

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: P949786

Luminaire Tested: **GALN-SB4B-940-U-5MQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949786  
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-940-U-5MQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

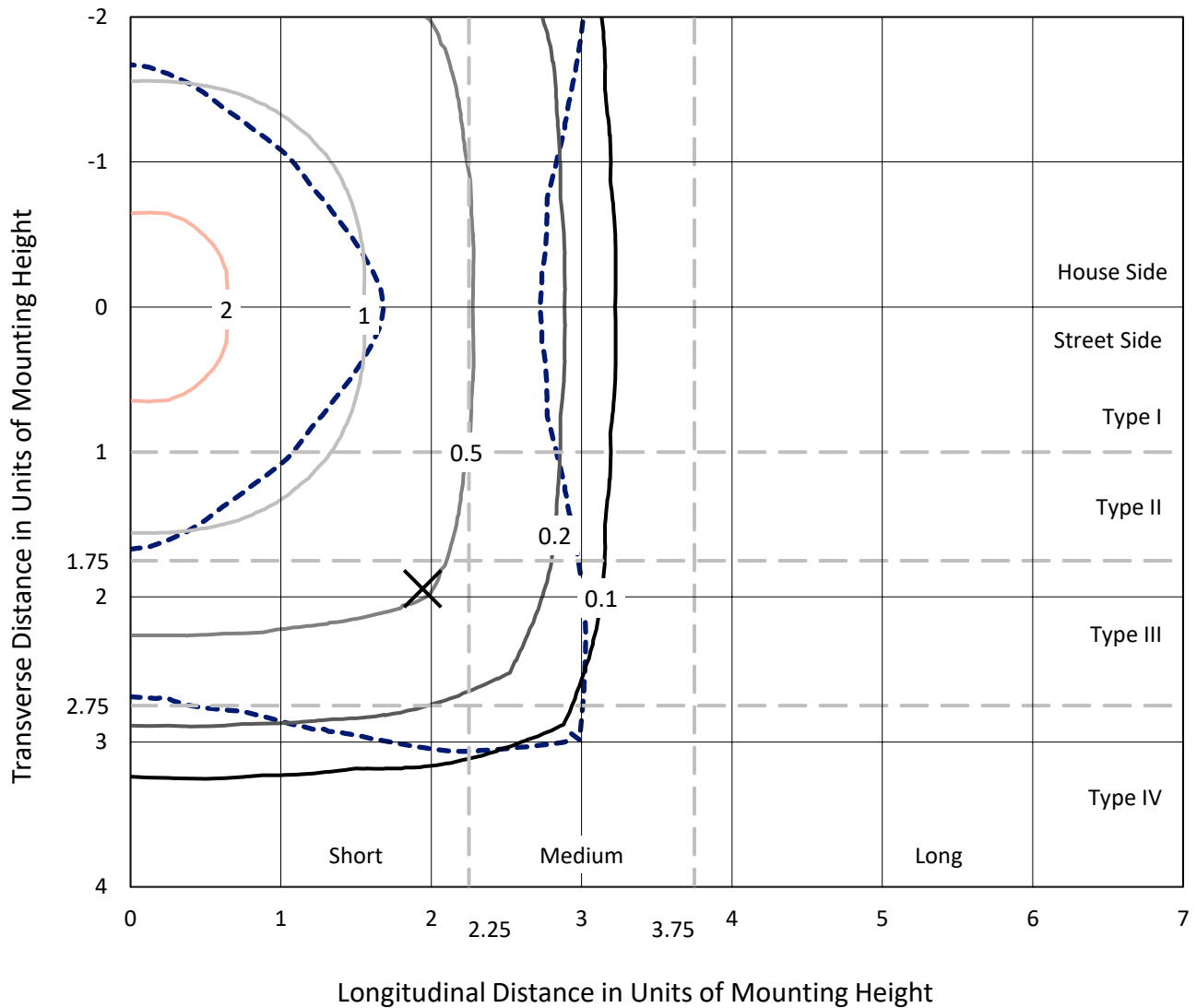
Lumens per Lamp: N/A  
Luminaire Lumens: 17126 lumens  
Efficiency: N/A  
Efficacy: 116.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2  
  
Input Watts (W): 147  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

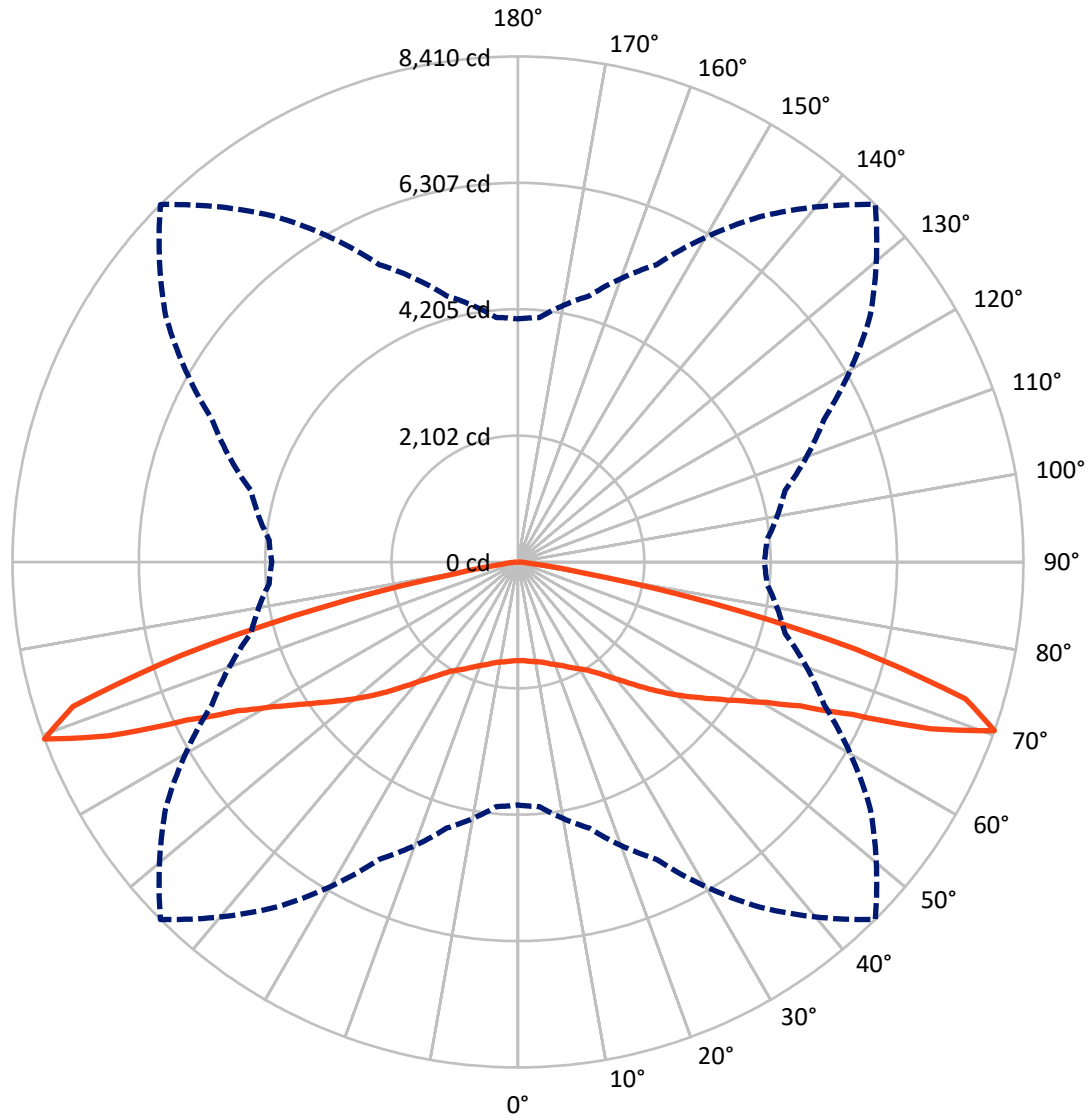
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 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	8563.0	0.0	8563.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	8563.0	0.0	8563.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	17126.0	0.0	17126.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	159.4	0.9
10°-20°	494.2	2.9
20°-30°	883.2	5.2
30°-40°	1431.6	8.4
40°-50°	2331.9	13.6
50°-60°	3555.4	20.8
60°-70°	5289.3	30.9
70°-80°	2882.8	16.8
80°-90°	98.2	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°	17126.0	100.0
0°-180°	17126.0	100.0

**Coefficient of Utilization**



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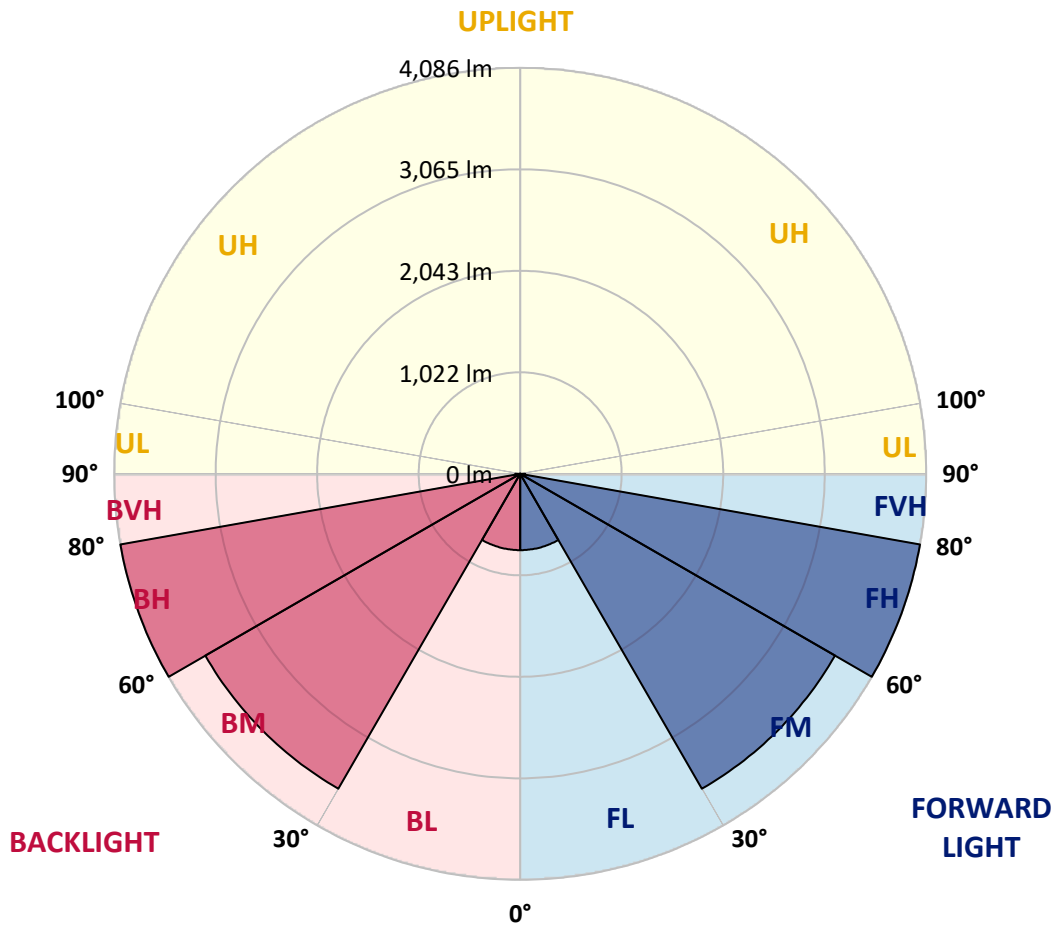
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	768.4	4.5			
FM (30°-60°)	3659.5	21.4			
FH (60°-80°)	4086.1	23.9			G2/5000
FVH (80°-90°)	49.1	0.3			G1/100
BL (0°-30°)	768.4	4.5	B2/1000		
BM (30°-60°)	3659.5	21.4	B3/5000		
BH (60°-80°)	4086.1	23.9	B4/5000		G2/5000
BVH (80°-90°)	49.1	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°	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5
2.5°	1648.2	1650.0	1646.5	1644.8	1643.1	1640.5	1641.4	1645.7	1649.1	1648.2
5°	1662.0	1663.7	1661.1	1660.3	1656.8	1656.0	1656.0	1660.3	1662.8	1661.1
7.5°	1677.5	1680.0	1675.7	1674.9	1673.2	1671.4	1670.6	1674.9	1677.5	1677.5
10°	1692.1	1694.7	1691.2	1688.6	1686.9	1686.9	1685.2	1688.6	1692.9	1692.1
12.5°	1707.6	1709.3	1705.8	1704.1	1704.1	1706.7	1704.1	1705.8	1709.3	1707.6
15°	1726.5	1727.3	1726.5	1729.1	1733.4	1741.9	1734.2	1732.5	1734.2	1729.9
17.5°	1752.3	1754.0	1757.4	1763.4	1769.5	1784.9	1771.2	1766.9	1766.9	1758.3
20°	1784.1	1786.7	1791.8	1802.1	1809.9	1824.5	1810.7	1804.7	1802.1	1791.0
22.5°	1817.6	1821.9	1829.6	1843.4	1857.2	1870.9	1857.2	1846.8	1839.1	1824.5
25°	1856.3	1861.5	1873.5	1895.9	1914.8	1934.5	1918.2	1897.6	1882.1	1861.5
27.5°	1911.3	1917.3	1932.0	1959.5	1983.6	2000.7	1985.3	1958.6	1937.1	1912.2
30°	1988.7	1994.7	2011.9	2041.2	2057.5	2068.7	2058.4	2037.7	2011.9	1983.6
32.5°	2088.4	2096.2	2115.1	2142.6	2146.1	2147.8	2144.3	2134.0	2115.1	2080.7
35°	2214.8	2223.4	2244.9	2267.3	2263.8	2267.3	2262.1	2258.7	2244.9	2205.4
37.5°	2369.6	2379.9	2402.3	2419.5	2410.9	2406.6	2407.4	2408.3	2400.6	2356.7
40°	2549.3	2563.1	2579.4	2597.4	2582.8	2569.9	2578.5	2585.4	2578.5	2533.8
42.5°	2734.2	2753.9	2771.1	2796.9	2784.9	2768.5	2780.6	2788.3	2773.7	2725.6
45°	2939.6	2958.6	2980.9	3019.6	3011.0	2993.8	3011.0	3012.7	2987.8	2931.0
47.5°	3152.0	3171.8	3205.3	3256.9	3253.5	3234.6	3256.9	3244.9	3213.1	3145.1
50°	3353.2	3380.7	3432.3	3504.5	3511.4	3488.2	3518.3	3495.1	3441.8	3356.6
52.5°	3542.4	3571.6	3653.3	3751.3	3776.2	3746.1	3786.5	3746.1	3666.2	3557.0
55°	3741.0	3773.7	3870.8	3998.9	4048.8	4026.4	4064.3	4003.2	3889.7	3757.3
57.5°	3974.8	3994.6	4110.7	4262.9	4347.1	4352.3	4369.5	4266.3	4128.7	3978.3
60°	4228.5	4256.0	4382.4	4564.7	4697.9	4740.9	4722.9	4569.8	4409.9	4237.1
62.5°	4553.5	4583.6	4734.9	4953.3	5163.9	5270.6	5200.1	4978.2	4780.5	4573.3
65°	4822.6	4856.1	5129.6	5519.0	5902.5	6116.6	5939.5	5531.1	5175.1	4882.8
67.5°	4627.4	4668.7	5097.7	5813.1	6766.6	7405.4	6799.3	5900.8	5203.5	4807.1
70°	4044.5	4083.2	4583.6	5458.0	7009.9	8409.7	7156.1	5618.8	4599.9	4156.3
72.5°	2685.1	2809.8	3316.2	4365.2	6259.3	7782.0	6321.2	4276.6	3076.4	2679.1
75°	890.8	990.5	1336.1	2263.0	4192.4	5820.0	3991.2	2002.5	1058.4	761.8
77.5°	224.4	258.8	356.8	647.4	1672.3	3313.7	1505.5	528.8	288.0	201.2
80°	109.2	120.4	172.0	215.8	418.7	1053.3	392.9	202.9	135.8	104.9
82.5°	60.2	61.0	97.2	122.1	155.6	272.6	161.6	118.7	78.2	63.6
85°	37.0	36.1	51.6	65.3	65.3	97.2	77.4	65.3	44.7	39.6
87.5°	14.6	14.6	18.9	20.6	18.1	24.9	19.8	21.5	17.2	16.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
1640.5
1649.1
1662.0
1677.5
1692.1
1706.7
1729.9
1758.3
1791.0
1823.6
1860.6
1911.3
1983.6
2081.6
2205.4
2356.7
2533.8
2729.0
2937.1
3140.8
3354.9
3546.7
3739.3
3957.6
4209.6
4537.2
4834.6
4747.8
4096.9
2592.3
720.5
179.7
96.3
63.6
41.3
17.2
0.0

OF REPORT)