

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: P949429

Luminaire Tested: **GALN-SB4A-940-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949429
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-SB4A-940-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 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: 13643 lumens
Efficiency: N/A
Efficacy: 119.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

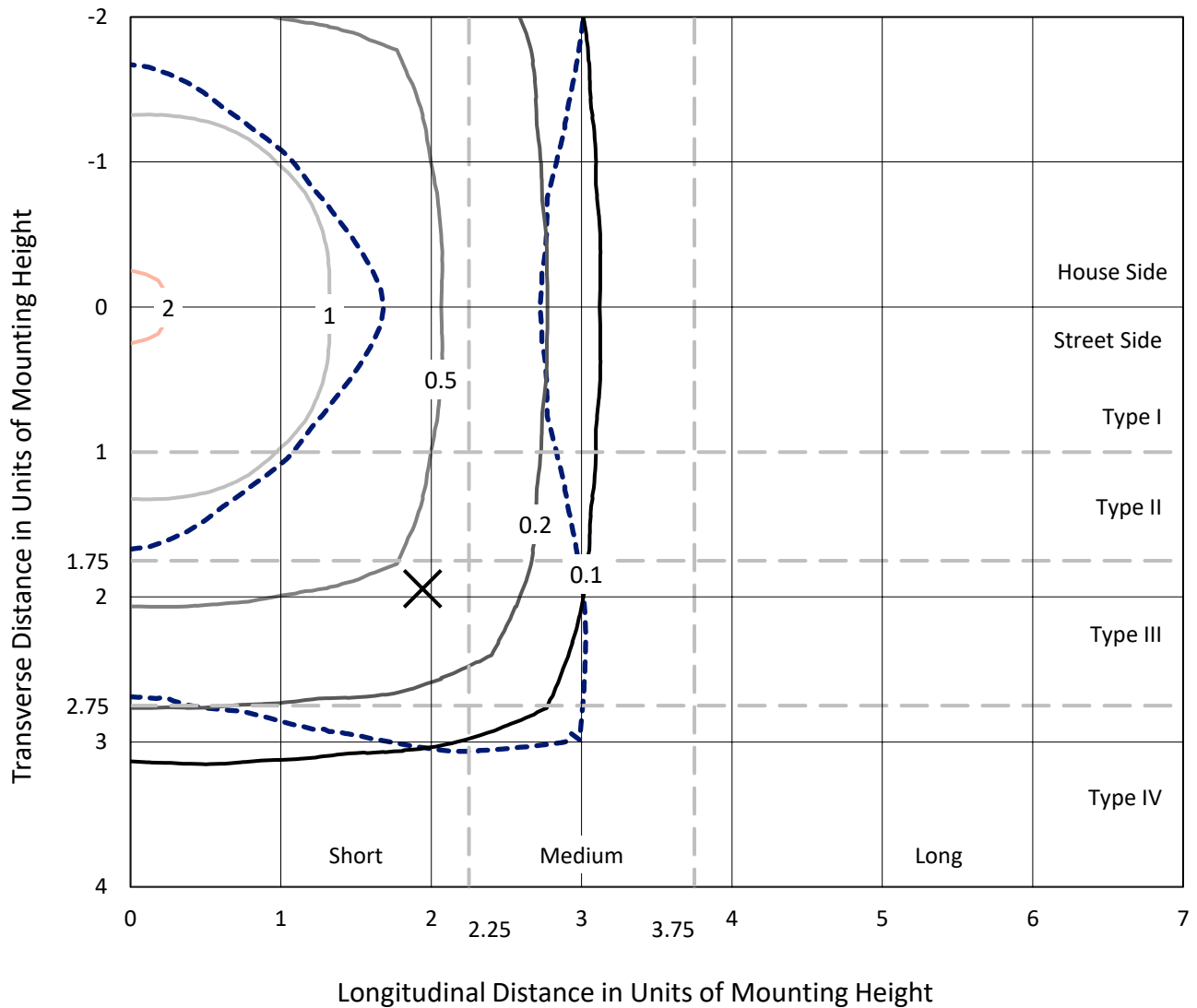
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

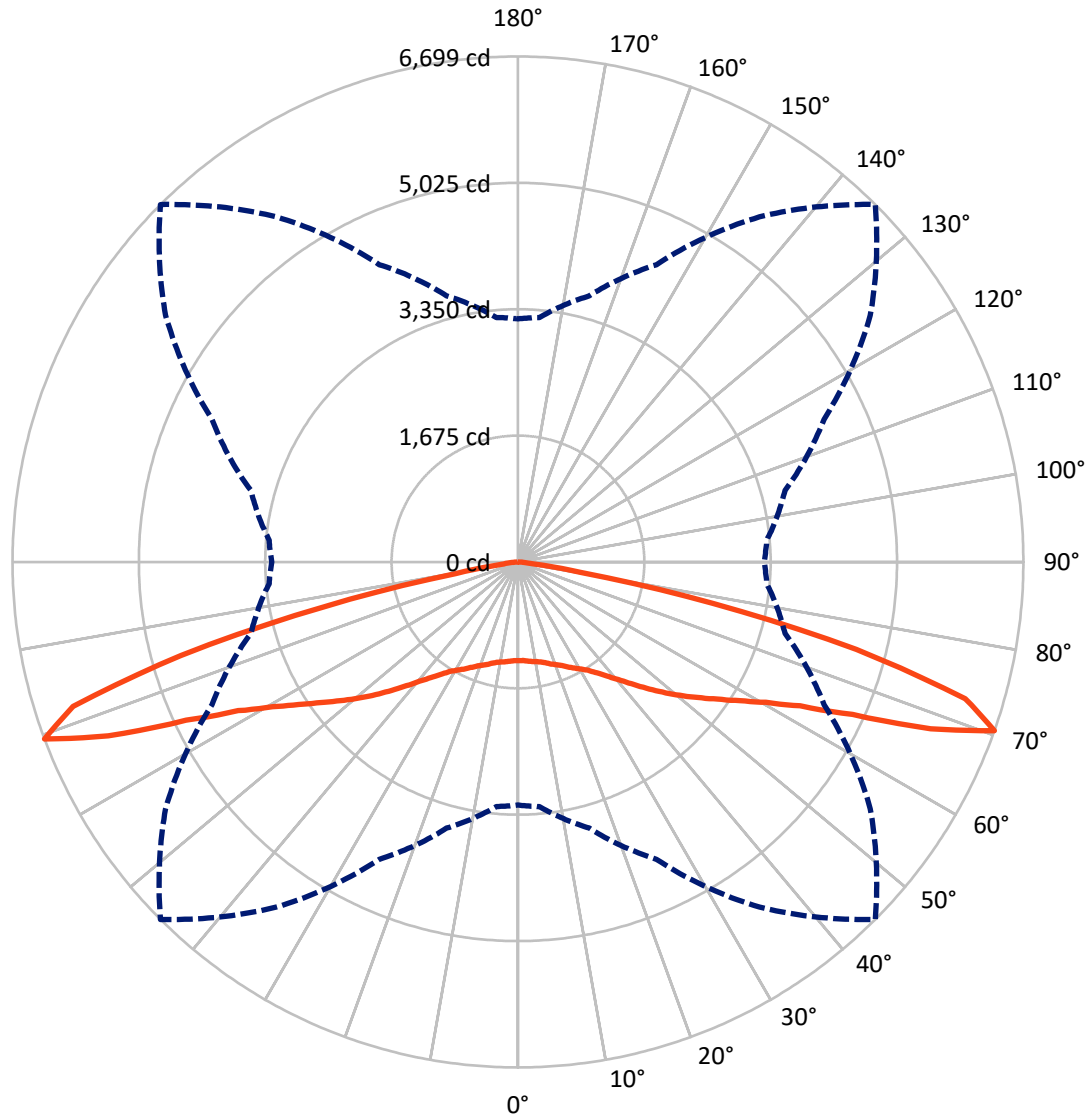
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 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	6821.5	0.0	6821.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6821.5	0.0	6821.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	13643.0	0.0	13643.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.0	0.9
10°-20°	393.7	2.9
20°-30°	703.6	5.2
30°-40°	1140.5	8.4
40°-50°	1857.7	13.6
50°-60°	2832.3	20.8
60°-70°	4213.6	30.9
70°-80°	2296.5	16.8
80°-90°	78.2	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°	13643.0	100.0
0°-180°	13643.0	100.0



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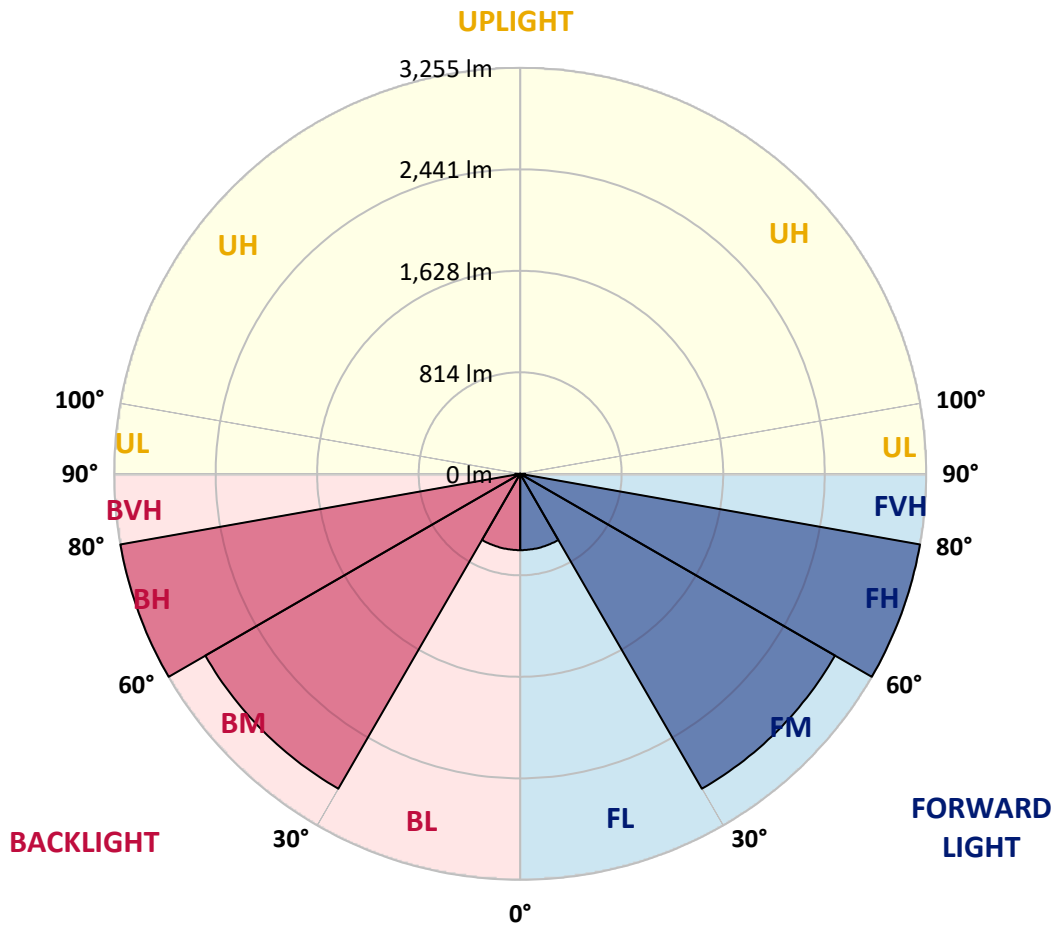
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	612.1	4.5			
FM (30°-60°)	2915.2	21.4			
FH (60°-80°)	3255.1	23.9			G2/5000
FVH (80°-90°)	39.1	0.3			G1/100
BL (0°-30°)	612.1	4.5	B2/1000		
BM (30°-60°)	2915.2	21.4	B3/5000		
BH (60°-80°)	3255.1	23.9	B4/5000		G2/5000
BVH (80°-90°)	39.1	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°	1306.9	1306.9	1306.9	1306.9	1306.9	1306.9	1306.9	1306.9	1306.9	1306.9
2.5°	1313.0	1314.4	1311.7	1310.3	1308.9	1306.9	1307.5	1311.0	1313.7	1313.0
5°	1324.0	1325.4	1323.3	1322.6	1319.9	1319.2	1319.2	1322.6	1324.7	1323.3
7.5°	1336.3	1338.4	1334.9	1334.3	1332.9	1331.5	1330.8	1334.3	1336.3	1336.3
10°	1348.0	1350.0	1347.3	1345.2	1343.8	1343.8	1342.5	1345.2	1348.6	1348.0
12.5°	1360.3	1361.7	1358.9	1357.5	1357.5	1359.6	1357.5	1358.9	1361.7	1360.3
15°	1375.4	1376.0	1375.4	1377.4	1380.8	1387.7	1381.5	1380.1	1381.5	1378.1
17.5°	1395.9	1397.3	1400.0	1404.8	1409.6	1421.9	1411.0	1407.5	1407.5	1400.7
20°	1421.2	1423.3	1427.4	1435.6	1441.8	1453.4	1442.5	1437.7	1435.6	1426.7
22.5°	1448.0	1451.4	1457.5	1468.5	1479.5	1490.4	1479.5	1471.2	1465.1	1453.4
25°	1478.8	1482.9	1492.5	1510.3	1525.4	1541.1	1528.1	1511.7	1499.3	1482.9
27.5°	1522.6	1527.4	1539.1	1561.0	1580.1	1593.8	1581.5	1560.3	1543.2	1523.3
30°	1584.3	1589.1	1602.8	1626.0	1639.1	1648.0	1639.7	1623.3	1602.8	1580.1
32.5°	1663.7	1669.9	1684.9	1706.9	1709.6	1711.0	1708.2	1700.0	1684.9	1657.5
35°	1764.4	1771.2	1788.4	1806.2	1803.4	1806.2	1802.1	1799.3	1788.4	1756.9
37.5°	1887.7	1895.9	1913.7	1927.4	1920.6	1917.1	1917.8	1918.5	1912.3	1877.4
40°	2030.8	2041.8	2054.8	2069.2	2057.5	2047.3	2054.1	2059.6	2054.1	2018.5
42.5°	2178.1	2193.9	2207.5	2228.1	2218.5	2205.5	2215.1	2221.2	2209.6	2171.2
45°	2341.8	2356.9	2374.7	2405.5	2398.6	2384.9	2398.6	2400.0	2380.2	2334.9
47.5°	2511.0	2526.7	2553.4	2594.5	2591.8	2576.7	2594.5	2584.9	2559.6	2505.5
50°	2671.3	2693.2	2734.3	2791.8	2797.3	2778.8	2802.8	2784.3	2741.8	2674.0
52.5°	2821.9	2845.2	2910.3	2988.4	3008.2	2984.3	3016.5	2984.3	2920.6	2833.6
55°	2980.2	3006.2	3083.6	3185.6	3225.4	3207.6	3237.7	3189.1	3098.7	2993.2
57.5°	3166.5	3182.2	3274.7	3395.9	3463.0	3467.1	3480.8	3398.7	3289.1	3169.2
60°	3368.5	3390.4	3491.1	3636.3	3742.5	3776.7	3762.4	3640.4	3513.0	3375.4
62.5°	3627.4	3651.4	3771.9	3945.9	4113.7	4198.7	4142.5	3965.8	3808.2	3643.2
65°	3841.8	3868.5	4086.3	4396.6	4702.1	4872.6	4731.5	4406.2	4122.6	3889.8
67.5°	3686.3	3719.2	4061.0	4630.9	5390.4	5899.4	5416.5	4700.7	4145.2	3829.5
70°	3221.9	3252.8	3651.4	4348.0	5584.3	6699.4	5700.7	4476.1	3664.4	3311.0
72.5°	2139.1	2238.4	2641.8	3477.4	4986.3	6199.4	5035.7	3406.9	2450.7	2134.3
75°	709.6	789.0	1064.4	1802.8	3339.7	4636.3	3179.5	1595.2	843.2	606.9
77.5°	178.8	206.2	284.2	515.8	1332.2	2639.7	1199.3	421.2	229.5	160.3
80°	87.0	95.9	137.0	171.9	333.6	839.0	313.0	161.6	108.2	83.6
82.5°	47.9	48.6	77.4	97.3	124.0	217.1	128.8	94.5	62.3	50.7
85°	29.5	28.8	41.1	52.1	52.1	77.4	61.6	52.1	35.6	31.5
87.5°	11.6	11.6	15.1	16.4	14.4	19.9	15.8	17.1	13.7	13.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
1306.9
1313.7
1324.0
1336.3
1348.0
1359.6
1378.1
1400.7
1426.7
1452.7
1482.2
1522.6
1580.1
1658.2
1756.9
1877.4
2018.5
2174.0
2339.7
2502.1
2672.6
2825.4
2978.8
3152.8
3353.4
3614.4
3851.4
3782.2
3263.7
2065.1
574.0
143.2
76.7
50.7
32.9
13.7
0.0

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