

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: P937900

Luminaire Tested: SQ4-FB-125U-050D-B35-1D-UNV-W2A-W-8

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P937900
REPORT IS A COMBINATION OF REPORTS P933613 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-125U-050D-B35-1D-UNV-W2A-W-8
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

Summary

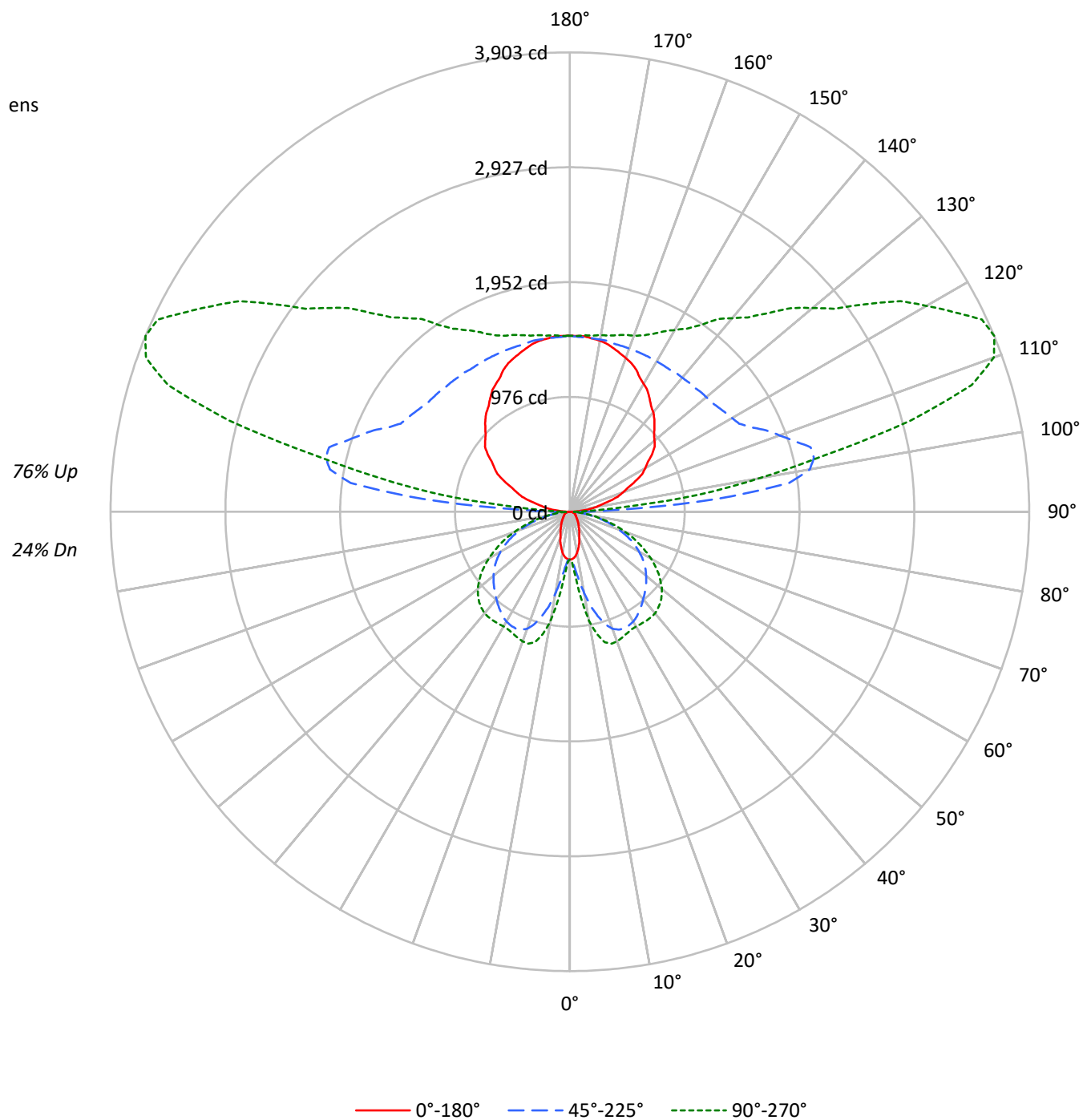
Lumens per Lamp: N/A
Luminaire Lumens: 12824.7 lumens
Efficiency: N/A
Efficacy: 134.7 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 95.2
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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	101	101	101	101	90	90	90	90	69	69	69	50	50	50	33	33	33	24		
1	92	88	84	80	81	78	75	72	60	58	56	44	42	41	28	28	27	20		
2	83	76	70	65	74	68	63	58	52	49	46	38	36	34	25	23	22	16		
3	76	66	59	54	67	59	53	48	46	42	38	33	30	28	21	20	19	13		
4	69	58	51	45	61	52	46	41	40	36	32	29	26	24	19	17	16	11		
5	63	52	44	38	56	46	39	34	36	31	27	26	23	20	17	15	13	10		
6	58	46	38	33	51	41	34	29	32	27	23	23	20	17	15	13	12	8		
7	53	41	34	28	47	37	30	26	29	24	20	21	18	15	14	12	10	7		
8	49	37	30	25	44	33	27	22	26	21	18	19	16	13	12	10	9	6		
9	46	34	27	22	40	30	24	20	24	19	16	17	14	12	11	9	8	6		
10	42	31	24	19	38	28	21	17	22	17	14	16	13	10	10	9	7	5		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1875	1875	1875
5°	1832	2168	2521
10°	1662	3160	4179
15°	1413	4128	5046
20°	1150	4784	5143
25°	959	5006	5039
30°	808	5037	5029
35°	715	4954	5159
40°	623	4845	5294
45°	564	4765	5314
50°	518	4694	5226
55°	496	4589	4994
60°	508	4388	4628
65°	528	4081	4126
70°	563	3559	3486
75°	623	2902	2720
80°	681	2012	1832
85°	606	1068	938

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5314 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.3	0.4
10°-20°	231.7	1.8
20°-30°	405.3	3.2
30°-40°	521.8	4.1
40°-50°	582.8	4.5
50°-60°	558.2	4.4
60°-70°	442.4	3.4
70°-80°	260.1	2.0
80°-90°	78.0	0.6
90°-100°	728.8	5.7
100°-110°	1916.0	14.9
110°-120°	1986.7	15.5
120°-130°	1593.6	12.4
130°-140°	1250.4	9.7
140°-150°	959.7	7.5
150°-160°	691.2	5.4
160°-170°	422.9	3.3
170°-180°	142.9	1.1
0°-30°	689.4	5.4
0°-40°	1211.2	9.4
0°-60°	2352.2	18.3
0°-90°	3132.7	24.4
90°-120°	4631.5	36.1
90°-150°	8435.1	65.8
90°-180°	9692.0	75.6
0°-180°	12824.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	404	404	404	404	404	
5°	394	422	476	538	558	36
15°	295	545	918	1112	1148	82
25°	188	617	1093	1141	1142	87
35°	127	590	1029	1088	1131	80
45°	87	470	910	1042	1089	67
55°	62	299	772	897	922	57
65°	49	158	573	645	654	49
75°	36	98	314	346	347	38
85°	13	30	78	86	87	14
90°	10	28	76	38	38	9
95°	96	377	1255	647	440	107
105°	345	523	2118	3216	3000	366
115°	613	744	1697	3384	3863	606
125°	853	956	1543	2608	3076	757
135°	1016	1119	1495	2105	2387	786
145°	1179	1254	1476	1796	1936	739
155°	1333	1370	1476	1621	1668	612
165°	1438	1457	1476	1534	1553	406
175°	1495	1495	1486	1505	1505	142
180°	1495	1495	1495	1495	1495	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	404.2	404.2	404.2	404.2	404.2	404.2	404.2	404.2	404.2	404.2	404.2
2.5°	404.2	404.2	406.8	408.1	410.7	412.0	414.6	417.3	425.0	426.3	428.9
5°	393.8	399.0	415.9	422.4	440.6	465.3	475.7	492.5	527.7	538.1	544.6
7.5°	378.2	389.9	431.5	441.9	487.4	552.3	579.7	616.1	671.9	699.2	721.3
10°	353.5	378.2	452.3	477.0	551.1	649.8	700.6	751.3	835.7	873.4	887.7
12.5°	326.3	366.5	474.4	508.1	614.7	759.0	820.2	876.0	972.2	1022.9	1030.6
15°	295.1	349.6	495.2	544.6	682.4	850.0	917.6	986.4	1076.2	1112.5	1121.6
17.5°	267.7	336.6	514.7	566.7	734.3	931.9	1000.8	1058.0	1130.7	1155.4	1161.9
20°	233.9	315.8	527.7	595.3	789.0	991.7	1058.0	1102.1	1151.6	1167.2	1169.8
22.5°	209.2	293.7	535.5	605.6	825.3	1028.1	1083.9	1119.1	1152.8	1158.1	1159.3
25°	188.5	269.0	534.2	617.3	856.5	1050.2	1093.0	1119.1	1138.6	1141.2	1141.2
27.5°	169.0	241.8	529.0	620.0	879.9	1055.3	1089.2	1107.4	1116.5	1121.6	1121.6
30°	152.0	215.8	516.0	614.7	890.3	1050.2	1077.4	1086.5	1095.6	1103.5	1107.4
32.5°	139.1	191.1	496.5	604.4	891.6	1037.1	1056.7	1061.8	1074.8	1093.0	1099.5
35°	127.3	166.4	474.4	590.0	883.8	1016.4	1029.4	1034.6	1060.6	1087.9	1096.9
37.5°	115.7	148.2	445.8	565.4	872.1	991.7	1000.8	1009.9	1050.2	1082.7	1093.0
40°	104.0	132.6	412.0	538.1	853.9	961.8	969.6	983.9	1037.1	1074.8	1085.3
42.5°	94.9	119.6	375.6	509.5	830.5	928.0	939.7	960.5	1021.6	1061.8	1073.6
45°	87.1	106.6	336.6	470.4	800.6	892.9	909.8	938.4	1003.4	1042.4	1052.7
47.5°	79.3	97.5	296.3	430.2	768.1	857.9	879.9	912.4	978.7	1016.4	1025.5
50°	72.8	88.4	256.0	387.3	733.0	820.2	846.1	879.9	947.5	982.6	994.3
52.5°	67.5	80.6	218.3	344.4	692.7	781.1	811.1	846.1	909.8	943.6	951.4
55°	62.4	74.1	185.9	298.9	651.2	739.5	772.0	805.8	868.2	896.8	902.0
57.5°	59.8	68.9	158.5	256.0	607.0	692.7	729.2	760.4	818.8	840.9	846.1
60°	55.9	65.0	137.8	219.7	558.9	648.6	679.8	711.0	760.4	778.5	782.5
62.5°	52.0	62.4	122.2	184.6	509.5	596.6	627.7	656.4	698.0	711.0	716.2
65°	49.4	59.8	110.5	158.5	458.8	542.0	573.2	597.9	631.7	644.7	647.3
67.5°	46.8	57.2	101.4	136.4	408.1	487.4	510.8	534.2	560.2	573.2	574.4
70°	42.9	54.6	93.6	120.8	356.1	425.0	444.5	469.2	490.0	496.5	500.4
72.5°	40.3	50.7	88.4	109.2	302.8	365.2	383.4	397.7	415.9	422.4	422.4
75°	36.4	45.4	83.1	97.5	248.3	298.9	314.5	328.8	343.1	345.7	341.9
77.5°	32.5	40.3	71.5	81.9	193.7	236.5	249.5	257.4	269.0	271.6	273.0
80°	27.3	35.1	55.9	63.7	140.4	174.1	183.2	189.7	200.2	200.2	202.7
82.5°	20.8	27.3	40.3	45.4	94.9	119.6	127.3	131.3	137.8	137.8	137.8
85°	13.0	16.9	26.0	29.8	57.2	72.8	78.0	79.3	84.5	85.8	85.8
87.5°	6.5	9.1	16.9	18.2	29.8	37.7	37.7	40.3	40.3	39.0	37.7
90°	10.1	18.1	26.1	28.1	44.2	65.6	76.3	67.7	50.8	38.1	38.1
92.5°	40.1	108.3	176.6	193.7	272.3	377.0	429.5	376.4	270.3	190.6	183.0
95°	96.3	221.2	346.1	377.3	670.0	1060.2	1255.2	1120.2	849.9	647.2	624.2
97.5°	166.6	276.7	386.9	414.4	902.4	1553.1	1878.4	1793.0	1622.2	1494.1	1450.4
100°	220.7	320.6	420.5	445.5	987.0	1709.0	2070.1	2076.3	2088.8	2098.2	2046.1
102.5°	266.9	360.1	453.3	476.7	1025.9	1758.2	2124.2	2233.1	2450.7	2613.9	2569.3
105°	345.2	424.1	503.0	522.8	1054.6	1763.7	2118.2	2362.1	2850.0	3215.9	3192.0
107.5°	425.5	499.0	572.6	591.0	1059.9	1685.2	1997.8	2338.1	3018.6	3529.0	3534.8
110°	479.7	546.1	612.6	629.2	1051.9	1615.6	1897.5	2277.9	3038.7	3609.2	3634.2

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	532.9	596.1	659.5	675.3	1052.2	1554.9	1806.1	2195.5	2974.1	3558.1	3596.4
115°	613.1	671.5	729.9	744.5	1061.9	1485.2	1696.8	2071.8	2821.9	3384.5	3437.7
117.5°	692.4	745.5	798.5	811.7	1081.7	1441.6	1621.5	1960.0	2636.9	3144.7	3203.7
120°	738.5	788.5	838.4	850.9	1097.7	1426.9	1591.4	1900.7	2519.2	2983.2	3040.4
122.5°	783.6	834.0	884.4	897.0	1120.7	1419.1	1568.3	1846.8	2403.9	2821.6	2878.1
125°	852.9	898.8	944.8	956.2	1151.9	1412.8	1543.2	1779.9	2253.0	2607.9	2659.9
127.5°	909.1	955.5	1001.8	1013.5	1183.1	1409.1	1522.2	1725.3	2131.6	2436.3	2480.2
130°	939.2	989.2	1039.1	1051.6	1205.7	1411.3	1514.2	1695.0	2056.7	2327.9	2368.5
132.5°	970.3	1020.3	1070.2	1082.7	1224.1	1412.8	1507.1	1669.0	1992.7	2235.6	2271.9
135°	1016.5	1061.9	1107.5	1118.8	1244.2	1411.4	1495.1	1630.6	1901.8	2105.2	2136.5
137.5°	1063.6	1108.6	1153.7	1164.9	1274.3	1420.2	1493.0	1607.7	1836.9	2008.8	2034.5
140°	1102.7	1144.2	1185.7	1196.0	1292.7	1421.6	1486.1	1585.1	1783.1	1931.6	1955.5
142.5°	1132.9	1171.2	1209.5	1219.1	1308.1	1426.8	1486.1	1573.0	1746.9	1877.3	1898.0
145°	1179.0	1212.4	1245.9	1254.3	1328.2	1426.8	1476.0	1547.1	1689.5	1796.1	1811.7
147.5°	1225.2	1257.8	1290.3	1298.5	1357.7	1436.5	1476.0	1532.0	1643.9	1727.9	1740.8
150°	1255.2	1284.7	1314.2	1321.5	1373.0	1441.7	1476.0	1523.3	1617.8	1688.8	1699.2
152.5°	1286.3	1308.6	1330.9	1336.5	1383.1	1445.0	1476.0	1516.4	1597.1	1657.7	1665.6
155°	1332.6	1349.0	1365.5	1369.7	1405.1	1452.3	1476.0	1508.2	1572.4	1620.6	1625.8
157.5°	1366.7	1382.7	1398.8	1402.7	1427.1	1459.7	1476.0	1501.0	1550.9	1588.4	1592.1
160°	1389.7	1402.2	1414.7	1417.8	1437.2	1463.1	1476.0	1497.4	1540.2	1572.3	1574.4
162.5°	1412.8	1422.1	1431.5	1433.8	1447.9	1466.6	1476.0	1494.0	1530.1	1557.3	1559.3
165°	1437.9	1446.4	1454.9	1457.0	1463.3	1471.7	1476.0	1489.0	1514.8	1534.2	1536.3
167.5°	1461.0	1464.9	1469.0	1470.0	1475.3	1482.5	1486.1	1494.5	1511.4	1524.1	1525.0
170°	1476.0	1480.1	1484.1	1485.1	1485.4	1485.9	1486.1	1494.5	1511.4	1524.1	1524.1
172.5°	1484.0	1484.9	1485.9	1486.1	1486.1	1486.1	1486.1	1492.7	1506.1	1516.2	1515.4
175°	1495.1	1495.1	1495.1	1495.1	1492.1	1488.1	1486.1	1490.3	1498.8	1505.1	1505.1
177.5°	1495.1	1495.1	1495.1	1495.1	1492.7	1489.6	1488.1	1491.4	1498.1	1503.1	1502.2
180°	1495.1	1495.1	1495.1	1495.1	1495.1	1495.1	1495.1	1495.1	1495.1	1495.1	1495.1

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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	404.2	404.2
2.5°	431.5	428.9
5°	554.9	557.6
7.5°	747.3	746.0
10°	929.3	941.0
12.5°	1061.8	1064.4
15°	1142.5	1147.7
17.5°	1173.7	1174.9
20°	1174.9	1172.3
22.5°	1160.7	1158.1
25°	1143.7	1142.5
27.5°	1128.1	1129.5
30°	1121.6	1125.6
32.5°	1121.6	1128.1
35°	1124.2	1130.7
37.5°	1123.0	1130.7
40°	1117.7	1126.9
42.5°	1103.5	1110.0
45°	1081.4	1089.2
47.5°	1052.7	1058.0
50°	1016.4	1021.6
52.5°	970.8	972.2
55°	916.3	921.5
57.5°	857.9	859.1
60°	792.8	796.7
62.5°	723.9	723.9
65°	651.2	653.8
67.5°	575.8	582.3
70°	499.1	500.4
72.5°	423.7	423.7
75°	345.7	347.0
77.5°	271.6	271.6
80°	201.5	202.7
82.5°	139.1	141.7
85°	87.1	87.1
87.5°	40.3	36.4
90°	38.1	38.1
92.5°	152.7	122.4
95°	532.4	440.5
97.5°	1275.6	1100.8
100°	1837.8	1629.6
102.5°	2390.9	2212.5
105°	3096.1	3000.2
107.5°	3558.0	3581.1
110°	3734.1	3834.0

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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	3749.8	3903.2
115°	3650.4	3863.1
117.5°	3439.6	3675.5
120°	3269.7	3498.9
122.5°	3104.3	3330.4
125°	2868.2	3076.5
127.5°	2655.9	2831.6
130°	2530.8	2693.1
132.5°	2417.4	2562.7
135°	2261.8	2387.1
137.5°	2137.0	2239.6
140°	2051.5	2147.3
142.5°	1980.4	2063.0
145°	1874.1	1936.5
147.5°	1792.6	1844.3
150°	1741.2	1783.1
152.5°	1697.2	1728.9
155°	1646.7	1667.6
157.5°	1606.8	1621.5
160°	1582.9	1591.4
162.5°	1567.4	1575.4
165°	1544.8	1553.3
167.5°	1528.6	1532.2
170°	1524.1	1524.1
172.5°	1512.2	1509.1
175°	1505.1	1505.1
177.5°	1498.7	1495.1
180°	1495.1	1495.1

(END OF REPORT)