

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

(formerly Eaton)

Brand: CORELITE

Report Number: P523963

Luminaire Tested: **SQ4-PP3-150U-100D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 5/24/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P523963  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2103-172-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/24/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PP3-150U-100D-92765-1D-UNV-STD-W-4 (5700K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11218.4 lumens  
Efficiency: N/A  
Efficacy: 120.2 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

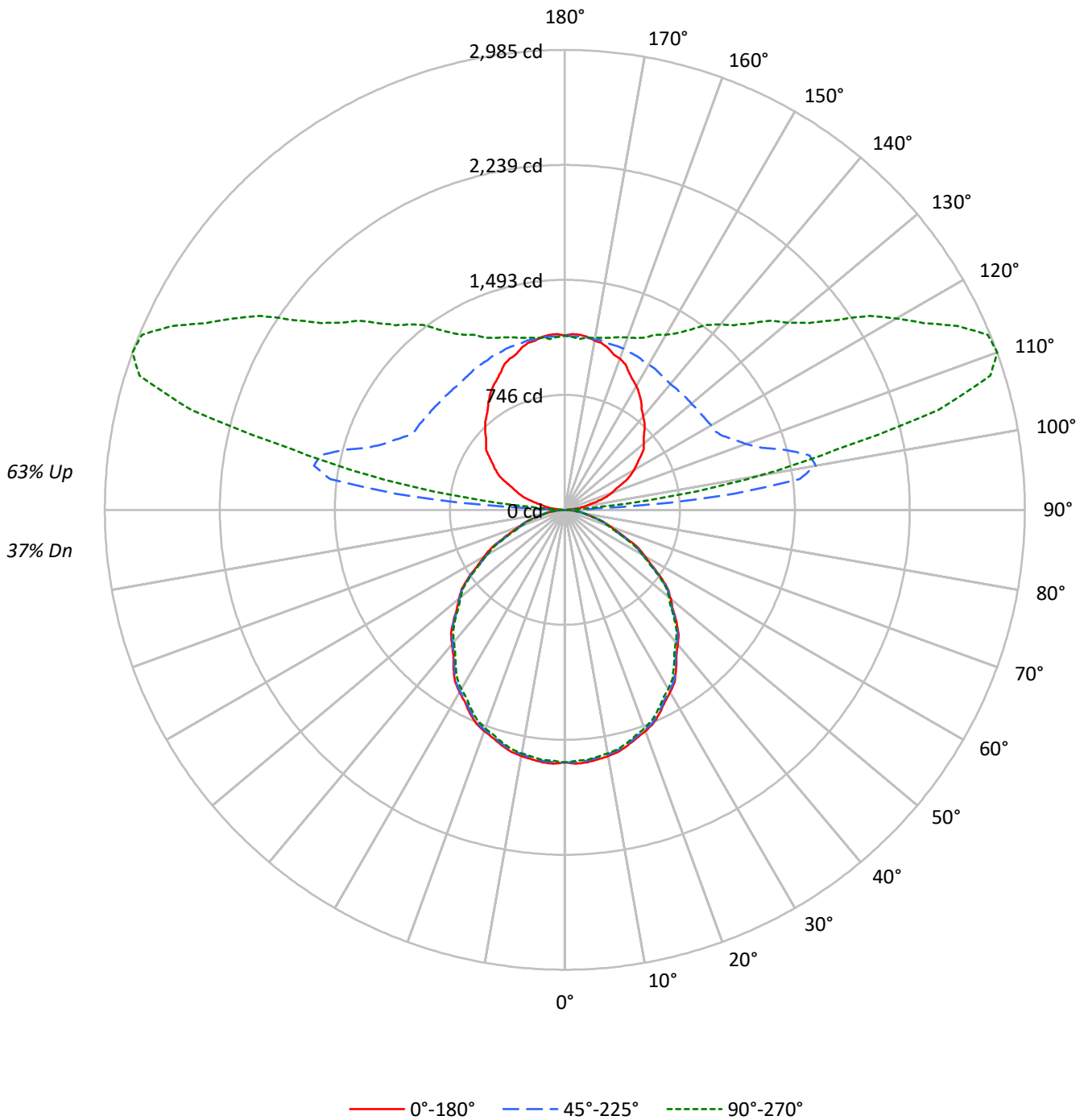
Input Watts (W): 93.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	104	104	104	104	94	94	94	94	76	76	76	60	60	60	45	45	45	37
1	95	91	87	84	86	83	79	77	67	65	63	53	51	50	40	39	38	32
2	87	80	74	69	78	72	67	63	59	55	52	46	44	42	35	33	32	27
3	79	70	63	57	72	64	58	53	52	48	44	41	38	36	31	29	27	23
4	72	62	54	48	65	56	50	45	46	41	38	37	33	30	28	26	24	20
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	23	21	17
6	61	49	41	36	55	45	38	33	37	32	28	30	26	23	23	20	18	15
7	56	44	37	31	51	41	34	29	34	28	25	27	23	20	21	18	16	13
8	52	40	33	28	47	37	30	26	31	25	22	25	21	18	19	16	14	12
9	49	37	29	24	44	34	27	23	28	23	19	23	19	16	18	15	13	11
10	45	34	27	22	41	31	25	20	26	21	17	21	17	15	16	14	12	10

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	15125	15125	15125
5°	15235	15142	15089
10°	15210	15102	15035
15°	15109	15027	14945
20°	15009	14925	14812
25°	14830	14728	14582
30°	14556	14479	14296
35°	14176	14079	13900
40°	13722	13635	13480
45°	13347	13254	13122
50°	12868	12786	12661
55°	12202	12040	11948
60°	11108	10789	10737
65°	9787	9379	9346
70°	8449	8101	8101
75°	7272	7169	7069
80°	6413	6487	6333
85°	5018	5473	5473



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.0	1.4
10°-20°	442.6	3.9
20°-30°	663.0	5.9
30°-40°	777.6	6.9
40°-50°	780.0	7.0
50°-60°	665.5	5.9
60°-70°	434.0	3.9
70°-80°	217.7	1.9
80°-90°	60.2	0.5
90°-100°	515.2	4.6
100°-110°	1465.8	13.1
110°-120°	1404.4	12.5
120°-130°	1111.5	9.9
130°-140°	892.2	8.0
140°-150°	698.5	6.2
150°-160°	511.1	4.6
160°-170°	316.6	2.8
170°-180°	107.4	1.0
0°-30°	1260.6	11.2
0°-40°	2038.2	18.2
0°-60°	3483.7	31.1
0°-90°	4195.7	37.4
90°-120°	3385.4	30.2
90°-150°	6087.6	54.3
90°-180°	7023.0	62.6
0°-180°	11218.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1639	1639	1639	1639	1639	
5°	1645	1630	1635	1629	1629	156
15°	1582	1566	1573	1567	1565	446
25°	1457	1440	1447	1434	1432	670
35°	1259	1246	1250	1236	1234	786
45°	1023	1016	1016	1006	1006	788
55°	759	756	748	744	743	674
65°	448	440	430	427	428	447
75°	204	204	201	200	198	221
85°	47	52	52	52	52	56
90°	0	0	0	0	0	4
95°	56	222	997	345	213	64
105°	228	346	1494	2639	2508	241
115°	423	512	1133	2400	2818	417
125°	598	663	1081	1794	2145	535
135°	731	792	1068	1516	1713	564
145°	862	906	1077	1312	1429	538
155°	984	1008	1103	1185	1234	455
165°	1088	1092	1116	1140	1156	306
175°	1139	1133	1128	1122	1113	108
180°	1131	1131	1131	1131	1131	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1639.3	1639.3	1639.3	1639.3	1639.3
2.5°	1649.6	1636.2	1639.3	1636.9	1630.1
5°	1645.0	1629.6	1635.0	1629.2	1629.2
7.5°	1633.8	1617.0	1622.3	1616.6	1616.3
10°	1623.5	1606.6	1612.0	1606.2	1604.8
12.5°	1608.6	1591.7	1598.2	1591.3	1591.0
15°	1581.8	1566.4	1573.2	1567.4	1564.6
17.5°	1551.7	1534.8	1543.0	1535.0	1533.8
20°	1528.7	1511.8	1520.1	1508.6	1508.6
22.5°	1501.1	1484.2	1493.6	1478.7	1478.7
25°	1456.8	1440.0	1446.8	1433.8	1432.4
27.5°	1404.3	1387.7	1394.8	1380.1	1379.8
30°	1366.3	1350.9	1359.1	1343.3	1341.9
32.5°	1324.9	1310.6	1316.6	1300.8	1299.4
35°	1258.6	1245.9	1250.0	1235.6	1234.1
37.5°	1188.7	1175.8	1180.4	1168.0	1167.5
40°	1139.3	1130.9	1132.1	1122.0	1119.2
42.5°	1093.3	1083.8	1085.0	1074.9	1074.4
45°	1022.9	1015.9	1015.8	1005.7	1005.7
47.5°	948.2	942.9	941.3	933.0	932.7
50°	896.5	892.3	890.8	883.6	882.1
52.5°	842.5	840.5	835.6	829.6	829.3
55°	758.6	755.8	748.5	744.2	742.8
57.5°	667.5	661.9	653.7	647.4	648.5
60°	602.0	596.4	584.7	581.9	581.9
62.5°	538.8	532.0	520.4	516.4	518.7
65°	448.3	439.8	429.6	426.7	428.1
67.5°	366.1	358.5	347.4	347.4	346.3
70°	313.2	309.0	300.3	300.3	300.3
72.5°	266.1	264.1	257.7	257.7	256.6
75°	204.0	204.0	201.1	199.7	198.3
77.5°	152.9	153.4	152.0	150.5	148.0
80°	120.7	123.5	122.1	120.7	119.2
82.5°	90.8	93.6	93.4	90.8	90.5
85°	47.4	51.6	51.7	51.7	51.7
87.5°	12.6	17.1	18.4	18.4	19.5
90°	0.0	0.0	0.0	0.0	0.0
92.5°	17.2	91.2	211.5	61.6	46.4
95°	55.9	221.9	997.3	345.2	212.8
97.5°	102.7	259.9	1535.9	1099.1	753.1
100°	135.4	282.5	1652.8	1674.2	1289.6
102.5°	171.5	306.9	1627.1	2143.0	1807.2
105°	227.8	345.5	1493.8	2638.6	2508.3
107.5°	285.0	390.5	1338.2	2778.3	2894.3
110°	324.6	423.3	1248.8	2724.8	2985.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	362.4	456.1	1188.6	2598.4	2970.0
115°	423.4	511.7	1132.7	2399.6	2817.8
117.5°	477.2	560.0	1099.6	2182.2	2625.2
120°	520.1	589.5	1096.2	2058.0	2482.5
122.5°	554.5	623.9	1087.6	1949.0	2343.2
125°	597.5	662.7	1081.1	1794.1	2145.0
127.5°	644.4	705.3	1077.7	1701.5	1990.7
130°	668.4	729.4	1072.5	1637.1	1889.3
132.5°	694.2	753.5	1072.5	1586.8	1818.8
135°	730.8	791.7	1068.2	1515.5	1713.0
137.5°	765.2	824.4	1067.8	1455.1	1625.8
140°	791.0	851.9	1066.1	1405.1	1569.0
142.5°	820.2	871.0	1071.2	1365.2	1512.3
145°	861.9	906.0	1076.8	1311.6	1429.3
147.5°	897.6	940.4	1086.3	1257.5	1359.2
150°	928.5	957.9	1089.7	1239.6	1311.1
152.5°	952.6	983.7	1093.2	1215.5	1281.9
155°	984.4	1007.5	1102.6	1185.4	1233.7
157.5°	1023.9	1037.8	1104.8	1171.7	1206.2
160°	1044.6	1055.1	1113.4	1161.3	1190.7
162.5°	1056.6	1068.8	1115.1	1152.6	1175.3
165°	1087.6	1091.8	1115.5	1139.5	1156.3
167.5°	1108.6	1104.8	1125.4	1136.3	1143.0
170°	1115.5	1113.4	1122.0	1124.3	1132.7
172.5°	1131.0	1123.8	1127.1	1120.8	1127.5
175°	1139.2	1132.8	1128.4	1121.8	1113.4
177.5°	1142.6	1132.5	1127.1	1120.3	1122.0
180°	1130.6	1130.6	1130.6	1130.6	1130.6

(END OF REPORT)