

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: P939770

Luminaire Tested: **GALN-SB2C-740-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939770
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-SB2C-740-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16027 lumens
Efficiency: N/A
Efficacy: 158.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

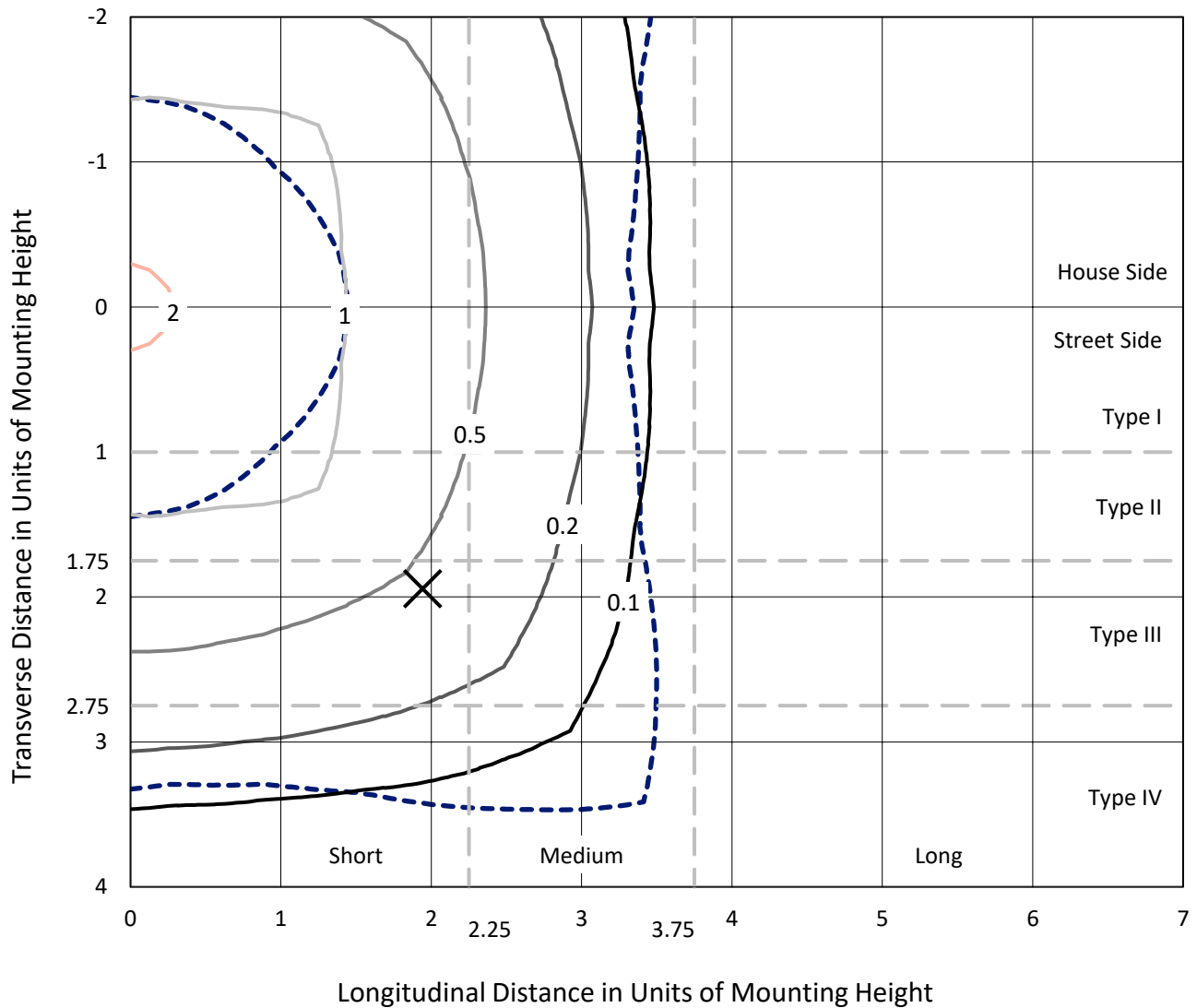
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

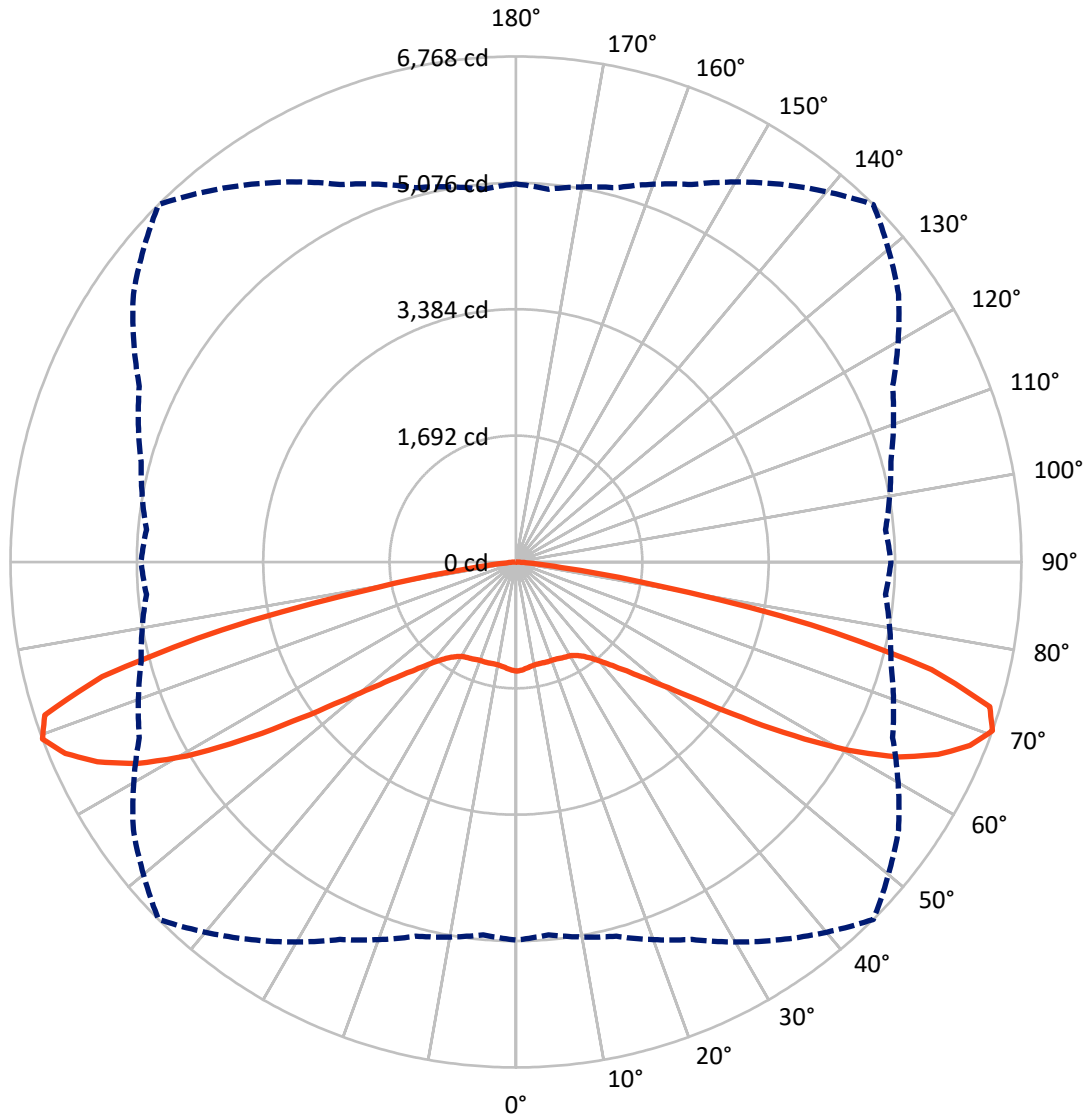
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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	8013.5	0.0	8013.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8013.5	0.0	8013.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	16027.0	0.0	16027.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.0	0.8
10°-20°	399.3	2.5
20°-30°	664.5	4.1
30°-40°	1005.0	6.3
40°-50°	1670.0	10.4
50°-60°	3151.3	19.7
60°-70°	5321.1	33.2
70°-80°	3496.5	21.8
80°-90°	183.2	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°	16027.0	100.0
0°-180°	16027.0	100.0

Coefficient of Utilization



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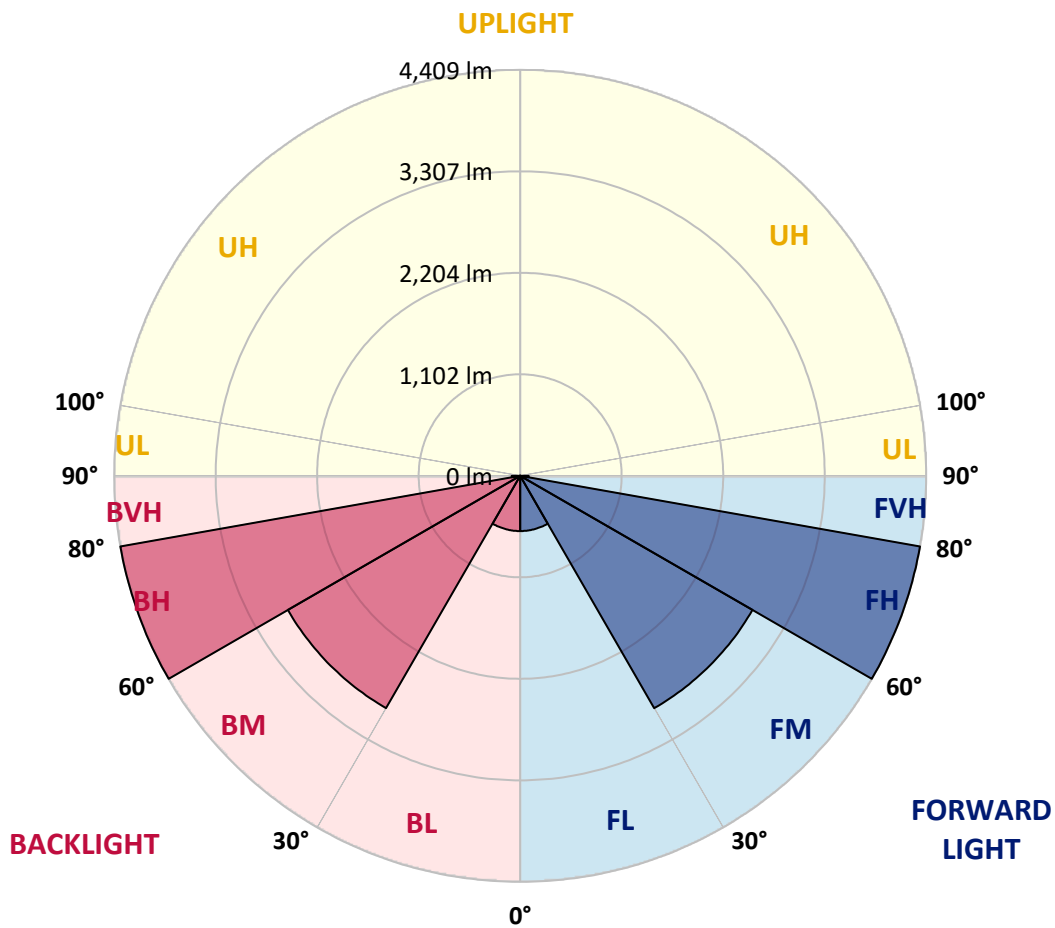
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	599.9	3.7			
FM (30°-60°)	2913.2	18.2			
FH (60°-80°)	4408.8	27.5			G2/5000
FVH (80°-90°)	91.6	0.6			G1/100
BL (0°-30°)	599.9	3.7	B2/1000		
BM (30°-60°)	2913.2	18.2	B3/5000		
BH (60°-80°)	4408.8	27.5	B4/5000		G2/5000
BVH (80°-90°)	91.6	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1462.0	1462.0	1462.0	1462.0	1462.0	1462.0	1462.0	1462.0	1462.0	1462.0
2.5°	1452.8	1457.0	1455.3	1452.0	1452.0	1449.5	1452.0	1453.7	1456.2	1457.8
5°	1433.7	1437.0	1436.2	1433.7	1434.5	1432.0	1433.7	1436.2	1437.8	1438.7
7.5°	1417.0	1420.3	1418.7	1414.5	1414.5	1412.0	1412.8	1415.3	1417.8	1418.7
10°	1412.8	1416.2	1411.2	1404.5	1402.0	1398.7	1399.5	1402.0	1407.0	1409.5
12.5°	1414.5	1417.0	1412.0	1402.0	1399.5	1396.2	1396.2	1398.7	1405.3	1408.7
15°	1419.5	1422.0	1414.5	1403.7	1401.2	1398.7	1397.8	1401.2	1408.7	1414.5
17.5°	1428.7	1431.2	1419.5	1404.5	1401.2	1402.0	1401.2	1403.7	1415.3	1426.2
20°	1437.0	1438.7	1422.8	1404.5	1401.2	1402.0	1401.2	1406.2	1421.2	1436.2
22.5°	1439.5	1441.2	1426.2	1410.3	1407.8	1408.7	1407.8	1412.8	1427.0	1442.0
25°	1440.3	1442.8	1431.2	1418.7	1422.8	1424.5	1422.8	1423.7	1434.5	1447.8
27.5°	1452.8	1456.2	1445.3	1434.5	1437.0	1436.2	1438.7	1441.2	1449.5	1462.8
30°	1478.6	1481.1	1472.0	1461.2	1459.5	1453.7	1461.2	1469.5	1478.6	1490.3
32.5°	1521.1	1526.1	1514.5	1502.8	1495.3	1492.0	1497.8	1512.0	1524.5	1537.0
35°	1591.9	1595.3	1584.4	1562.8	1549.5	1549.5	1554.5	1572.8	1592.8	1608.6
37.5°	1691.9	1696.1	1676.9	1651.1	1631.1	1631.1	1637.8	1656.9	1686.9	1709.4
40°	1813.5	1819.4	1795.2	1768.5	1749.4	1746.1	1754.4	1776.0	1804.4	1832.7
42.5°	1960.1	1966.8	1935.2	1911.8	1896.8	1896.8	1901.0	1921.0	1946.8	1981.8
45°	2147.6	2159.2	2115.9	2092.6	2078.4	2081.8	2084.3	2101.8	2125.1	2165.1
47.5°	2370.8	2382.5	2336.7	2312.5	2310.0	2325.8	2315.9	2328.3	2340.8	2386.7
50°	2624.1	2644.1	2612.4	2610.7	2615.7	2644.9	2621.6	2628.2	2614.1	2643.2
52.5°	2934.0	2963.1	2957.3	2967.3	3023.1	3083.1	3029.8	3006.4	2953.1	2962.3
55°	3309.7	3353.8	3362.1	3422.1	3548.8	3671.2	3557.9	3463.8	3350.5	3329.7
57.5°	3737.0	3772.0	3812.0	3934.4	4171.0	4388.5	4171.0	3962.8	3784.5	3742.0
60°	4196.9	4240.2	4278.5	4459.3	4810.8	5116.5	4804.1	4473.4	4237.7	4180.2
62.5°	4690.8	4746.7	4773.3	4974.1	5383.9	5748.8	5389.8	4989.1	4727.5	4665.9
65°	5164.8	5210.7	5240.7	5454.7	5846.3	6212.0	5872.9	5478.1	5209.0	5128.2
67.5°	5385.6	5410.6	5483.9	5726.3	6139.5	6556.9	6209.5	5752.1	5451.4	5309.8
70°	5062.4	5011.6	5188.2	5576.4	6174.5	6768.4	6254.5	5564.7	5196.5	4966.6
72.5°	3912.0	3824.5	4131.0	4795.0	5774.6	6633.5	5814.6	4832.5	4321.8	3855.3
75°	2128.4	2029.3	2452.5	3292.2	4605.0	5749.6	4710.8	3386.3	2730.7	2112.6
77.5°	600.6	563.1	904.7	1592.8	2769.9	4036.9	2876.5	1627.8	1073.0	636.4
80°	184.1	178.3	241.6	479.8	1176.3	1933.5	1130.4	485.7	307.4	194.1
82.5°	109.1	100.0	120.0	174.9	299.9	607.3	291.6	182.4	146.6	98.3
85°	62.5	58.3	70.8	85.0	100.8	129.1	84.1	86.6	78.3	52.5
87.5°	25.8	23.3	27.5	26.7	23.3	30.0	22.5	26.7	31.7	20.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
1462.0
1457.0
1438.7
1418.7
1409.5
1409.5
1415.3
1426.2
1437.0
1442.0
1447.0
1459.5
1487.8
1532.0
1602.8
1701.1
1823.5
1979.3
2163.4
2373.3
2625.7
2931.5
3297.2
3712.0
4130.2
4615.9
5088.2
5311.5
5021.6
3971.1
2250.0
707.3
204.9
106.6
55.0
19.2
0.0

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