

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: P939930

Luminaire Tested: **GALN-SB2D-735-U-5WQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939930  
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-SB2D-735-U-5WQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

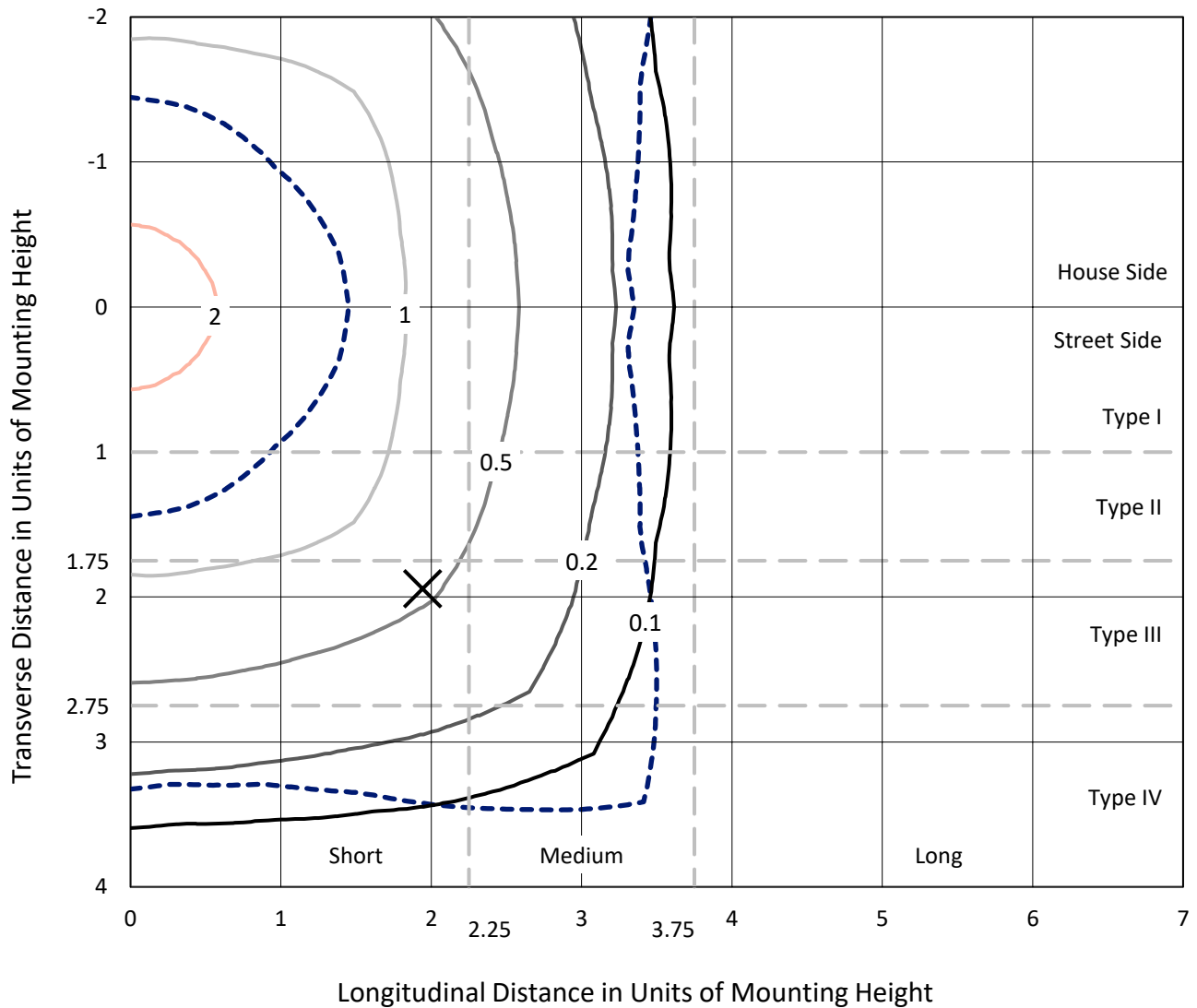
Lumens per Lamp: N/A  
Luminaire Lumens: 20584 lumens  
Efficiency: N/A  
Efficacy: 139.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3  
  
Input Watts (W): 147.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

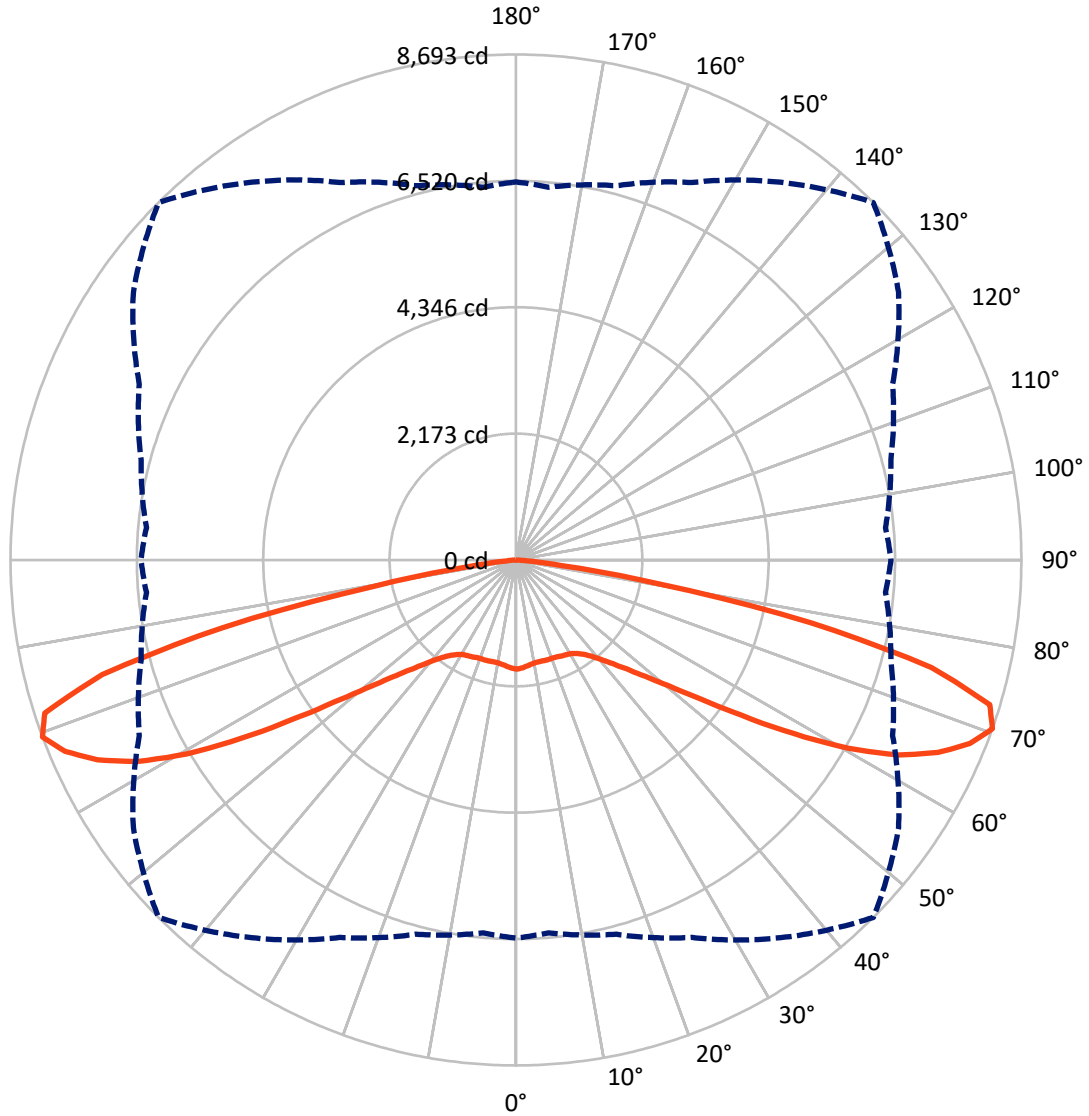
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 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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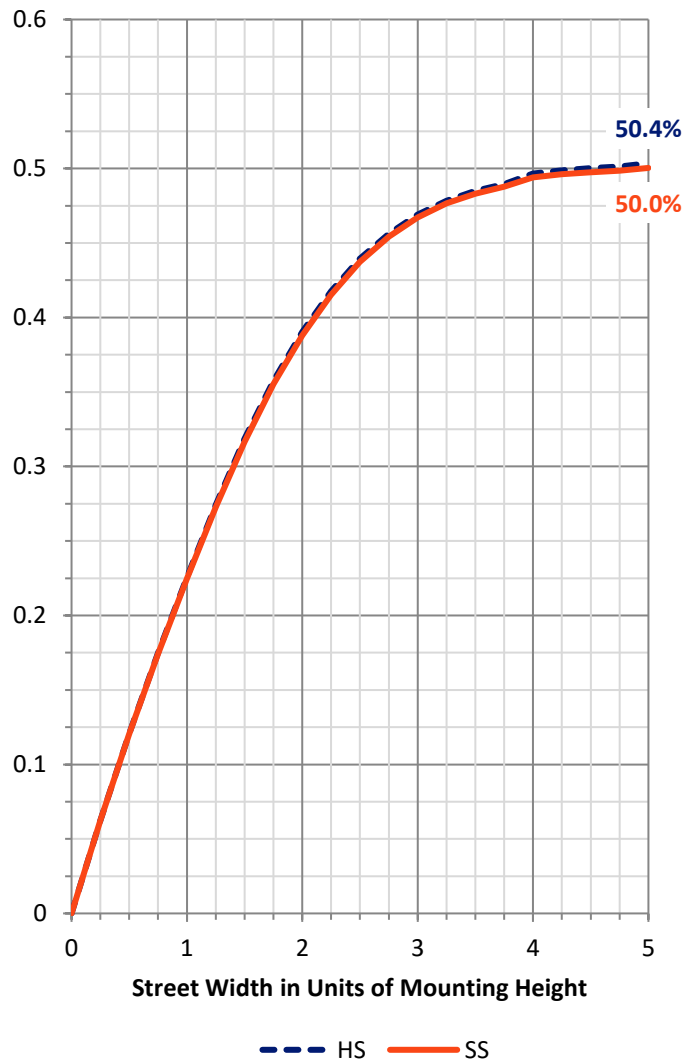
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10292.0	0.0	10292.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	10292.0	0.0	10292.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	20584.0	0.0	20584.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	174.7	0.8
10°-20°	512.9	2.5
20°-30°	853.5	4.1
30°-40°	1290.7	6.3
40°-50°	2144.9	10.4
50°-60°	4047.3	19.7
60°-70°	6834.1	33.2
70°-80°	4490.7	21.8
80°-90°	235.3	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°	20584.0	100.0
0°-180°	20584.0	100.0



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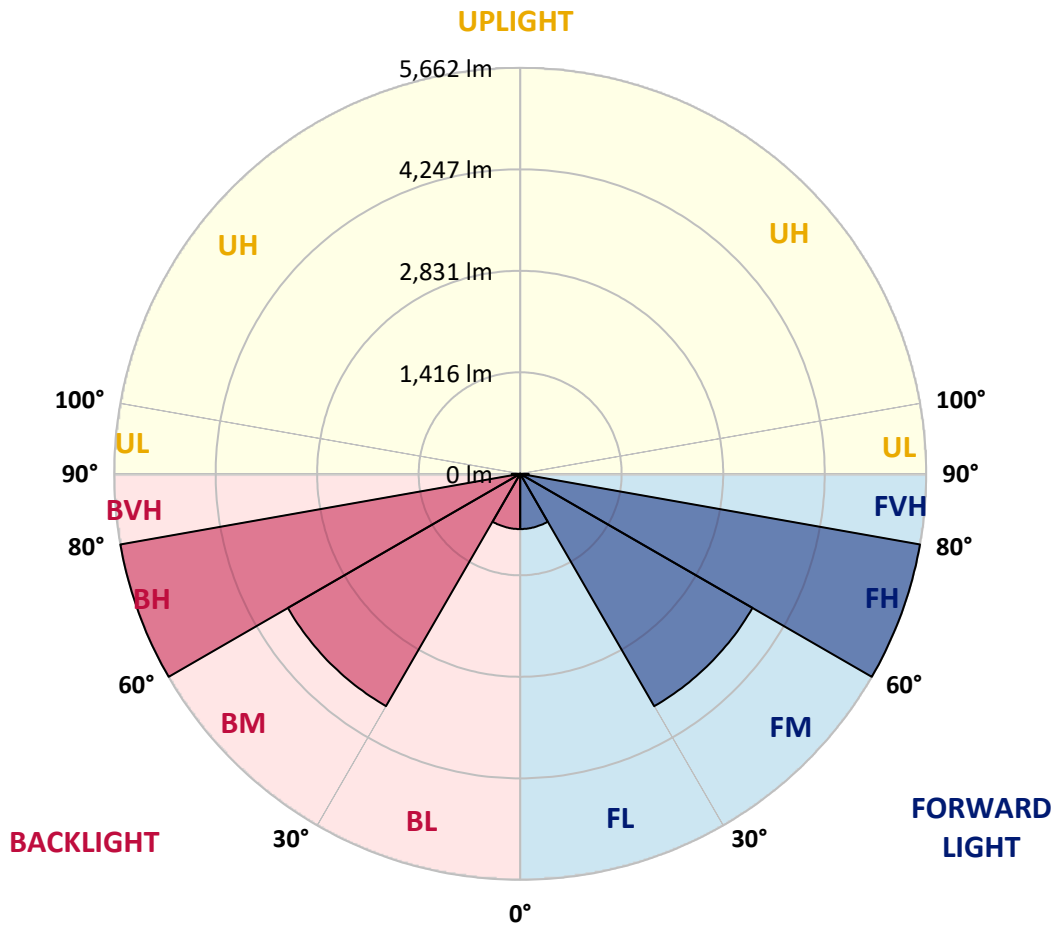
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	770.5	3.7			
FM (30°-60°)	3741.5	18.2			
FH (60°-80°)	5662.4	27.5			G3/7500
FVH (80°-90°)	117.6	0.6			G2/225
BL (0°-30°)	770.5	3.7	B2/1000		
BM (30°-60°)	3741.5	18.2	B3/5000		
BH (60°-80°)	5662.4	27.5	B5		G3/7500
BVH (80°-90°)	117.6	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°	1877.7	1877.7	1877.7	1877.7	1877.7	1877.7	1877.7	1877.7	1877.7	1877.7
2.5°	1865.9	1871.3	1869.1	1864.8	1864.8	1861.6	1864.8	1867.0	1870.2	1872.3
5°	1841.3	1845.6	1844.5	1841.3	1842.4	1839.2	1841.3	1844.5	1846.6	1847.7
7.5°	1819.9	1824.2	1822.0	1816.7	1816.7	1813.5	1814.6	1817.8	1821.0	1822.0
10°	1814.6	1818.8	1812.4	1803.9	1800.6	1796.4	1797.4	1800.6	1807.1	1810.3
12.5°	1816.7	1819.9	1813.5	1800.6	1797.4	1793.2	1793.2	1796.4	1804.9	1809.2
15°	1823.1	1826.3	1816.7	1802.8	1799.6	1796.4	1795.3	1799.6	1809.2	1816.7
17.5°	1834.9	1838.1	1823.1	1803.9	1799.6	1800.6	1799.6	1802.8	1817.8	1831.7
20°	1845.6	1847.7	1827.4	1803.9	1799.6	1800.6	1799.6	1806.0	1825.3	1844.5
22.5°	1848.8	1850.9	1831.7	1811.3	1808.1	1809.2	1808.1	1814.6	1832.7	1852.0
25°	1849.9	1853.1	1838.1	1822.0	1827.4	1829.5	1827.4	1828.5	1842.4	1859.5
27.5°	1865.9	1870.2	1856.3	1842.4	1845.6	1844.5	1847.7	1850.9	1861.6	1878.7
30°	1899.1	1902.3	1890.5	1876.6	1874.5	1867.0	1876.6	1887.3	1899.1	1914.1
32.5°	1953.6	1960.1	1945.1	1930.1	1920.5	1916.2	1923.7	1941.9	1957.9	1974.0
35°	2044.6	2048.9	2035.0	2007.1	1990.0	1990.0	1996.4	2020.0	2045.6	2066.0
37.5°	2173.0	2178.3	2153.7	2120.5	2094.9	2094.9	2103.4	2128.0	2166.5	2195.4
40°	2329.2	2336.7	2305.6	2271.4	2246.8	2242.5	2253.2	2281.0	2317.4	2353.8
42.5°	2517.5	2526.0	2485.4	2455.4	2436.2	2436.2	2441.5	2467.2	2500.4	2545.3
45°	2758.2	2773.2	2717.5	2687.6	2669.4	2673.7	2676.9	2699.4	2729.3	2780.7
47.5°	3044.9	3059.9	3001.1	2970.0	2966.8	2987.2	2974.3	2990.4	3006.4	3065.3
50°	3370.2	3395.9	3355.2	3353.1	3359.5	3396.9	3367.0	3375.5	3357.3	3394.8
52.5°	3768.2	3805.6	3798.1	3811.0	3882.7	3959.7	3891.2	3861.3	3792.8	3804.6
55°	4250.7	4307.4	4318.1	4395.2	4557.8	4715.1	4569.5	4448.6	4303.1	4276.4
57.5°	4799.6	4844.5	4895.9	5053.1	5357.0	5636.2	5357.0	5089.5	4860.6	4806.0
60°	5390.2	5445.8	5495.0	5727.2	6178.7	6571.3	6170.1	5745.4	5442.6	5368.8
62.5°	6024.6	6096.3	6130.5	6388.4	6914.8	7383.4	6922.3	6407.6	6071.7	5992.5
65°	6633.4	6692.2	6730.7	7005.7	7508.6	7978.2	7542.8	7035.7	6690.1	6586.3
67.5°	6916.9	6949.0	7043.2	7354.5	7885.2	8421.2	7975.0	7387.7	7001.4	6819.5
70°	6501.8	6436.5	6663.3	7161.9	7930.1	8692.9	8032.8	7146.9	6674.0	6378.7
72.5°	5024.3	4911.9	5305.6	6158.3	7416.5	8519.6	7467.9	6206.5	5550.6	4951.5
75°	2733.6	2606.3	3149.8	4228.2	5914.4	7384.5	6050.3	4349.1	3507.1	2713.3
77.5°	771.4	723.3	1161.9	2045.6	3557.4	5184.7	3694.4	2090.6	1378.0	817.4
80°	236.4	229.0	310.3	616.3	1510.7	2483.2	1451.9	623.8	394.8	249.3
82.5°	140.2	128.4	154.1	224.7	385.2	780.0	374.5	234.3	188.3	126.2
85°	80.2	74.9	90.9	109.1	129.5	165.8	108.1	111.3	100.6	67.4
87.5°	33.2	30.0	35.3	34.2	30.0	38.5	28.9	34.2	40.7	26.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

<u>90°</u>
1877.7
1871.3
1847.7
1822.0
1810.3
1810.3
1817.8
1831.7
1845.6
1852.0
1858.4
1874.5
1910.8
1967.5
2058.5
2184.7
2342.0
2542.1
2778.5
3048.1
3372.3
3765.0
4234.7
4767.5
5304.6
5928.3
6535.0
6821.7
6449.4
5100.2
2889.8
908.3
263.2
136.9
70.6
24.6
0.0

OF REPORT)