

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: P941070

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941070
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
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-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16542 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

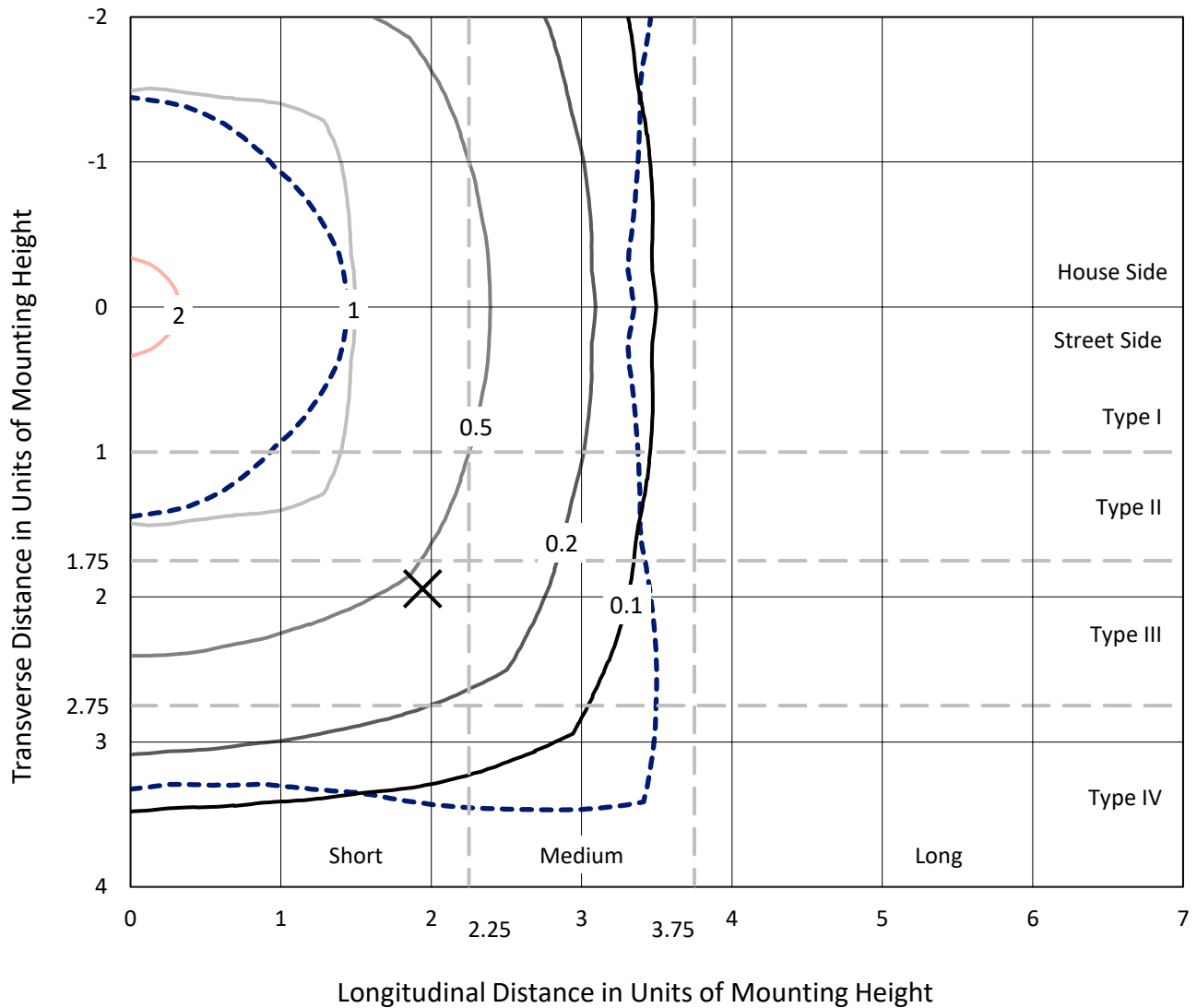
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P941070
 CATALOG NUMBER: GALN-SB4B-940-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

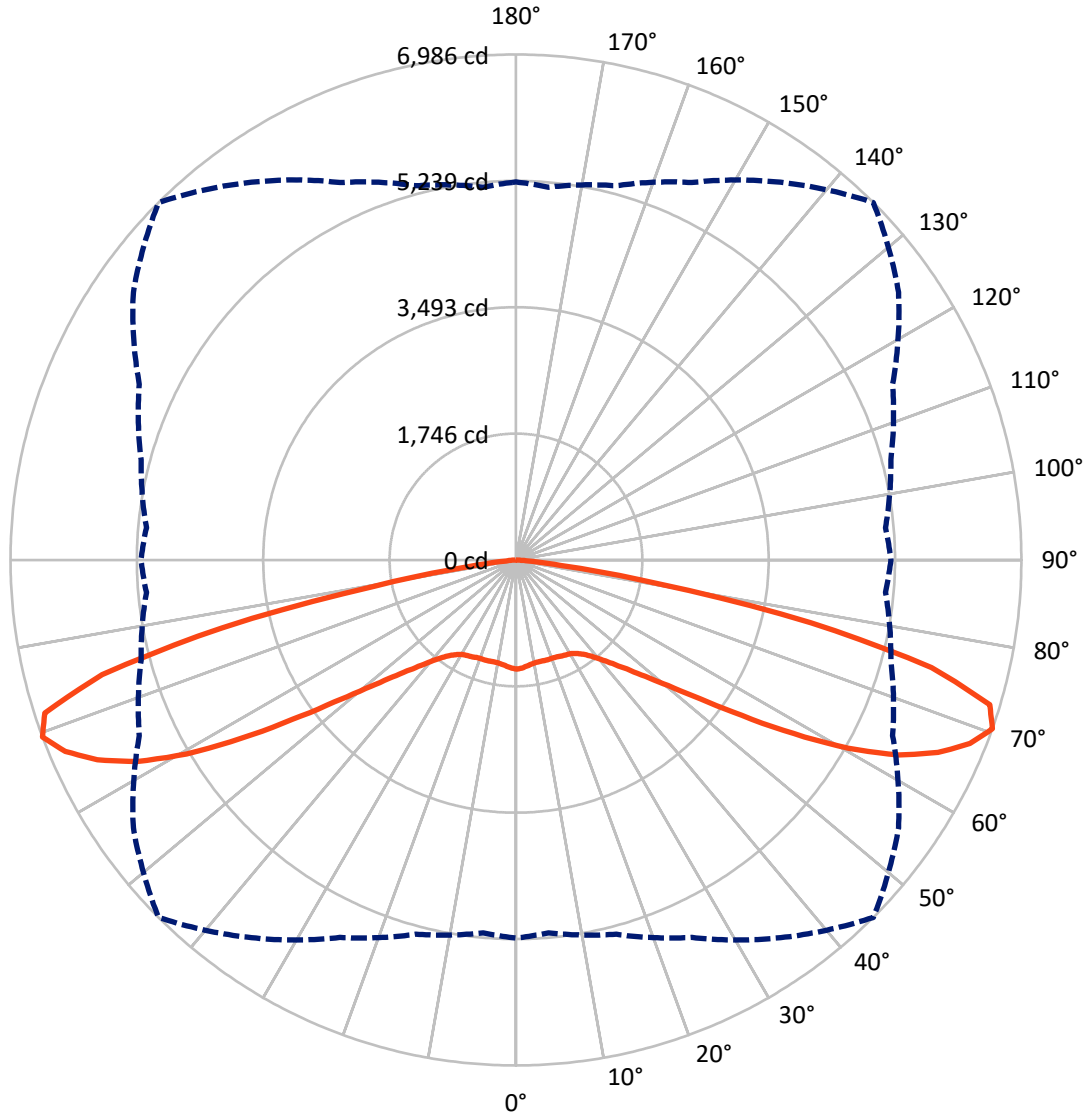
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type V - Short - N/A

REPORT NUMBER: P941070
CATALOG NUMBER: GALN-SB4B-940-U-5WQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P941070

CATALOG NUMBER: GALN-SB4B-940-U-5WQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8271.0	0.0	8271.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8271.0	0.0	8271.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	16542.0	0.0	16542.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.4	0.8
10°-20°	412.2	2.5
20°-30°	685.9	4.1
30°-40°	1037.3	6.3
40°-50°	1723.7	10.4
50°-60°	3252.6	19.7
60°-70°	5492.1	33.2
70°-80°	3608.9	21.8
80°-90°	189.1	1.1
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°	16542.0	100.0
0°-180°	16542.0	100.0

Coefficient of Utilization



REPORT NUMBER: P941070

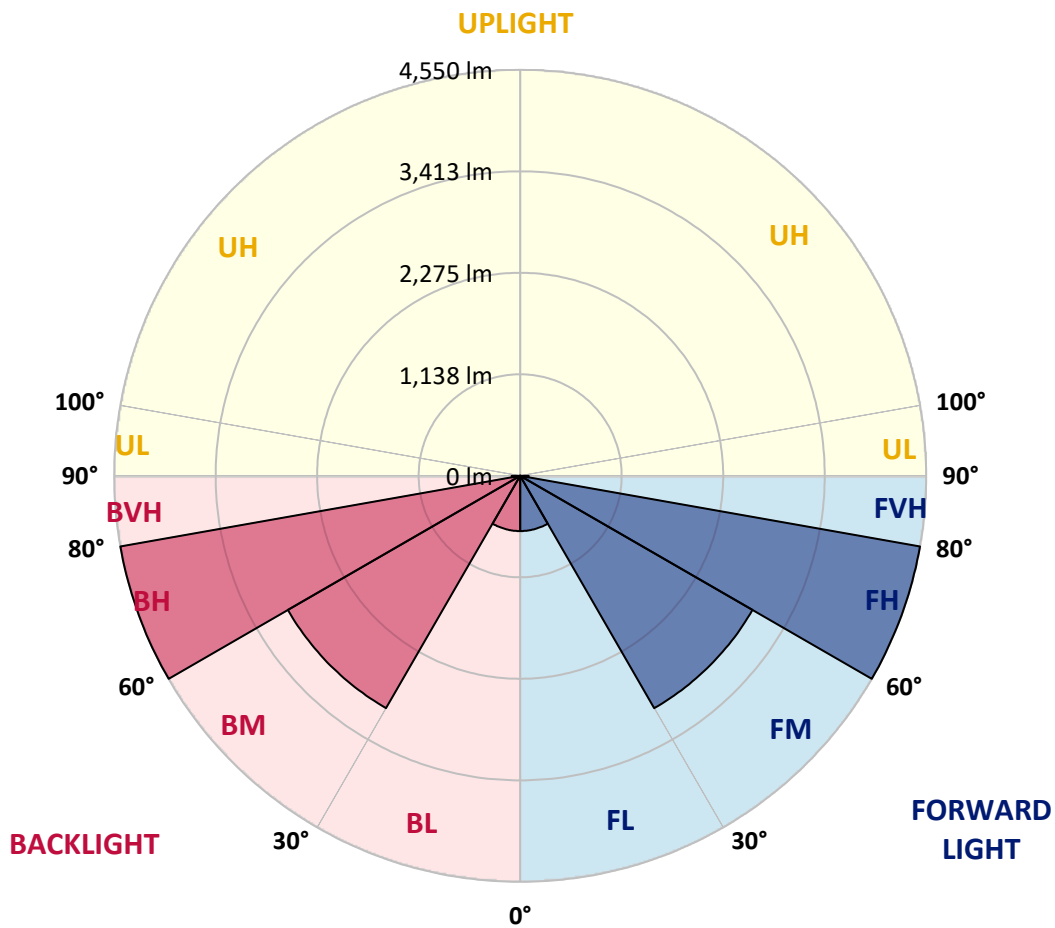
CATALOG NUMBER: GALN-SB4B-940-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	619.2	3.7			
FM (30°-60°)	3006.8	18.2			
FH (60°-80°)	4550.5	27.5			G2/5000
FVH (80°-90°)	94.5	0.6			G1/100
BL (0°-30°)	619.2	3.7	B2/1000		
BM (30°-60°)	3006.8	18.2	B3/5000		
BH (60°-80°)	4550.5	27.5	B4/5000		G2/5000
BVH (80°-90°)	94.5	0.6			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



REPORT NUMBER: P941070
 CATALOG NUMBER: GALN-SB4B-940-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1509.0	1509.0	1509.0	1509.0	1509.0	1509.0	1509.0	1509.0	1509.0	1509.0
2.5°	1499.5	1503.8	1502.1	1498.6	1498.6	1496.1	1498.6	1500.4	1502.9	1504.7
5°	1479.7	1483.2	1482.3	1479.7	1480.6	1478.0	1479.7	1482.3	1484.0	1484.9
7.5°	1462.5	1466.0	1464.3	1460.0	1460.0	1457.4	1458.2	1460.8	1463.4	1464.3
10°	1458.2	1461.7	1456.5	1449.6	1447.1	1443.6	1444.5	1447.1	1452.2	1454.8
12.5°	1460.0	1462.5	1457.4	1447.1	1444.5	1441.0	1441.0	1443.6	1450.5	1453.9
15°	1465.1	1467.7	1460.0	1448.8	1446.2	1443.6	1442.8	1446.2	1453.9	1460.0
17.5°	1474.6	1477.2	1465.1	1449.6	1446.2	1447.1	1446.2	1448.8	1460.8	1472.0
20°	1483.2	1484.9	1468.6	1449.6	1446.2	1447.1	1446.2	1451.4	1466.8	1482.3
22.5°	1485.7	1487.5	1472.0	1455.7	1453.1	1453.9	1453.1	1458.2	1472.9	1488.3
25°	1486.6	1489.2	1477.2	1464.3	1468.6	1470.3	1468.6	1469.4	1480.6	1494.3
27.5°	1499.5	1502.9	1491.8	1480.6	1483.2	1482.3	1484.9	1487.5	1496.1	1509.8
30°	1526.2	1528.7	1519.3	1508.1	1506.4	1500.4	1508.1	1516.7	1526.2	1538.2
32.5°	1570.0	1575.2	1563.1	1551.1	1543.4	1539.9	1545.9	1560.6	1573.4	1586.3
35°	1643.1	1646.5	1635.4	1613.0	1599.2	1599.2	1604.4	1623.3	1644.0	1660.3
37.5°	1746.3	1750.6	1730.8	1704.1	1683.5	1683.5	1690.4	1710.2	1741.1	1764.3
40°	1871.8	1877.8	1852.9	1825.4	1805.6	1802.2	1810.8	1833.1	1862.3	1891.6
42.5°	2023.1	2030.0	1997.3	1973.3	1957.8	1957.8	1962.1	1982.7	2009.4	2045.5
45°	2216.6	2228.6	2183.9	2159.8	2145.2	2148.7	2151.2	2169.3	2193.4	2234.6
47.5°	2447.0	2459.1	2411.8	2386.8	2384.2	2400.6	2390.3	2403.2	2416.1	2463.4
50°	2708.4	2729.0	2696.4	2694.6	2699.8	2729.9	2705.8	2712.7	2698.1	2728.2
52.5°	3028.2	3058.3	3052.3	3062.6	3120.2	3182.2	3127.1	3103.0	3048.0	3057.5
55°	3416.0	3461.6	3470.2	3532.1	3662.8	3789.2	3672.2	3575.1	3458.1	3436.7
57.5°	3857.1	3893.2	3934.5	4060.9	4305.1	4529.5	4305.1	4090.1	3906.1	3862.3
60°	4331.7	4376.4	4416.0	4602.6	4965.4	5280.9	4958.5	4617.2	4373.8	4314.5
62.5°	4841.6	4899.2	4926.7	5133.9	5556.9	5933.5	5563.0	5149.4	4879.4	4815.8
65°	5330.8	5378.1	5409.1	5630.0	6034.1	6411.6	6061.6	5654.1	5376.4	5293.0
67.5°	5558.7	5584.5	5660.1	5910.3	6336.8	6767.6	6409.0	5937.0	5626.6	5480.4
70°	5225.1	5172.6	5354.9	5755.6	6372.9	6985.9	6455.4	5743.5	5363.5	5126.2
72.5°	4037.7	3947.4	4263.8	4949.1	5960.2	6846.7	6001.5	4987.7	4460.7	3979.2
75°	2196.8	2094.5	2531.3	3398.0	4753.0	5934.4	4862.2	3495.1	2818.5	2180.5
77.5°	619.9	581.2	933.8	1644.0	2858.9	4166.6	2968.9	1680.1	1107.4	656.9
80°	190.0	184.0	249.3	495.2	1214.0	1995.6	1166.8	501.3	317.3	200.3
82.5°	112.6	103.2	123.8	180.6	309.5	626.8	300.9	188.3	151.3	101.5
85°	64.5	60.2	73.1	87.7	104.0	133.3	86.8	89.4	80.8	54.2
87.5°	26.7	24.1	28.4	27.5	24.1	31.0	23.2	27.5	32.7	21.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
1509.0
1503.8
1484.9
1464.3
1454.8
1454.8
1460.8
1472.0
1483.2
1488.3
1493.5
1506.4
1535.6
1581.2
1654.3
1755.7
1882.1
2042.9
2232.9
2449.6
2710.1
3025.7
3403.1
3831.3
4262.9
4764.2
5251.7
5482.1
5182.9
4098.7
2322.3
730.0
211.5
110.1
56.7
19.8
0.0

OF REPORT)