

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: P941750

Luminaire Tested: **GALN-SB5B-940-U-5WQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941750  
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-SB5B-940-U-5WQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

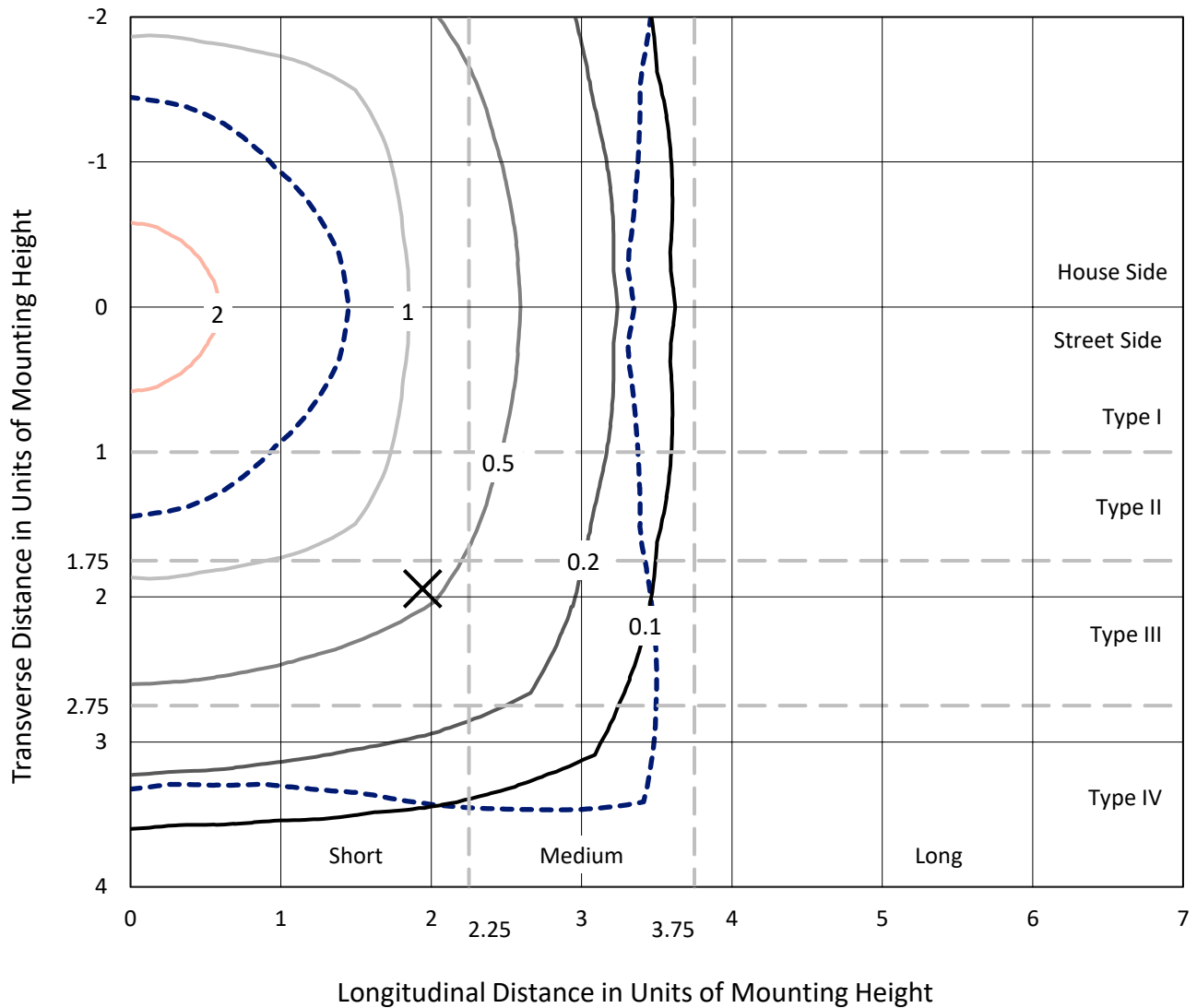
Lumens per Lamp: N/A  
Luminaire Lumens: 20849 lumens  
Efficiency: N/A  
Efficacy: 114.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3  
  
Input Watts (W): 182.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

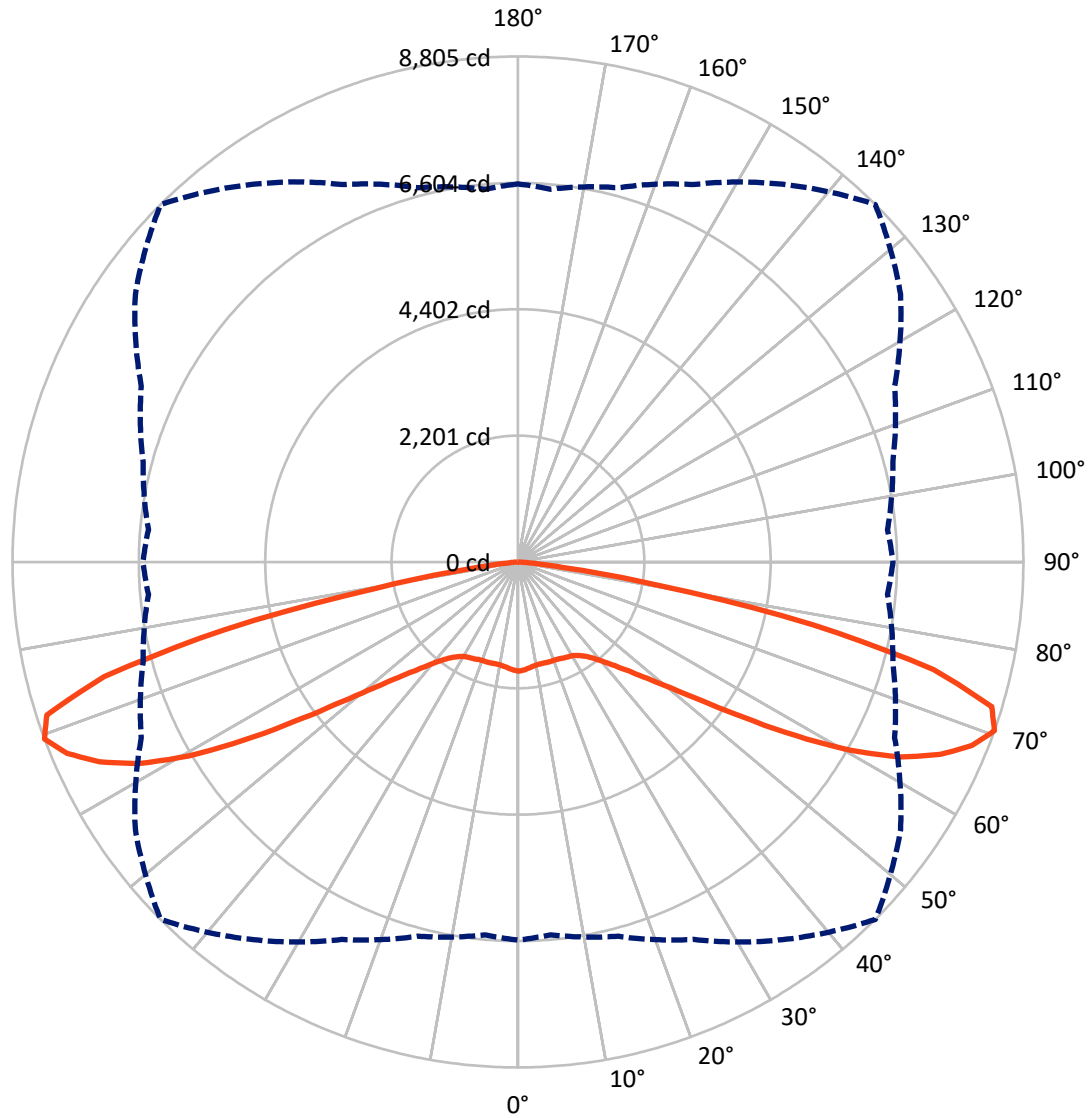
✕ Max cd  
 - - - 1/2 Max cd



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	10424.5	0.0	10424.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	10424.5	0.0	10424.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	20849.0	0.0	20849.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	176.9	0.8
10°-20°	519.5	2.5
20°-30°	864.5	4.1
30°-40°	1307.3	6.3
40°-50°	2172.5	10.4
50°-60°	4099.4	19.7
60°-70°	6922.1	33.2
70°-80°	4548.5	21.8
80°-90°	238.3	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°	20849.0	100.0
0°-180°	20849.0	100.0

**Coefficient of Utilization**



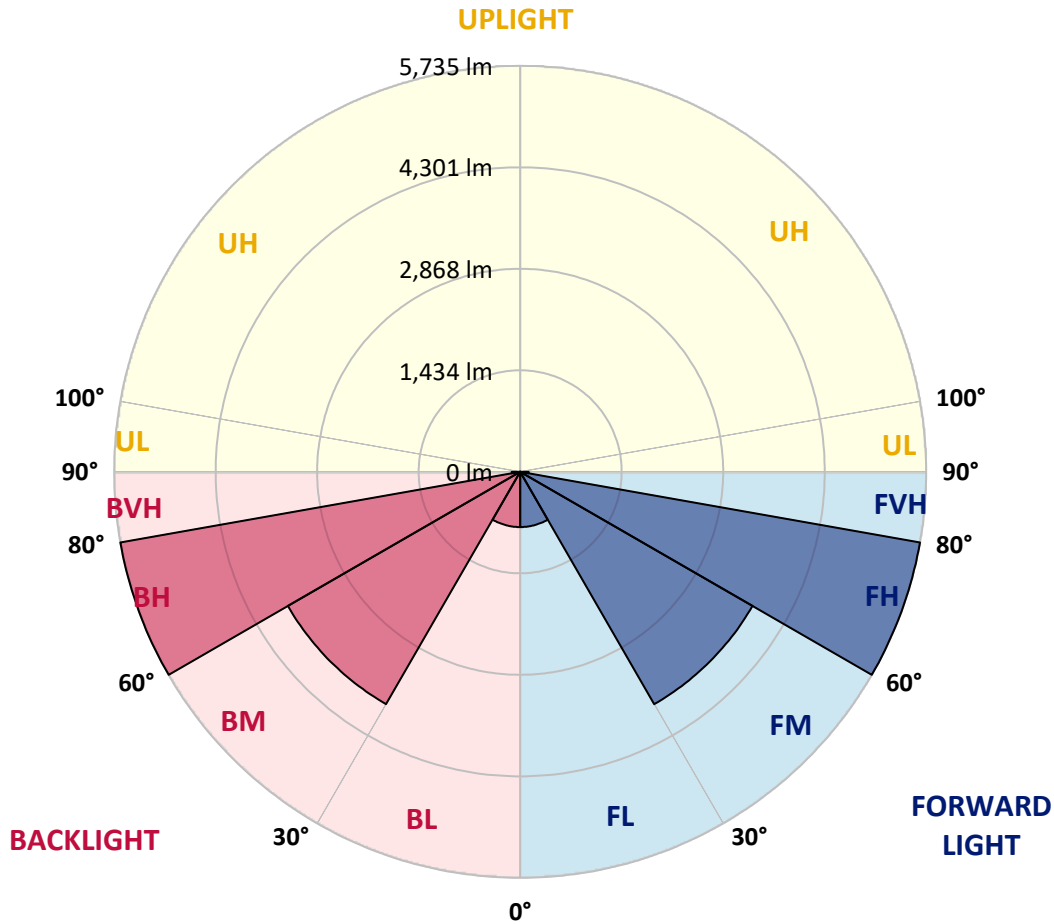
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	780.4	3.7			
FM (30°-60°)	3789.6	18.2			
FH (60°-80°)	5735.3	27.5			G3/7500
FVH (80°-90°)	119.1	0.6			G2/225
BL (0°-30°)	780.4	3.7	B2/1000		
BM (30°-60°)	3789.6	18.2	B3/5000		
BH (60°-80°)	5735.3	27.5	B5		G3/7500
BVH (80°-90°)	119.1	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°	1901.8	1901.8	1901.8	1901.8	1901.8	1901.8	1901.8	1901.8	1901.8	1901.8
2.5°	1889.9	1895.3	1893.2	1888.8	1888.8	1885.6	1888.8	1891.0	1894.3	1896.4
5°	1865.0	1869.3	1868.3	1865.0	1866.1	1862.8	1865.0	1868.3	1870.4	1871.5
7.5°	1843.3	1847.7	1845.5	1840.1	1840.1	1836.8	1837.9	1841.2	1844.4	1845.5
10°	1837.9	1842.2	1835.7	1827.1	1823.8	1819.5	1820.6	1823.8	1830.3	1833.6
12.5°	1840.1	1843.3	1836.8	1823.8	1820.6	1816.2	1816.2	1819.5	1828.2	1832.5
15°	1846.6	1849.8	1840.1	1826.0	1822.7	1819.5	1818.4	1822.7	1832.5	1840.1
17.5°	1858.5	1861.8	1846.6	1827.1	1822.7	1823.8	1822.7	1826.0	1841.2	1855.3
20°	1869.3	1871.5	1850.9	1827.1	1822.7	1823.8	1822.7	1829.2	1848.7	1868.3
22.5°	1872.6	1874.8	1855.3	1834.7	1831.4	1832.5	1831.4	1837.9	1856.3	1875.8
25°	1873.7	1876.9	1861.8	1845.5	1850.9	1853.1	1850.9	1852.0	1866.1	1883.4
27.5°	1889.9	1894.3	1880.2	1866.1	1869.3	1868.3	1871.5	1874.8	1885.6	1902.9
30°	1923.5	1926.8	1914.9	1900.8	1898.6	1891.0	1900.8	1911.6	1923.5	1938.7
32.5°	1978.8	1985.3	1970.1	1954.9	1945.2	1940.9	1948.4	1966.9	1983.1	1999.4
35°	2070.9	2075.2	2061.1	2033.0	2015.6	2015.6	2022.1	2046.0	2072.0	2092.6
37.5°	2200.9	2206.4	2181.4	2147.8	2121.8	2121.8	2130.5	2155.4	2194.4	2223.7
40°	2359.2	2366.7	2335.3	2300.6	2275.7	2271.4	2282.2	2310.4	2347.2	2384.1
42.5°	2549.9	2558.6	2517.4	2487.0	2467.5	2467.5	2472.9	2499.0	2532.5	2578.1
45°	2793.7	2808.9	2752.5	2722.2	2703.8	2708.1	2711.4	2734.1	2764.5	2816.5
47.5°	3084.1	3099.3	3039.7	3008.3	3005.0	3025.6	3012.6	3028.9	3045.1	3104.7
50°	3413.6	3439.6	3398.4	3396.2	3402.7	3440.7	3410.3	3419.0	3400.6	3438.5
52.5°	3816.7	3854.6	3847.0	3860.0	3932.7	4010.7	3941.3	3911.0	3841.6	3853.5
55°	4305.4	4362.9	4373.7	4451.7	4616.5	4775.8	4628.4	4505.9	4358.5	4331.4
57.5°	4861.4	4906.9	4958.9	5118.2	5426.0	5708.8	5426.0	5155.0	4923.1	4867.9
60°	5459.6	5515.9	5565.8	5800.9	6258.2	6655.9	6249.6	5819.3	5512.7	5437.9
62.5°	6102.2	6174.8	6209.5	6470.6	7003.8	7478.4	7011.4	6490.1	6149.9	6069.7
65°	6718.8	6778.4	6817.4	7095.9	7605.2	8081.0	7639.9	7126.2	6776.2	6671.1
67.5°	7006.0	7038.5	7133.8	7449.2	7986.7	8529.6	8077.7	7482.8	7091.6	6907.3
70°	6585.5	6519.4	6749.1	7254.1	8032.2	8804.9	8136.2	7238.9	6760.0	6460.9
72.5°	5088.9	4975.1	5373.9	6237.6	7512.0	8629.3	7564.0	6286.4	5622.1	5015.2
75°	2768.8	2639.8	3190.3	4282.7	5990.6	7479.5	6128.2	4405.1	3552.3	2748.2
77.5°	781.3	732.6	1176.9	2072.0	3603.2	5251.5	3741.9	2117.5	1395.8	827.9
80°	239.5	231.9	314.3	624.2	1530.1	2515.2	1470.5	631.8	399.9	252.5
82.5°	142.0	130.0	156.0	227.6	390.1	790.0	379.3	237.3	190.7	127.9
85°	81.3	75.9	92.1	110.5	131.1	168.0	109.5	112.7	101.9	68.3
87.5°	33.6	30.3	35.8	34.7	30.3	39.0	29.3	34.7	41.2	27.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
1901.8
1895.3
1871.5
1845.5
1833.6
1833.6
1841.2
1855.3
1869.3
1875.8
1882.3
1898.6
1935.4
1992.9
2085.0
2212.9
2372.2
2574.8
2814.3
3087.4
3415.7
3813.5
4289.2
4828.9
5372.9
6004.6
6619.1
6909.5
6532.4
5165.9
2927.0
920.0
266.6
138.7
71.5
24.9
0.0

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