

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: P949807

Luminaire Tested: **GALN-SB4B-950-U-5MQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949807  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB4B-950-U-5MQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 90 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

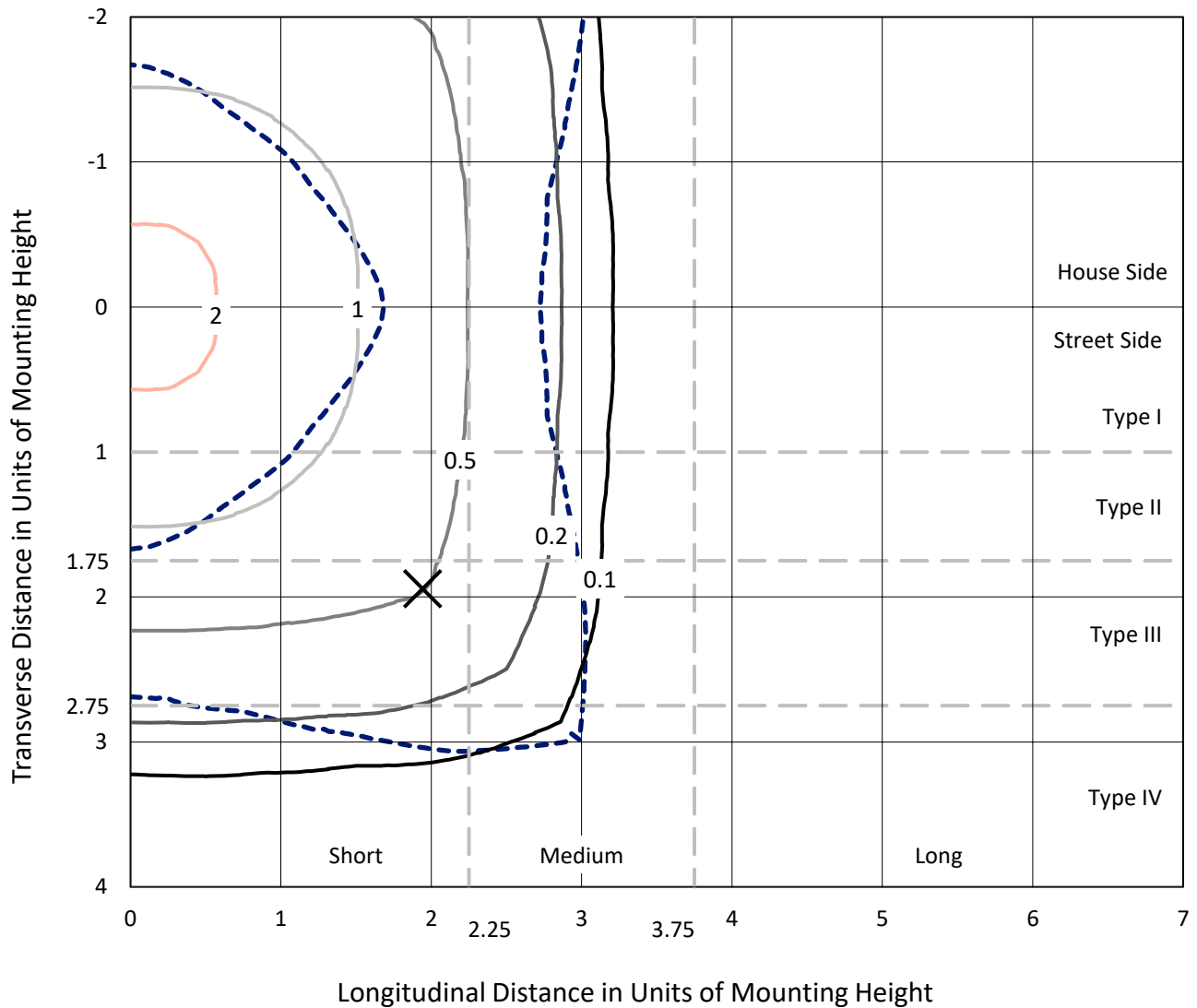
Lumens per Lamp: N/A  
Luminaire Lumens: 16441 lumens  
Efficiency: N/A  
Efficacy: 111.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2  
  
Input Watts (W): 147  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

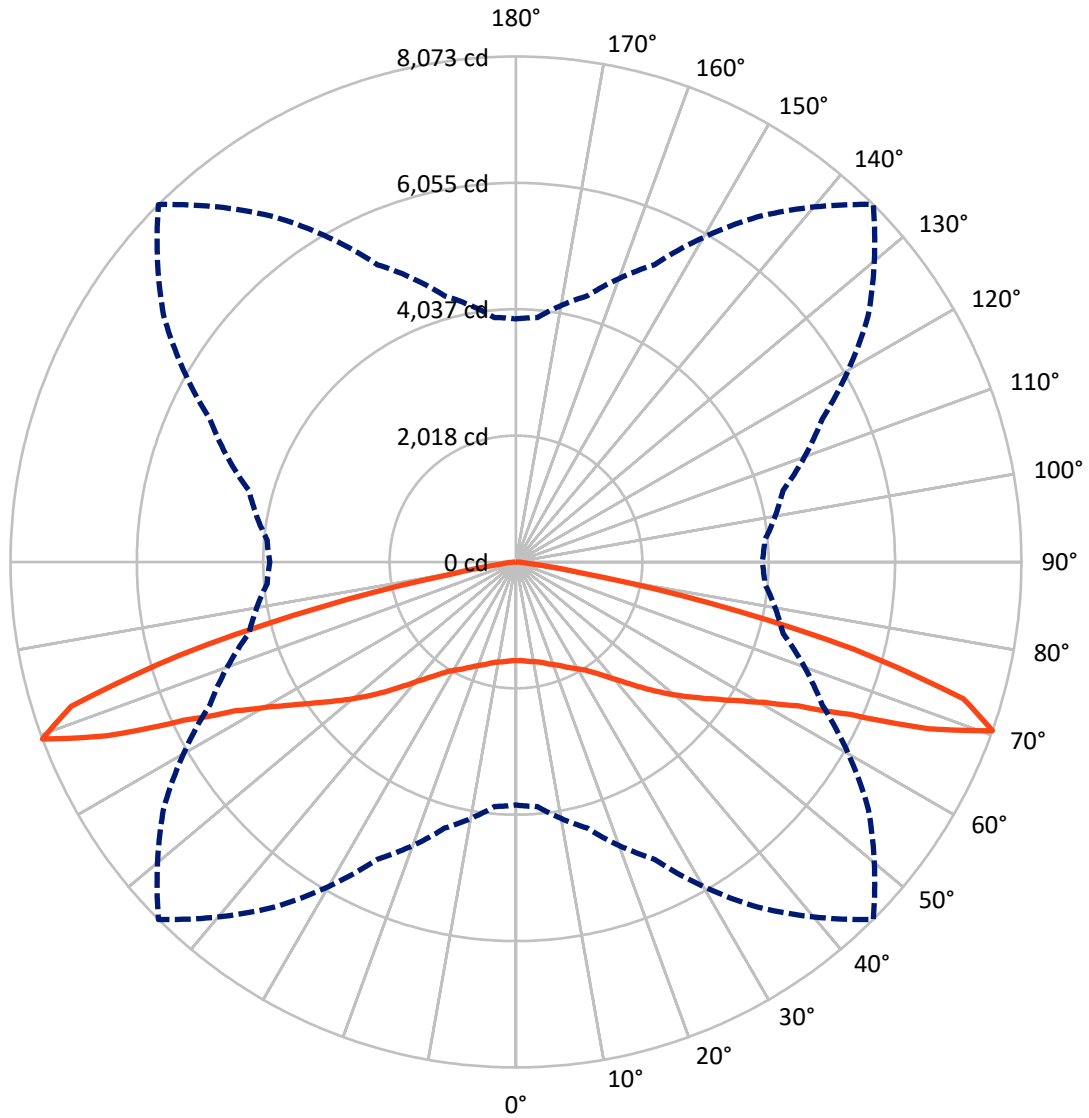
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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	8220.5	0.0	8220.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	8220.5	0.0	8220.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	16441.0	0.0	16441.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	153.0	0.9
10°-20°	474.4	2.9
20°-30°	847.9	5.2
30°-40°	1374.4	8.4
40°-50°	2238.6	13.6
50°-60°	3413.2	20.8
60°-70°	5077.7	30.9
70°-80°	2767.5	16.8
80°-90°	94.2	0.6
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°	16441.0	100.0
0°-180°	16441.0	100.0

**Coefficient of Utilization**



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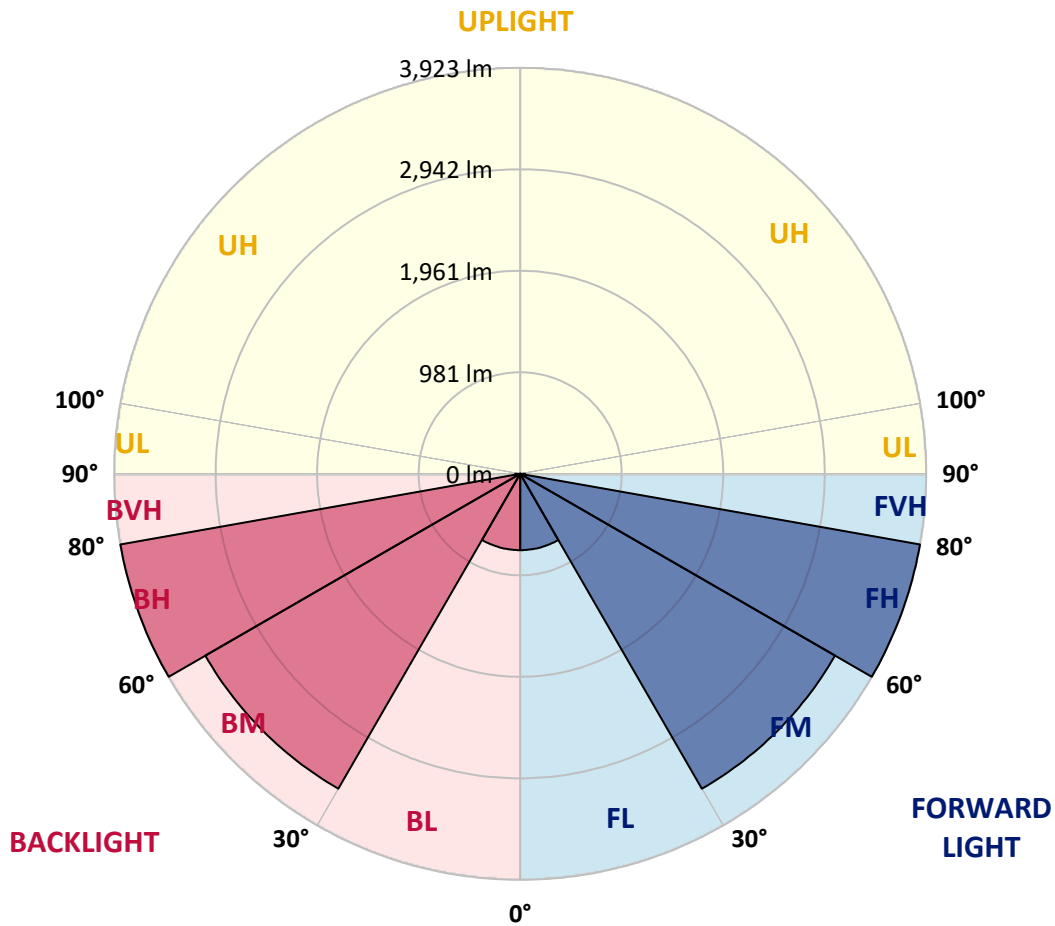
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	737.7	4.5			
FM (30°-60°)	3513.1	21.4			
FH (60°-80°)	3922.6	23.9			G2/5000
FVH (80°-90°)	47.1	0.3			G1/100
BL (0°-30°)	737.7	4.5	B2/1000		
BM (30°-60°)	3513.1	21.4	B3/5000		
BH (60°-80°)	3922.6	23.9	B4/5000		G2/5000
BVH (80°-90°)	47.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1574.9	1574.9	1574.9	1574.9	1574.9	1574.9	1574.9	1574.9	1574.9	1574.9
2.5°	1582.3	1584.0	1580.7	1579.0	1577.4	1574.9	1575.7	1579.8	1583.1	1582.3
5°	1595.5	1597.2	1594.7	1593.9	1590.6	1589.7	1589.7	1593.9	1596.3	1594.7
7.5°	1610.4	1612.8	1608.7	1607.9	1606.2	1604.6	1603.8	1607.9	1610.4	1610.4
10°	1624.4	1626.9	1623.6	1621.1	1619.4	1619.4	1617.8	1621.1	1625.2	1624.4
12.5°	1639.3	1640.9	1637.6	1636.0	1636.0	1638.4	1636.0	1637.6	1640.9	1639.3
15°	1657.4	1658.2	1657.4	1659.9	1664.0	1672.3	1664.8	1663.2	1664.8	1660.7
17.5°	1682.2	1683.8	1687.1	1692.9	1698.7	1713.5	1700.3	1696.2	1696.2	1688.0
20°	1712.7	1715.2	1720.1	1730.1	1737.5	1751.5	1738.3	1732.5	1730.1	1719.3
22.5°	1744.9	1749.0	1756.5	1769.7	1782.9	1796.1	1782.9	1773.0	1765.5	1751.5
25°	1782.1	1787.0	1798.6	1820.0	1838.2	1857.2	1841.5	1821.7	1806.8	1787.0
27.5°	1834.9	1840.7	1854.7	1881.1	1904.2	1920.7	1905.9	1880.3	1859.6	1835.7
30°	1909.2	1914.9	1931.5	1959.5	1975.2	1985.9	1976.0	1956.2	1931.5	1904.2
32.5°	2004.9	2012.3	2030.5	2056.9	2060.2	2061.9	2058.6	2048.7	2030.5	1997.5
35°	2126.2	2134.5	2155.1	2176.6	2173.3	2176.6	2171.6	2168.3	2155.1	2117.2
37.5°	2274.8	2284.7	2306.2	2322.7	2314.4	2310.3	2311.1	2312.0	2304.5	2262.4
40°	2447.3	2460.5	2476.2	2493.6	2479.5	2467.1	2475.4	2482.0	2475.4	2432.5
42.5°	2624.8	2643.8	2660.3	2685.1	2673.5	2657.8	2669.4	2676.8	2662.8	2616.5
45°	2822.1	2840.2	2861.7	2898.8	2890.6	2874.1	2890.6	2892.2	2868.3	2813.8
47.5°	3025.9	3044.9	3077.1	3126.6	3123.3	3105.2	3126.6	3115.1	3084.5	3019.3
50°	3219.1	3245.5	3295.0	3364.4	3371.0	3348.7	3377.6	3355.3	3304.1	3222.4
52.5°	3400.7	3428.7	3507.2	3601.3	3625.2	3596.3	3635.1	3596.3	3519.5	3414.7
55°	3591.3	3622.7	3716.0	3839.0	3886.8	3865.4	3901.7	3843.1	3734.1	3607.0
57.5°	3815.9	3834.8	3946.3	4092.4	4173.3	4178.2	4194.7	4095.7	3963.6	3819.2
60°	4059.4	4085.8	4207.1	4382.1	4510.0	4551.3	4534.0	4387.0	4233.5	4067.6
62.5°	4371.4	4400.2	4545.5	4755.2	4957.4	5059.7	4992.1	4779.1	4589.3	4390.3
65°	4629.7	4661.9	4924.4	5298.3	5666.4	5871.9	5701.9	5309.8	4968.1	4687.5
67.5°	4442.3	4482.0	4893.8	5580.6	6496.0	7109.2	6527.3	5664.8	4995.4	4614.9
70°	3882.7	3919.9	4400.2	5239.7	6729.5	8073.3	6869.9	5394.0	4415.9	3990.0
72.5°	2577.7	2697.4	3183.6	4190.6	6009.0	7470.8	6068.4	4105.6	2953.3	2572.0
75°	855.1	950.9	1282.7	2172.5	4024.7	5587.2	3831.5	1922.4	1016.1	731.3
77.5°	215.4	248.4	342.5	621.5	1605.4	3181.1	1445.3	507.6	276.5	193.1
80°	104.8	115.6	165.1	207.2	402.0	1011.1	377.2	194.8	130.4	100.7
82.5°	57.8	58.6	93.3	117.2	149.4	261.7	155.2	113.9	75.1	61.1
85°	35.5	34.7	49.5	62.7	62.7	93.3	74.3	62.7	42.9	38.0
87.5°	14.0	14.0	18.2	19.8	17.3	23.9	19.0	20.6	16.5	15.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
1574.9
1583.1
1595.5
1610.4
1624.4
1638.4
1660.7
1688.0
1719.3
1750.7
1786.2
1834.9
1904.2
1998.3
2117.2
2262.4
2432.5
2619.8
2819.6
3015.2
3220.7
3404.8
3589.7
3799.4
4041.2
4355.7
4641.3
4557.9
3933.1
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172.5
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16.5
0.0

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