

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: P937403

Luminaire Tested: SQ4-FB-075U-125D-B40-1D-UNV-W2A-W-6

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P937403
REPORT IS A COMBINATION OF REPORTS P933512 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-075U-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

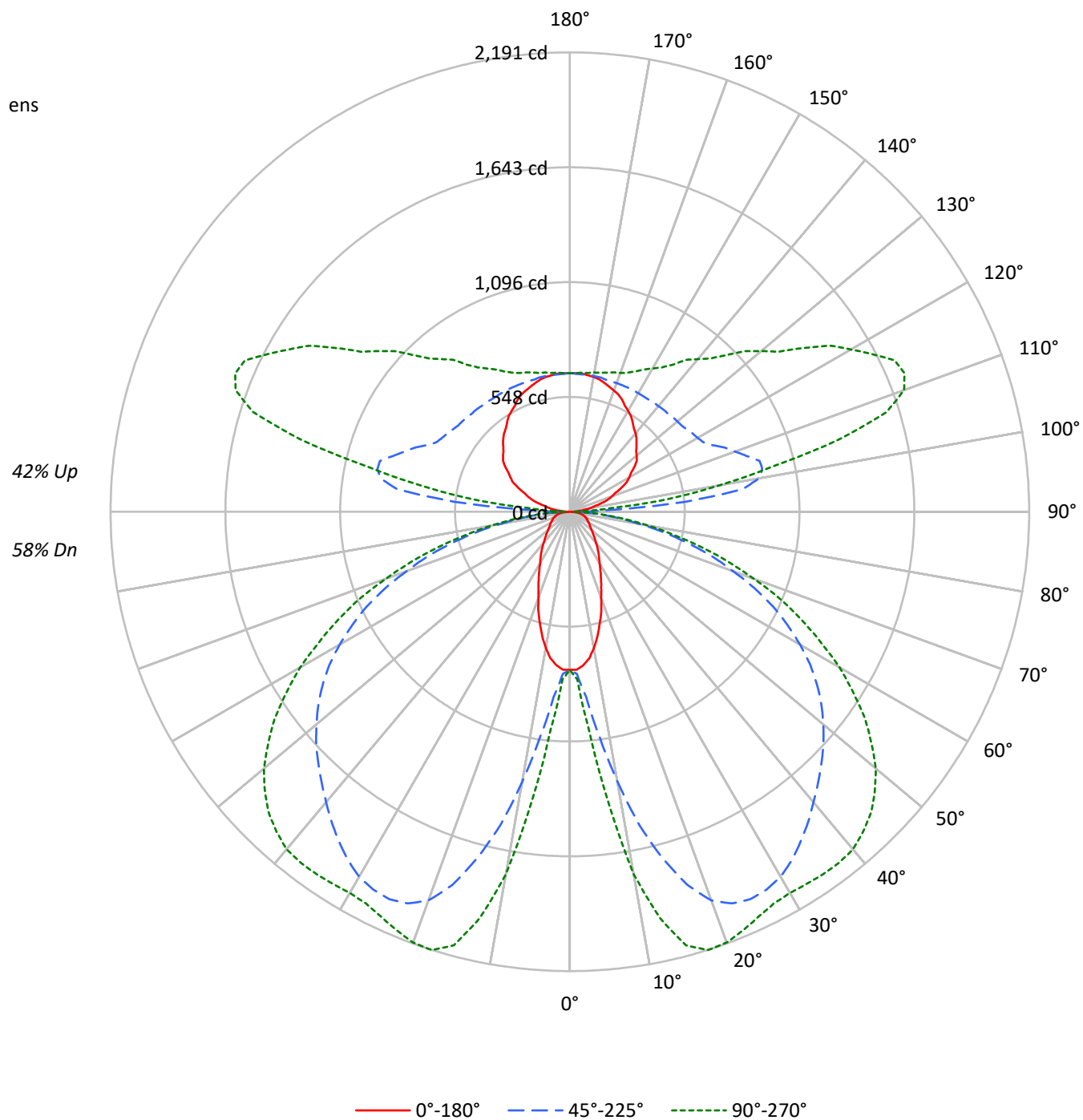
Lumens per Lamp: N/A
Luminaire Lumens: 10123.9 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 93
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	109	109	109	109		101	101	101	101		88	88	88		75	75	75		63	63	63
1	99	94	90	86		92	88	84	81		76	73	71		65	63	61		55	53	52
2	89	82	75	69		83	76	70	65		66	61	57		56	53	50		47	45	43
3	81	71	63	57		75	66	59	54		57	52	47		49	45	41		41	38	36
4	74	62	54	48		68	58	51	45		50	45	40		43	39	35		36	33	30
5	68	55	47	40		63	52	44	38		45	39	34		38	34	30		33	29	26
6	62	49	41	35		57	46	38	33		40	34	29		34	29	26		29	25	22
7	57	44	36	30		53	41	34	28		36	30	25		31	26	22		26	22	19
8	53	40	32	26		49	37	30	25		33	27	22		28	23	20		24	20	17
9	49	36	28	23		46	34	27	22		30	24	20		26	21	17		22	18	15
10	46	33	26	21		43	31	24	20		27	22	18		24	19	16		20	16	14

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	1.0
10°-20°	432.2	4.3
20°-30°	756.0	7.5
30°-40°	973.2	9.6
40°-50°	1087.0	10.7
50°-60°	1041.1	10.3
60°-70°	825.1	8.2
70°-80°	485.2	4.8
80°-90°	137.3	1.4
90°-100°	322.5	3.2
100°-110°	847.9	8.4
110°-120°	879.2	8.7
120°-130°	705.2	7.0
130°-140°	553.4	5.5
140°-150°	424.7	4.2
150°-160°	305.9	3.0
160°-170°	187.1	1.8
170°-180°	63.2	0.6
0°-30°	1285.7	12.7
0°-40°	2259.0	22.3
0°-60°	4387.1	43.3
0°-90°	5834.7	57.6
90°-120°	2049.7	20.2
90°-150°	3733.0	36.9
90°-180°	4289.0	42.4
0°-180°	10123.9	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°	4	12	34	17	17	5
95°	43	167	556	286	195	47
105°	153	231	937	1423	1328	162
115°	271	330	751	1498	1710	268
125°	377	423	683	1154	1362	335
135°	450	495	662	932	1056	348
145°	522	555	653	795	857	327
155°	590	606	653	717	738	271
165°	636	645	653	679	687	180
175°	662	662	658	666	666	63
180°	662	662	662	662	662	

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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°	4.4	7.9	11.6	12.4	19.5	28.9	33.7	30.0	22.5	16.9	16.9
92.5°	17.8	47.9	78.1	85.7	120.4	166.8	190.0	166.6	119.6	84.3	81.0
95°	42.6	97.9	153.1	166.9	296.4	469.2	555.5	495.7	376.1	286.4	276.3
97.5°	73.7	122.4	171.1	183.4	399.4	687.3	831.3	793.5	718.0	661.2	641.9
100°	97.7	141.9	186.1	197.2	436.8	756.4	916.1	918.9	924.4	928.5	905.5
102.5°	118.1	159.4	200.6	211.0	454.0	778.0	940.1	988.2	1084.6	1156.8	1137.0
105°	152.8	187.8	222.7	231.4	466.7	780.5	937.4	1045.3	1261.3	1423.2	1412.6
107.5°	188.3	220.9	253.5	261.6	469.1	745.8	884.1	1034.7	1335.9	1561.8	1564.4
110°	212.3	241.7	271.0	278.4	465.5	715.0	839.7	1008.1	1344.8	1597.3	1608.4

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	235.8	263.8	291.8	298.8	465.7	688.1	799.3	971.6	1316.2	1574.6	1591.6
115°	271.3	297.2	323.0	329.5	470.0	657.2	750.9	916.9	1248.9	1497.8	1521.3
117.5°	306.4	329.9	353.3	359.3	478.7	637.9	717.6	867.4	1167.0	1391.7	1417.8
120°	326.8	349.0	371.0	376.6	485.8	631.4	704.3	841.2	1114.9	1320.2	1345.6
122.5°	346.9	369.1	391.5	397.0	496.0	628.1	694.1	817.3	1063.8	1248.7	1273.7
125°	377.4	397.8	418.1	423.2	509.8	625.2	683.0	787.7	997.1	1154.1	1177.1
127.5°	402.3	422.9	443.3	448.5	523.5	623.6	673.7	763.5	943.3	1078.2	1097.7
130°	415.6	437.8	459.8	465.4	533.7	624.7	670.1	750.2	910.2	1030.3	1048.2
132.5°	429.4	451.5	473.6	479.1	541.8	625.2	667.0	738.6	881.9	989.4	1005.4
135°	449.8	470.0	490.1	495.2	550.7	624.7	661.6	721.6	841.6	931.6	945.4
137.5°	470.7	490.6	510.5	515.5	563.9	628.5	660.8	711.5	812.9	889.0	900.4
140°	488.0	506.3	524.8	529.4	572.1	629.2	657.6	701.4	789.1	854.8	865.4
142.5°	501.4	518.4	535.4	539.6	578.9	631.4	657.6	696.1	773.1	830.8	840.0
145°	521.8	536.6	551.3	555.0	587.8	631.4	653.2	684.7	747.7	794.8	801.7
147.5°	542.2	556.6	571.0	574.6	600.8	635.7	653.2	678.0	727.5	764.7	770.4
150°	555.5	568.5	581.6	584.8	607.7	638.0	653.2	674.1	716.0	747.4	752.1
152.5°	569.3	579.2	589.0	591.5	612.1	639.5	653.2	671.1	706.8	733.6	737.2
155°	589.7	597.0	604.3	606.1	621.8	642.7	653.2	667.4	695.9	717.2	719.5
157.5°	604.8	612.0	619.0	620.8	631.6	646.1	653.2	664.3	686.4	703.0	704.6
160°	615.0	620.6	626.1	627.4	636.0	647.5	653.2	662.7	681.6	695.8	696.8
162.5°	625.2	629.4	633.5	634.6	640.8	649.1	653.2	661.2	677.2	689.2	690.1
165°	636.3	640.1	643.9	644.8	647.6	651.3	653.2	658.9	670.4	679.0	680.0
167.5°	646.5	648.3	650.1	650.5	652.9	656.1	657.6	661.3	668.9	674.5	674.9
170°	653.2	655.0	656.8	657.2	657.3	657.5	657.6	661.3	668.9	674.5	674.5
172.5°	656.8	657.1	657.5	657.6	657.6	657.6	657.6	660.6	666.5	671.0	670.6
175°	661.6	661.6	661.6	661.6	660.3	658.5	657.6	659.5	663.2	666.1	666.1
177.5°	661.6	661.6	661.6	661.6	660.6	659.2	658.6	660.1	663.1	665.3	664.9
180°	661.6	661.6	661.6	661.6	661.6	661.6	661.6	661.6	661.6	661.6	661.6

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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°	16.9	16.9
92.5°	67.5	54.1
95°	235.6	194.9
97.5°	564.5	487.1
100°	813.3	721.1
102.5°	1058.1	979.2
105°	1370.1	1327.7
107.5°	1574.6	1584.8
110°	1652.5	1696.7



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	1659.5	1727.4
115°	1615.5	1709.6
117.5°	1522.2	1626.6
120°	1447.0	1548.4
122.5°	1373.8	1473.9
125°	1269.4	1361.5
127.5°	1175.4	1253.2
130°	1120.0	1191.8
132.5°	1069.8	1134.2
135°	1000.9	1056.4
137.5°	945.7	991.2
140°	907.9	950.3
142.5°	876.5	913.0
145°	829.4	857.0
147.5°	793.2	816.1
150°	770.6	789.1
152.5°	751.1	765.1
155°	728.8	738.0
157.5°	711.1	717.6
160°	700.5	704.3
162.5°	693.6	697.2
165°	683.7	687.4
167.5°	676.5	678.0
170°	674.5	674.5
172.5°	669.3	667.8
175°	666.1	666.1
177.5°	663.2	661.6
180°	661.6	661.6

(END OF REPORT)