

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: P562499

Luminaire Tested: **SQ4-PW1-150U-125D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562499  
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-125D-92765-1D-UNV-STD-W-4 (6500K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS  
DOWNLIGHT 1250 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**

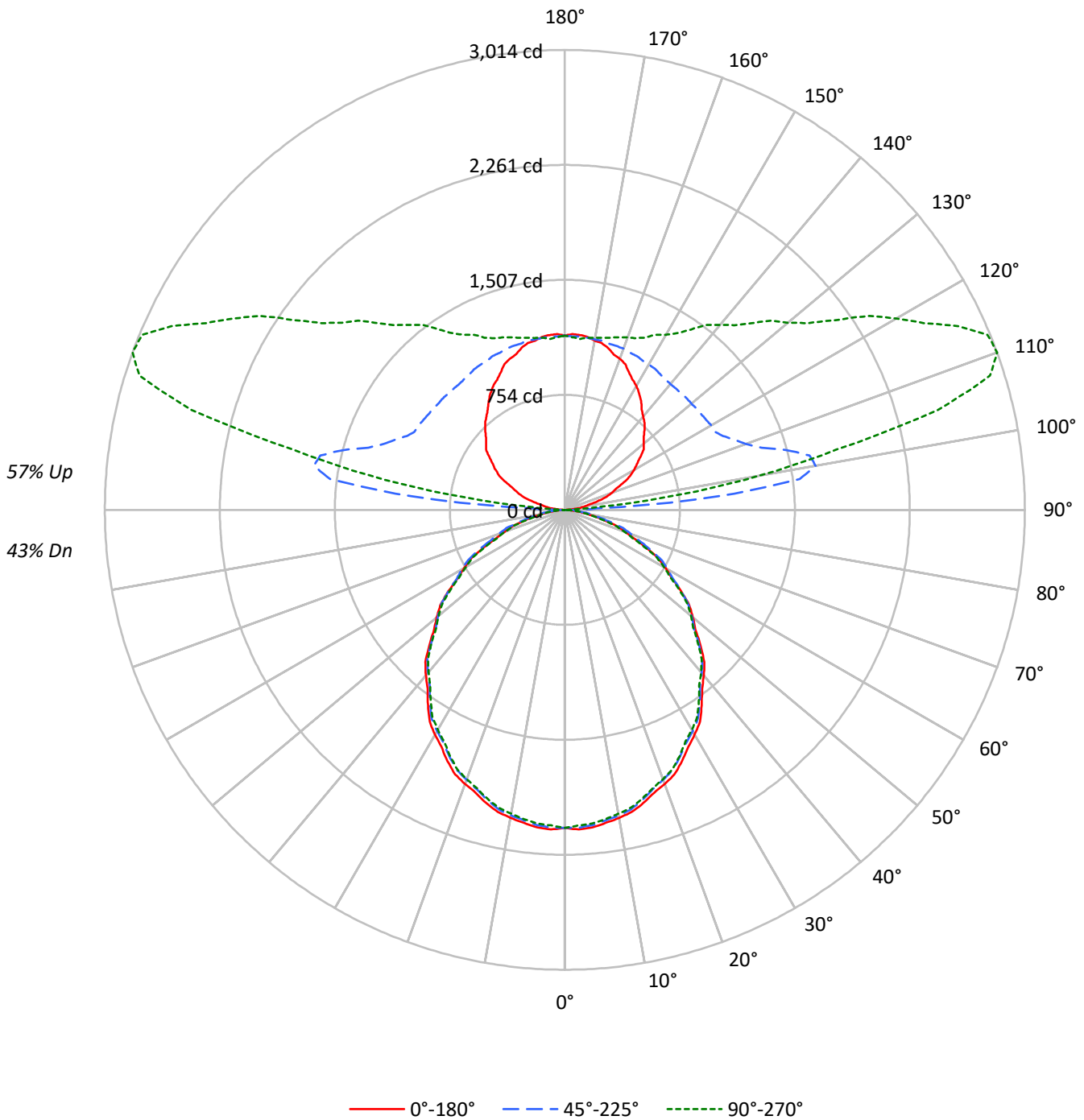
Lumens per Lamp: N/A  
Luminaire Lumens: 12393.1 lumens  
Efficiency: N/A  
Efficacy: 116.7 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 106.2  
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	105	105	105	105	96	96	96	96	79	79	79	64	64	64	50	50	50	43
1	96	92	88	85	88	84	81	78	70	67	65	56	55	53	44	43	42	36
2	88	80	74	69	80	74	69	64	61	57	54	49	47	45	39	37	35	30
3	80	71	64	58	73	65	59	54	54	49	46	44	40	38	34	32	30	26
4	73	63	55	49	67	57	51	45	48	43	39	39	35	32	31	28	26	22
5	67	56	48	42	61	51	44	39	43	38	33	35	31	28	28	25	23	19
6	62	50	42	36	56	46	39	34	39	33	29	32	28	25	25	22	20	17
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	23	20	18	15
8	53	41	33	28	48	38	31	26	32	26	23	26	22	19	21	18	16	13
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12
10	46	34	27	22	42	32	25	21	27	22	18	22	18	16	18	15	13	11

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

	0°	45°	90°
0°	19233	19233	19233
5°	19357	19205	19119
10°	19203	19048	18945
15°	18999	18789	18718
20°	18773	18484	18448
25°	18510	18174	18117
30°	18119	17846	17727
35°	17604	17356	17253
40°	17055	16789	16723
45°	16392	16177	16104
50°	15713	15581	15474
55°	14979	14979	14742
60°	14064	14336	13828
65°	12872	13513	12551
70°	11346	12436	11049
75°	9689	11129	9429
80°	7513	9367	7614
85°	4859	7198	6415



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	196.3	1.6
10°-20°	554.2	4.5
20°-30°	822.1	6.6
30°-40°	961.9	7.8
40°-50°	957.6	7.7
50°-60°	826.9	6.7
60°-70°	595.2	4.8
70°-80°	312.2	2.5
80°-90°	77.4	0.6
90°-100°	520.1	4.2
100°-110°	1479.7	11.9
110°-120°	1417.7	11.4
120°-130°	1122.1	9.1
130°-140°	900.6	7.3
140°-150°	705.1	5.7
150°-160°	515.9	4.2
160°-170°	319.6	2.6
170°-180°	108.4	0.9
0°-30°	1572.6	12.7
0°-40°	2534.5	20.5
0°-60°	4319.1	34.9
0°-90°	5303.9	42.8
90°-120°	3417.5	27.6
90°-150°	6145.3	49.6
90°-180°	7089.0	57.2
0°-180°	12393.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2085	2085	2085	2085	2085	
5°	2090	2067	2074	2068	2064	198
15°	1989	1964	1967	1963	1960	561
25°	1818	1788	1785	1774	1780	836
35°	1563	1542	1541	1526	1532	977
45°	1256	1246	1240	1236	1234	969
55°	931	929	931	918	916	831
65°	590	608	619	595	575	584
75°	272	297	312	291	264	291
85°	46	60	68	64	61	61
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°	2084.6	2084.6	2084.6	2084.6	2084.6
2.5°	2096.4	2079.1	2084.6	2080.0	2069.9
5°	2090.1	2066.8	2073.6	2068.0	2064.4
7.5°	2068.8	2047.3	2052.3	2046.4	2044.2
10°	2049.7	2028.2	2033.2	2025.8	2022.2
12.5°	2027.7	2004.7	2009.7	2002.3	2000.1
15°	1989.1	1964.0	1967.1	1963.3	1959.7
17.5°	1944.3	1918.8	1919.3	1913.4	1912.7
20°	1912.0	1885.0	1882.6	1875.3	1878.9
22.5°	1876.7	1848.3	1845.9	1835.7	1840.7
25°	1818.3	1787.8	1785.3	1774.4	1779.7
27.5°	1750.7	1720.6	1720.6	1705.3	1711.1
30°	1700.8	1672.0	1675.1	1656.8	1664.0
32.5°	1647.9	1622.0	1623.6	1605.4	1612.6
35°	1563.0	1541.5	1541.0	1526.4	1531.8
37.5°	1476.3	1457.3	1454.3	1445.9	1447.3
40°	1416.1	1399.9	1394.0	1388.5	1388.5
42.5°	1352.9	1338.2	1332.3	1328.3	1326.8
45°	1256.3	1245.5	1239.8	1236.0	1234.2
47.5°	1160.8	1150.7	1145.7	1143.1	1141.3
50°	1094.7	1087.5	1085.5	1079.9	1078.1
52.5°	1028.5	1024.2	1022.3	1015.3	1013.5
55°	931.2	929.4	931.2	918.3	916.5
57.5°	829.8	832.7	838.6	821.3	817.0
60°	762.2	769.4	776.9	756.5	749.4
62.5°	693.2	704.7	715.2	691.8	681.8
65°	589.6	607.5	619.0	594.6	574.9
67.5°	489.7	511.9	525.7	499.4	477.2
70°	420.6	445.7	461.0	434.7	409.6
72.5°	360.4	388.4	400.8	375.9	350.8
75°	271.8	297.0	312.2	291.4	264.5
77.5°	192.9	216.6	229.2	211.1	188.8
80°	141.4	166.6	176.3	161.2	143.3
82.5°	100.3	121.1	127.8	118.7	106.5
85°	45.9	60.3	68.0	64.2	60.6
87.5°	11.8	21.8	27.9	28.0	29.4
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)