

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: P562133

Luminaire Tested: **SQ4-PR1-150U-125D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562133  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PR1-150U-125D-92765-1D-UNV-STD-W-4 (5000K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

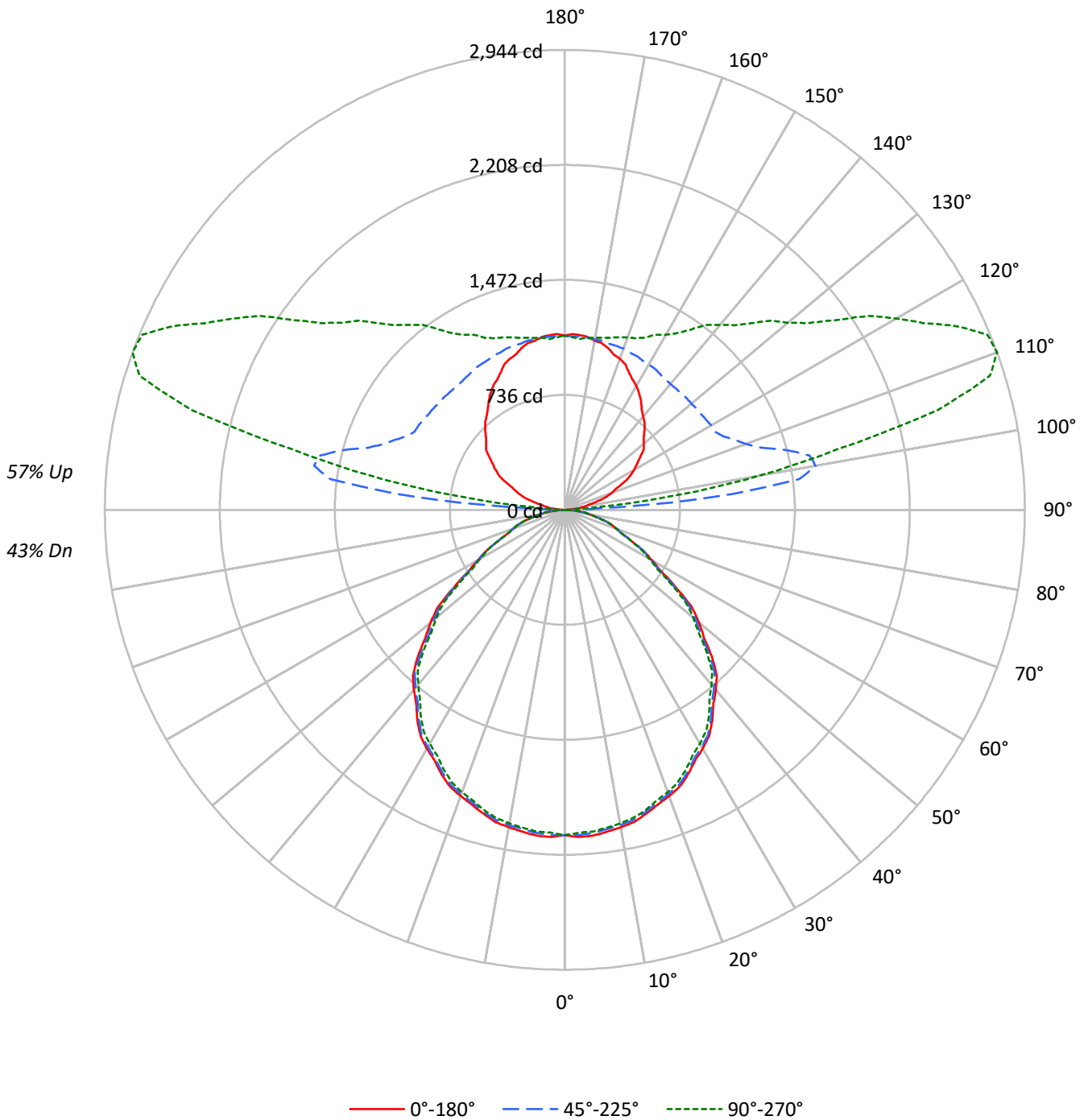
Lumens per Lamp: N/A  
Luminaire Lumens: 12130.5 lumens  
Efficiency: N/A  
Efficacy: 113.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 106.8  
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	89	85	88	84	81	78	70	68	66	57	55	54	44	43	42	37
2	88	81	75	70	80	74	69	65	62	58	55	50	47	45	39	38	36	31
3	80	71	64	58	73	65	59	54	54	50	46	44	41	38	35	33	31	27
4	74	63	55	50	67	58	51	46	49	44	40	40	36	33	31	29	27	23
5	68	56	48	43	62	52	45	40	43	38	34	36	32	29	28	26	23	20
6	62	50	43	37	57	47	40	35	39	34	30	32	28	25	26	23	21	18
7	58	46	38	32	53	42	35	30	35	30	26	29	25	22	24	21	18	16
8	53	41	34	29	49	38	31	27	32	27	23	27	23	20	22	19	17	14
9	50	38	30	25	45	35	28	24	30	24	21	25	21	18	20	17	15	13
10	46	35	27	23	42	32	26	21	27	22	19	23	19	16	18	16	14	12

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

	0°	45°	90°
0°	19215	19215	19215
5°	19388	19239	19139
10°	19327	19192	19091
15°	19242	19122	19019
20°	19145	19022	18881
25°	19010	18883	18663
30°	18806	18671	18404
35°	18528	18366	18103
40°	18106	17911	17587
45°	17368	17063	16712
50°	16067	15681	15371
55°	14023	13706	13417
60°	11817	11717	11487
65°	10221	10261	10182
70°	9388	9436	9436
75°	9015	9015	9079
80°	8485	8575	8485
85°	6838	7601	7601



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	196.9	1.6
10°-20°	563.5	4.6
20°-30°	849.9	7.0
30°-40°	1012.7	8.3
40°-50°	998.4	8.2
50°-60°	763.0	6.3
60°-70°	472.2	3.9
70°-80°	268.2	2.2
80°-90°	81.6	0.7
90°-100°	507.9	4.2
100°-110°	1445.2	11.9
110°-120°	1384.7	11.4
120°-130°	1095.9	9.0
130°-140°	879.7	7.3
140°-150°	688.7	5.7
150°-160°	503.9	4.2
160°-170°	312.1	2.6
170°-180°	105.9	0.9
0°-30°	1610.4	13.3
0°-40°	2623.0	21.6
0°-60°	4384.5	36.1
0°-90°	5206.5	42.9
90°-120°	3337.9	27.5
90°-150°	6002.1	49.5
90°-180°	6924.0	57.1
0°-180°	12130.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2083	2083	2083	2083	2083	
5°	2093	2071	2077	2070	2066	199
15°	2014	1994	2002	1995	1991	568
25°	1867	1845	1855	1835	1833	859
35°	1645	1626	1631	1609	1607	1027
45°	1331	1314	1308	1284	1281	1020
55°	872	858	852	838	834	781
65°	468	465	470	466	466	474
75°	253	253	253	255	255	267
85°	65	68	72	72	72	75
90°	0	0	0	0	0	5
95°	55	219	983	340	210	63
105°	225	341	1473	2602	2473	238
115°	418	504	1117	2366	2778	411
125°	589	653	1066	1769	2115	527
135°	720	781	1053	1494	1689	556
145°	850	893	1062	1293	1409	531
155°	971	993	1087	1169	1216	449
165°	1072	1076	1100	1124	1140	302
175°	1123	1117	1113	1106	1098	106
180°	1115	1115	1115	1115	1115	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2082.7	2082.7	2082.7	2082.7	2082.7
2.5°	2095.6	2077.4	2082.7	2078.2	2068.3
5°	2093.4	2070.6	2077.3	2070.0	2066.5
7.5°	2077.3	2054.9	2061.5	2054.3	2052.2
10°	2063.0	2041.9	2048.6	2041.3	2037.8
12.5°	2047.2	2024.7	2032.8	2024.1	2020.6
15°	2014.5	1993.5	2002.0	1994.7	1991.2
17.5°	1978.6	1956.2	1964.6	1956.3	1951.7
20°	1949.9	1928.9	1937.4	1924.8	1923.0
22.5°	1918.4	1897.3	1905.8	1888.9	1888.6
25°	1867.4	1844.6	1854.9	1835.1	1833.3
27.5°	1806.8	1785.7	1794.2	1774.1	1772.0
30°	1765.2	1744.1	1752.6	1731.0	1727.5
32.5°	1717.8	1698.2	1705.3	1683.7	1681.6
35°	1645.0	1625.7	1630.6	1609.1	1607.3
37.5°	1562.1	1544.6	1547.4	1523.7	1521.9
40°	1503.3	1485.7	1487.1	1462.0	1460.2
42.5°	1438.7	1421.1	1419.7	1394.5	1392.8
45°	1331.1	1313.5	1307.7	1284.3	1280.8
47.5°	1208.4	1190.8	1180.0	1160.9	1158.5
50°	1119.4	1101.8	1092.5	1076.2	1070.9
52.5°	1023.2	1005.7	997.8	982.9	977.7
55°	871.8	857.8	852.1	837.7	834.1
57.5°	728.0	718.5	716.8	702.8	701.4
60°	640.4	635.1	635.0	622.5	622.5
62.5°	565.8	561.9	564.7	556.4	555.0
65°	468.2	464.7	470.0	466.4	466.4
67.5°	391.1	391.1	394.3	392.9	392.9
70°	348.0	348.0	349.8	349.8	349.8
72.5°	309.3	307.9	312.5	312.5	311.1
75°	252.9	252.9	252.9	254.7	254.7
77.5°	197.0	197.3	198.8	198.4	197.0
80°	159.7	161.4	161.4	159.7	159.7
82.5°	122.3	124.1	124.1	123.7	122.3
85°	64.6	68.1	71.8	71.8	71.8
87.5°	18.7	24.3	28.7	28.7	27.3
90°	0.0	0.0	0.0	0.0	0.0
92.5°	17.0	89.9	208.5	60.7	45.8
95°	55.1	218.8	983.3	340.3	209.8
97.5°	101.3	256.3	1514.4	1083.6	742.6
100°	133.5	278.6	1629.6	1650.7	1271.5
102.5°	169.1	302.6	1604.2	2112.9	1781.8
105°	224.6	340.7	1472.8	2601.5	2473.1
107.5°	281.0	385.0	1319.4	2739.3	2853.7
110°	320.0	417.4	1231.2	2686.6	2943.5

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	357.3	449.7	1171.9	2561.9	2928.3
115°	417.5	504.5	1116.8	2365.9	2778.2
117.5°	470.5	552.1	1084.2	2151.6	2588.3
120°	512.8	581.2	1080.8	2029.1	2447.6
122.5°	546.7	615.1	1072.3	1921.6	2310.3
125°	589.1	653.4	1065.9	1768.9	2114.9
127.5°	635.3	695.4	1062.5	1677.6	1962.8
130°	659.1	719.1	1057.5	1614.1	1862.7
132.5°	684.5	742.9	1057.5	1564.5	1793.2
135°	720.5	780.6	1053.2	1494.2	1689.0
137.5°	754.4	812.9	1052.8	1434.7	1602.9
140°	779.9	839.9	1051.1	1385.4	1547.0
142.5°	808.7	858.8	1056.2	1346.0	1491.0
145°	849.8	893.3	1061.7	1293.2	1409.2
147.5°	885.0	927.2	1071.0	1239.9	1340.2
150°	915.5	944.5	1074.4	1222.2	1292.7
152.5°	939.2	969.9	1077.8	1198.4	1263.9
155°	970.6	993.4	1087.1	1168.7	1216.4
157.5°	1009.6	1023.2	1089.2	1155.3	1189.3
160°	1029.9	1040.3	1097.7	1145.0	1174.0
162.5°	1041.8	1053.8	1099.4	1136.4	1158.8
165°	1072.3	1076.4	1099.8	1123.5	1140.1
167.5°	1093.1	1089.3	1109.6	1120.3	1127.0
170°	1099.8	1097.8	1106.2	1108.5	1116.8
172.5°	1115.1	1108.1	1111.3	1105.1	1111.7
175°	1123.2	1116.9	1112.6	1106.0	1097.7
177.5°	1126.5	1116.6	1111.3	1104.5	1106.2
180°	1114.7	1114.7	1114.7	1114.7	1114.7

(END OF REPORT)