

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: P523974

Luminaire Tested: **SQ4-PP3-150U-125D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/24/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P523974  
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-125D-92765-1D-UNV-STD-W-4 (4500K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS  
DOWNLIGHT 1250 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: 12028.5 lumens  
Efficiency: N/A  
Efficacy: 112.6 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: General Diffuse

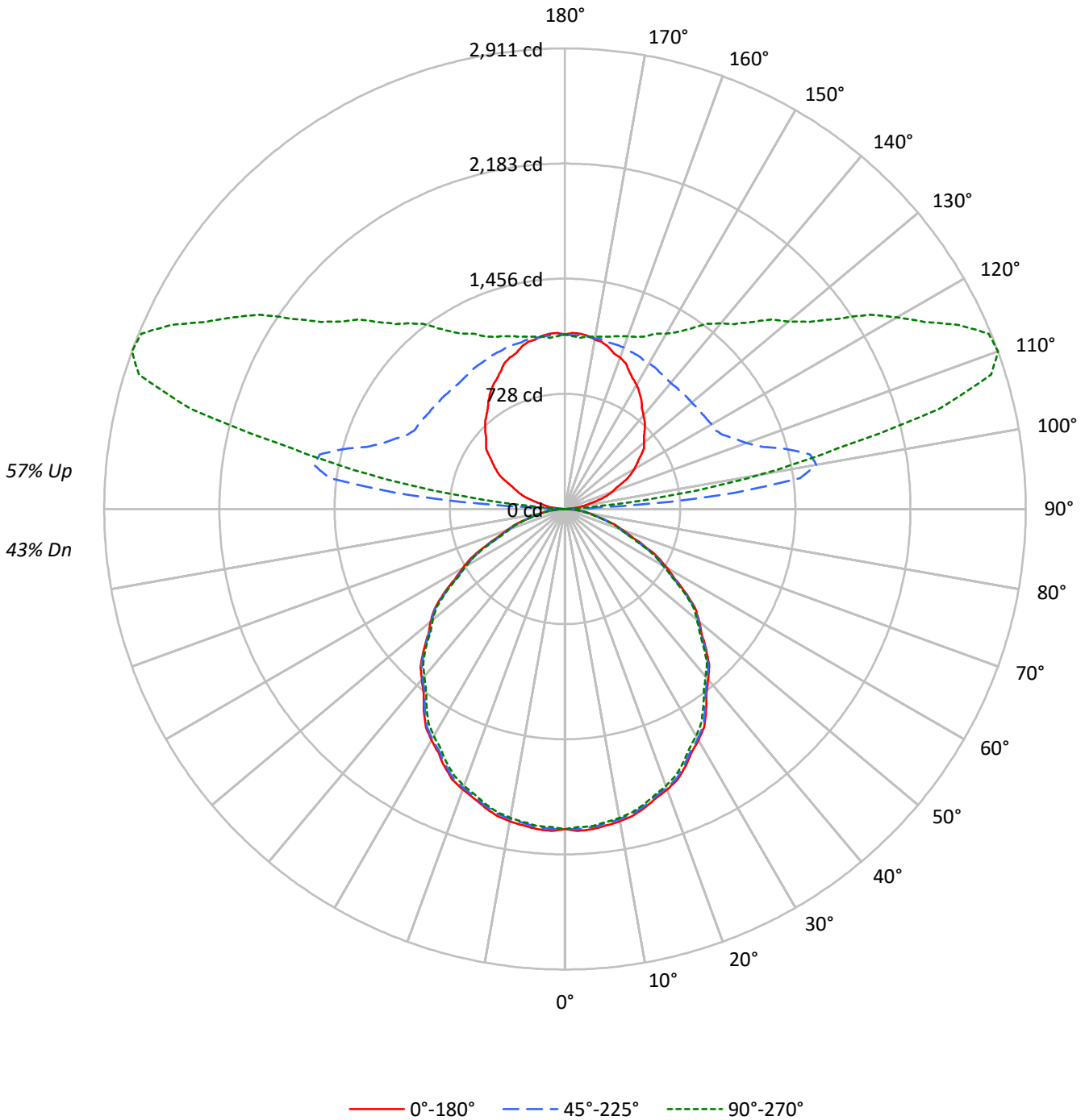
Input Watts (W): 106.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	88	85	88	84	81	78	70	68	66	57	55	54	44	43	42	37
2	88	81	75	70	80	74	69	65	61	58	55	50	47	45	39	37	36	31
3	80	71	64	58	73	65	59	54	54	50	46	44	41	38	35	33	31	26
4	73	63	55	49	67	58	51	46	48	43	39	39	36	33	31	29	27	23
5	67	56	48	42	61	52	45	39	43	38	34	35	31	28	28	25	23	20
6	62	50	42	37	57	46	39	34	39	33	29	32	28	25	25	23	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	49	38	31	26	32	27	23	27	23	20	21	18	16	14
9	49	37	30	25	45	35	28	24	29	24	21	24	20	18	20	17	15	12
10	46	34	27	22	42	32	25	21	27	22	18	22	19	16	18	15	13	11

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

	0°	45°	90°
0°	18673	18673	18673
5°	18810	18695	18629
10°	18778	18645	18563
15°	18654	18552	18451
20°	18530	18426	18287
25°	18311	18183	18003
30°	17971	17877	17651
35°	17502	17381	17162
40°	16941	16835	16642
45°	16479	16363	16201
50°	15888	15786	15632
55°	15066	14866	14752
60°	13714	13321	13256
65°	12081	11579	11540
70°	10431	10000	10000
75°	8980	8851	8726
80°	7917	8012	7821
85°	6193	6764	6764



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	191.4	1.6
10°-20°	546.5	4.5
20°-30°	818.5	6.8
30°-40°	960.1	8.0
40°-50°	963.1	8.0
50°-60°	821.6	6.8
60°-70°	535.8	4.5
70°-80°	268.8	2.2
80°-90°	74.4	0.6
90°-100°	502.4	4.2
100°-110°	1429.4	11.9
110°-120°	1369.6	11.4
120°-130°	1083.9	9.0
130°-140°	870.0	7.2
140°-150°	681.1	5.7
150°-160°	498.4	4.1
160°-170°	308.7	2.6
170°-180°	104.8	0.9
0°-30°	1556.4	12.9
0°-40°	2516.4	20.9
0°-60°	4301.1	35.8
0°-90°	5180.2	43.1
90°-120°	3301.4	27.4
90°-150°	5936.5	49.4
90°-180°	6848.0	56.9
0°-180°	12028.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2024	2024	2024	2024	2024	
5°	2031	2012	2019	2012	2012	193
15°	1953	1934	1942	1935	1932	551
25°	1799	1778	1786	1770	1768	827
35°	1554	1538	1543	1525	1524	971
45°	1263	1254	1254	1242	1242	972
55°	937	933	924	919	917	832
65°	553	543	530	527	529	552
75°	252	252	248	246	245	273
85°	58	64	64	64	64	69
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°	2023.9	2023.9	2023.9	2023.9	2023.9
2.5°	2036.7	2020.1	2023.9	2020.9	2012.6
5°	2031.0	2011.9	2018.6	2011.5	2011.5
7.5°	2017.2	1996.4	2003.0	1995.9	1995.6
10°	2004.4	1983.6	1990.2	1983.1	1981.4
12.5°	1986.0	1965.2	1973.2	1964.7	1964.3
15°	1953.0	1933.9	1942.3	1935.2	1931.7
17.5°	1915.7	1894.9	1905.1	1895.1	1893.7
20°	1887.3	1866.5	1876.7	1862.5	1862.5
22.5°	1853.3	1832.5	1844.1	1825.6	1825.6
25°	1798.7	1777.8	1786.2	1770.2	1768.5
27.5°	1733.7	1713.3	1722.0	1703.9	1703.6
30°	1686.9	1667.8	1678.0	1658.5	1656.8
32.5°	1635.8	1618.1	1625.5	1606.0	1604.2
35°	1553.9	1538.3	1543.2	1525.4	1523.7
37.5°	1467.7	1451.7	1457.4	1442.1	1441.4
40°	1406.6	1396.2	1397.8	1385.3	1381.8
42.5°	1349.9	1338.1	1339.6	1327.2	1326.5
45°	1263.0	1254.3	1254.1	1241.7	1241.7
47.5°	1170.7	1164.1	1162.2	1151.9	1151.6
50°	1106.9	1101.7	1099.8	1090.9	1089.1
52.5°	1040.2	1037.7	1031.7	1024.2	1023.9
55°	936.6	933.1	924.2	918.8	917.1
57.5°	824.1	817.2	807.1	799.3	800.7
60°	743.2	736.3	721.9	718.4	718.4
62.5°	665.2	656.9	642.5	637.6	640.4
65°	553.4	543.0	530.4	526.9	528.6
67.5°	452.0	442.6	428.9	428.9	427.5
70°	386.7	381.5	370.7	370.7	370.7
72.5°	328.5	326.1	318.2	318.2	316.8
75°	251.9	251.9	248.3	246.5	244.8
77.5°	188.7	189.4	187.7	185.8	182.7
80°	149.0	152.5	150.8	149.0	147.2
82.5°	112.1	115.6	115.3	112.1	111.8
85°	58.5	63.7	63.9	63.9	63.9
87.5°	15.6	21.2	22.7	22.7	24.1
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)