

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: P940050

Luminaire Tested: **GALN-SB2D-940-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940050
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-SB2D-940-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14916 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

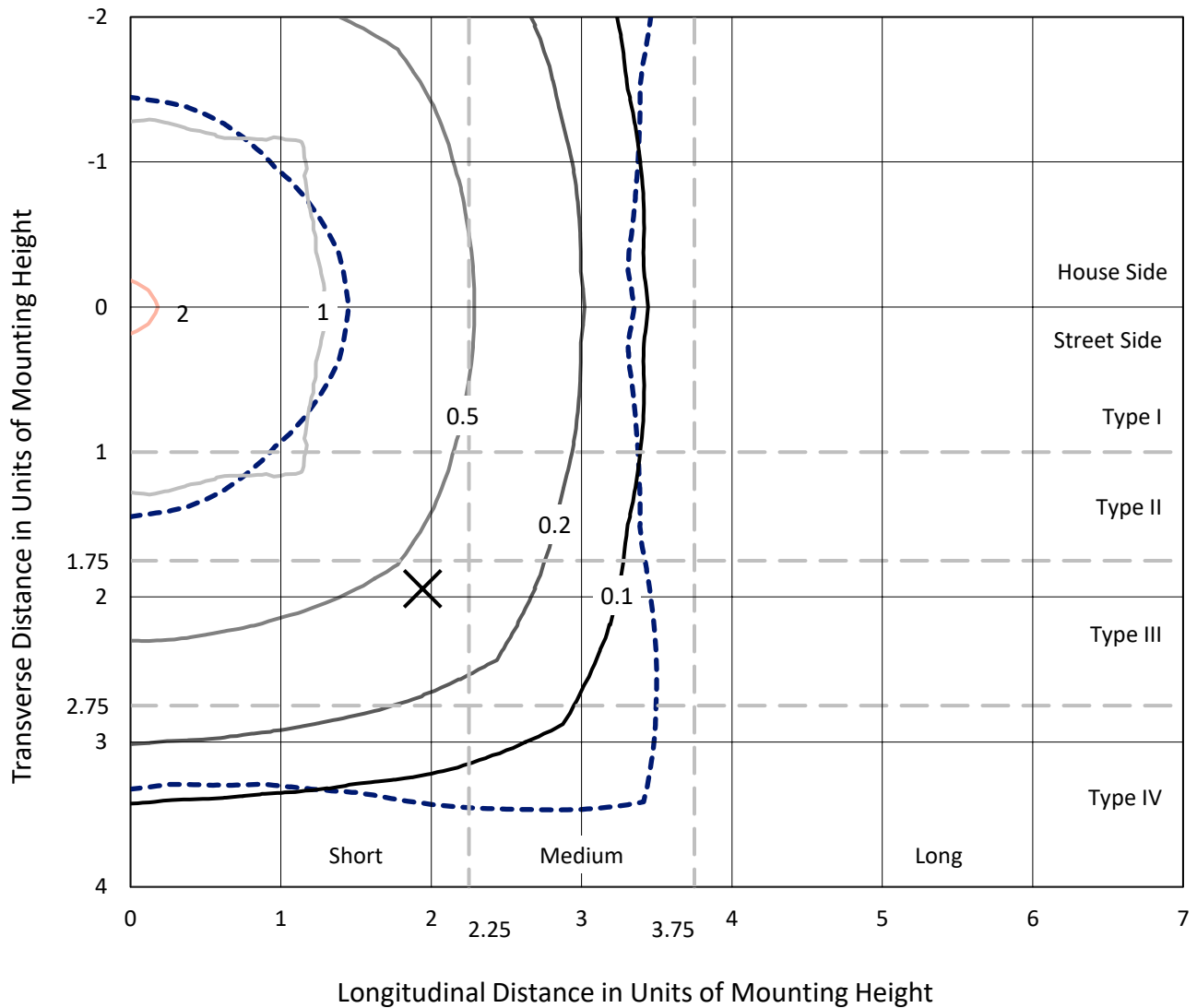
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

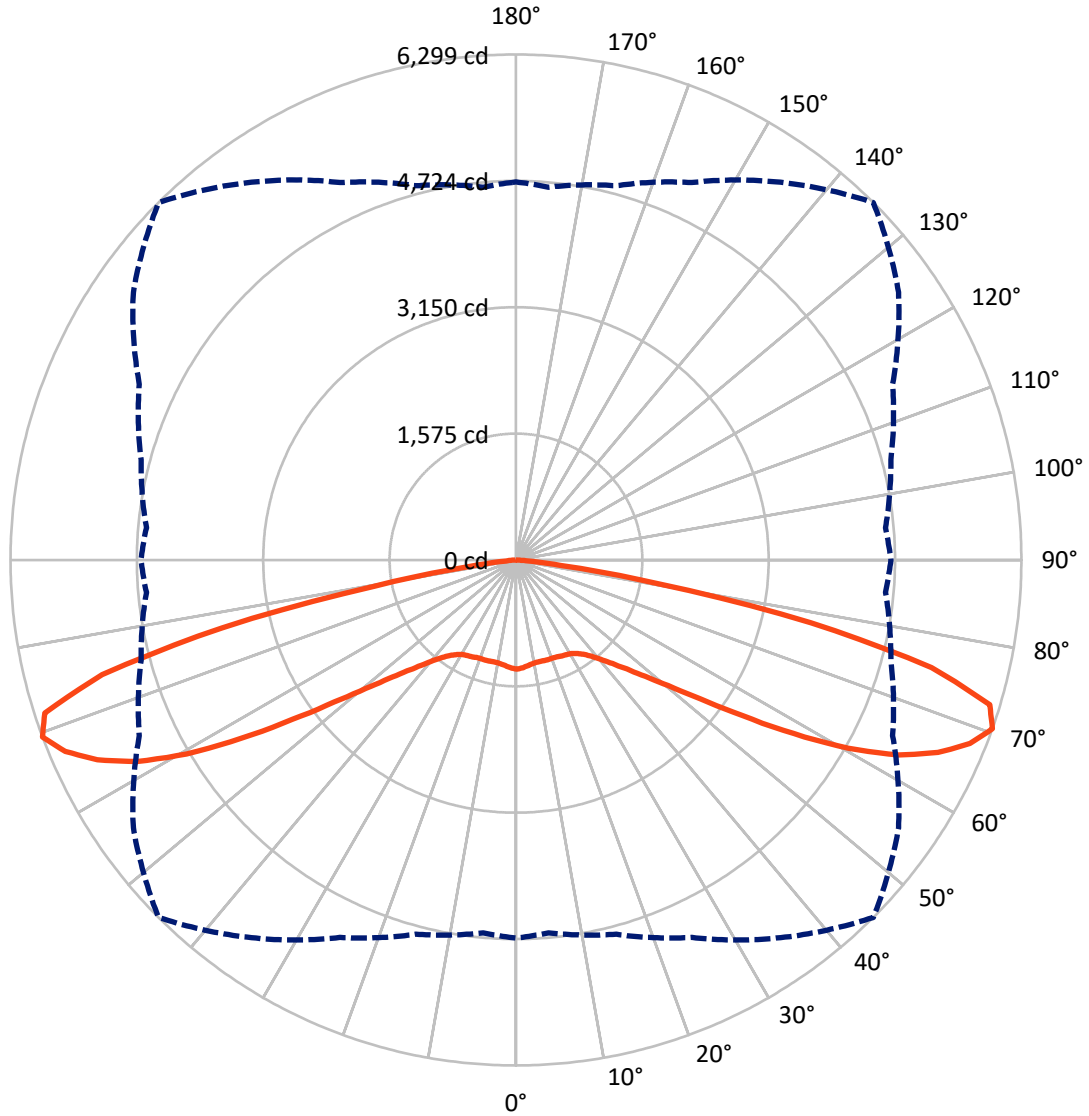
✕ Max cd
 - - - 1/2 Max cd



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	7458.0	0.0	7458.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7458.0	0.0	7458.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	14916.0	0.0	14916.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.6	0.8
10°-20°	371.6	2.5
20°-30°	618.5	4.1
30°-40°	935.3	6.3
40°-50°	1554.3	10.4
50°-60°	2932.8	19.7
60°-70°	4952.2	33.2
70°-80°	3254.1	21.8
80°-90°	170.5	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°	14916.0	100.0
0°-180°	14916.0	100.0

Coefficient of Utilization



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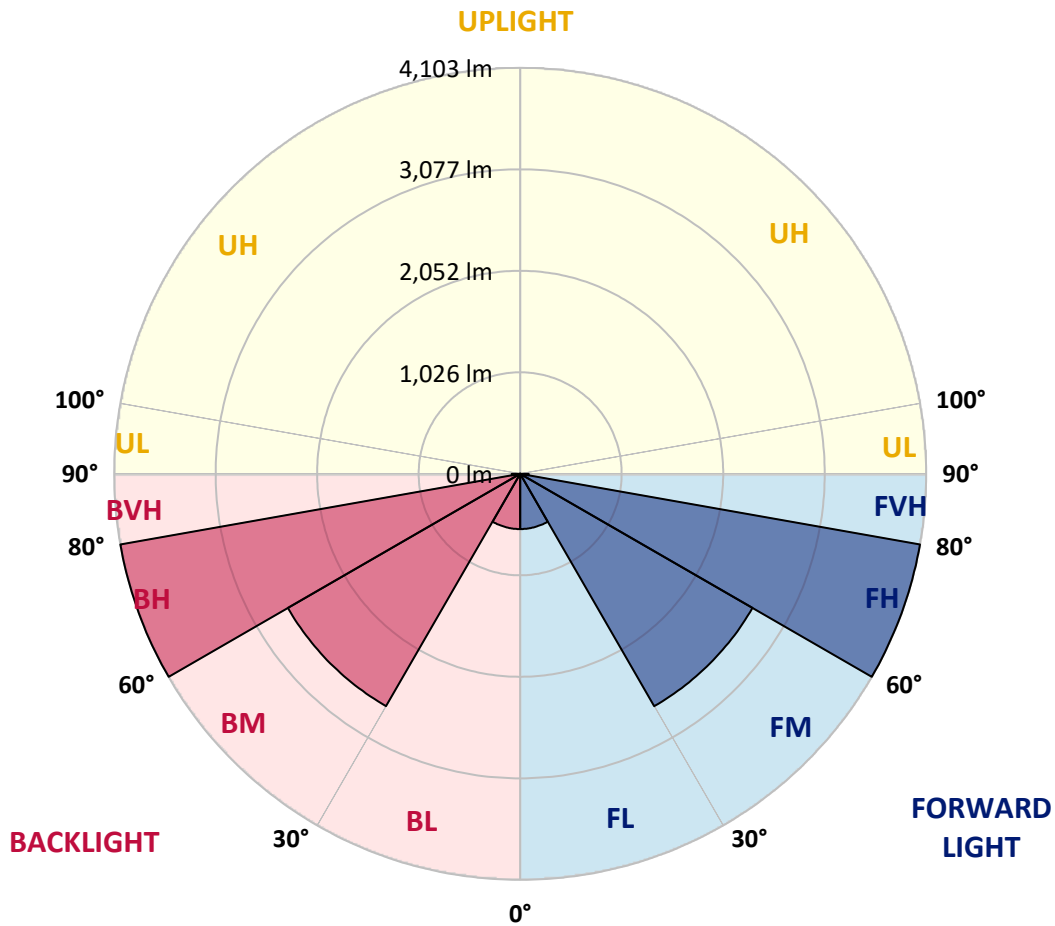
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	558.3	3.7			
FM	(30°-60°)	2711.2	18.2			
FH	(60°-80°)	4103.2	27.5			G2/5000
FVH	(80°-90°)	85.2	0.6			G1/100
BL	(0°-30°)	558.3	3.7	B2/1000		
BM	(30°-60°)	2711.2	18.2	B3/5000		
BH	(60°-80°)	4103.2	27.5	B4/5000		G2/5000
BVH	(80°-90°)	85.2	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°	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6
2.5°	1352.1	1356.0	1354.4	1351.3	1351.3	1349.0	1351.3	1352.9	1355.2	1356.8
5°	1334.3	1337.4	1336.6	1334.3	1335.1	1332.7	1334.3	1336.6	1338.2	1338.9
7.5°	1318.8	1321.9	1320.3	1316.4	1316.4	1314.1	1314.9	1317.2	1319.5	1320.3
10°	1314.9	1318.0	1313.3	1307.1	1304.8	1301.7	1302.5	1304.8	1309.5	1311.8
12.5°	1316.4	1318.8	1314.1	1304.8	1302.5	1299.4	1299.4	1301.7	1307.9	1311.0
15°	1321.1	1323.4	1316.4	1306.4	1304.0	1301.7	1300.9	1304.0	1311.0	1316.4
17.5°	1329.6	1332.0	1321.1	1307.1	1304.0	1304.8	1304.0	1306.4	1317.2	1327.3
20°	1337.4	1338.9	1324.2	1307.1	1304.0	1304.8	1304.0	1308.7	1322.7	1336.6
22.5°	1339.7	1341.3	1327.3	1312.6	1310.2	1311.0	1310.2	1314.9	1328.1	1342.0
25°	1340.5	1342.8	1332.0	1320.3	1324.2	1325.8	1324.2	1325.0	1335.1	1347.5
27.5°	1352.1	1355.2	1345.1	1335.1	1337.4	1336.6	1338.9	1341.3	1349.0	1361.4
30°	1376.1	1378.5	1369.9	1359.9	1358.3	1352.9	1359.9	1367.6	1376.1	1387.0
32.5°	1415.7	1420.3	1409.5	1398.6	1391.7	1388.6	1394.0	1407.2	1418.8	1430.4
35°	1481.6	1484.7	1474.6	1454.4	1442.0	1442.0	1446.7	1463.8	1482.4	1497.1
37.5°	1574.6	1578.5	1560.7	1536.6	1518.0	1518.0	1524.2	1542.1	1570.0	1590.9
40°	1687.8	1693.2	1670.8	1645.9	1628.1	1625.0	1632.8	1652.9	1679.3	1705.6
42.5°	1824.3	1830.5	1801.0	1779.3	1765.3	1765.3	1769.2	1787.8	1811.9	1844.4
45°	1998.7	2009.6	1969.2	1947.5	1934.4	1937.5	1939.8	1956.1	1977.8	2015.0
47.5°	2206.5	2217.3	2174.7	2152.2	2149.9	2164.6	2155.3	2166.9	2178.6	2221.2
50°	2442.2	2460.8	2431.3	2429.8	2434.4	2461.6	2439.8	2446.0	2432.9	2460.0
52.5°	2730.6	2757.7	2752.3	2761.6	2813.5	2869.4	2819.7	2798.0	2748.4	2756.9
55°	3080.2	3121.3	3129.1	3184.9	3302.7	3416.7	3311.3	3223.7	3118.2	3098.8
57.5°	3478.0	3510.5	3547.7	3661.7	3881.9	4084.2	3881.9	3688.1	3522.2	3482.6
60°	3905.9	3946.2	3981.9	4150.1	4477.3	4761.9	4471.1	4163.3	3943.9	3890.4
62.5°	4365.7	4417.6	4442.4	4629.3	5010.7	5350.3	5016.1	4643.2	4399.8	4342.4
65°	4806.8	4849.5	4877.4	5076.6	5441.0	5781.4	5465.8	5098.3	4847.9	4772.7
67.5°	5012.3	5035.5	5103.8	5329.4	5713.9	6102.3	5779.0	5353.4	5073.5	4941.7
70°	4711.5	4664.2	4828.5	5189.8	5746.5	6299.3	5820.9	5179.0	4836.3	4622.3
72.5°	3640.8	3559.4	3844.7	4462.6	5374.3	6173.7	5411.5	4497.5	4022.2	3588.1
75°	1980.9	1888.6	2282.5	3064.0	4285.8	5351.1	4384.3	3151.6	2541.4	1966.1
77.5°	559.0	524.1	842.0	1482.4	2577.8	3757.1	2677.1	1514.9	998.6	592.3
80°	171.3	165.9	224.8	446.6	1094.7	1799.5	1052.1	452.0	286.1	180.6
82.5°	101.6	93.0	111.6	162.8	279.1	565.2	271.4	169.8	136.5	91.5
85°	58.1	54.3	65.9	79.1	93.8	120.2	78.3	80.6	72.9	48.8
87.5°	24.0	21.7	25.6	24.8	21.7	27.9	20.9	24.8	29.5	19.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
1360.6
1356.0
1338.9
1320.3
1311.8
1311.8
1317.2
1327.3
1337.4
1342.0
1346.7
1358.3
1384.7
1425.8
1491.7
1583.1
1697.1
1842.1
2013.4
2208.8
2443.7
2728.3
3068.6
3454.7
3843.9
4295.9
4735.5
4943.3
4673.5
3695.8
2094.1
658.2
190.7
99.2
51.2
17.8
0.0

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