

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: P562481

Luminaire Tested: **SQ4-PW1-150U-100D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562481  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PW1-150U-100D-92765-1D-UNV-STD-W-4 (3500K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

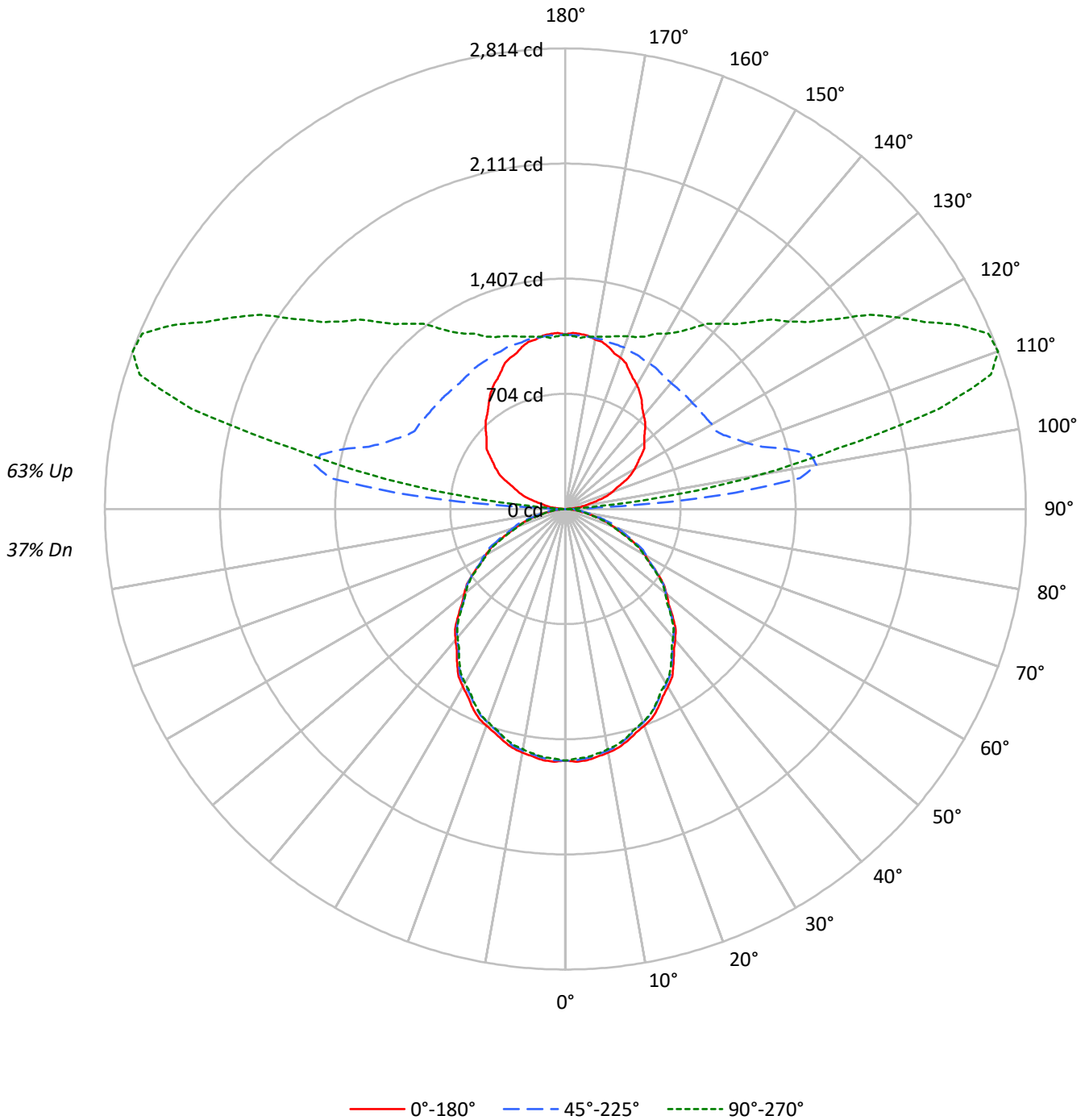
Lumens per Lamp: N/A  
Luminaire Lumens: 10529.5 lumens  
Efficiency: N/A  
Efficacy: 112.5 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 93.6  
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	44	44	44	37
1	95	91	87	84	86	82	79	76	67	65	63	52	51	50	39	38	38	31
2	87	79	73	68	78	72	67	63	59	55	52	46	44	42	35	33	32	26
3	79	70	63	57	71	63	57	52	52	47	44	41	38	35	31	29	27	22
4	72	62	54	48	65	56	50	44	46	41	37	36	33	30	27	25	23	19
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17
6	61	49	41	36	55	45	38	33	37	32	28	29	26	23	22	20	18	15
7	56	44	36	31	51	41	34	29	33	28	24	27	23	20	20	18	16	13
8	52	40	33	27	47	37	30	25	30	25	22	24	21	18	19	16	14	12
9	48	37	29	24	44	34	27	23	28	23	19	22	19	16	17	15	13	11
10	45	33	26	22	41	31	24	20	26	21	17	21	17	14	16	13	12	10

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

	0°	45°	90°
0°	14183	14183	14183
5°	14275	14162	14099
10°	14161	14046	13969
15°	14010	13855	13803
20°	13843	13630	13603
25°	13649	13401	13360
30°	13361	13159	13072
35°	12982	12798	12722
40°	12576	12381	12332
45°	12088	11928	11875
50°	11586	11488	11411
55°	11046	11046	10871
60°	10372	10571	10197
65°	9490	9964	9254
70°	8365	9169	8147
75°	7144	8206	6951
80°	5542	6907	5611
85°	3589	5304	4732



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	144.8	1.4
10°-20°	408.7	3.9
20°-30°	606.2	5.8
30°-40°	709.3	6.7
40°-50°	706.1	6.7
50°-60°	609.8	5.8
60°-70°	438.9	4.2
70°-80°	230.2	2.2
80°-90°	57.1	0.5
90°-100°	485.5	4.6
100°-110°	1381.5	13.1
110°-120°	1323.6	12.6
120°-130°	1047.6	9.9
130°-140°	840.8	8.0
140°-150°	658.3	6.3
150°-160°	481.7	4.6
160°-170°	298.3	2.8
170°-180°	101.2	1.0
0°-30°	1159.6	11.0
0°-40°	1868.9	17.7
0°-60°	3184.8	30.2
0°-90°	3911.0	37.1
90°-120°	3190.6	30.3
90°-150°	5737.2	54.5
90°-180°	6618.0	62.9
0°-180°	10529.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1537	1537	1537	1537	1537	
5°	1541	1524	1529	1525	1522	146
15°	1467	1448	1450	1448	1445	413
25°	1341	1318	1316	1308	1312	617
35°	1153	1137	1136	1126	1130	721
45°	926	918	914	912	910	715
55°	687	685	687	677	676	613
65°	435	448	456	438	424	431
75°	200	219	230	215	195	215
85°	34	44	50	47	45	45
90°	0	0	0	0	0	3
95°	53	209	940	325	200	60
105°	215	326	1408	2487	2364	227
115°	399	482	1068	2262	2656	393
125°	563	624	1019	1691	2022	504
135°	689	746	1007	1428	1614	531
145°	812	854	1015	1236	1347	507
155°	928	950	1039	1117	1163	429
165°	1025	1029	1051	1074	1090	288
175°	1074	1068	1064	1057	1049	102
180°	1066	1066	1066	1066	1066	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1537.2	1537.2	1537.2	1537.2	1537.2
2.5°	1545.9	1533.1	1537.2	1533.8	1526.4
5°	1541.3	1524.0	1529.1	1524.9	1522.3
7.5°	1525.5	1509.7	1513.4	1509.0	1507.4
10°	1511.5	1495.6	1499.3	1493.8	1491.1
12.5°	1495.2	1478.3	1481.9	1476.5	1474.9
15°	1466.8	1448.2	1450.5	1447.7	1445.1
17.5°	1433.7	1414.9	1415.3	1411.0	1410.4
20°	1409.9	1390.0	1388.2	1382.9	1385.5
22.5°	1383.9	1363.0	1361.1	1353.6	1357.3
25°	1340.8	1318.3	1316.4	1308.4	1312.4
27.5°	1291.0	1268.7	1268.8	1257.5	1261.7
30°	1254.1	1232.9	1235.2	1221.7	1227.0
32.5°	1215.1	1196.1	1197.2	1183.8	1189.1
35°	1152.6	1136.7	1136.3	1125.6	1129.5
37.5°	1088.6	1074.6	1072.4	1066.2	1067.2
40°	1044.2	1032.3	1028.0	1023.9	1023.9
42.5°	997.6	986.8	982.4	979.4	978.4
45°	926.4	918.4	914.2	911.5	910.1
47.5°	856.0	848.5	844.8	842.9	841.6
50°	807.2	801.9	800.4	796.3	795.0
52.5°	758.4	755.3	753.8	748.7	747.3
55°	686.7	685.3	686.7	677.1	675.8
57.5°	611.9	614.0	618.4	605.6	602.4
60°	562.1	567.4	572.9	557.9	552.6
62.5°	511.1	519.6	527.4	510.2	502.7
65°	434.7	448.0	456.4	438.5	423.9
67.5°	361.1	377.5	387.6	368.3	351.9
70°	310.1	328.7	339.9	320.6	302.0
72.5°	265.7	286.4	295.5	277.2	258.7
75°	200.4	219.0	230.2	214.9	195.0
77.5°	142.2	159.7	169.0	155.6	139.2
80°	104.3	122.8	130.0	118.9	105.6
82.5°	73.9	89.3	94.3	87.6	78.6
85°	33.9	44.5	50.1	47.3	44.7
87.5°	8.7	16.1	20.6	20.6	21.7
90°	0.0	0.0	0.0	0.0	0.0
92.5°	16.2	85.9	199.3	58.0	43.8
95°	52.7	209.1	939.9	325.3	200.5
97.5°	96.8	245.0	1447.5	1035.8	709.8
100°	127.6	266.3	1557.7	1577.8	1215.4
102.5°	161.6	289.2	1533.4	2019.7	1703.2
105°	214.7	325.6	1407.8	2486.7	2363.9
107.5°	268.6	368.0	1261.2	2618.4	2727.7
110°	305.9	399.0	1176.9	2568.0	2813.6

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	341.5	429.9	1120.2	2448.9	2799.0
115°	399.1	482.2	1067.5	2261.5	2655.6
117.5°	449.7	527.7	1036.3	2056.6	2474.1
120°	490.2	555.6	1033.1	1939.5	2339.6
122.5°	522.6	588.0	1025.0	1836.8	2208.4
125°	563.1	624.5	1018.9	1690.8	2021.6
127.5°	607.3	664.7	1015.7	1603.6	1876.1
130°	630.0	687.4	1010.8	1542.9	1780.5
132.5°	654.3	710.1	1010.8	1495.4	1714.1
135°	688.7	746.2	1006.7	1428.3	1614.4
137.5°	721.1	777.0	1006.3	1371.4	1532.2
140°	745.4	802.9	1004.7	1324.2	1478.7
142.5°	773.0	820.9	1009.6	1286.6	1425.2
145°	812.3	853.9	1014.8	1236.1	1347.0
147.5°	845.9	886.3	1023.8	1185.2	1281.0
150°	875.1	902.8	1027.0	1168.3	1235.6
152.5°	897.8	927.1	1030.2	1145.5	1208.1
155°	927.7	949.5	1039.2	1117.2	1162.7
157.5°	965.0	978.1	1041.2	1104.3	1136.8
160°	984.5	994.4	1049.3	1094.5	1122.2
162.5°	995.8	1007.3	1050.9	1086.2	1107.6
165°	1025.0	1028.9	1051.3	1073.9	1089.8
167.5°	1044.8	1041.3	1060.6	1070.9	1077.2
170°	1051.3	1049.3	1057.4	1059.6	1067.5
172.5°	1065.9	1059.2	1062.2	1056.3	1062.6
175°	1073.6	1067.6	1063.5	1057.2	1049.3
177.5°	1076.8	1067.3	1062.2	1055.8	1057.4
180°	1065.5	1065.5	1065.5	1065.5	1065.5

(END OF REPORT)