

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: P950857

Luminaire Tested: **GALN-SB5A-940-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950857
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-SB5A-940-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17196 lumens
Efficiency: N/A
Efficacy: 121.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

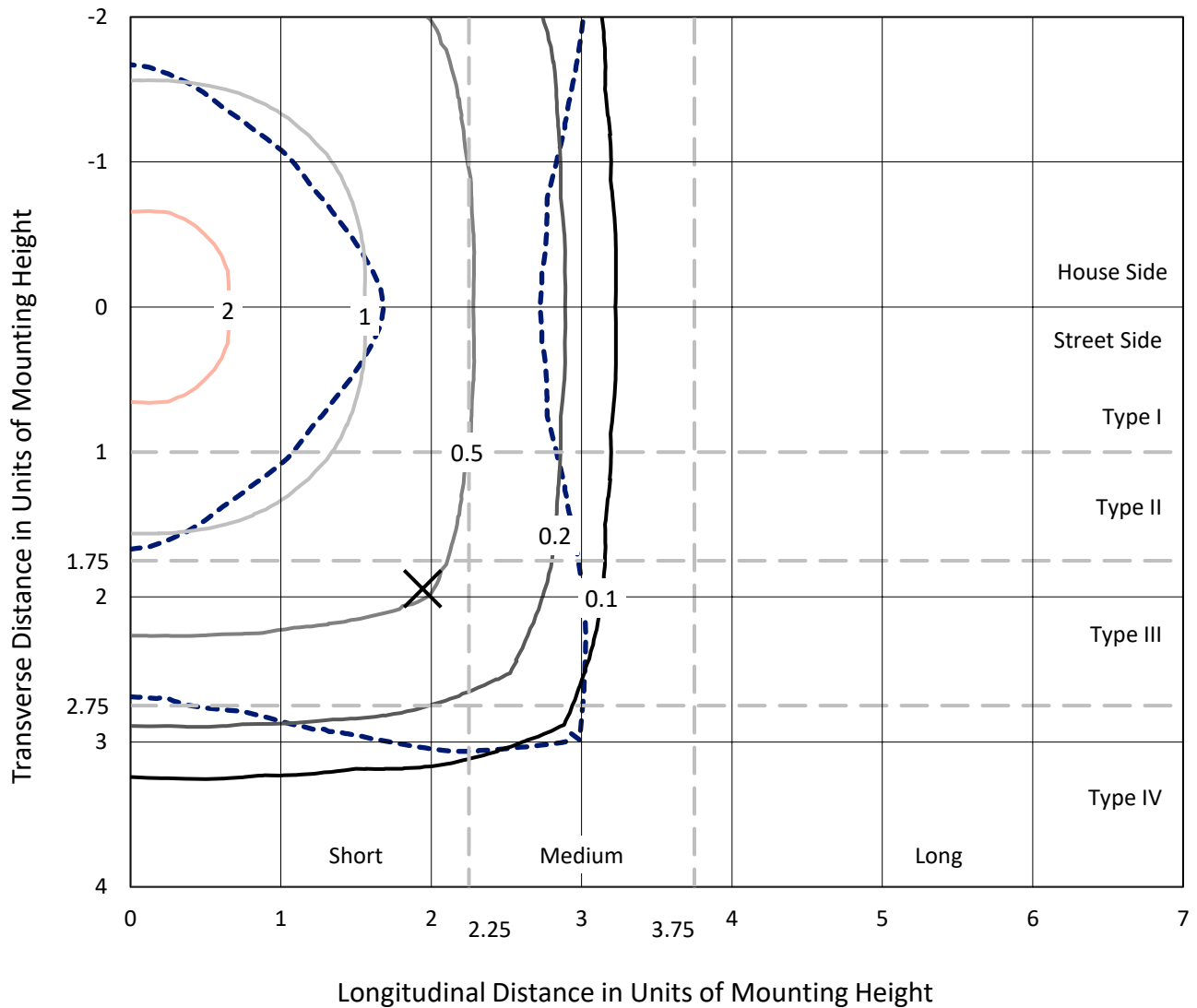
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

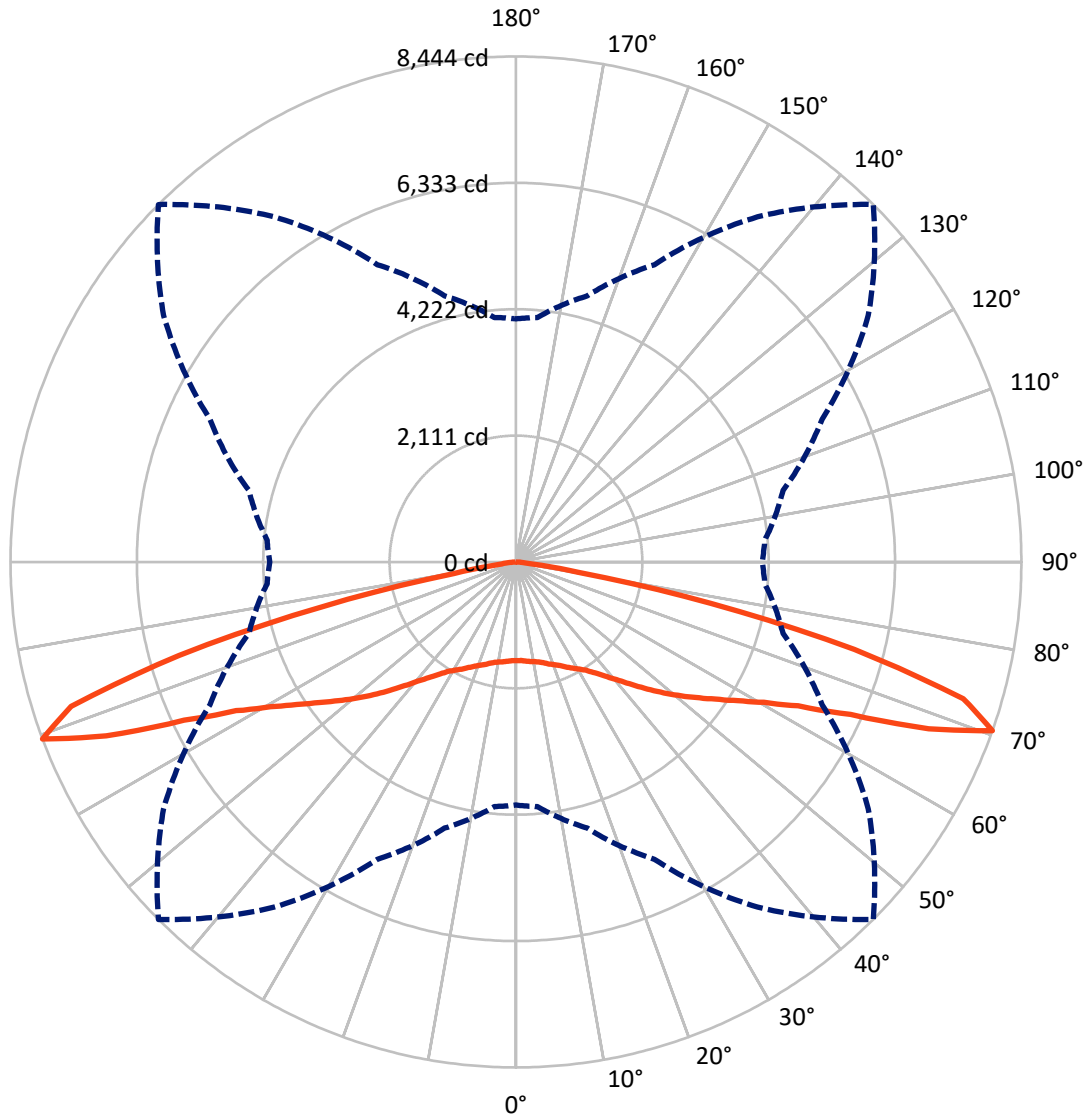
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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
House Side	Lumens	8598.0	0.0	8598.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8598.0	0.0	8598.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	17196.0	0.0	17196.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.0	0.9
10°-20°	496.2	2.9
20°-30°	886.8	5.2
30°-40°	1437.5	8.4
40°-50°	2341.5	13.6
50°-60°	3569.9	20.8
60°-70°	5310.9	30.9
70°-80°	2894.6	16.8
80°-90°	98.6	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°	17196.0	100.0
0°-180°	17196.0	100.0

Coefficient of Utilization



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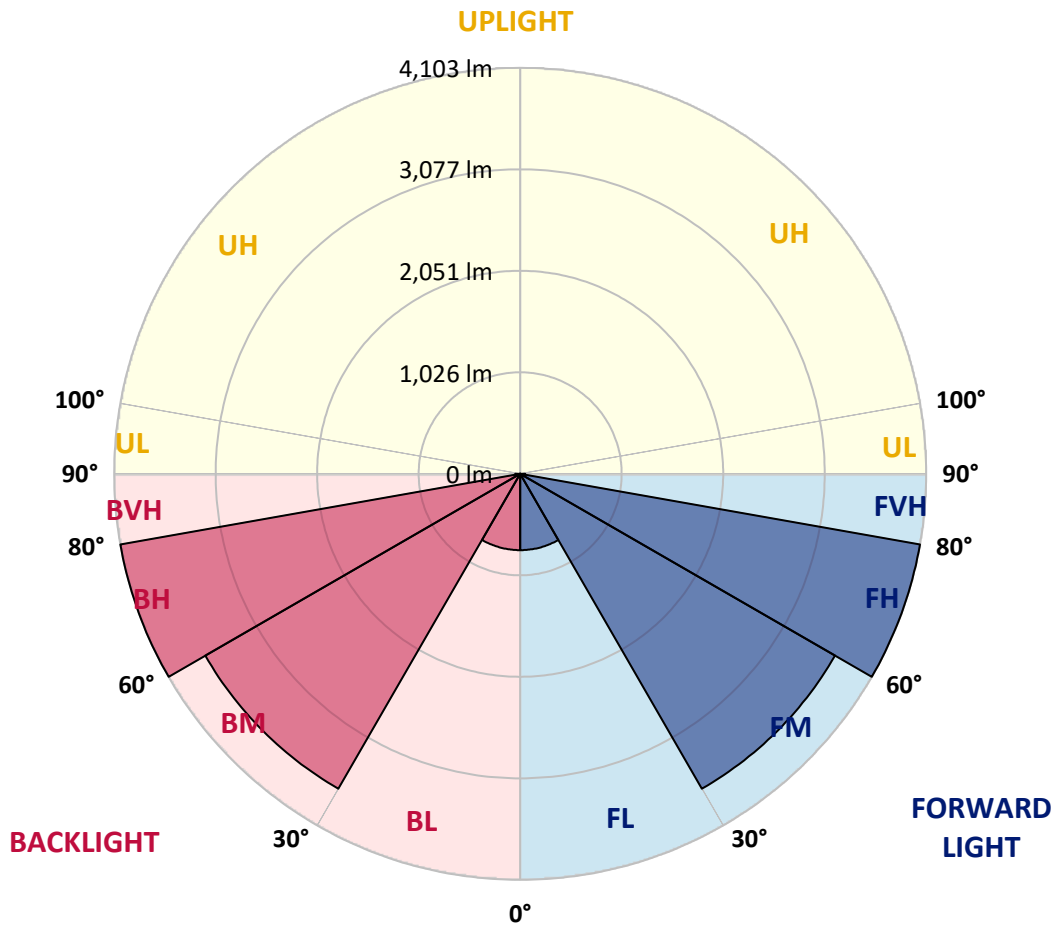
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	771.5	4.5			
FM (30°-60°)	3674.4	21.4			
FH (60°-80°)	4102.8	23.9			G2/5000
FVH (80°-90°)	49.3	0.3			G1/100
BL (0°-30°)	771.5	4.5	B2/1000		
BM (30°-60°)	3674.4	21.4	B3/5000		
BH (60°-80°)	4102.8	23.9	B4/5000		G2/5000
BVH (80°-90°)	49.3	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°	1647.2	1647.2	1647.2	1647.2	1647.2	1647.2	1647.2	1647.2	1647.2	1647.2
2.5°	1655.0	1656.7	1653.2	1651.5	1649.8	1647.2	1648.1	1652.4	1655.8	1655.0
5°	1668.8	1670.5	1667.9	1667.1	1663.6	1662.7	1662.7	1667.1	1669.6	1667.9
7.5°	1684.3	1686.9	1682.6	1681.7	1680.0	1678.3	1677.4	1681.7	1684.3	1684.3
10°	1699.0	1701.6	1698.1	1695.5	1693.8	1693.8	1692.1	1695.5	1699.9	1699.0
12.5°	1714.5	1716.3	1712.8	1711.1	1711.1	1713.7	1711.1	1712.8	1716.3	1714.5
15°	1733.5	1734.4	1733.5	1736.1	1740.4	1749.1	1741.3	1739.6	1741.3	1737.0
17.5°	1759.4	1761.2	1764.6	1770.7	1776.7	1792.2	1778.4	1774.1	1774.1	1765.5
20°	1791.4	1794.0	1799.1	1809.5	1817.3	1831.9	1818.1	1812.1	1809.5	1798.3
22.5°	1825.0	1829.4	1837.1	1850.9	1864.8	1878.6	1864.8	1854.4	1846.6	1831.9
25°	1863.9	1869.1	1881.2	1903.6	1922.6	1942.5	1926.0	1905.3	1889.8	1869.1
27.5°	1919.1	1925.2	1939.9	1967.5	1991.7	2008.9	1993.4	1966.6	1945.0	1920.0
30°	1996.8	2002.9	2020.1	2049.5	2065.9	2077.1	2066.8	2046.0	2020.1	1991.7
32.5°	2097.0	2104.8	2123.7	2151.4	2154.8	2156.6	2153.1	2142.7	2123.7	2089.2
35°	2223.9	2232.5	2254.1	2276.6	2273.1	2276.6	2271.4	2267.9	2254.1	2214.4
37.5°	2379.3	2389.6	2412.1	2429.4	2420.7	2416.4	2417.3	2418.1	2410.4	2366.3
40°	2559.7	2573.5	2589.9	2608.1	2593.4	2580.4	2589.1	2596.0	2589.1	2544.2
42.5°	2745.3	2765.2	2782.5	2808.4	2796.3	2779.9	2792.0	2799.7	2785.0	2736.7
45°	2951.7	2970.7	2993.1	3032.0	3023.3	3006.1	3023.3	3025.0	3000.0	2943.0
47.5°	3164.9	3184.8	3218.4	3270.2	3266.8	3247.8	3270.2	3258.1	3226.2	3158.0
50°	3366.9	3394.5	3446.3	3518.9	3525.8	3502.5	3532.7	3509.4	3455.8	3370.4
52.5°	3556.8	3586.2	3668.2	3766.6	3791.7	3761.4	3802.0	3761.4	3681.2	3571.5
55°	3756.3	3789.1	3886.6	4015.3	4065.3	4042.9	4080.9	4019.6	3905.6	3772.7
57.5°	3991.1	4010.9	4127.5	4280.3	4364.9	4370.1	4387.4	4283.8	4145.6	3994.5
60°	4245.8	4273.4	4400.3	4583.3	4717.1	4760.3	4742.2	4588.5	4427.9	4254.4
62.5°	4572.1	4602.3	4754.3	4973.5	5185.1	5292.1	5221.3	4998.6	4800.0	4592.0
65°	4842.3	4876.0	5150.5	5541.6	5926.6	6141.6	5963.8	5553.7	5196.3	4902.7
67.5°	4646.3	4687.8	5118.6	5836.9	6794.3	7435.7	6827.1	5924.9	5224.8	4826.8
70°	4061.0	4099.9	4602.3	5480.3	7038.6	8444.1	7185.3	5641.7	4618.7	4173.2
72.5°	2696.1	2821.3	3329.8	4383.0	6284.9	7813.8	6347.1	4294.1	3088.9	2690.1
75°	894.4	994.5	1341.6	2272.2	4209.5	5843.8	4007.5	2010.7	1062.7	764.9
77.5°	225.3	259.9	358.3	650.1	1679.1	3327.2	1511.7	530.9	289.2	202.0
80°	109.6	120.9	172.7	216.7	420.4	1057.6	394.5	203.7	136.4	105.3
82.5°	60.4	61.3	97.6	122.6	156.3	273.7	162.3	119.1	78.6	63.9
85°	37.1	36.3	51.8	65.6	65.6	97.6	77.7	65.6	44.9	39.7
87.5°	14.7	14.7	19.0	20.7	18.1	25.0	19.9	21.6	17.3	16.4
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>
1647.2
1655.8
1668.8
1684.3
1699.0
1713.7
1737.0
1765.5
1798.3
1831.1
1868.2
1919.1
1991.7
2090.1
2214.4
2366.3
2544.2
2740.2
2949.1
3153.7
3368.6
3561.2
3754.5
3973.8
4226.8
4555.7
4854.4
4767.2
4113.7
2602.9
723.5
180.4
96.7
63.9
41.4
17.3
0.0

OF REPORT)