

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: P562483

Luminaire Tested: **SQ4-PW1-150U-100D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562483  
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 (4500K)  
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 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

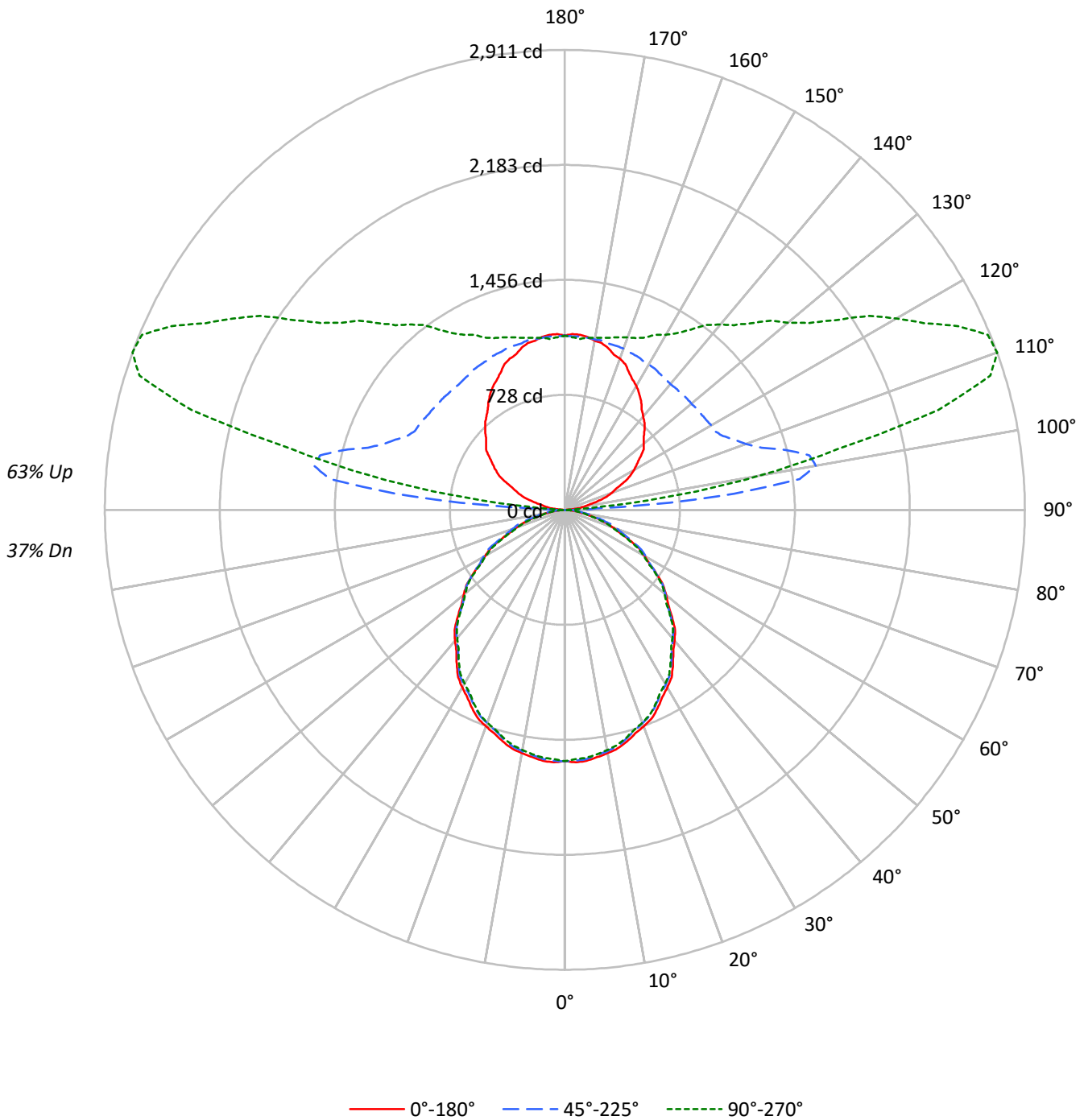
Lumens per Lamp: N/A  
Luminaire Lumens: 10895.1 lumens  
Efficiency: N/A  
Efficacy: 116.6 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 93.4  
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	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°	14675	14675	14675
5°	14770	14653	14588
10°	14651	14533	14455
15°	14497	14336	14283
20°	14323	14103	14076
25°	14124	13866	13823
30°	13825	13616	13526
35°	13432	13243	13163
40°	13013	12810	12759
45°	12506	12342	12287
50°	11988	11888	11807
55°	11429	11429	11249
60°	10732	10939	10551
65°	9820	10311	9575
70°	8656	9487	8430
75°	7393	8491	7194
80°	5733	7146	5807
85°	3705	5494	4891



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	149.8	1.4
10°-20°	422.9	3.9
20°-30°	627.2	5.8
30°-40°	733.9	6.7
40°-50°	730.7	6.7
50°-60°	631.0	5.8
60°-70°	454.2	4.2
70°-80°	238.2	2.2
80°-90°	59.0	0.5
90°-100°	502.4	4.6
100°-110°	1429.4	13.1
110°-120°	1369.6	12.6
120°-130°	1083.9	9.9
130°-140°	870.0	8.0
140°-150°	681.1	6.3
150°-160°	498.4	4.6
160°-170°	308.7	2.8
170°-180°	104.8	1.0
0°-30°	1199.9	11.0
0°-40°	1933.8	17.7
0°-60°	3295.4	30.2
0°-90°	4046.8	37.1
90°-120°	3301.4	30.3
90°-150°	5936.5	54.5
90°-180°	6848.0	62.9
0°-180°	10895.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1591	1591	1591	1591	1591	
5°	1595	1577	1582	1578	1575	151
15°	1518	1498	1501	1498	1495	428
25°	1387	1364	1362	1354	1358	638
35°	1193	1176	1176	1165	1169	746
45°	958	950	946	943	942	740
55°	710	709	710	701	699	634
65°	450	464	472	454	439	446
75°	207	227	238	222	202	222
85°	35	46	52	49	46	46
90°	0	0	0	0	0	4
95°	54	216	972	337	208	62
105°	222	337	1457	2573	2446	235
115°	413	499	1105	2340	2748	407
125°	583	646	1054	1750	2092	522
135°	713	772	1042	1478	1670	550
145°	840	884	1050	1279	1394	525
155°	960	982	1075	1156	1203	444
165°	1061	1065	1088	1111	1128	298
175°	1111	1105	1100	1094	1086	105
180°	1102	1102	1102	1102	1102	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1590.6	1590.6	1590.6	1590.6	1590.6
2.5°	1599.5	1586.4	1590.6	1587.0	1579.4
5°	1594.8	1577.0	1582.2	1577.9	1575.1
7.5°	1578.5	1562.1	1565.9	1561.4	1559.7
10°	1563.9	1547.5	1551.3	1545.7	1542.9
12.5°	1547.1	1529.6	1533.4	1527.7	1526.1
15°	1517.7	1498.5	1500.9	1498.0	1495.3
17.5°	1483.5	1464.0	1464.4	1459.9	1459.4
20°	1458.8	1438.3	1436.4	1430.9	1433.6
22.5°	1431.9	1410.3	1408.4	1400.6	1404.5
25°	1387.4	1364.1	1362.1	1353.8	1357.9
27.5°	1335.8	1312.8	1312.8	1301.1	1305.5
30°	1297.7	1275.8	1278.1	1264.2	1269.6
32.5°	1257.3	1237.6	1238.8	1224.9	1230.4
35°	1192.6	1176.1	1175.8	1164.6	1168.7
37.5°	1126.4	1111.9	1109.6	1103.2	1104.3
40°	1080.5	1068.1	1063.6	1059.4	1059.4
42.5°	1032.3	1021.0	1016.6	1013.5	1012.4
45°	958.5	950.3	945.9	943.1	941.7
47.5°	885.7	878.0	874.2	872.2	870.8
50°	835.2	829.7	828.2	824.0	822.6
52.5°	784.8	781.5	780.0	774.7	773.3
55°	710.5	709.1	710.5	700.7	699.3
57.5°	633.1	635.3	639.9	626.6	623.3
60°	581.6	587.1	592.8	577.2	571.8
62.5°	528.9	537.6	545.7	527.9	520.2
65°	449.8	463.5	472.3	453.7	438.6
67.5°	373.6	390.6	401.1	381.1	364.1
70°	320.9	340.1	351.7	331.7	312.5
72.5°	275.0	296.3	305.8	286.8	267.7
75°	207.4	226.6	238.2	222.4	201.8
77.5°	147.1	165.2	174.9	161.1	144.1
80°	107.9	127.1	134.5	123.0	109.3
82.5°	76.5	92.4	97.5	90.6	81.3
85°	35.0	46.0	51.9	49.0	46.2
87.5°	9.0	16.6	21.3	21.3	22.4
90°	0.0	0.0	0.0	0.0	0.0
92.5°	16.8	88.9	206.2	60.0	45.3
95°	54.5	216.4	972.5	336.6	207.5
97.5°	100.2	253.5	1497.8	1071.8	734.4
100°	132.0	275.5	1611.8	1632.6	1257.6
102.5°	167.3	299.2	1586.6	2089.8	1762.3
105°	222.2	336.9	1456.7	2573.1	2446.0
107.5°	277.9	380.8	1305.0	2709.3	2822.4
110°	316.5	412.8	1217.8	2657.2	2911.3

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	353.4	444.8	1159.1	2533.9	2896.2
115°	412.9	499.0	1104.6	2340.0	2747.8
117.5°	465.3	546.1	1072.3	2128.0	2560.0
120°	507.2	574.9	1068.9	2006.9	2420.8
122.5°	540.8	608.4	1060.6	1900.6	2285.0
125°	582.7	646.2	1054.3	1749.5	2091.8
127.5°	628.4	687.8	1050.9	1659.3	1941.3
130°	651.8	711.3	1045.9	1596.4	1842.4
132.5°	677.0	734.8	1045.9	1547.4	1773.6
135°	712.6	772.1	1041.7	1477.8	1670.5
137.5°	746.2	804.0	1041.3	1419.0	1585.4
140°	771.3	830.7	1039.6	1370.2	1530.1
142.5°	799.8	849.4	1044.6	1331.3	1474.7
145°	840.5	883.5	1050.1	1279.1	1393.8
147.5°	875.3	917.1	1059.3	1226.3	1325.5
150°	905.5	934.2	1062.7	1208.9	1278.5
152.5°	928.9	959.3	1066.0	1185.3	1250.0
155°	960.0	982.5	1075.2	1156.0	1203.1
157.5°	998.5	1012.0	1077.3	1142.6	1176.3
160°	1018.6	1028.9	1085.7	1132.5	1161.2
162.5°	1030.4	1042.3	1087.4	1123.9	1146.1
165°	1060.6	1064.7	1087.8	1111.2	1127.6
167.5°	1081.1	1077.4	1097.4	1108.1	1114.6
170°	1087.8	1085.8	1094.1	1096.4	1104.6
172.5°	1102.9	1095.9	1099.1	1093.0	1099.5
175°	1110.9	1104.7	1100.4	1093.9	1085.7
177.5°	1114.2	1104.4	1099.1	1092.5	1094.1
180°	1102.5	1102.5	1102.5	1102.5	1102.5

(END OF REPORT)