

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: P940780

Luminaire Tested: **GALN-SB4A-735-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940780
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-735-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18185 lumens
Efficiency: N/A
Efficacy: 159.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

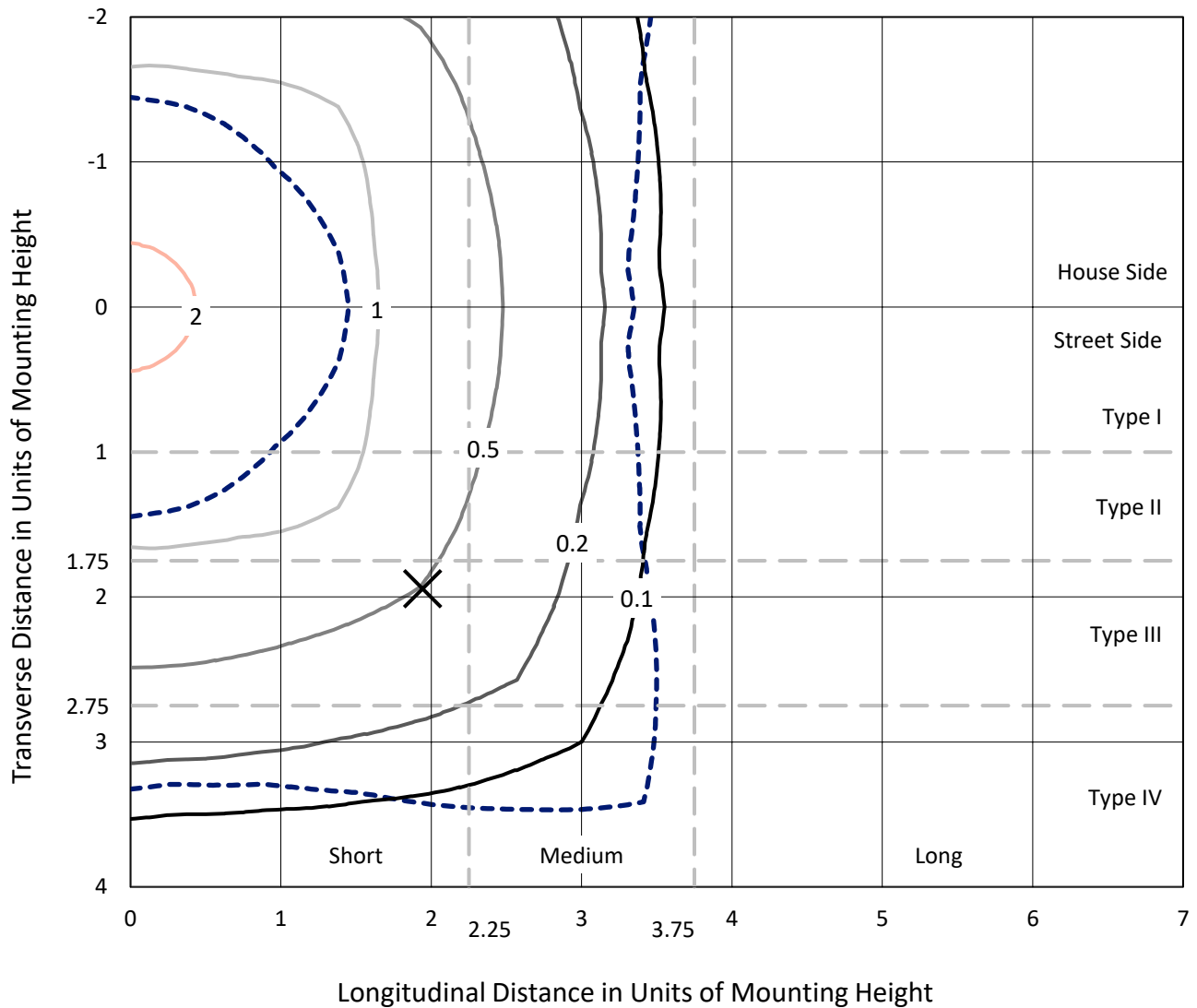
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

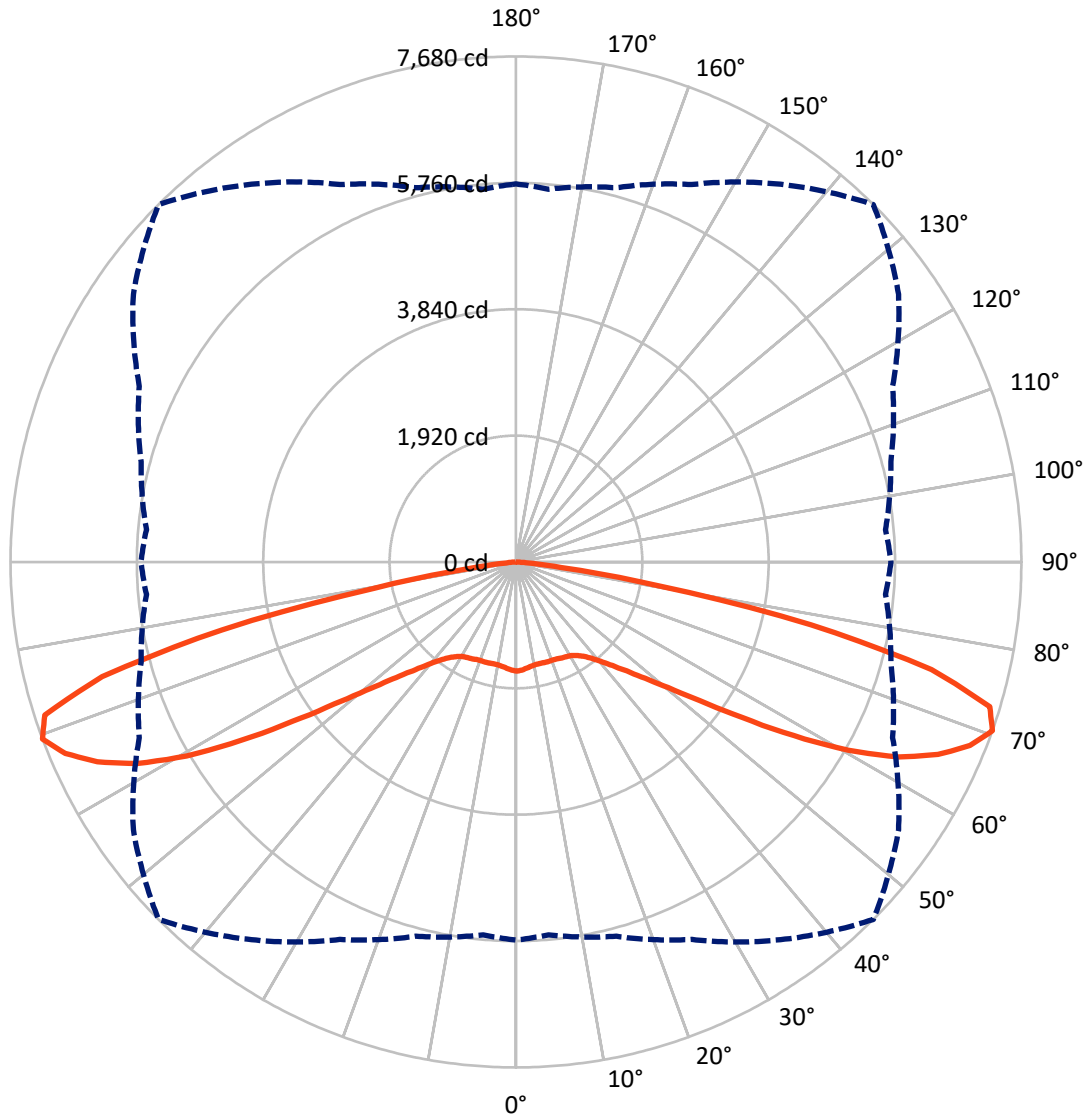
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9092.5	0.0	9092.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9092.5	0.0	9092.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	18185.0	0.0	18185.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.3	0.8
10°-20°	453.1	2.5
20°-30°	754.0	4.1
30°-40°	1140.3	6.3
40°-50°	1894.9	10.4
50°-60°	3575.6	19.7
60°-70°	6037.6	33.2
70°-80°	3967.3	21.8
80°-90°	207.8	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°	18185.0	100.0
0°-180°	18185.0	100.0

Coefficient of Utilization



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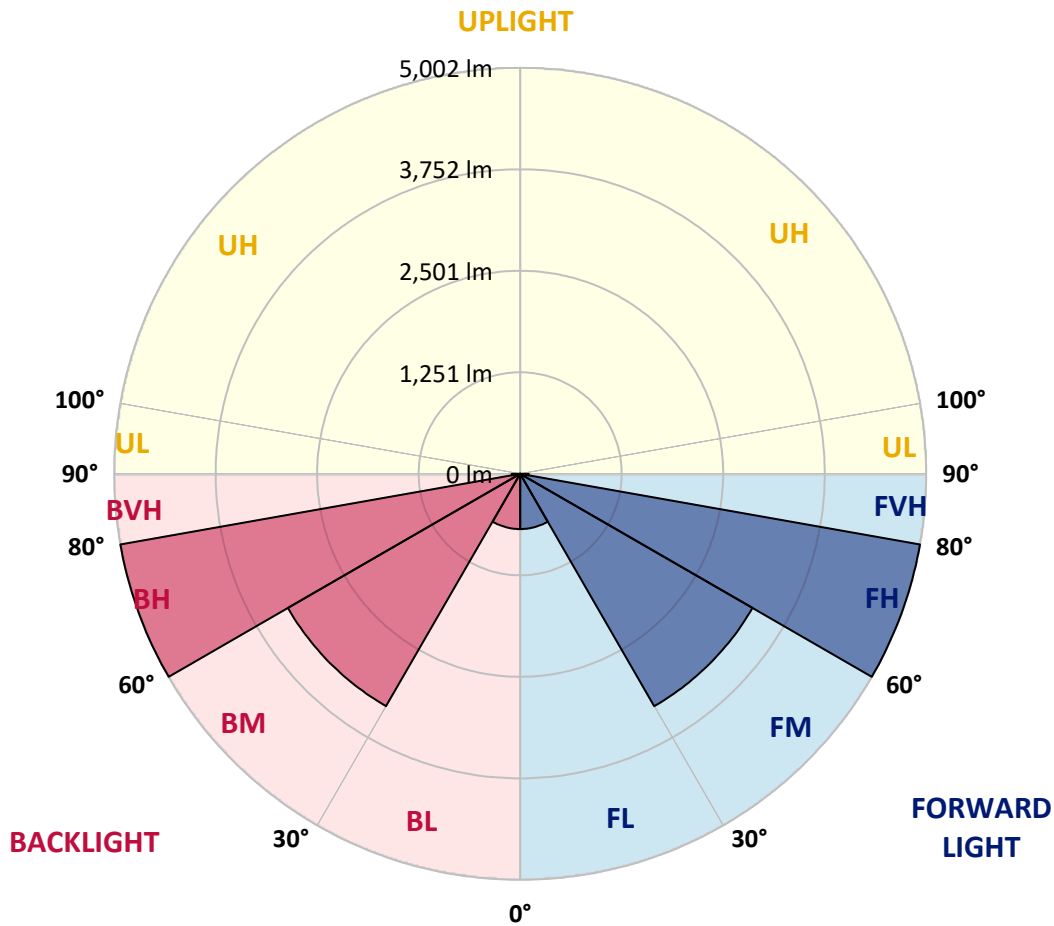
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	680.7	3.7			
FM (30°-60°)	3305.4	18.2			
FH (60°-80°)	5002.4	27.5			G3/7500
FVH (80°-90°)	103.9	0.6			G2/225
BL (0°-30°)	680.7	3.7	B2/1000		
BM (30°-60°)	3305.4	18.2	B3/5000		
BH (60°-80°)	5002.4	27.5	B5		G3/7500
BVH (80°-90°)	103.9	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-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1658.8	1658.8	1658.8	1658.8	1658.8	1658.8	1658.8	1658.8	1658.8	1658.8
2.5°	1648.4	1653.2	1651.3	1647.5	1647.5	1644.7	1647.5	1649.4	1652.2	1654.1
5°	1626.7	1630.5	1629.5	1626.7	1627.6	1624.8	1626.7	1629.5	1631.4	1632.4
7.5°	1607.8	1611.6	1609.7	1605.0	1605.0	1602.1	1603.1	1605.9	1608.7	1609.7
10°	1603.1	1606.9	1601.2	1593.6	1590.8	1587.0	1587.9	1590.8	1596.5	1599.3
12.5°	1605.0	1607.8	1602.1	1590.8	1587.9	1584.2	1584.2	1587.0	1594.6	1598.3
15°	1610.6	1613.5	1605.0	1592.7	1589.8	1587.0	1586.1	1589.8	1598.3	1605.0
17.5°	1621.0	1623.9	1610.6	1593.6	1589.8	1590.8	1589.8	1592.7	1605.9	1618.2
20°	1630.5	1632.4	1614.4	1593.6	1589.8	1590.8	1589.8	1595.5	1612.5	1629.5
22.5°	1633.3	1635.2	1618.2	1600.2	1597.4	1598.3	1597.4	1603.1	1619.1	1636.2
25°	1634.3	1637.1	1623.9	1609.7	1614.4	1616.3	1614.4	1615.4	1627.6	1642.8
27.5°	1648.4	1652.2	1639.9	1627.6	1630.5	1629.5	1632.4	1635.2	1644.7	1659.8
30°	1677.7	1680.6	1670.2	1657.9	1656.0	1649.4	1657.9	1667.3	1677.7	1691.0
32.5°	1725.9	1731.6	1718.4	1705.2	1696.6	1692.9	1699.5	1715.6	1729.7	1743.9
35°	1806.3	1810.1	1797.8	1773.2	1758.1	1758.1	1763.8	1784.6	1807.2	1825.2
37.5°	1919.7	1924.4	1902.7	1873.4	1850.7	1850.7	1858.3	1880.0	1914.0	1939.6
40°	2057.7	2064.3	2036.9	2006.7	1984.9	1981.2	1990.6	2015.2	2047.3	2079.5
42.5°	2224.1	2231.6	2195.7	2169.2	2152.2	2152.2	2157.0	2179.6	2208.9	2248.6
45°	2436.7	2450.0	2400.8	2374.4	2358.3	2362.1	2364.9	2384.8	2411.2	2456.6
47.5°	2690.1	2703.3	2651.3	2623.9	2621.1	2639.0	2627.7	2641.9	2656.0	2708.0
50°	2977.4	3000.1	2964.2	2962.3	2967.9	3001.0	2974.6	2982.1	2966.1	2999.1
52.5°	3329.0	3362.1	3355.5	3366.8	3430.2	3498.2	3437.7	3411.3	3350.8	3361.2
55°	3755.3	3805.4	3814.9	3882.9	4026.6	4165.5	4037.0	3930.2	3801.6	3778.0
57.5°	4240.2	4279.9	4325.3	4464.2	4732.7	4979.4	4732.7	4496.3	4294.1	4245.9
60°	4762.0	4811.1	4854.6	5059.7	5458.6	5805.5	5451.0	5075.8	4808.3	4743.0
62.5°	5322.5	5385.8	5416.0	5643.8	6108.9	6522.9	6115.5	5660.8	5364.0	5294.1
65°	5860.3	5912.3	5946.3	6189.2	6633.5	7048.4	6663.7	6215.7	5910.4	5818.7
67.5°	6110.8	6139.1	6222.3	6497.4	6966.2	7439.7	7045.6	6526.7	6185.4	6024.7
70°	5744.0	5686.4	5886.7	6327.2	7005.9	7679.8	7096.6	6314.0	5896.2	5635.3
72.5°	4438.7	4339.4	4687.3	5440.6	6552.2	7526.7	6597.5	5483.1	4903.7	4374.4
75°	2415.0	2302.5	2782.7	3735.5	5225.1	6523.8	5345.1	3842.3	3098.4	2397.0
77.5°	681.5	639.0	1026.5	1807.2	3142.8	4580.5	3263.8	1846.9	1217.4	722.1
80°	208.9	202.3	274.1	544.4	1334.6	2193.8	1282.6	551.1	348.8	220.2
82.5°	123.8	113.4	136.1	198.5	340.3	689.1	330.8	207.0	166.4	111.5
85°	70.9	66.2	80.3	96.4	114.4	146.5	95.5	98.3	88.8	59.5
87.5°	29.3	26.5	31.2	30.2	26.5	34.0	25.5	30.2	35.9	23.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
1658.8
1653.2
1632.4
1609.7
1599.3
1599.3
1605.9
1618.2
1630.5
1636.2
1641.8
1656.0
1688.1
1738.2
1818.6
1930.1
2069.1
2245.8
2454.7
2692.9
2979.3
3326.2
3741.1
4211.8
4686.3
5237.4
5773.3
6026.6
5697.7
4505.8
2553.0
802.5
232.5
121.0
62.4
21.7
0.0

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