

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: P523964

Luminaire Tested: **SQ4-PP3-150U-100D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 5/24/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P523964  
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 (6500K)  
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 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11324.7 lumens  
Efficiency: N/A  
Efficacy: 121.9 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

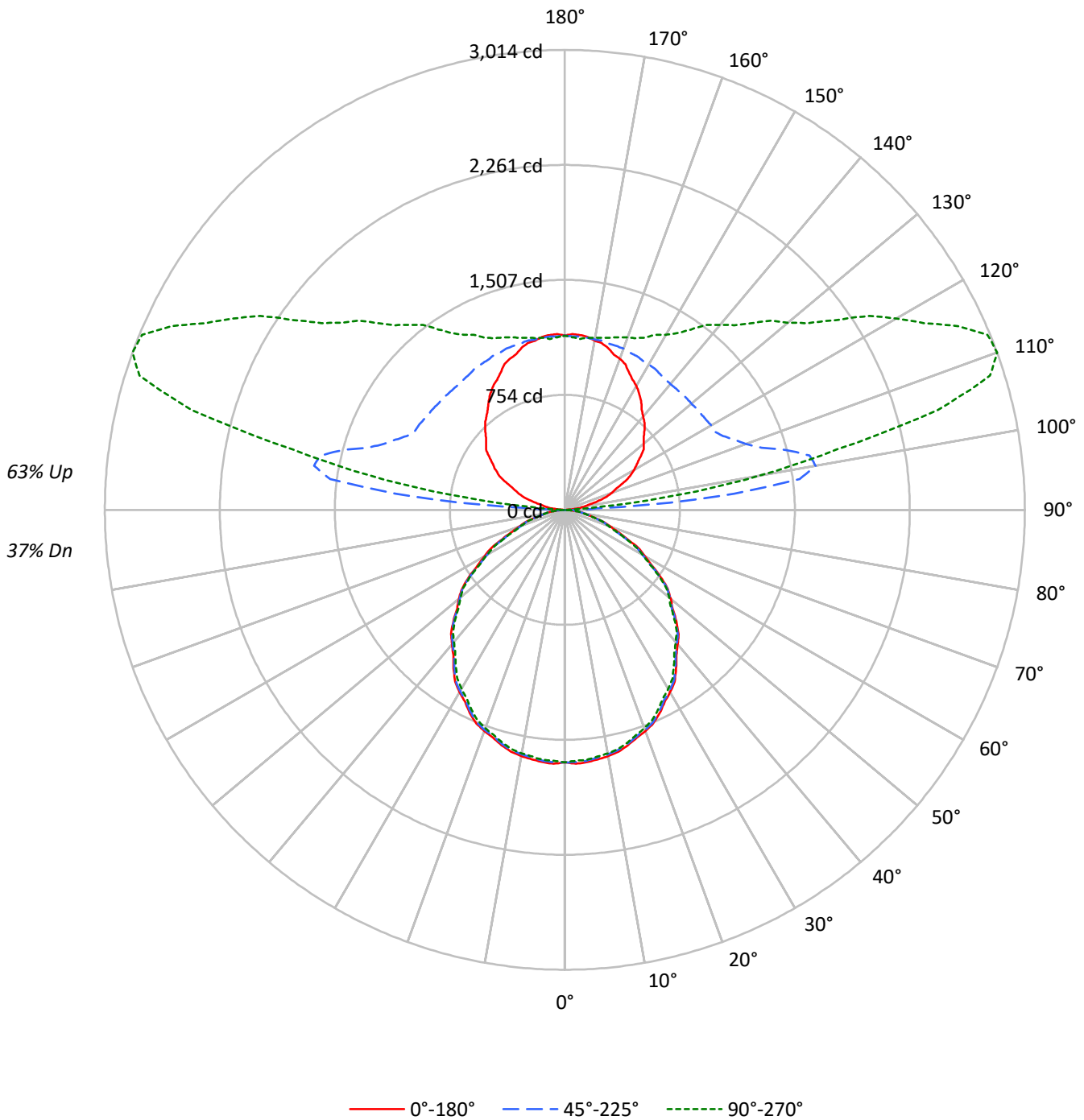
Input Watts (W): 92.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	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°	15268	15268	15268
5°	15380	15286	15232
10°	15354	15245	15177
15°	15252	15169	15086
20°	15152	15066	14952
25°	14972	14868	14720
30°	14694	14617	14431
35°	14310	14212	14032
40°	13852	13765	13607
45°	13473	13379	13246
50°	12990	12907	12782
55°	12318	12154	12061
60°	11214	10892	10839
65°	9879	9468	9435
70°	8530	8176	8176
75°	7340	7236	7133
80°	6471	6551	6397
85°	5071	5526	5526



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	156.5	1.4
10°-20°	446.8	3.9
20°-30°	669.3	5.9
30°-40°	785.0	6.9
40°-50°	787.4	7.0
50°-60°	671.8	5.9
60°-70°	438.1	3.9
70°-80°	219.8	1.9
80°-90°	60.8	0.5
90°-100°	520.1	4.6
100°-110°	1479.7	13.1
110°-120°	1417.7	12.5
120°-130°	1122.1	9.9
130°-140°	900.6	8.0
140°-150°	705.1	6.2
150°-160°	515.9	4.6
160°-170°	319.6	2.8
170°-180°	108.4	1.0
0°-30°	1272.5	11.2
0°-40°	2057.5	18.2
0°-60°	3516.8	31.1
0°-90°	4235.5	37.4
90°-120°	3417.5	30.2
90°-150°	6145.3	54.3
90°-180°	7089.0	62.6
0°-180°	11324.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1655	1655	1655	1655	1655	
5°	1661	1645	1650	1645	1645	158
15°	1597	1581	1588	1582	1579	451
25°	1471	1454	1460	1447	1446	676
35°	1270	1258	1262	1247	1246	794
45°	1033	1026	1025	1015	1015	795
55°	766	763	756	751	750	681
65°	452	444	434	431	432	452
75°	206	206	203	202	200	223
85°	48	52	52	52	52	56
90°	0	0	0	0	0	4
95°	56	224	1007	348	215	64
105°	230	349	1508	2664	2532	243
115°	427	516	1143	2422	2844	421
125°	603	669	1091	1811	2165	540
135°	738	799	1078	1530	1729	569
145°	870	915	1087	1324	1443	544
155°	994	1017	1113	1197	1245	459
165°	1098	1102	1126	1150	1167	309
175°	1150	1144	1139	1132	1124	109
180°	1141	1141	1141	1141	1141	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1654.8	1654.8	1654.8	1654.8	1654.8
2.5°	1665.3	1651.7	1654.8	1652.4	1645.6
5°	1660.6	1645.0	1650.5	1644.7	1644.7
7.5°	1649.3	1632.3	1637.7	1631.9	1631.6
10°	1638.9	1621.9	1627.3	1621.5	1620.0
12.5°	1623.8	1606.8	1613.4	1606.4	1606.1
15°	1596.8	1581.2	1588.1	1582.3	1579.4
17.5°	1566.4	1549.4	1557.7	1549.5	1548.4
20°	1543.2	1526.2	1534.5	1522.9	1522.9
22.5°	1515.3	1498.3	1507.8	1492.7	1492.7
25°	1470.7	1453.6	1460.5	1447.4	1446.0
27.5°	1417.6	1400.8	1408.0	1393.2	1392.9
30°	1379.3	1363.7	1372.0	1356.0	1354.6
32.5°	1337.5	1323.0	1329.1	1313.1	1311.7
35°	1270.5	1257.7	1261.8	1247.3	1245.8
37.5°	1200.0	1187.0	1191.6	1179.1	1178.6
40°	1150.1	1141.6	1142.9	1132.7	1129.8
42.5°	1103.7	1094.1	1095.3	1085.1	1084.6
45°	1032.6	1025.6	1025.4	1015.2	1015.2
47.5°	957.2	951.8	950.3	941.8	941.6
50°	905.0	900.8	899.2	891.9	890.5
52.5°	850.5	848.5	843.5	837.4	837.1
55°	765.8	762.9	755.6	751.2	749.8
57.5°	673.8	668.2	659.9	653.6	654.7
60°	607.7	602.0	590.3	587.4	587.4
62.5°	543.9	537.1	525.3	521.3	523.6
65°	452.5	444.0	433.7	430.8	432.2
67.5°	369.5	361.9	350.7	350.7	349.5
70°	316.2	311.9	303.1	303.1	303.1
72.5°	268.6	266.6	260.2	260.2	259.0
75°	205.9	205.9	203.0	201.6	200.1
77.5°	154.3	154.9	153.4	151.9	149.4
80°	121.8	124.7	123.3	121.8	120.4
82.5°	91.7	94.5	94.3	91.7	91.4
85°	47.9	52.1	52.2	52.2	52.2
87.5°	12.8	17.3	18.6	18.6	19.7
90°	0.0	0.0	0.0	0.0	0.0
92.5°	17.4	92.0	213.5	62.1	46.9
95°	56.4	224.0	1006.8	348.5	214.8
97.5°	103.7	262.4	1550.5	1109.5	760.3
100°	136.7	285.2	1668.5	1690.1	1301.8
102.5°	173.1	309.8	1642.5	2163.3	1824.3
105°	230.0	348.8	1508.0	2663.6	2532.1
107.5°	287.7	394.2	1350.9	2804.6	2921.8
110°	327.6	427.3	1260.6	2750.7	3013.7

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	365.8	460.4	1199.9	2623.0	2998.1
115°	427.4	516.5	1143.4	2422.3	2844.5
117.5°	481.7	565.3	1110.0	2202.9	2650.1
120°	525.1	595.1	1106.6	2077.5	2506.0
122.5°	559.8	629.8	1097.9	1967.4	2365.4
125°	603.2	669.0	1091.4	1811.1	2165.4
127.5°	650.5	712.0	1087.9	1717.7	2009.6
130°	674.8	736.3	1082.7	1652.6	1907.2
132.5°	700.8	760.6	1082.7	1601.8	1836.0
135°	737.7	799.2	1078.4	1529.8	1729.3
137.5°	772.4	832.2	1077.9	1468.9	1641.2
140°	798.5	860.0	1076.2	1418.4	1583.9
142.5°	828.0	879.3	1081.4	1378.1	1526.6
145°	870.1	914.6	1087.0	1324.1	1442.9
147.5°	906.1	949.4	1096.6	1269.5	1372.1
150°	937.3	967.0	1100.1	1251.4	1323.5
152.5°	961.6	993.0	1103.5	1227.0	1294.0
155°	993.7	1017.1	1113.1	1196.6	1245.4
157.5°	1033.7	1047.7	1115.2	1182.9	1217.7
160°	1054.5	1065.1	1123.9	1172.3	1202.0
162.5°	1066.6	1078.9	1125.7	1163.5	1186.4
165°	1097.9	1102.1	1126.1	1150.3	1167.3
167.5°	1119.1	1115.3	1136.1	1147.1	1153.9
170°	1126.1	1124.0	1132.6	1135.0	1143.4
172.5°	1141.7	1134.5	1137.8	1131.4	1138.2
175°	1150.0	1143.6	1139.1	1132.4	1123.9
177.5°	1153.4	1143.2	1137.8	1130.9	1132.6
180°	1141.3	1141.3	1141.3	1141.3	1141.3

(END OF REPORT)