

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P938203

Luminaire Tested: SQ4-FB-125U-125D-B40-1D-UNV-W2A-W-6

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P938203
REPORT IS A COMBINATION OF REPORTS P933608 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-125U-125D-B40-1D-UNV-W2A-W-6
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

Summary

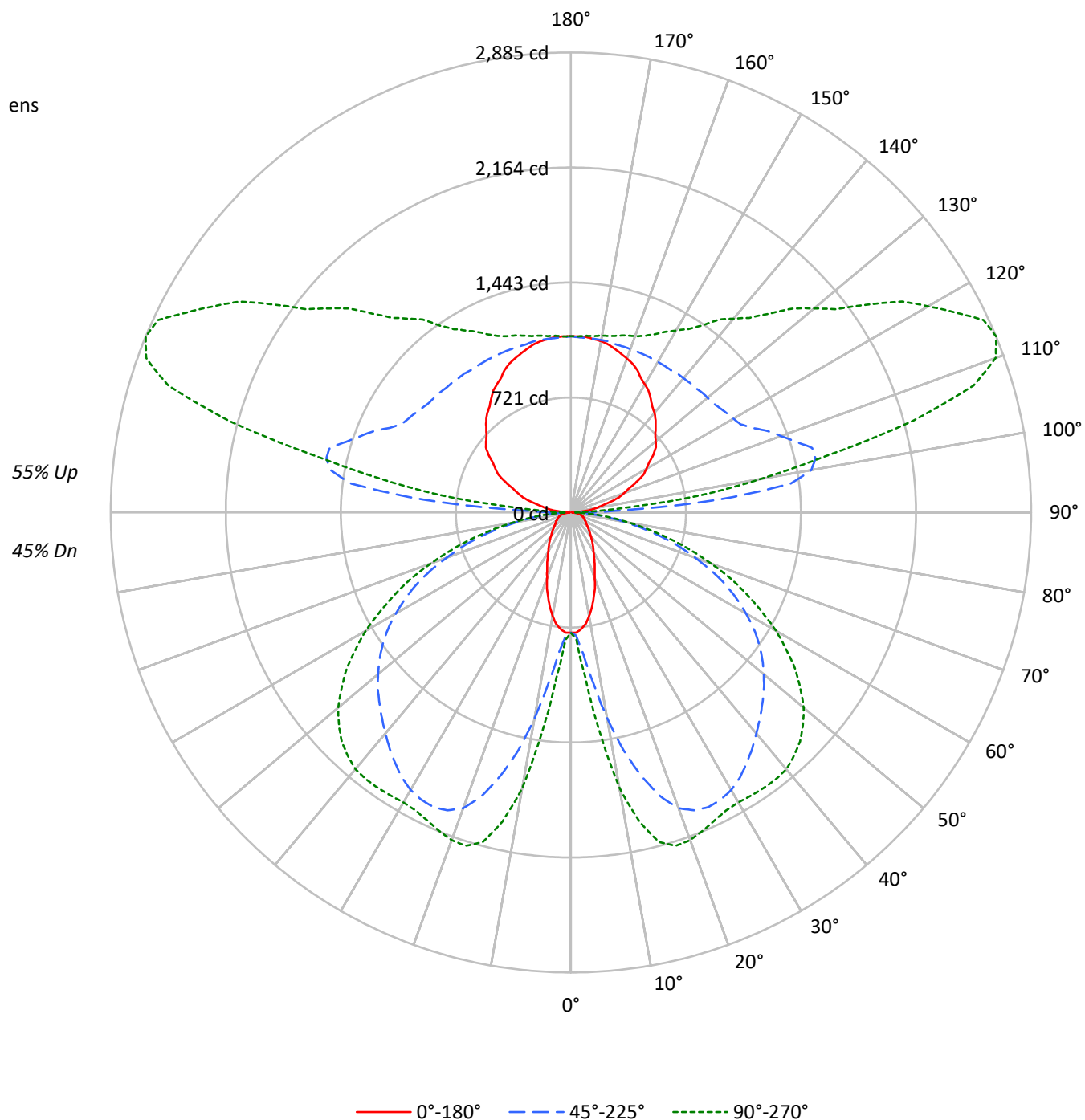
Lumens per Lamp: N/A
Luminaire Lumens: 13000.4 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 112.8
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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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51
1	96	92	88	84	88	84	81	77	70	67	65	57	55	53	45	44	42
2	87	79	73	68	79	73	67	63	61	56	53	49	46	44	39	37	35
3	79	69	62	56	72	64	57	52	53	48	44	43	39	36	34	31	29
4	72	61	53	47	66	56	49	43	47	41	37	38	34	31	30	27	25
5	66	54	46	39	60	50	42	37	41	36	31	34	29	26	27	23	21
6	60	48	40	34	55	44	37	31	37	31	27	30	26	23	24	21	18
7	56	43	35	29	51	40	32	27	33	28	23	27	23	20	22	18	16
8	52	39	31	26	47	36	29	24	30	25	21	25	20	17	20	16	14
9	48	35	28	23	44	33	26	21	27	22	18	23	18	15	18	15	12
10	45	32	25	20	41	30	23	19	25	20	16	21	17	14	17	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4664	4664	4664
5°	4554	5389	6269
10°	4129	7854	10393
15°	3509	10258	12549
20°	2855	11884	12790
25°	2381	12433	12529
30°	2006	12509	12506
35°	1774	12298	12829
40°	1545	12025	13163
45°	1397	11823	13215
50°	1281	11641	12996
55°	1225	11377	12420
60°	1253	10873	11511
65°	1303	10107	10260
70°	1384	8808	8668
75°	1528	7177	6764
80°	1657	4971	4559
85°	1449	2632	2333

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 13215 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.5	0.8
10°-20°	432.2	3.3
20°-30°	756.0	5.8
30°-40°	973.2	7.5
40°-50°	1087.0	8.4
50°-60°	1041.1	8.0
60°-70°	825.1	6.3
70°-80°	485.2	3.7
80°-90°	139.0	1.1
90°-100°	538.7	4.1
100°-110°	1416.2	10.9
110°-120°	1468.5	11.3
120°-130°	1177.9	9.1
130°-140°	924.2	7.1
140°-150°	709.4	5.5
150°-160°	510.9	3.9
160°-170°	312.6	2.4
170°-180°	105.6	0.8
0°-30°	1285.7	9.9
0°-40°	2259.0	17.4
0°-60°	4387.1	33.7
0°-90°	5836.4	44.9
90°-120°	3423.4	26.3
90°-150°	6234.9	48.0
90°-180°	7164.0	55.1
0°-180°	13000.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	754	754	754	754	754	
5°	734	788	887	1004	1040	68
15°	550	1016	1712	2075	2140	153
25°	352	1151	2039	2128	2131	162
35°	238	1100	1920	2029	2109	148
45°	162	878	1697	1944	2031	126
55°	116	558	1440	1673	1719	106
65°	92	296	1069	1202	1219	91
75°	68	182	587	645	647	71
85°	24	56	145	160	162	26
90°	7	21	56	28	28	8
95°	71	279	928	478	326	79
105°	255	386	1566	2377	2218	271
115°	453	550	1254	2502	2855	448
125°	630	707	1141	1928	2274	560
135°	751	827	1105	1556	1764	581
145°	871	927	1091	1328	1431	546
155°	985	1012	1091	1198	1233	453
165°	1063	1077	1091	1134	1148	300
175°	1105	1105	1098	1113	1113	105
180°	1105	1105	1105	1105	1105	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	753.9	753.9	753.9	753.9	753.9	753.9	753.9	753.9	753.9	753.9	753.9
2.5°	753.9	753.9	758.7	761.1	766.0	768.5	773.3	778.1	792.6	795.1	800.0
5°	734.5	744.2	775.7	787.9	821.8	867.8	887.2	918.7	984.2	1003.6	1015.7
7.5°	705.5	727.2	804.8	824.2	909.1	1030.3	1081.2	1149.1	1253.2	1304.1	1345.4
10°	659.3	705.5	843.6	889.7	1027.9	1212.1	1306.6	1401.2	1558.8	1629.0	1655.7
12.5°	608.4	683.6	884.8	947.8	1146.6	1415.7	1529.6	1633.8	1813.3	1907.8	1922.3
15°	550.3	652.1	923.6	1015.7	1272.6	1585.4	1711.5	1839.9	2007.2	2075.0	2092.0
17.5°	499.4	627.8	960.0	1056.9	1369.7	1738.1	1866.5	1973.2	2109.0	2155.1	2167.2
20°	436.3	589.0	984.2	1110.3	1471.5	1849.6	1973.2	2055.6	2147.8	2176.8	2181.7
22.5°	390.3	547.9	998.7	1129.7	1539.4	1917.4	2021.7	2087.2	2150.2	2159.9	2162.3
25°	351.5	501.8	996.4	1151.4	1597.5	1958.7	2038.7	2087.2	2123.5	2128.4	2128.4
27.5°	315.2	450.9	986.6	1156.3	1641.2	1968.4	2031.4	2065.4	2082.3	2092.0	2092.0
30°	283.6	402.4	962.4	1146.6	1660.6	1958.7	2009.6	2026.6	2043.5	2058.1	2065.4
32.5°	259.4	356.3	926.0	1127.2	1662.9	1934.4	1970.8	1980.5	2004.7	2038.7	2050.8
35°	237.6	310.3	884.8	1100.5	1648.4	1895.7	1919.9	1929.6	1978.1	2029.0	2046.0
37.5°	215.7	276.4	831.5	1054.5	1626.6	1849.6	1866.5	1883.5	1958.7	2019.3	2038.7
40°	194.0	247.2	768.5	1003.6	1592.7	1793.9	1808.4	1835.0	1934.4	2004.7	2024.1
42.5°	177.0	223.0	700.6	950.2	1549.0	1730.8	1752.6	1791.4	1905.3	1980.5	2002.3
45°	162.4	198.7	627.8	877.5	1493.2	1665.3	1696.8	1750.2	1871.4	1944.2	1963.6
47.5°	147.8	181.8	552.7	802.4	1432.7	1599.9	1641.2	1701.7	1825.4	1895.7	1912.7
50°	135.7	164.8	477.6	722.4	1367.2	1529.6	1578.1	1641.2	1767.2	1832.6	1854.4
52.5°	126.1	150.3	407.2	642.4	1292.0	1456.9	1512.6	1578.1	1696.8	1759.9	1774.5
55°	116.3	138.2	346.7	557.5	1214.5	1379.3	1439.9	1503.0	1619.3	1672.7	1682.3
57.5°	111.5	128.4	295.8	477.6	1132.1	1292.0	1359.9	1418.1	1527.2	1568.4	1578.1
60°	104.2	121.2	257.0	409.7	1042.4	1209.6	1267.9	1326.0	1418.1	1452.1	1459.3
62.5°	96.9	116.3	227.9	344.2	950.2	1112.7	1170.8	1224.2	1301.8	1326.0	1335.7
65°	92.2	111.5	206.1	295.8	855.7	1010.9	1069.0	1115.1	1178.1	1202.3	1207.2
67.5°	87.3	106.7	189.1	254.5	761.1	909.1	952.7	996.4	1044.8	1069.0	1071.5
70°	80.0	101.8	174.6	225.5	664.2	792.6	829.0	875.1	913.9	926.0	933.3
72.5°	75.2	94.5	164.8	203.6	564.8	681.2	715.1	741.7	775.7	787.9	787.9
75°	67.9	84.8	155.2	181.8	463.0	557.5	586.7	613.3	639.9	644.8	637.6
77.5°	60.6	75.2	133.3	152.7	361.2	441.2	465.5	480.0	501.8	506.6	509.1
80°	50.9	65.4	104.2	118.8	261.8	324.8	341.8	353.9	373.3	373.3	378.2
82.5°	38.8	50.9	75.2	84.8	177.0	223.0	237.6	244.9	257.0	257.0	257.0
85°	24.3	31.5	48.5	55.8	106.7	135.7	145.4	147.8	157.6	160.0	160.0
87.5°	12.1	17.0	31.5	33.9	55.8	70.3	70.3	75.2	75.2	72.8	70.3
90°	7.4	13.4	19.3	20.7	32.6	48.4	56.3	50.0	37.5	28.2	28.2
92.5°	29.7	80.1	130.5	143.2	201.2	278.7	317.4	278.2	199.8	141.0	135.3
95°	71.2	163.5	255.7	278.9	495.2	783.7	927.9	828.0	628.2	478.4	461.4
97.5°	123.1	204.5	285.9	306.3	667.0	1148.0	1388.5	1325.3	1199.1	1104.4	1072.1
100°	163.2	237.0	310.9	329.3	729.5	1263.3	1530.1	1534.7	1543.9	1550.8	1512.3
102.5°	197.3	266.2	335.1	352.3	758.3	1299.5	1570.1	1650.5	1811.4	1932.1	1899.1
105°	255.2	313.5	371.8	386.4	779.5	1303.7	1565.7	1746.0	2106.6	2377.1	2359.3
107.5°	314.5	368.8	423.3	436.8	783.5	1245.6	1476.7	1728.3	2231.3	2608.5	2612.8
110°	354.5	403.6	452.7	465.0	777.5	1194.1	1402.5	1683.7	2246.1	2667.9	2686.3

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	393.8	440.6	487.4	499.2	777.8	1149.2	1335.0	1622.7	2198.3	2630.0	2658.3
115°	453.1	496.3	539.6	550.4	785.0	1097.8	1254.2	1531.4	2085.9	2501.7	2541.1
117.5°	511.8	551.0	590.2	600.0	799.5	1065.5	1198.5	1448.7	1949.2	2324.5	2368.0
120°	545.9	582.8	619.7	629.0	811.4	1054.6	1176.3	1404.9	1862.1	2205.0	2247.4
122.5°	579.3	616.5	653.8	663.1	828.5	1049.0	1159.3	1365.2	1776.9	2085.6	2127.4
125°	630.4	664.4	698.3	706.8	851.5	1044.3	1140.7	1315.6	1665.3	1927.7	1966.2
127.5°	671.9	706.2	740.5	749.1	874.5	1041.6	1125.2	1275.3	1575.7	1800.8	1833.3
130°	694.2	731.1	768.0	777.3	891.2	1043.1	1119.2	1252.9	1520.2	1720.7	1750.7
132.5°	717.2	754.2	791.0	800.3	904.9	1044.3	1114.0	1233.7	1473.0	1652.4	1679.3
135°	751.3	784.9	818.5	826.9	919.7	1043.3	1105.1	1205.3	1405.8	1556.1	1579.2
137.5°	786.2	819.5	852.8	861.1	941.9	1049.7	1103.6	1188.3	1357.7	1484.8	1503.7
140°	815.1	845.7	876.4	884.0	955.5	1050.8	1098.4	1171.6	1318.0	1427.7	1445.5
142.5°	837.3	865.7	894.1	901.1	966.9	1054.6	1098.4	1162.7	1291.3	1387.7	1403.0
145°	871.4	896.2	920.9	927.1	981.7	1054.6	1091.0	1143.6	1248.8	1327.6	1339.2
147.5°	905.6	929.7	953.8	959.8	1003.5	1061.9	1091.0	1132.3	1215.1	1277.2	1286.8
150°	927.9	949.7	971.3	976.8	1014.9	1065.6	1091.0	1125.9	1195.9	1248.3	1256.0
152.5°	950.8	967.3	983.8	987.9	1022.3	1068.1	1091.0	1120.8	1180.5	1225.3	1231.1
155°	985.0	997.2	1009.3	1012.4	1038.6	1073.5	1091.0	1114.8	1162.2	1197.9	1201.8
157.5°	1010.2	1022.0	1033.9	1036.8	1054.9	1079.0	1091.0	1109.4	1146.4	1174.1	1176.8
160°	1027.2	1036.5	1045.7	1048.0	1062.3	1081.4	1091.0	1106.8	1138.5	1162.2	1163.8
162.5°	1044.3	1051.2	1058.1	1059.9	1070.3	1084.1	1091.0	1104.4	1131.0	1151.1	1152.6
165°	1062.8	1069.1	1075.4	1077.0	1081.6	1087.8	1091.0	1100.5	1119.7	1134.1	1135.6
167.5°	1079.9	1082.9	1085.8	1086.6	1090.5	1095.8	1098.4	1104.7	1117.3	1126.6	1127.3
170°	1091.0	1094.0	1096.9	1097.7	1098.0	1098.2	1098.4	1104.7	1117.3	1126.6	1126.6
172.5°	1096.9	1097.6	1098.2	1098.4	1098.4	1098.4	1098.4	1103.4	1113.2	1120.7	1120.1
175°	1105.1	1105.1	1105.1	1105.1	1102.9	1100.0	1098.4	1101.6	1107.9	1112.6	1112.6
177.5°	1105.1	1105.1	1105.1	1105.1	1103.4	1101.0	1099.9	1102.4	1107.3	1111.0	1110.4
180°	1105.1	1105.1	1105.1	1105.1	1105.1	1105.1	1105.1	1105.1	1105.1	1105.1	1105.1

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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	753.9	753.9
2.5°	804.8	800.0
5°	1035.1	1040.0
7.5°	1393.9	1391.4
10°	1733.2	1755.1
12.5°	1980.5	1985.3
15°	2130.8	2140.5
17.5°	2189.0	2191.4
20°	2191.4	2186.6
22.5°	2164.7	2159.9
25°	2133.2	2130.8
27.5°	2104.2	2106.5
30°	2092.0	2099.3
32.5°	2092.0	2104.2
35°	2096.9	2109.0
37.5°	2094.4	2109.0
40°	2084.8	2101.7
42.5°	2058.1	2070.2
45°	2016.9	2031.4
47.5°	1963.6	1973.2
50°	1895.7	1905.3
52.5°	1810.8	1813.3
55°	1709.0	1718.7
57.5°	1599.9	1602.3
60°	1478.7	1486.0
62.5°	1350.3	1350.3
65°	1214.5	1219.3
67.5°	1073.9	1086.0
70°	930.8	933.3
72.5°	790.3	790.3
75°	644.8	647.2
77.5°	506.6	506.6
80°	375.7	378.2
82.5°	259.4	264.2
85°	162.4	162.4
87.5°	75.2	67.9
90°	28.2	28.2
92.5°	112.9	90.4
95°	393.5	325.6
97.5°	942.9	813.7
100°	1358.5	1204.5
102.5°	1767.2	1635.4
105°	2288.5	2217.6
107.5°	2629.9	2647.1
110°	2760.1	2834.0



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	2771.7	2885.2
115°	2698.3	2855.4
117.5°	2542.4	2716.8
120°	2416.8	2586.2
122.5°	2294.5	2461.6
125°	2120.1	2274.0
127.5°	1963.2	2093.1
130°	1870.7	1990.7
132.5°	1786.8	1894.2
135°	1671.8	1764.5
137.5°	1579.6	1655.4
140°	1516.3	1587.2
142.5°	1463.9	1524.9
145°	1385.3	1431.4
147.5°	1325.1	1363.3
150°	1287.1	1318.0
152.5°	1254.5	1277.9
155°	1217.2	1232.7
157.5°	1187.6	1198.5
160°	1170.1	1176.3
162.5°	1158.5	1164.4
165°	1141.9	1148.1
167.5°	1129.9	1132.5
170°	1126.6	1126.6
172.5°	1117.8	1115.5
175°	1112.6	1112.6
177.5°	1107.8	1105.1
180°	1105.1	1105.1

(END OF REPORT)