

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: P523961

Luminaire Tested: **SQ4-PP3-150U-100D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523961
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 (4500K)
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 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10939.8 lumens
Efficiency: N/A
Efficacy: 117.1 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

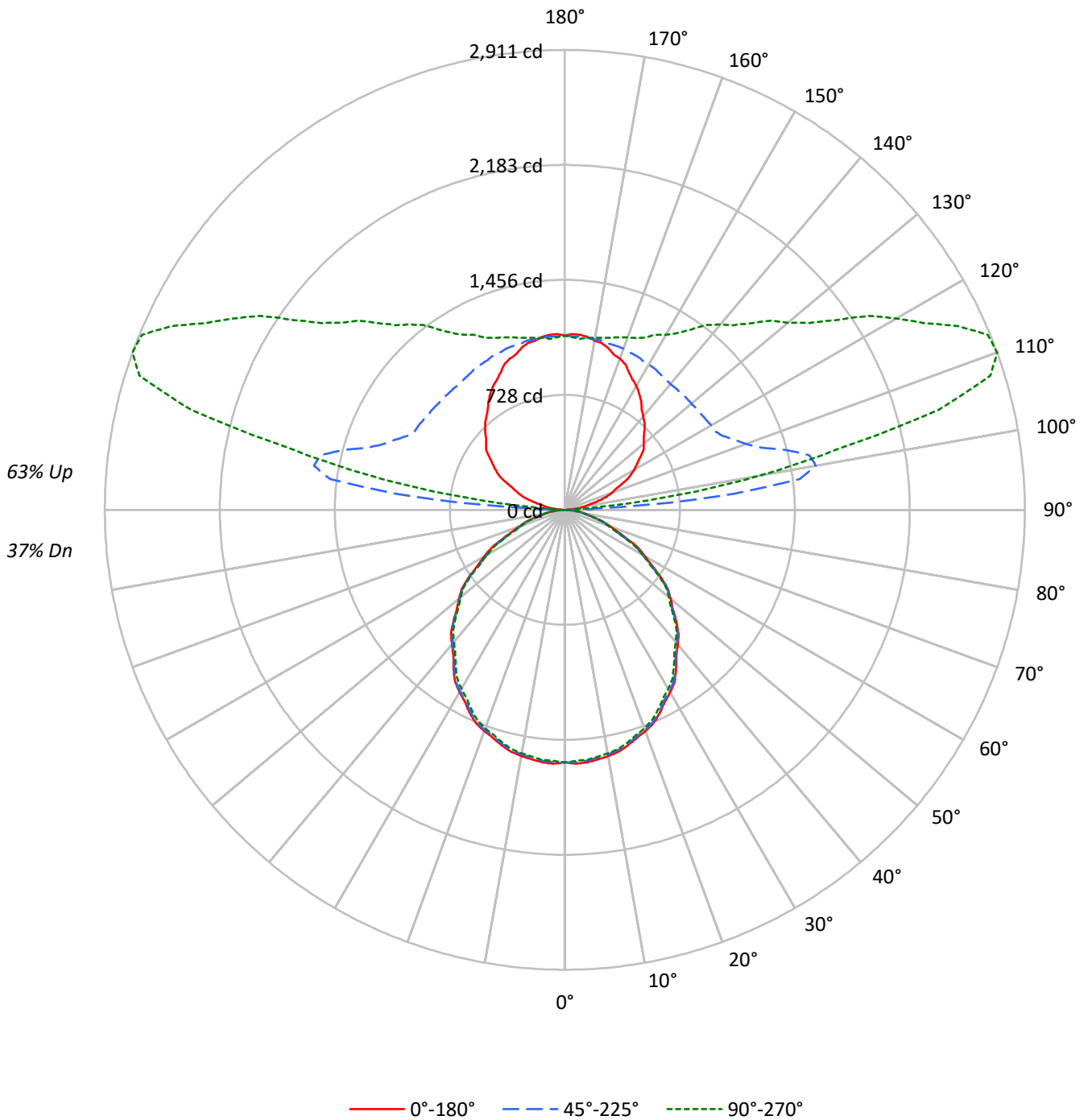
Input Watts (W): 93.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	14749	14749	14749
5°	14857	14766	14715
10°	14832	14727	14662
15°	14734	14653	14573
20°	14636	14554	14444
25°	14463	14363	14219
30°	14195	14120	13941
35°	13823	13729	13555
40°	13381	13297	13145
45°	13015	12924	12796
50°	12549	12467	12347
55°	11900	11741	11651
60°	10832	10522	10470
65°	9542	9145	9114
70°	8238	7898	7898
75°	7090	6990	6891
80°	6254	6328	6179
85°	4891	5335	5335



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.2	1.4
10°-20°	431.6	3.9
20°-30°	646.5	5.9
30°-40°	758.3	6.9
40°-50°	760.7	7.0
50°-60°	648.9	5.9
60°-70°	423.2	3.9
70°-80°	212.3	1.9
80°-90°	58.8	0.5
90°-100°	502.4	4.6
100°-110°	1429.4	13.1
110°-120°	1369.6	12.5
120°-130°	1083.9	9.9
130°-140°	870.0	8.0
140°-150°	681.1	6.2
150°-160°	498.4	4.6
160°-170°	308.7	2.8
170°-180°	104.8	1.0
0°-30°	1229.3	11.2
0°-40°	1987.6	18.2
0°-60°	3397.2	31.1
0°-90°	4091.5	37.4
90°-120°	3301.4	30.2
90°-150°	5936.5	54.3
90°-180°	6848.0	62.6
0°-180°	10939.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1599	1599	1599	1599	1599	
5°	1604	1589	1594	1589	1589	152
15°	1543	1528	1534	1528	1526	435
25°	1421	1404	1411	1398	1397	653
35°	1227	1215	1219	1205	1204	767
45°	998	991	990	981	981	768
55°	740	737	730	726	724	657
65°	437	429	419	416	418	436
75°	199	199	196	195	193	216
85°	46	50	50	50	50	54
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°	1598.6	1598.6	1598.6	1598.6	1598.6
2.5°	1608.7	1595.5	1598.6	1596.2	1589.6
5°	1604.2	1589.1	1594.4	1588.8	1588.8
7.5°	1593.3	1576.8	1582.1	1576.4	1576.2
10°	1583.2	1566.7	1572.0	1566.3	1565.0
12.5°	1568.6	1552.2	1558.5	1551.8	1551.5
15°	1542.6	1527.5	1534.1	1528.5	1525.7
17.5°	1513.1	1496.7	1504.7	1496.9	1495.8
20°	1490.7	1474.3	1482.3	1471.1	1471.1
22.5°	1463.8	1447.4	1456.5	1442.0	1442.0
25°	1420.7	1404.2	1410.9	1398.2	1396.8
27.5°	1369.4	1353.2	1360.1	1345.8	1345.6
30°	1332.4	1317.3	1325.4	1309.9	1308.6
32.5°	1292.0	1278.1	1283.9	1268.5	1267.1
35°	1227.3	1215.0	1218.9	1204.9	1203.5
37.5°	1159.2	1146.6	1151.1	1139.0	1138.5
40°	1111.0	1102.8	1104.0	1094.2	1091.4
42.5°	1066.2	1056.9	1058.1	1048.2	1047.7
45°	997.5	990.7	990.5	980.7	980.7
47.5°	924.7	919.5	918.0	909.8	909.6
50°	874.3	870.1	868.6	861.6	860.2
52.5°	821.6	819.7	814.8	809.0	808.7
55°	739.8	737.0	729.9	725.7	724.3
57.5°	650.9	645.4	637.5	631.3	632.4
60°	587.0	581.6	570.2	567.4	567.4
62.5°	525.4	518.8	507.5	503.6	505.8
65°	437.1	428.9	418.9	416.1	417.5
67.5°	357.0	349.6	338.8	338.7	337.7
70°	305.4	301.3	292.8	292.8	292.8
72.5°	259.5	257.6	251.3	251.3	250.2
75°	198.9	198.9	196.1	194.7	193.3
77.5°	149.1	149.6	148.2	146.8	144.3
80°	117.7	120.4	119.1	117.7	116.3
82.5°	88.5	91.3	91.1	88.5	88.3
85°	46.2	50.3	50.4	50.4	50.4
87.5°	12.3	16.7	17.9	18.0	19.1
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)