

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: P523962

Luminaire Tested: **SQ4-PP3-150U-100D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/24/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P523962  
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 (5000K)  
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 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

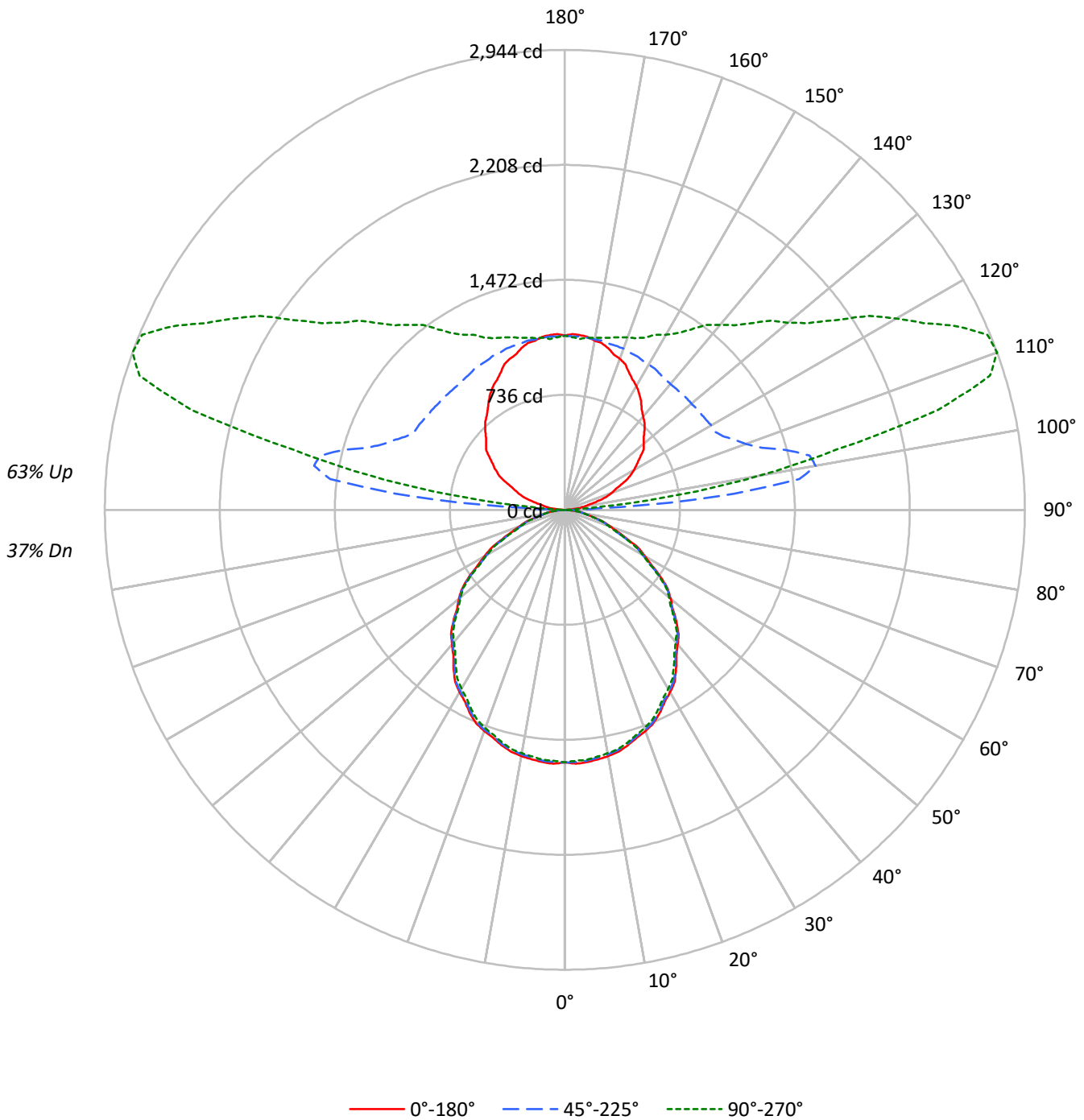
Lumens per Lamp: N/A  
Luminaire Lumens: 11060.9 lumens  
Efficiency: N/A  
Efficacy: 118.4 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 93.4  
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°	14912	14912	14912
5°	15021	14929	14878
10°	14996	14890	14824
15°	14897	14816	14734
20°	14798	14715	14604
25°	14623	14522	14377
30°	14351	14277	14096
35°	13976	13881	13705
40°	13529	13443	13291
45°	13160	13067	12938
50°	12687	12607	12485
55°	12030	11871	11781
60°	10952	10638	10586
65°	9649	9245	9215
70°	8330	7987	7987
75°	7169	7069	6969
80°	6323	6397	6248
85°	4944	5399	5399



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	152.8	1.4
10°-20°	436.4	3.9
20°-30°	653.7	5.9
30°-40°	766.7	6.9
40°-50°	769.1	7.0
50°-60°	656.1	5.9
60°-70°	427.9	3.9
70°-80°	214.7	1.9
80°-90°	59.4	0.5
90°-100°	507.9	4.6
100°-110°	1445.2	13.1
110°-120°	1384.7	12.5
120°-130°	1095.9	9.9
130°-140°	879.7	8.0
140°-150°	688.7	6.2
150°-160°	503.9	4.6
160°-170°	312.1	2.8
170°-180°	105.9	1.0
0°-30°	1242.9	11.2
0°-40°	2009.6	18.2
0°-60°	3434.8	31.1
0°-90°	4136.8	37.4
90°-120°	3337.9	30.2
90°-150°	6002.1	54.3
90°-180°	6924.0	62.6
0°-180°	11060.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1616	1616	1616	1616	1616	
5°	1622	1607	1612	1606	1606	154
15°	1560	1544	1551	1545	1543	440
25°	1436	1420	1426	1414	1412	660
35°	1241	1228	1232	1218	1217	775
45°	1009	1002	1002	992	992	777
55°	748	745	738	734	732	665
65°	442	434	424	421	422	441
75°	201	201	198	197	196	218
85°	47	51	51	51	51	55
90°	0	0	0	0	0	4
95°	55	219	983	340	210	63
105°	225	341	1473	2602	2473	238
115°	418	504	1117	2366	2778	411
125°	589	653	1066	1769	2115	527
135°	720	781	1053	1494	1689	556
145°	850	893	1062	1293	1409	531
155°	971	993	1087	1169	1216	449
165°	1072	1076	1100	1124	1140	302
175°	1123	1117	1113	1106	1098	106
180°	1115	1115	1115	1115	1115	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1616.3	1616.3	1616.3	1616.3	1616.3
2.5°	1626.5	1613.2	1616.3	1613.9	1607.2
5°	1621.9	1606.7	1612.0	1606.4	1606.4
7.5°	1610.9	1594.3	1599.6	1593.9	1593.6
10°	1600.7	1584.1	1589.4	1583.7	1582.3
12.5°	1586.0	1569.3	1575.8	1569.0	1568.7
15°	1559.6	1544.4	1551.1	1545.4	1542.6
17.5°	1529.9	1513.2	1521.4	1513.4	1512.3
20°	1507.2	1490.6	1498.7	1487.4	1487.4
22.5°	1480.0	1463.4	1472.6	1457.9	1457.9
25°	1436.4	1419.8	1426.5	1413.7	1412.3
27.5°	1384.5	1368.2	1375.2	1360.7	1360.5
30°	1347.1	1331.9	1340.1	1324.4	1323.1
32.5°	1306.3	1292.2	1298.1	1282.5	1281.1
35°	1240.9	1228.4	1232.4	1218.2	1216.8
37.5°	1172.1	1159.3	1163.8	1151.6	1151.1
40°	1123.3	1115.0	1116.2	1106.3	1103.5
42.5°	1078.0	1068.6	1069.8	1059.8	1059.3
45°	1008.6	1001.7	1001.5	991.6	991.6
47.5°	934.9	929.7	928.1	919.9	919.6
50°	883.9	879.8	878.3	871.1	869.8
52.5°	830.7	828.7	823.9	817.9	817.6
55°	747.9	745.2	738.0	733.7	732.4
57.5°	658.1	652.6	644.5	638.3	639.4
60°	593.5	588.0	576.5	573.7	573.7
62.5°	531.2	524.6	513.1	509.2	511.4
65°	442.0	433.7	423.5	420.7	422.1
67.5°	360.9	353.5	342.5	342.5	341.4
70°	308.8	304.7	296.1	296.1	296.1
72.5°	262.3	260.4	254.1	254.1	253.0
75°	201.1	201.1	198.3	196.9	195.5
77.5°	150.7	151.3	149.9	148.4	145.9
80°	119.0	121.8	120.4	119.0	117.6
82.5°	89.5	92.3	92.1	89.5	89.2
85°	46.7	50.9	51.0	51.0	51.0
87.5°	12.5	16.9	18.1	18.2	19.3
90°	0.0	0.0	0.0	0.0	0.0
92.5°	17.0	89.9	208.5	60.7	45.8
95°	55.1	218.8	983.3	340.3	209.8
97.5°	101.3	256.3	1514.4	1083.6	742.6
100°	133.5	278.6	1629.6	1650.7	1271.5
102.5°	169.1	302.6	1604.2	2112.9	1781.8
105°	224.6	340.7	1472.8	2601.5	2473.1
107.5°	281.0	385.0	1319.4	2739.3	2853.7
110°	320.0	417.4	1231.2	2686.6	2943.5

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	357.3	449.7	1171.9	2561.9	2928.3
115°	417.5	504.5	1116.8	2365.9	2778.2
117.5°	470.5	552.1	1084.2	2151.6	2588.3
120°	512.8	581.2	1080.8	2029.1	2447.6
122.5°	546.7	615.1	1072.3	1921.6	2310.3
125°	589.1	653.4	1065.9	1768.9	2114.9
127.5°	635.3	695.4	1062.5	1677.6	1962.8
130°	659.1	719.1	1057.5	1614.1	1862.7
132.5°	684.5	742.9	1057.5	1564.5	1793.2
135°	720.5	780.6	1053.2	1494.2	1689.0
137.5°	754.4	812.9	1052.8	1434.7	1602.9
140°	779.9	839.9	1051.1	1385.4	1547.0
142.5°	808.7	858.8	1056.2	1346.0	1491.0
145°	849.8	893.3	1061.7	1293.2	1409.2
147.5°	885.0	927.2	1071.0	1239.9	1340.2
150°	915.5	944.5	1074.4	1222.2	1292.7
152.5°	939.2	969.9	1077.8	1198.4	1263.9
155°	970.6	993.4	1087.1	1168.7	1216.4
157.5°	1009.6	1023.2	1089.2	1155.3	1189.3
160°	1029.9	1040.3	1097.7	1145.0	1174.0
162.5°	1041.8	1053.8	1099.4	1136.4	1158.8
165°	1072.3	1076.4	1099.8	1123.5	1140.1
167.5°	1093.1	1089.3	1109.6	1120.3	1127.0
170°	1099.8	1097.8	1106.2	1108.5	1116.8
172.5°	1115.1	1108.1	1111.3	1105.1	1111.7
175°	1123.2	1116.9	1112.6	1106.0	1097.7
177.5°	1126.5	1116.6	1111.3	1104.5	1106.2
180°	1114.7	1114.7	1114.7	1114.7	1114.7

(END OF REPORT)