

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: P949723

Luminaire Tested: **GALN-SB4B-927-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949723
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-927-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14386 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

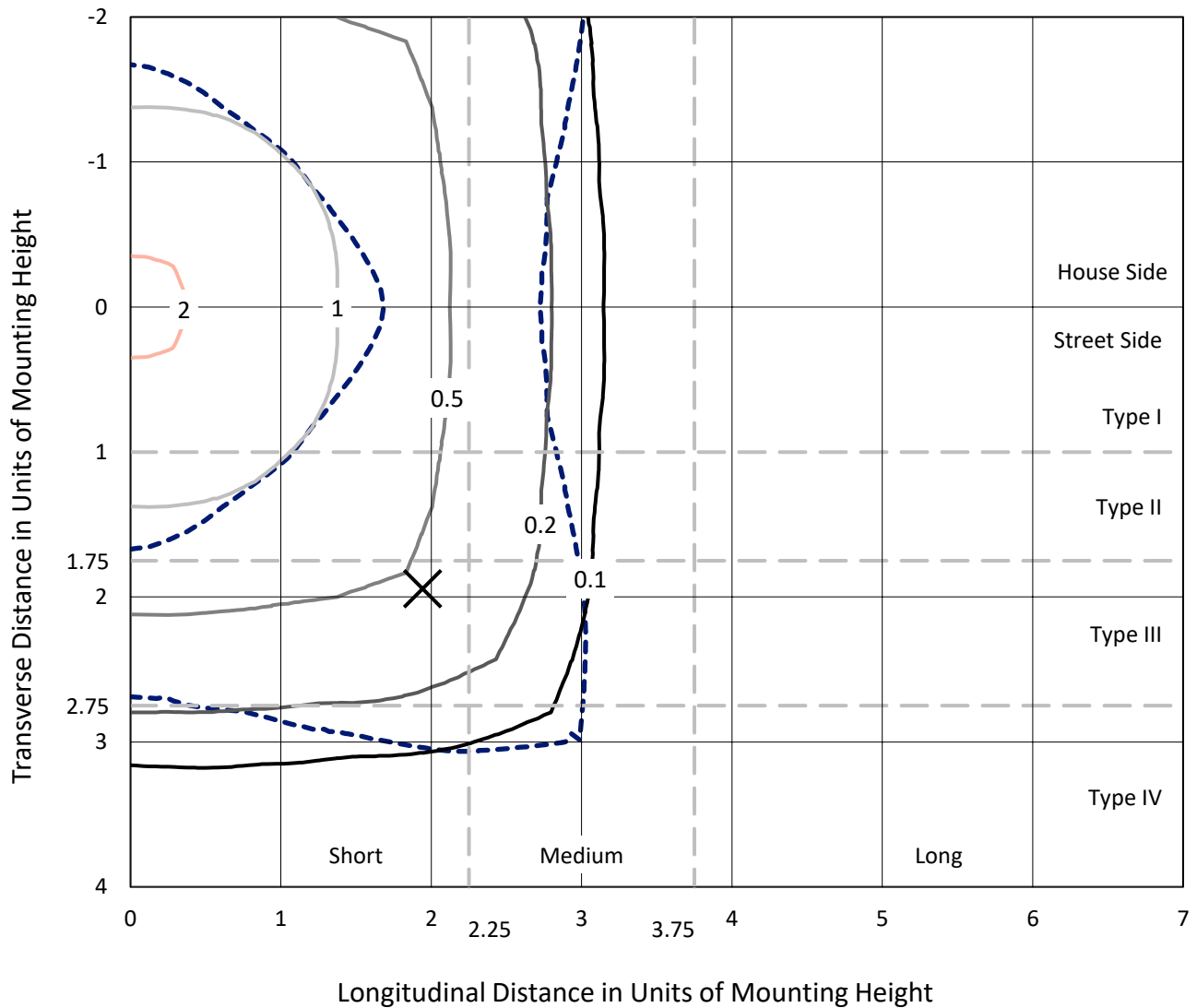
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

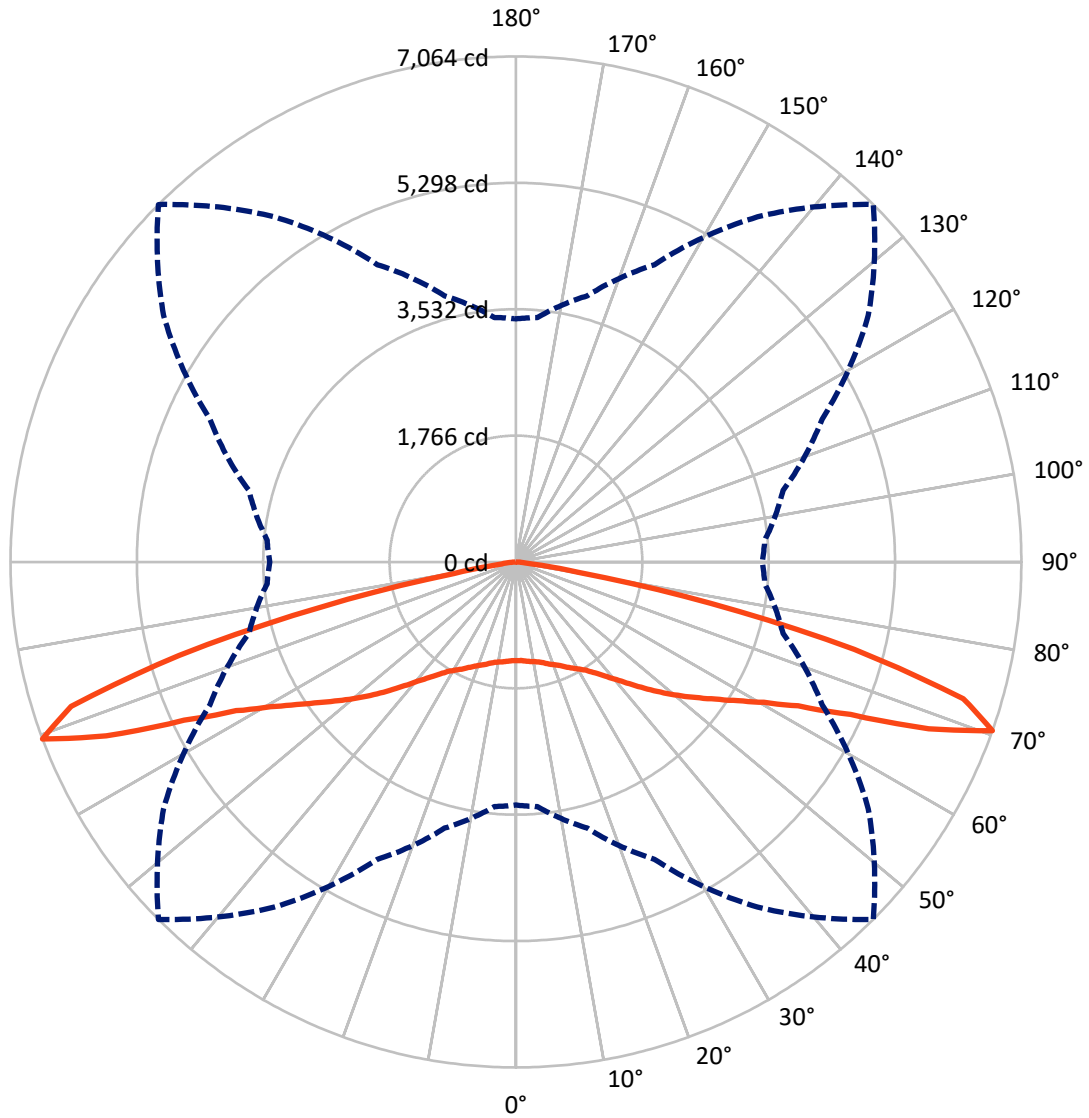
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 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	7193.0	0.0	7193.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7193.0	0.0	7193.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	14386.0	0.0	14386.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.9	0.9
10°-20°	415.1	2.9
20°-30°	741.9	5.2
30°-40°	1202.6	8.4
40°-50°	1958.8	13.6
50°-60°	2986.6	20.8
60°-70°	4443.1	30.9
70°-80°	2421.6	16.8
80°-90°	82.5	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°	14386.0	100.0
0°-180°	14386.0	100.0

Coefficient of Utilization



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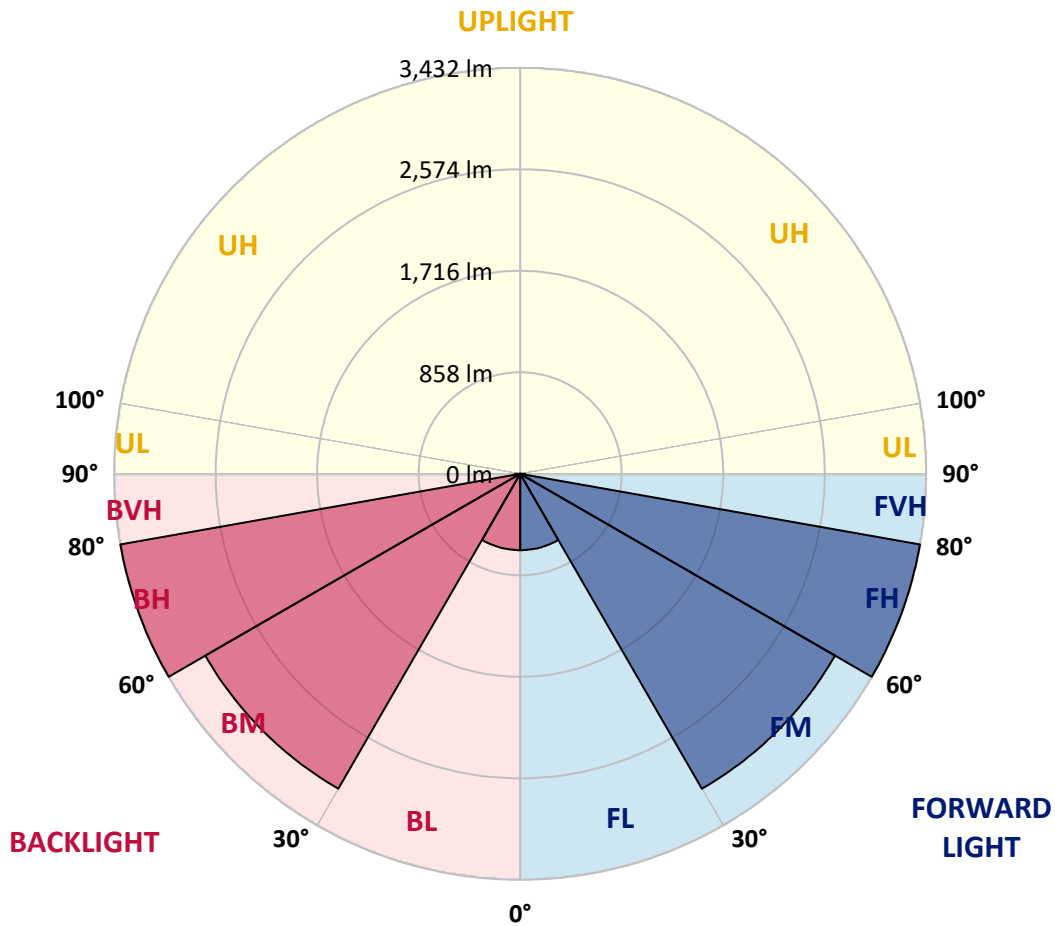
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	645.4	4.5			
FM (30°-60°)	3074.0	21.4			
FH (60°-80°)	3432.3	23.9			G2/5000
FVH (80°-90°)	41.2	0.3			G1/100
BL (0°-30°)	645.4	4.5	B2/1000		
BM (30°-60°)	3074.0	21.4	B3/5000		
BH (60°-80°)	3432.3	23.9	B4/5000		G2/5000
BVH (80°-90°)	41.2	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°	1378.0	1378.0	1378.0	1378.0	1378.0	1378.0	1378.0	1378.0	1378.0	1378.0
2.5°	1384.5	1386.0	1383.1	1381.6	1380.2	1378.0	1378.8	1382.4	1385.3	1384.5
5°	1396.1	1397.5	1395.4	1394.6	1391.8	1391.0	1391.0	1394.6	1396.8	1395.4
7.5°	1409.1	1411.3	1407.6	1406.9	1405.5	1404.0	1403.3	1406.9	1409.1	1409.1
10°	1421.4	1423.5	1420.6	1418.5	1417.0	1417.0	1415.6	1418.5	1422.1	1421.4
12.5°	1434.4	1435.8	1432.9	1431.5	1431.5	1433.6	1431.5	1432.9	1435.8	1434.4
15°	1450.3	1451.0	1450.3	1452.4	1456.0	1463.3	1456.8	1455.3	1456.8	1453.1
17.5°	1471.9	1473.4	1476.3	1481.3	1486.4	1499.4	1487.8	1484.2	1484.2	1477.0
20°	1498.6	1500.8	1505.1	1513.8	1520.3	1532.6	1521.0	1516.0	1513.8	1504.4
22.5°	1526.8	1530.4	1536.9	1548.5	1560.0	1571.6	1560.0	1551.4	1544.9	1532.6
25°	1559.3	1563.6	1573.8	1592.5	1608.4	1625.0	1611.3	1594.0	1581.0	1563.6
27.5°	1605.5	1610.6	1622.9	1646.0	1666.2	1680.6	1667.6	1645.3	1627.2	1606.3
30°	1670.5	1675.6	1690.0	1714.6	1728.3	1737.7	1729.0	1711.7	1690.0	1666.2
32.5°	1754.3	1760.8	1776.7	1799.8	1802.7	1804.2	1801.3	1792.6	1776.7	1747.8
35°	1860.5	1867.7	1885.8	1904.5	1901.7	1904.5	1900.2	1897.3	1885.8	1852.5
37.5°	1990.5	1999.2	2017.9	2032.4	2025.2	2021.5	2022.3	2023.0	2016.5	1979.7
40°	2141.4	2153.0	2166.7	2181.9	2169.6	2158.8	2166.0	2171.8	2166.0	2128.4
42.5°	2296.7	2313.3	2327.8	2349.4	2339.3	2325.6	2335.7	2342.2	2329.9	2289.5
45°	2469.3	2485.2	2504.0	2536.5	2529.3	2514.8	2529.3	2530.7	2509.8	2462.1
47.5°	2647.7	2664.3	2692.5	2735.8	2732.9	2717.1	2735.8	2725.7	2699.0	2641.9
50°	2816.7	2839.8	2883.2	2943.8	2949.6	2930.1	2955.4	2935.9	2891.1	2819.6
52.5°	2975.6	3000.2	3068.8	3151.1	3172.1	3146.8	3180.7	3146.8	3079.6	2987.9
55°	3142.5	3169.9	3251.5	3359.1	3401.0	3382.2	3414.0	3362.7	3267.4	3156.2
57.5°	3338.9	3355.5	3453.0	3580.9	3651.6	3656.0	3670.4	3583.7	3468.2	3341.8
60°	3552.0	3575.1	3681.2	3834.4	3946.3	3982.4	3967.3	3838.7	3704.4	3559.2
62.5°	3825.0	3850.3	3977.4	4160.8	4337.8	4427.3	4368.1	4181.8	4015.6	3841.6
65°	4051.0	4079.2	4308.9	4636.0	4958.2	5138.0	4989.2	4646.2	4347.1	4101.6
67.5°	3887.1	3921.8	4282.1	4883.1	5684.0	6220.6	5711.5	4956.7	4371.0	4038.0
70°	3397.4	3429.9	3850.3	4584.8	5888.4	7064.2	6011.2	4719.8	3864.0	3491.3
72.5°	2255.5	2360.3	2785.7	3666.8	5257.9	6537.0	5309.9	3592.4	2584.2	2250.5
75°	748.2	832.0	1122.4	1900.9	3521.6	4888.8	3352.6	1682.1	889.1	639.9
77.5°	188.5	217.4	299.7	543.8	1404.8	2783.5	1264.6	444.2	241.9	169.0
80°	91.7	101.1	144.4	181.3	351.7	884.7	330.1	170.4	114.1	88.1
82.5°	50.6	51.3	81.6	102.6	130.7	228.9	135.8	99.7	65.7	53.4
85°	31.1	30.3	43.3	54.9	54.9	81.6	65.0	54.9	37.6	33.2
87.5°	12.3	12.3	15.9	17.3	15.2	20.9	16.6	18.1	14.4	13.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
1378.0
1385.3
1396.1
1409.1
1421.4
1433.6
1453.1
1477.0
1504.4
1531.9
1562.9
1605.5
1666.2
1748.5
1852.5
1979.7
2128.4
2292.4
2467.2
2638.3
2818.2
2979.2
3141.0
3324.5
3536.1
3811.2
4061.1
3988.2
3441.5
2177.5
605.2
150.9
80.9
53.4
34.7
14.4
0.0

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