

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: P940790

Luminaire Tested: **GALN-SB4A-740-U-5WQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P940790  
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-740-U-5WQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

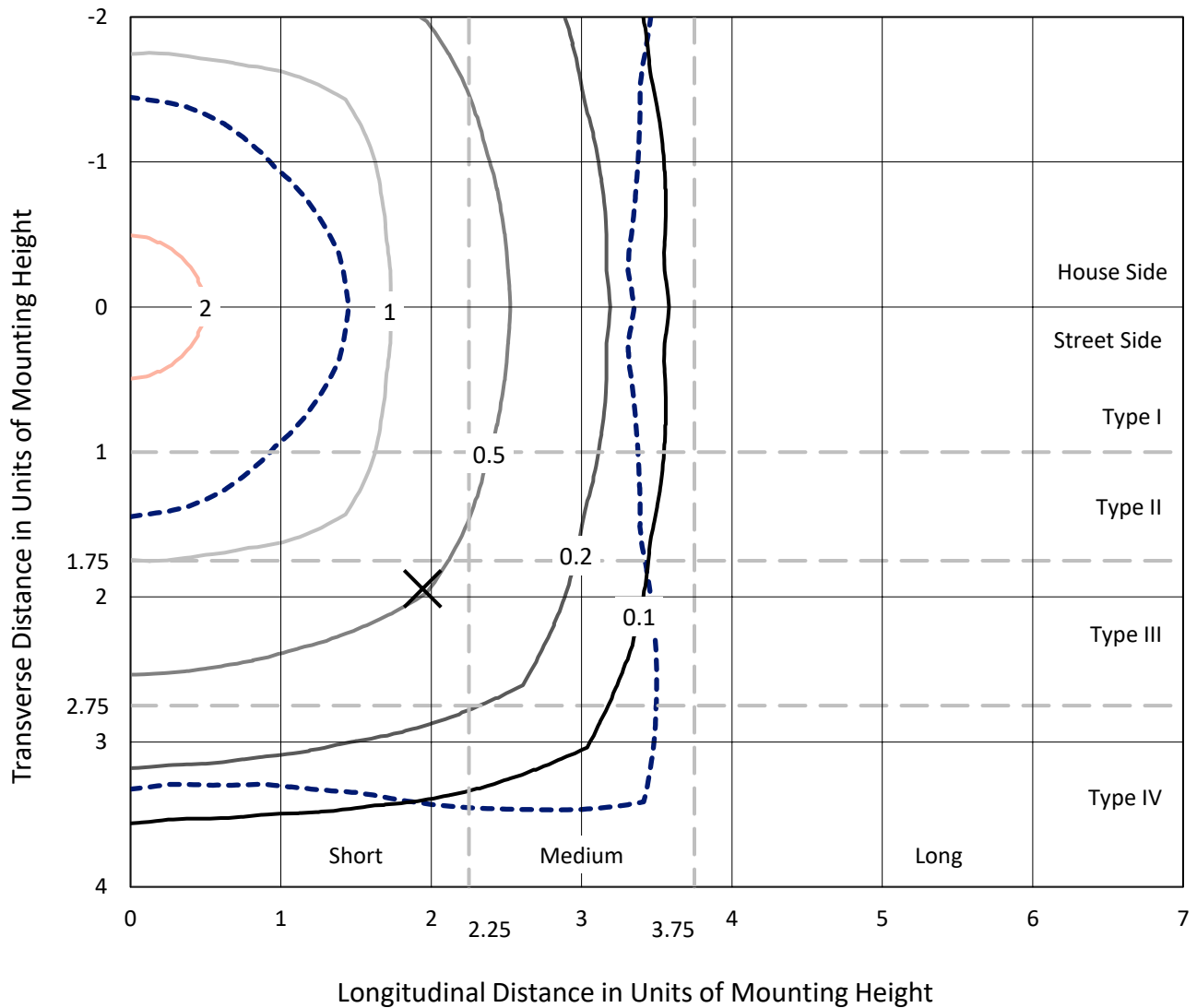
Lumens per Lamp: N/A  
Luminaire Lumens: 19239 lumens  
Efficiency: N/A  
Efficacy: 168.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3  
  
Input Watts (W): 114  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

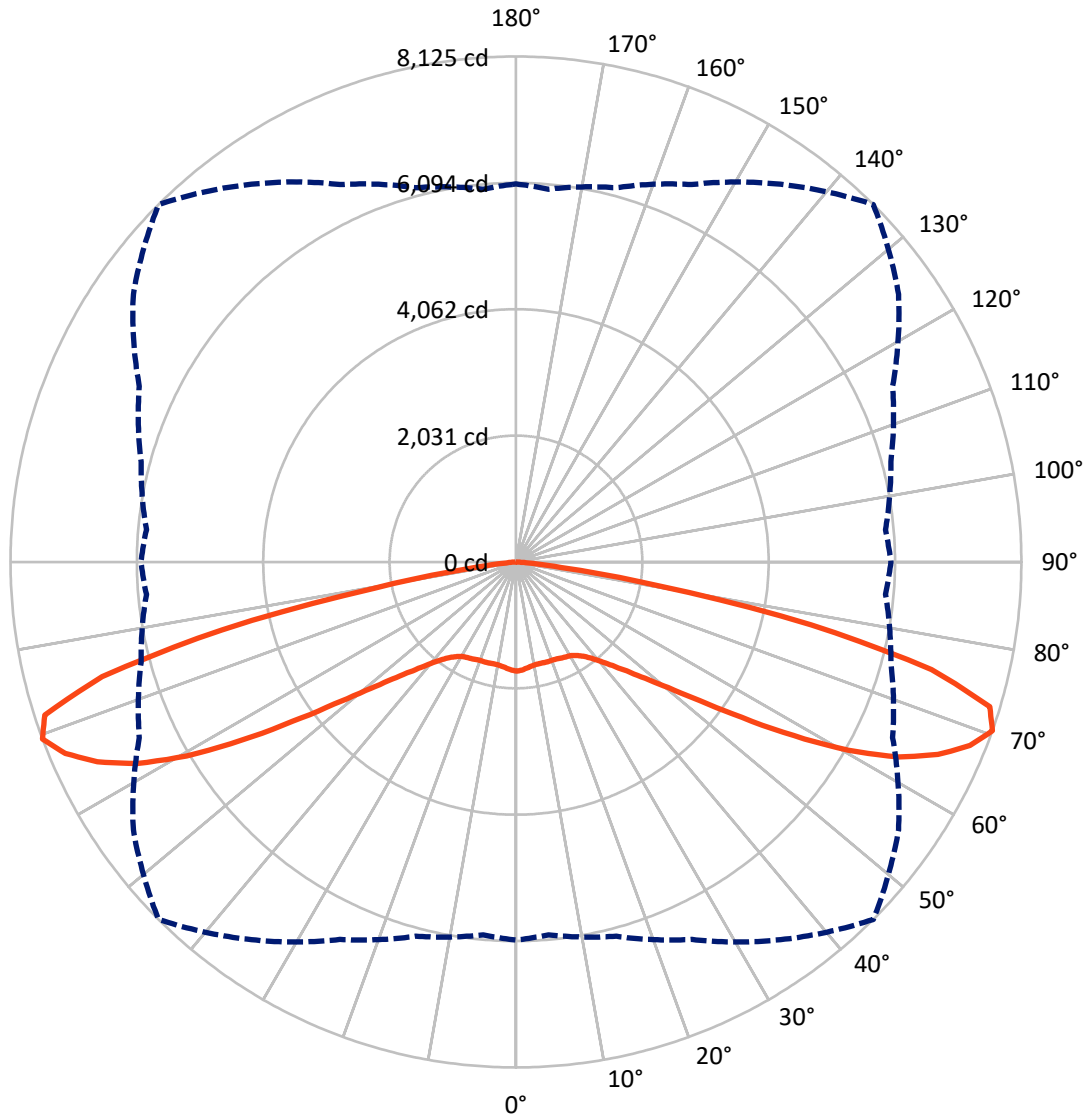
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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
<b>House Side</b>	Lumens	9619.5	0.0	9619.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	9619.5	0.0	9619.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	19239.0	0.0	19239.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	163.3	0.8
10°-20°	479.4	2.5
20°-30°	797.7	4.1
30°-40°	1206.4	6.3
40°-50°	2004.8	10.4
50°-60°	3782.9	19.7
60°-70°	6387.5	33.2
70°-80°	4197.3	21.8
80°-90°	219.9	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°	19239.0	100.0
0°-180°	19239.0	100.0

**Coefficient of Utilization**



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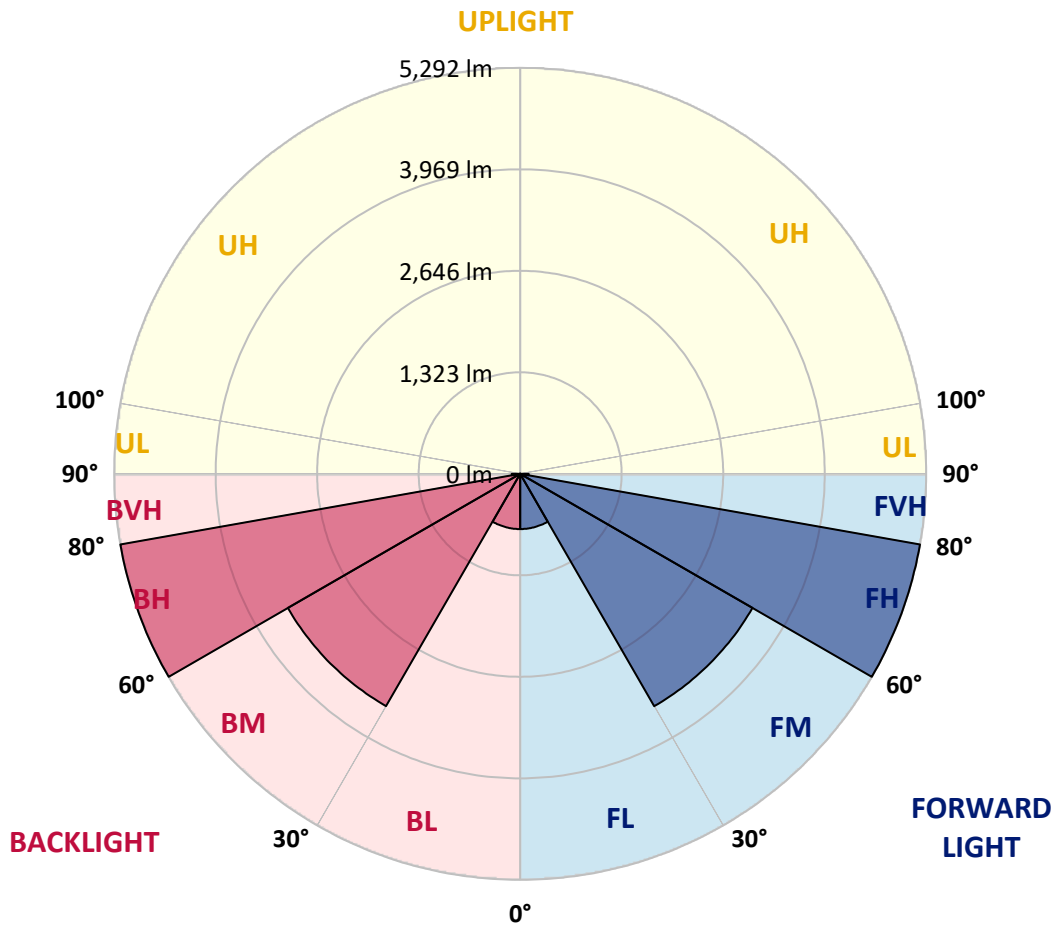
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	720.2	3.7			
FM (30°-60°)	3497.0	18.2			
FH (60°-80°)	5292.4	27.5			G3/7500
FVH (80°-90°)	109.9	0.6			G2/225
BL (0°-30°)	720.2	3.7	B2/1000		
BM (30°-60°)	3497.0	18.2	B3/5000		
BH (60°-80°)	5292.4	27.5	B5		G3/7500
BVH (80°-90°)	109.9	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°	1755.0	1755.0	1755.0	1755.0	1755.0	1755.0	1755.0	1755.0	1755.0	1755.0
2.5°	1744.0	1749.0	1747.0	1743.0	1743.0	1740.0	1743.0	1745.0	1748.0	1750.0
5°	1721.0	1725.0	1724.0	1721.0	1722.0	1719.0	1721.0	1724.0	1726.0	1727.0
7.5°	1701.0	1705.0	1703.0	1698.0	1698.0	1695.0	1696.0	1699.0	1702.0	1703.0
10°	1696.0	1700.0	1694.0	1686.0	1683.0	1679.0	1680.0	1683.0	1689.0	1692.0
12.5°	1698.0	1701.0	1695.0	1683.0	1680.0	1676.0	1676.0	1679.0	1687.0	1691.0
15°	1704.0	1707.0	1698.0	1685.0	1682.0	1679.0	1678.0	1682.0	1691.0	1698.0
17.5°	1715.0	1718.0	1704.0	1686.0	1682.0	1683.0	1682.0	1685.0	1699.0	1712.0
20°	1725.0	1727.0	1708.0	1686.0	1682.0	1683.0	1682.0	1688.0	1706.0	1724.0
22.5°	1728.0	1730.0	1712.0	1693.0	1690.0	1691.0	1690.0	1696.0	1713.0	1731.0
25°	1729.0	1732.0	1718.0	1703.0	1708.0	1710.0	1708.0	1709.0	1722.0	1738.0
27.5°	1744.0	1748.0	1735.0	1722.0	1725.0	1724.0	1727.0	1730.0	1740.0	1756.0
30°	1775.0	1778.0	1767.0	1754.0	1752.0	1745.0	1754.0	1764.0	1775.0	1789.0
32.5°	1826.0	1832.0	1818.0	1804.0	1795.0	1791.0	1798.0	1815.0	1830.0	1845.0
35°	1911.0	1915.0	1902.0	1876.0	1860.0	1860.0	1866.0	1888.0	1912.0	1931.0
37.5°	2031.0	2036.0	2013.0	1982.0	1958.0	1958.0	1966.0	1989.0	2025.0	2052.0
40°	2177.0	2184.0	2155.0	2123.0	2100.0	2096.0	2106.0	2132.0	2166.0	2200.0
42.5°	2353.0	2361.0	2323.0	2295.0	2277.0	2277.0	2282.0	2306.0	2337.0	2379.0
45°	2578.0	2592.0	2540.0	2512.0	2495.0	2499.0	2502.0	2523.0	2551.0	2599.0
47.5°	2846.0	2860.0	2805.0	2776.0	2773.0	2792.0	2780.0	2795.0	2810.0	2865.0
50°	3150.0	3174.0	3136.0	3134.0	3140.0	3175.0	3147.0	3155.0	3138.0	3173.0
52.5°	3522.0	3557.0	3550.0	3562.0	3629.0	3701.0	3637.0	3609.0	3545.0	3556.0
55°	3973.0	4026.0	4036.0	4108.0	4260.0	4407.0	4271.0	4158.0	4022.0	3997.0
57.5°	4486.0	4528.0	4576.0	4723.0	5007.0	5268.0	5007.0	4757.0	4543.0	4492.0
60°	5038.0	5090.0	5136.0	5353.0	5774.9	6141.9	5766.9	5370.0	5087.0	5018.0
62.5°	5630.9	5697.9	5729.9	5970.9	6462.9	6900.9	6469.9	5988.9	5674.9	5600.9
65°	6199.9	6254.9	6290.9	6547.9	7017.9	7456.9	7049.9	6575.9	6252.9	6155.9
67.5°	6464.9	6494.9	6582.9	6873.9	7369.9	7870.9	7453.9	6904.9	6543.9	6373.9
70°	6076.9	6015.9	6227.9	6693.9	7411.9	8124.9	7507.9	6679.9	6237.9	5961.9
72.5°	4696.0	4591.0	4959.0	5755.9	6931.9	7962.9	6979.9	5800.9	5188.0	4628.0
75°	2555.0	2436.0	2944.0	3952.0	5528.0	6901.9	5654.9	4065.0	3278.0	2536.0
77.5°	721.0	676.0	1086.0	1912.0	3325.0	4846.0	3453.0	1954.0	1288.0	764.0
80°	221.0	214.0	290.0	576.0	1412.0	2321.0	1357.0	583.0	369.0	233.0
82.5°	131.0	120.0	144.0	210.0	360.0	729.0	350.0	219.0	176.0	118.0
85°	75.0	70.0	85.0	102.0	121.0	155.0	101.0	104.0	94.0	63.0
87.5°	31.0	28.0	33.0	32.0	28.0	36.0	27.0	32.0	38.0	25.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
1755.0
1749.0
1727.0
1703.0
1692.0
1692.0
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1712.0
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1731.0
1737.0
1752.0
1786.0
1839.0
1924.0
2042.0
2189.0
2376.0
2597.0
2849.0
3152.0
3519.0
3958.0
4456.0
4958.0
5540.9
6107.9
6375.9
6027.9
4767.0
2701.0
849.0
246.0
128.0
66.0
23.0
0.0

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