaire Tested: **GALN-SB4A-727-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940760
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-SB4A-727-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16867 lumens
Efficiency: N/A
Efficacy: 148.0 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



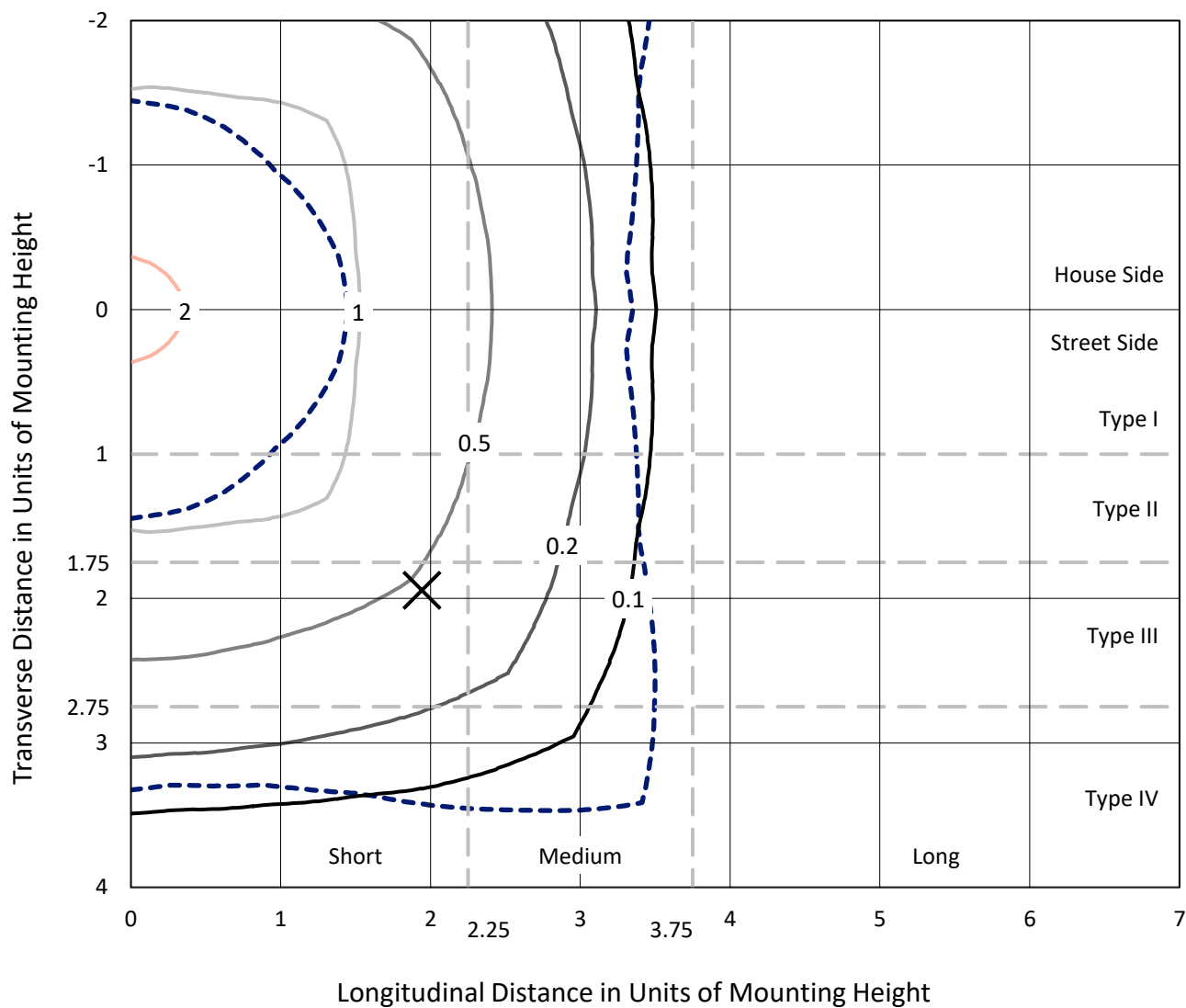
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

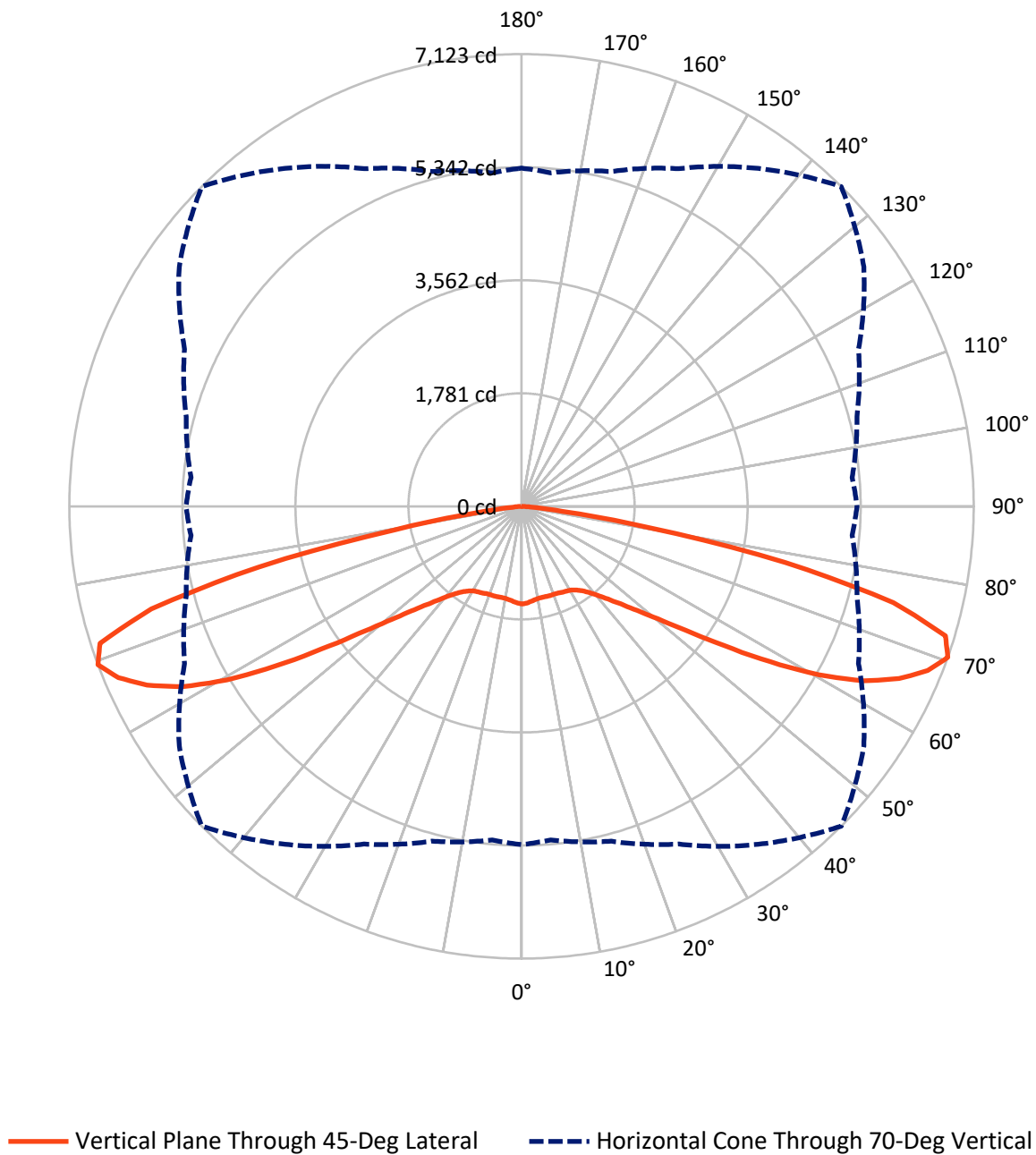


Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8433.5	0.0	8433.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8433.5	0.0	8433.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	16867.0	0.0	16867.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.1	0.8
10°-20°	420.3	2.5
20°-30°	699.4	4.1
30°-40°	1057.7	6.3
40°-50°	1757.6	10.4
50°-60°	3316.5	19.7
60°-70°	5600.0	33.2
70°-80°	3679.8	21.8
80°-90°	192.8	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°	16867.0	100.0
0°-180°	16867.0	100.0

Coefficient of Utilization



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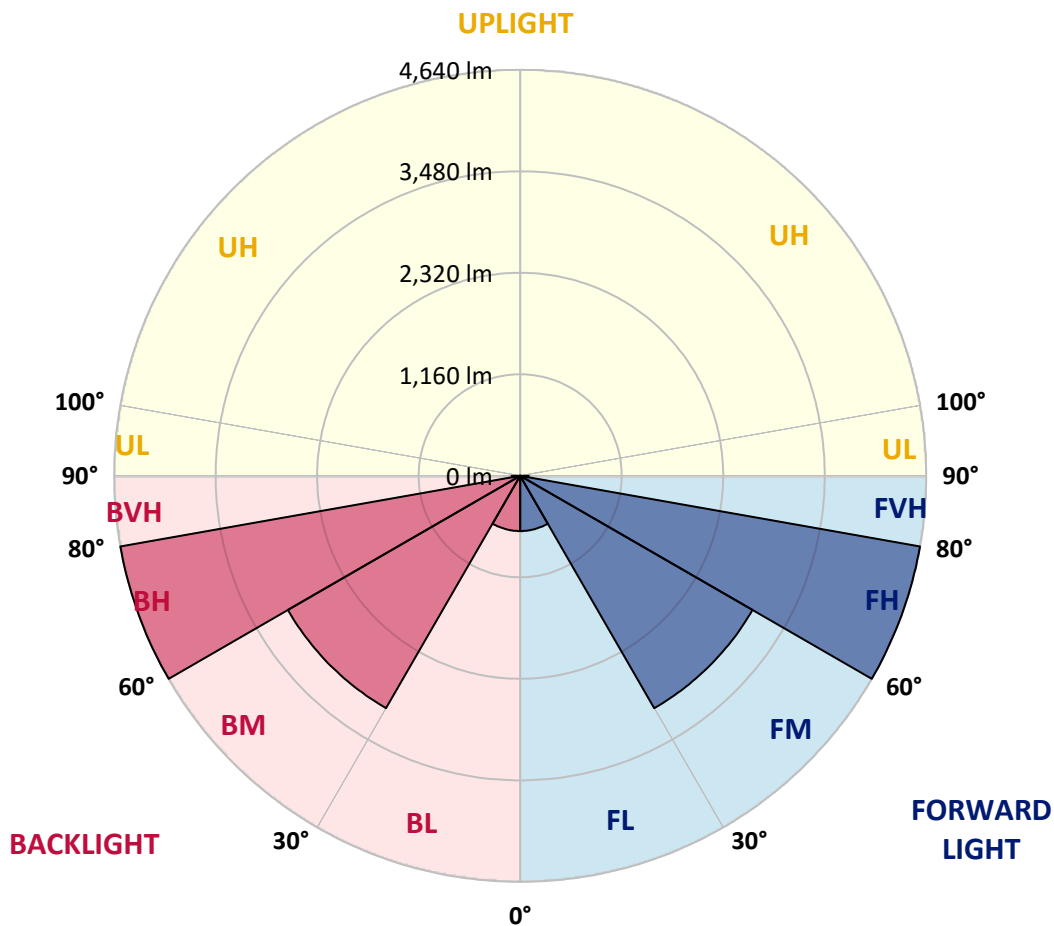
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	631.4	3.7			
FM	(30°-60°)	3065.8	18.2			
FH	(60°-80°)	4639.9	27.5			G2/5000
FVH	(80°-90°)	96.4	0.6			G1/100
BL	(0°-30°)	631.4	3.7	B2/1000		
BM	(30°-60°)	3065.8	18.2	B3/5000		
BH	(60°-80°)	4639.9	27.5	B4/5000		G2/5000
BVH	(80°-90°)	96.4	0.6			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°	1538.6	1538.6	1538.6	1538.6	1538.6	1538.6	1538.6	1538.6	1538.6	1538.6	1538.6
2.5°	1529.0	1533.3	1531.6	1528.1	1528.1	1525.5	1528.1	1529.8	1532.5	1534.2	1533.3
5°	1508.8	1512.3	1511.4	1508.8	1509.7	1507.0	1508.8	1511.4	1513.2	1514.1	1514.1
7.5°	1491.3	1494.8	1493.0	1488.6	1488.6	1486.0	1486.9	1489.5	1492.1	1493.0	1493.0
10°	1486.9	1490.4	1485.1	1478.1	1475.5	1472.0	1472.9	1475.5	1480.7	1483.4	1483.4
12.5°	1488.6	1491.3	1486.0	1475.5	1472.9	1469.4	1469.4	1472.0	1479.0	1482.5	1483.4
15°	1493.9	1496.5	1488.6	1477.2	1474.6	1472.0	1471.1	1474.6	1482.5	1488.6	1489.5
17.5°	1503.5	1506.2	1493.9	1478.1	1474.6	1475.5	1474.6	1477.2	1489.5	1500.9	1500.9
20°	1512.3	1514.1	1497.4	1478.1	1474.6	1475.5	1474.6	1479.9	1495.7	1511.4	1512.3
22.5°	1514.9	1516.7	1500.9	1484.3	1481.6	1482.5	1481.6	1486.9	1501.8	1517.6	1517.6
25°	1515.8	1518.4	1506.2	1493.0	1497.4	1499.2	1497.4	1498.3	1509.7	1523.7	1522.8
27.5°	1529.0	1532.5	1521.1	1509.7	1512.3	1511.4	1514.1	1516.7	1525.5	1539.5	1536.0
30°	1556.1	1558.8	1549.1	1537.7	1536.0	1529.8	1537.7	1546.5	1556.1	1568.4	1565.8
32.5°	1600.9	1606.1	1593.8	1581.6	1573.7	1570.2	1576.3	1591.2	1604.4	1617.5	1612.3
35°	1675.4	1678.9	1667.5	1644.7	1630.7	1630.7	1635.9	1655.2	1676.3	1692.9	1686.8
37.5°	1780.6	1785.0	1764.8	1737.6	1716.6	1716.6	1723.6	1743.8	1775.3	1799.0	1790.2
40°	1908.6	1914.7	1889.3	1861.2	1841.1	1837.6	1846.3	1869.1	1898.9	1928.7	1919.1
42.5°	2062.9	2069.9	2036.6	2012.0	1996.2	1996.2	2000.6	2021.7	2048.8	2085.7	2083.0
45°	2260.1	2272.4	2226.8	2202.3	2187.4	2190.9	2193.5	2211.9	2236.5	2278.5	2276.8
47.5°	2495.1	2507.4	2459.1	2433.7	2431.1	2447.7	2437.2	2450.4	2463.5	2511.7	2497.7
50°	2761.6	2782.6	2749.3	2747.6	2752.8	2783.5	2759.0	2766.0	2751.1	2781.8	2763.4
52.5°	3087.7	3118.4	3112.3	3122.8	3181.5	3244.7	3188.6	3164.0	3107.9	3117.5	3085.1
55°	3483.1	3529.6	3538.4	3601.5	3734.7	3863.6	3744.4	3645.3	3526.1	3504.2	3470.0
57.5°	3932.9	3969.7	4011.8	4140.7	4389.6	4618.5	4389.6	4170.5	3982.9	3938.1	3906.6
60°	4416.8	4462.4	4502.7	4693.0	5062.9	5384.7	5055.9	4707.9	4459.8	4399.3	4346.7
62.5°	4936.7	4995.4	5023.5	5234.8	5666.1	6050.1	5672.3	5250.6	4975.3	4910.4	4857.8
65°	5435.5	5483.8	5515.3	5740.6	6152.7	6537.6	6180.7	5765.2	5482.0	5397.0	5354.9
67.5°	5667.9	5694.2	5771.3	6026.4	6461.3	6900.5	6534.9	6053.6	5737.1	5588.1	5589.8
70°	5327.7	5274.2	5460.1	5868.6	6498.1	7123.2	6582.3	5856.4	5468.9	5226.9	5284.8
72.5°	4117.0	4024.9	4347.6	5046.3	6077.3	6981.2	6119.4	5085.7	4548.3	4057.4	4179.2
75°	2240.0	2135.6	2581.0	3464.7	4846.4	6051.0	4957.7	3563.8	2873.8	2223.3	2368.0
77.5°	632.1	592.6	952.1	1676.3	2915.0	4248.5	3027.2	1713.1	1129.2	669.8	744.3
80°	193.8	187.6	254.2	505.0	1237.9	2034.8	1189.7	511.1	323.5	204.3	215.7
82.5°	114.8	105.2	126.2	184.1	315.6	639.1	306.8	192.0	154.3	103.5	112.2
85°	65.8	61.4	74.5	89.4	106.1	135.9	88.5	91.2	82.4	55.2	57.9
87.5°	27.2	24.5	28.9	28.1	24.5	31.6	23.7	28.1	33.3	21.9	20.2
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)