

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: P940056

Luminaire Tested: **GALN-SB2D-940-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P940056  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)  
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-T3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11565 lumens  
Efficiency: N/A  
Efficacy: 78.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - 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

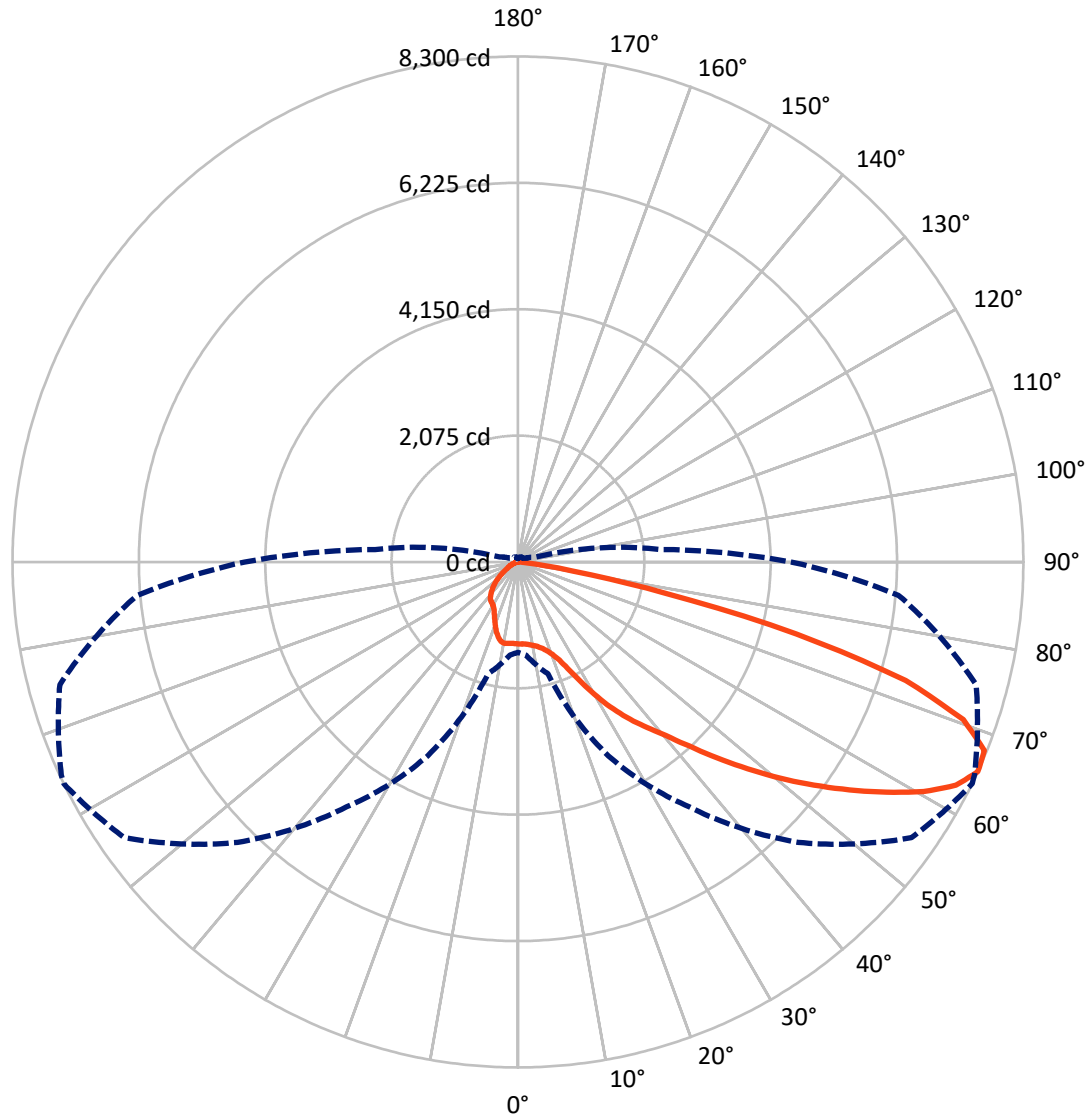
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1546.6	0.0	1546.6
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	10018.4	0.0	10018.4
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	11565.0	0.0	11565.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	124.1	1.1
10°-20°	336.6	2.9
20°-30°	637.8	5.5
30°-40°	1290.7	11.2
40°-50°	2198.7	19.0
50°-60°	2990.0	25.9
60°-70°	2807.8	24.3
70°-80°	1124.9	9.7
80°-90°	54.5	0.5
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°	11565.0	100.0
0°-180°	11565.0	100.0

**Coefficient of Utilization**



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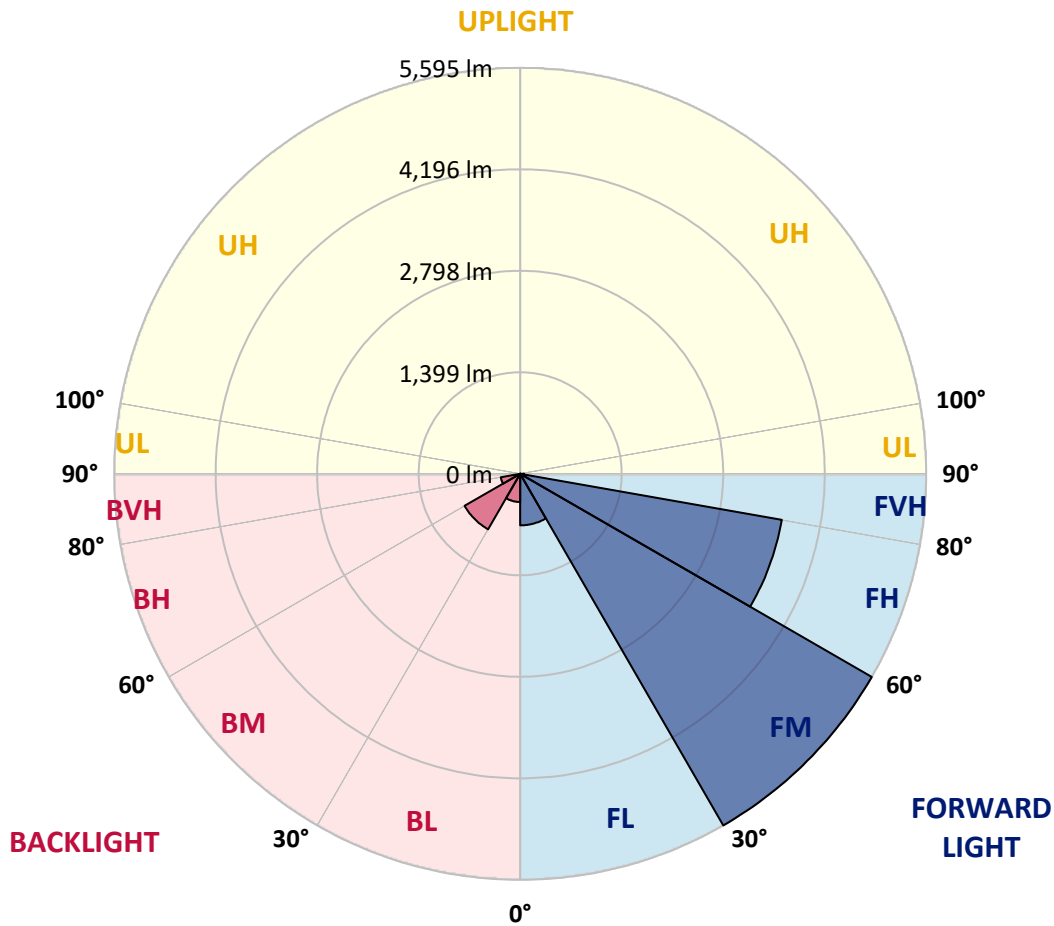
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	710.2	6.1			
FM (30°-60°)	5595.1	48.4			
FH (60°-80°)	3661.2	31.7			G2/5000
FVH (80°-90°)	51.8	0.4			G1/100
BL (0°-30°)	388.3	3.4	B1/500		
BM (30°-60°)	884.2	7.6	B1/1000		
BH (60°-80°)	271.5	2.3	B1/500		G1/500
BVH (80°-90°)	2.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	1345.1	1345.1	1345.1	1345.1	1345.1	1345.1	1345.1	1345.1	1345.1	1345.1
2.5°	1340.5	1349.8	1347.5	1345.1	1344.4	1345.9	1346.7	1345.9	1345.9	1345.9
5°	1314.9	1322.6	1322.6	1328.1	1335.8	1345.1	1352.1	1353.7	1355.2	1357.5
7.5°	1266.0	1272.3	1276.9	1294.7	1314.1	1338.9	1359.9	1370.7	1372.3	1380.8
10°	1232.7	1240.5	1248.2	1266.8	1294.7	1331.9	1367.6	1394.0	1397.8	1418.0
12.5°	1231.2	1238.9	1249.0	1269.2	1301.7	1341.3	1384.7	1422.7	1429.6	1459.1
15°	1247.4	1256.7	1266.0	1290.9	1325.7	1373.8	1420.3	1467.6	1474.6	1516.5
17.5°	1280.8	1293.2	1300.2	1325.0	1362.2	1415.7	1476.9	1531.2	1537.4	1586.2
20°	1346.7	1361.4	1363.7	1383.9	1420.3	1477.7	1550.6	1618.0	1625.8	1681.6
22.5°	1483.1	1504.1	1485.5	1495.5	1528.1	1585.5	1664.5	1749.8	1760.7	1824.3
25°	1723.5	1752.9	1704.9	1687.8	1701.8	1761.5	1860.7	1968.5	1980.9	2032.0
27.5°	2195.6	2157.6	2084.8	2013.4	1971.6	2005.7	2117.3	2250.7	2266.2	2315.8
30°	2714.3	2681.0	2582.5	2424.3	2325.1	2319.7	2422.8	2571.6	2589.5	2636.8
32.5°	3233.7	3202.0	3095.0	2900.4	2728.2	2643.0	2714.3	2879.4	2888.7	2919.0
35°	3744.7	3712.1	3605.1	3405.9	3194.2	3000.4	2986.4	3172.5	3175.6	3207.4
37.5°	4258.7	4231.5	4117.6	3922.2	3713.6	3446.2	3316.7	3450.0	3453.9	3484.9
40°	4625.4	4637.0	4558.7	4407.5	4228.4	3936.2	3687.3	3745.4	3722.2	3774.1
42.5°	4940.2	4963.4	4895.2	4819.2	4715.3	4457.9	4146.3	4136.2	4099.0	4126.9
45°	5212.3	5231.7	5170.4	5152.6	5150.3	4969.6	4647.9	4587.4	4535.5	4530.0
47.5°	5312.3	5349.5	5375.9	5435.6	5551.9	5475.9	5166.5	5072.7	5014.6	4971.9
50°	5350.3	5389.8	5479.8	5653.4	5928.6	5961.2	5682.9	5577.4	5506.1	5428.6
52.5°	5299.1	5369.7	5490.6	5782.9	6182.2	6350.4	6178.3	6086.0	6004.6	5878.3
55°	4997.5	5068.1	5315.4	5781.3	6308.5	6623.3	6646.6	6605.5	6514.0	6314.7
57.5°	4361.8	4466.5	4858.0	5584.4	6306.2	6858.2	7105.5	7135.0	7032.7	6747.4
60°	3481.1	3622.9	4100.5	5147.9	6111.6	6985.4	7507.9	7655.2	7546.7	7173.8
62.5°	2429.0	2593.3	3045.3	4464.1	5666.6	6893.9	7801.8	8073.9	7991.7	7555.2
65°	1481.6	1534.3	1898.7	3512.8	4909.9	6510.9	7892.5	8300.3	8273.1	7788.6
67.5°	986.9	1031.1	1135.8	2408.8	3811.3	5745.7	7675.4	8260.7	8268.5	7750.6
70°	594.6	632.6	700.9	1401.0	2470.1	4547.9	7003.2	7756.8	7801.8	7242.8
72.5°	245.0	270.6	332.6	635.0	1279.2	2886.4	5576.7	6659.7	6764.4	6089.9
75°	138.8	152.0	195.4	318.6	555.1	1345.1	3377.9	4727.7	4882.0	4197.4
77.5°	92.3	98.5	126.4	206.2	312.4	459.0	1443.6	2463.1	2757.7	2292.5
80°	62.0	67.5	86.8	138.0	203.1	196.9	459.7	912.5	1122.6	787.7
82.5°	41.9	42.6	62.0	90.7	128.7	95.4	135.7	283.8	356.6	227.9
85°	24.0	23.3	45.7	52.7	57.4	39.5	41.1	85.3	111.6	96.1
87.5°	3.1	4.7	17.8	14.0	7.8	8.5	8.5	14.7	21.7	23.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1345.1	0°	1345.1	1345.1	1345.1	1345.1	1345.1	1345.1	1345.1	1345.1	1345.1	1345.1
1346.7	2.5°	1346.7	1345.9	1343.6	1341.3	1335.8	1332.7	1334.3	1332.7	1331.9	1332.7
1356.8	5°	1356.8	1354.4	1348.2	1340.5	1329.6	1316.4	1307.9	1295.5	1283.9	1276.9
1383.9	7.5°	1383.9	1381.6	1373.0	1351.3	1316.4	1261.4	1211.0	1166.8	1133.5	1114.1
1427.3	10°	1427.3	1423.4	1410.3	1362.2	1270.7	1150.5	1050.5	967.6	913.3	887.7
1478.5	12.5°	1478.5	1473.8	1450.6	1352.1	1183.9	996.2	858.2	766.0	715.6	693.1
1537.4	15°	1539.0	1532.7	1487.0	1304.0	1057.5	825.7	699.3	630.3	597.7	577.6
1612.6	17.5°	1614.2	1603.3	1514.1	1231.9	920.3	695.4	601.6	549.7	521.0	501.6
1711.1	20°	1711.8	1694.0	1535.9	1145.9	793.9	613.3	535.7	492.3	470.6	453.5
1850.6	22.5°	1848.3	1822.7	1562.2	1052.8	704.7	556.7	486.9	455.1	437.3	417.9
2045.2	25°	2017.3	1987.1	1594.8	966.8	643.5	507.8	451.2	424.9	403.9	381.4
2300.3	27.5°	2253.8	2199.5	1633.5	896.2	590.8	465.9	418.7	389.2	365.2	346.6
2589.5	30°	2517.4	2428.2	1667.7	853.6	542.7	427.2	376.0	346.6	324.1	310.9
2849.2	32.5°	2767.0	2646.1	1690.1	835.0	499.3	383.0	329.5	297.7	280.7	276.8
3103.5	35°	3002.7	2843.0	1687.8	817.2	460.5	338.8	283.8	251.2	238.0	240.3
3377.2	37.5°	3274.1	3053.1	1671.5	789.2	428.7	298.5	244.2	215.5	203.9	204.7
3709.8	40°	3589.6	3295.8	1661.4	736.5	393.8	261.3	211.7	188.4	179.9	176.8
4060.2	42.5°	3926.1	3530.7	1663.0	676.8	350.4	227.9	189.2	169.8	162.0	159.7
4450.2	45°	4264.1	3754.7	1665.3	614.8	304.7	202.4	172.9	156.6	152.0	148.9
4845.6	47.5°	4582.0	3945.5	1621.9	548.1	259.7	183.0	159.7	148.9	145.0	141.1
5242.5	50°	4878.1	4072.6	1517.2	470.6	224.1	167.5	149.6	141.9	138.0	134.1
5602.3	52.5°	5108.4	4092.8	1344.4	390.7	199.2	155.8	143.4	136.5	131.8	127.9
5893.0	55°	5210.7	3966.4	1098.6	316.3	179.9	145.8	137.2	130.2	124.8	120.9
6121.7	57.5°	5184.4	3700.5	856.7	254.3	161.3	135.7	129.5	124.8	118.6	112.4
6307.0	60°	5054.9	3344.6	645.8	211.7	144.2	124.8	120.9	117.1	108.5	99.2
6378.3	62.5°	4830.8	2897.3	460.5	175.2	125.6	112.4	110.9	107.8	95.4	78.3
6272.9	65°	4488.2	2353.8	310.1	145.8	107.8	98.5	99.2	93.8	77.5	58.1
5886.8	67.5°	3987.3	1721.1	198.5	119.4	89.9	82.2	83.0	79.9	65.9	49.6
5154.9	70°	3349.3	1139.7	129.5	90.7	72.1	63.6	68.2	69.0	55.8	40.3
3956.3	72.5°	2455.3	673.0	90.7	67.5	52.7	44.2	55.8	57.4	45.0	30.2
2380.1	75°	1399.4	319.4	68.2	48.8	32.6	31.0	43.4	43.4	31.0	20.2
1030.4	77.5°	587.7	133.4	48.1	31.8	18.6	17.8	29.5	27.1	15.5	9.3
251.2	80°	169.8	59.7	25.6	15.5	7.8	7.0	11.6	8.5	3.9	1.6
95.4	82.5°	66.7	26.4	10.1	6.2	3.1	3.1	1.6	0.0	0.0	0.0
54.3	85°	39.5	10.9	4.7	2.3	0.8	0.0	0.0	0.0	0.0	0.0
11.6	87.5°	10.1	2.3	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

<u>180°</u>
1345.1
1335.8
1278.5
1114.9
885.4
690.8
578.4
500.1
450.4
414.8
379.1
342.7
308.6
279.1
240.3
207.8
176.0
158.9
148.9
141.1
134.1
127.1
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