

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: P940990

Luminaire Tested: **GALN-SB4B-827-U-5WQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P940990  
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-SB4B-827-U-5WQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

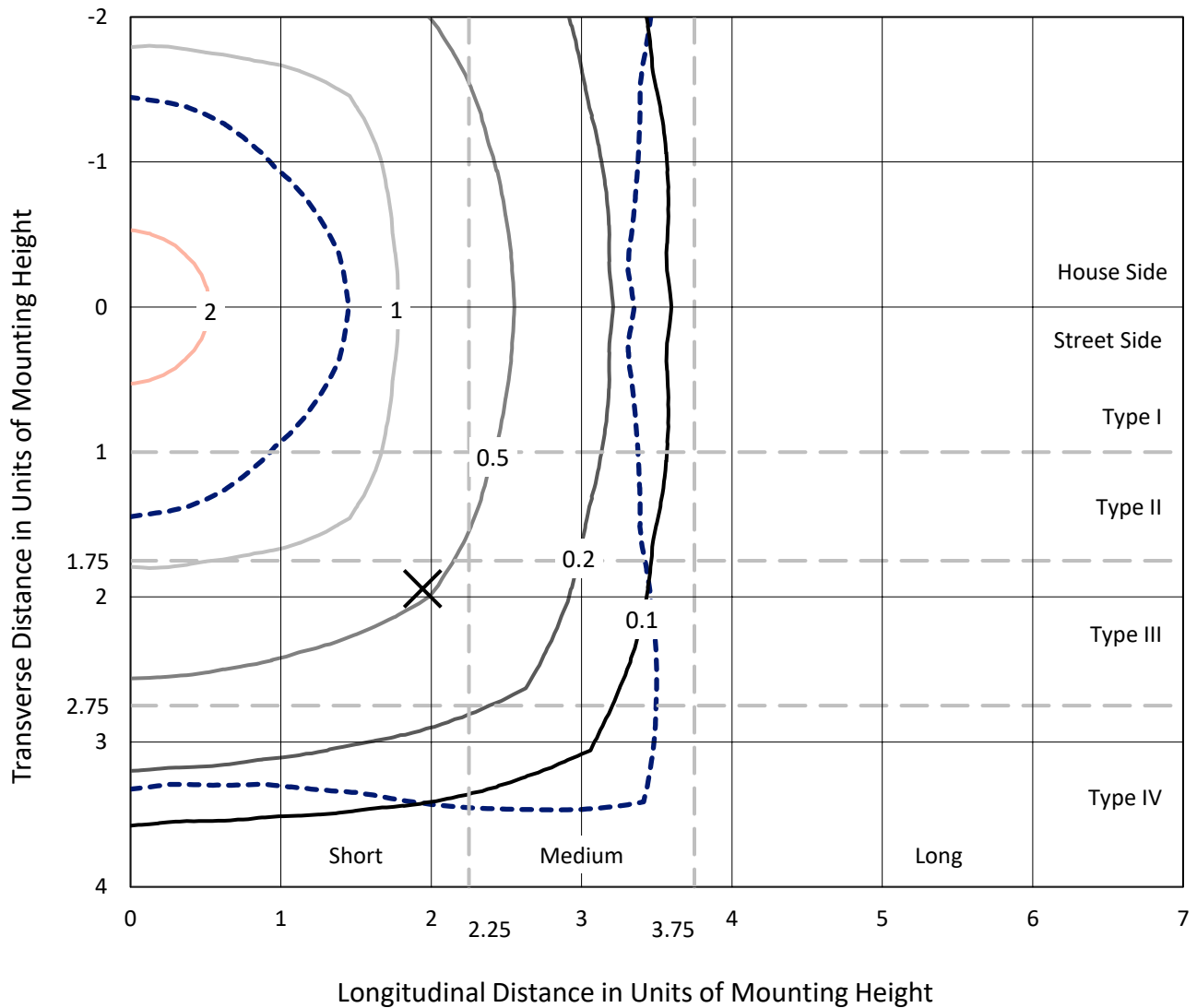
Lumens per Lamp: N/A  
Luminaire Lumens: 19850 lumens  
Efficiency: N/A  
Efficacy: 135.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3  
  
Input Watts (W): 147  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

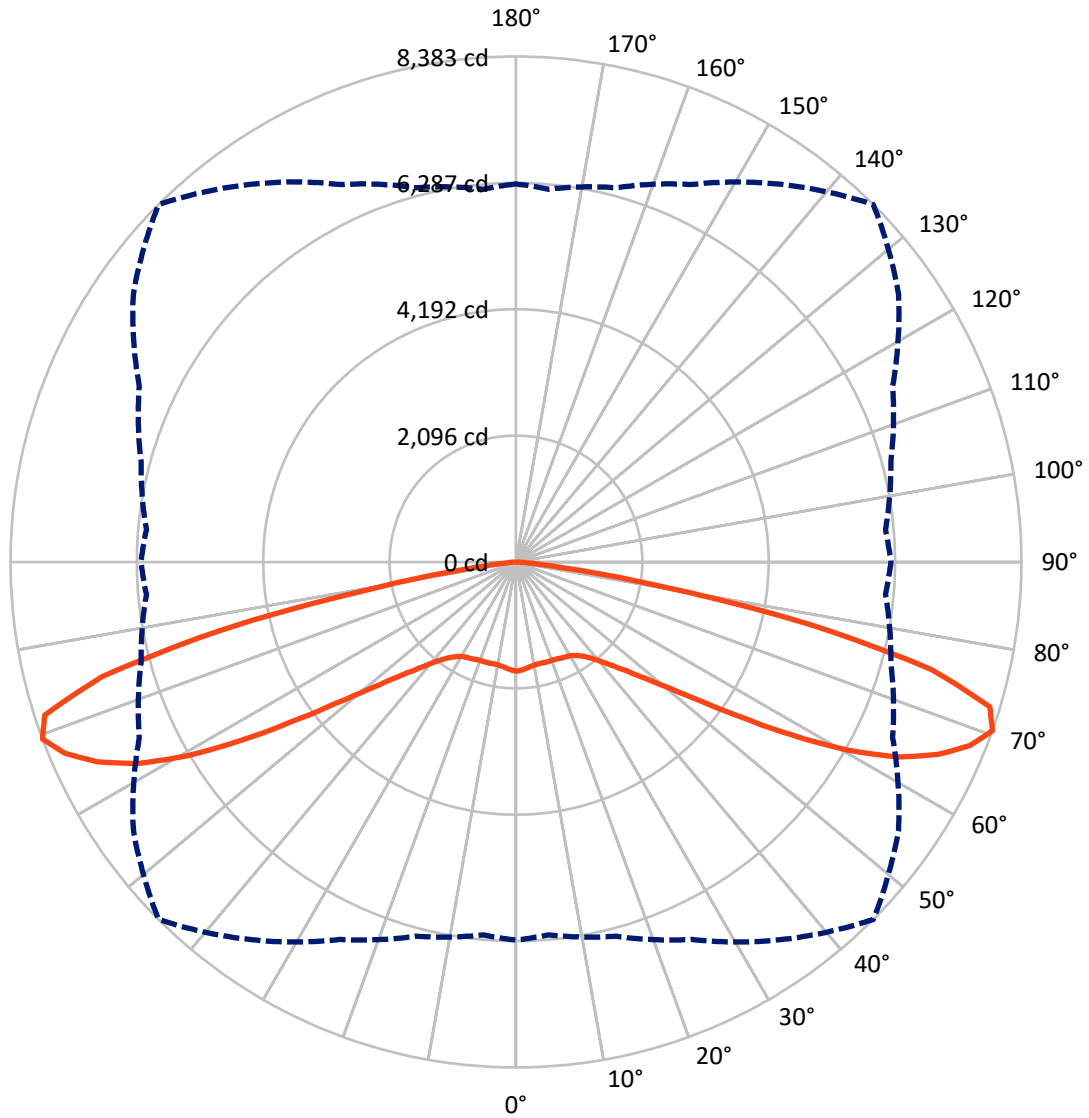
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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	9925.0	0.0	9925.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	9925.0	0.0	9925.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	19850.0	0.0	19850.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	168.4	0.8
10°-20°	494.6	2.5
20°-30°	823.1	4.1
30°-40°	1244.7	6.3
40°-50°	2068.4	10.4
50°-60°	3903.0	19.7
60°-70°	6590.4	33.2
70°-80°	4330.6	21.8
80°-90°	226.9	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°	19850.0	100.0
0°-180°	19850.0	100.0



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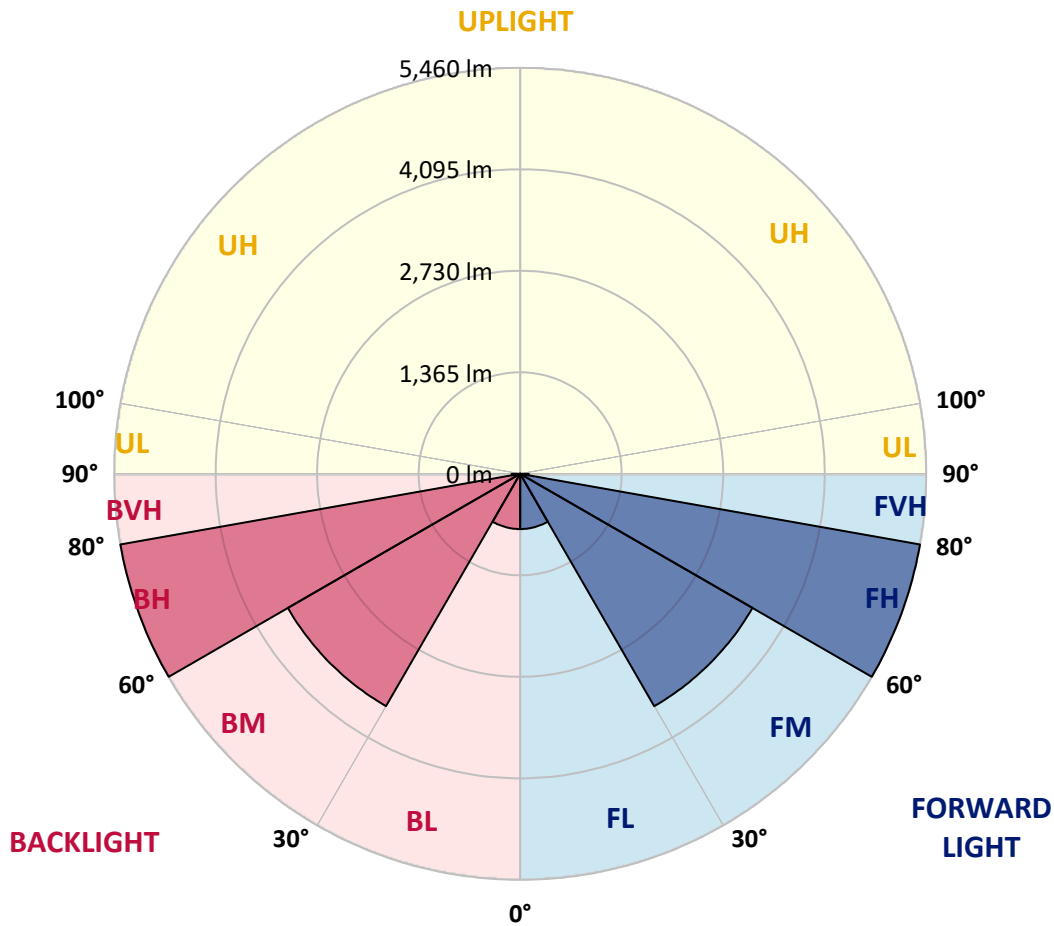
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	743.0	3.7			
FM (30°-60°)	3608.1	18.2			
FH (60°-80°)	5460.5	27.5			G3/7500
FVH (80°-90°)	113.4	0.6			G2/225
BL (0°-30°)	743.0	3.7	B2/1000		
BM (30°-60°)	3608.1	18.2	B3/5000		
BH (60°-80°)	5460.5	27.5	B5		G3/7500
BVH (80°-90°)	113.4	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°	1810.7	1810.7	1810.7	1810.7	1810.7	1810.7	1810.7	1810.7	1810.7	1810.7
2.5°	1799.4	1804.5	1802.5	1798.3	1798.3	1795.2	1798.3	1800.4	1803.5	1805.6
5°	1775.6	1779.8	1778.7	1775.6	1776.7	1773.6	1775.6	1778.7	1780.8	1781.8
7.5°	1755.0	1759.1	1757.1	1751.9	1751.9	1748.8	1749.8	1752.9	1756.0	1757.1
10°	1749.8	1754.0	1747.8	1739.5	1736.4	1732.3	1733.3	1736.4	1742.6	1745.7
12.5°	1751.9	1755.0	1748.8	1736.4	1733.3	1729.2	1729.2	1732.3	1740.6	1744.7
15°	1758.1	1761.2	1751.9	1738.5	1735.4	1732.3	1731.3	1735.4	1744.7	1751.9
17.5°	1769.4	1772.5	1758.1	1739.5	1735.4	1736.4	1735.4	1738.5	1752.9	1766.4
20°	1779.8	1781.8	1762.2	1739.5	1735.4	1736.4	1735.4	1741.6	1760.2	1778.7
22.5°	1782.9	1784.9	1766.4	1746.8	1743.7	1744.7	1743.7	1749.8	1767.4	1786.0
25°	1783.9	1787.0	1772.5	1757.1	1762.2	1764.3	1762.2	1763.3	1776.7	1793.2
27.5°	1799.4	1803.5	1790.1	1776.7	1779.8	1778.7	1781.8	1784.9	1795.2	1811.8
30°	1831.4	1834.4	1823.1	1809.7	1807.6	1800.4	1809.7	1820.0	1831.4	1845.8
32.5°	1884.0	1890.2	1875.7	1861.3	1852.0	1847.9	1855.1	1872.6	1888.1	1903.6
35°	1971.7	1975.8	1962.4	1935.6	1919.1	1919.1	1925.2	1947.9	1972.7	1992.3
37.5°	2095.5	2100.6	2076.9	2044.9	2020.2	2020.2	2028.4	2052.1	2089.3	2117.1
40°	2246.1	2253.3	2223.4	2190.4	2166.7	2162.5	2172.9	2199.7	2234.8	2269.8
42.5°	2427.7	2436.0	2396.8	2367.9	2349.3	2349.3	2354.5	2379.2	2411.2	2454.5
45°	2659.8	2674.3	2620.6	2591.8	2574.2	2578.3	2581.4	2603.1	2632.0	2681.5
47.5°	2936.4	2950.8	2894.1	2864.1	2861.0	2880.6	2868.3	2883.7	2899.2	2956.0
50°	3250.0	3274.8	3235.6	3233.5	3239.7	3275.8	3246.9	3255.2	3237.6	3273.7
52.5°	3633.8	3669.9	3662.7	3675.1	3744.2	3818.5	3752.5	3723.6	3657.6	3668.9
55°	4099.1	4153.8	4164.1	4238.4	4395.3	4546.9	4406.6	4290.0	4149.7	4123.9
57.5°	4628.4	4671.8	4721.3	4873.0	5166.0	5435.3	5166.0	4908.0	4687.2	4634.6
60°	5198.0	5251.6	5299.1	5523.0	5958.4	6337.0	5950.1	5540.5	5248.5	5177.3
62.5°	5809.8	5878.9	5911.9	6160.6	6668.2	7120.1	6675.4	6179.1	5855.2	5778.8
65°	6396.8	6453.6	6490.7	6755.9	7240.8	7693.8	7273.8	6784.8	6451.5	6351.4
67.5°	6670.3	6701.2	6792.0	7092.2	7604.0	8120.9	7690.7	7124.2	6751.8	6576.4
70°	6269.9	6207.0	6425.7	6906.5	7647.3	8383.0	7746.4	6892.1	6436.1	6151.3
72.5°	4845.1	4736.8	5116.4	5938.7	7152.1	8215.8	7201.6	5985.2	5352.7	4774.9
75°	2636.1	2513.3	3037.5	4077.5	5703.5	7121.1	5834.5	4194.1	3382.1	2616.5
77.5°	743.9	697.5	1120.5	1972.7	3430.6	4999.9	3562.6	2016.0	1328.9	788.3
80°	228.0	220.8	299.2	594.3	1456.8	2394.7	1400.1	601.5	380.7	240.4
82.5°	135.2	123.8	148.6	216.7	371.4	752.1	361.1	226.0	181.6	121.7
85°	77.4	72.2	87.7	105.2	124.8	159.9	104.2	107.3	97.0	65.0
87.5°	32.0	28.9	34.0	33.0	28.9	37.1	27.9	33.0	39.2	25.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
1810.7
1804.5
1781.8
1757.1
1745.7
1745.7
1752.9
1766.4
1779.8
1786.0
1792.1
1807.6
1842.7
1897.4
1985.1
2106.8
2258.5
2451.4
2679.5
2939.5
3252.1
3630.7
4083.7
4597.5
5115.4
5716.9
6301.9
6578.4
6219.4
4918.3
2786.8
876.0
253.8
132.1
68.1
23.7
0.0

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