

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: P523973

Luminaire Tested: **SQ4-PP3-150U-125D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/24/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P523973  
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 (4000K)  
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 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11837.5 lumens  
Efficiency: N/A  
Efficacy: 110.6 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

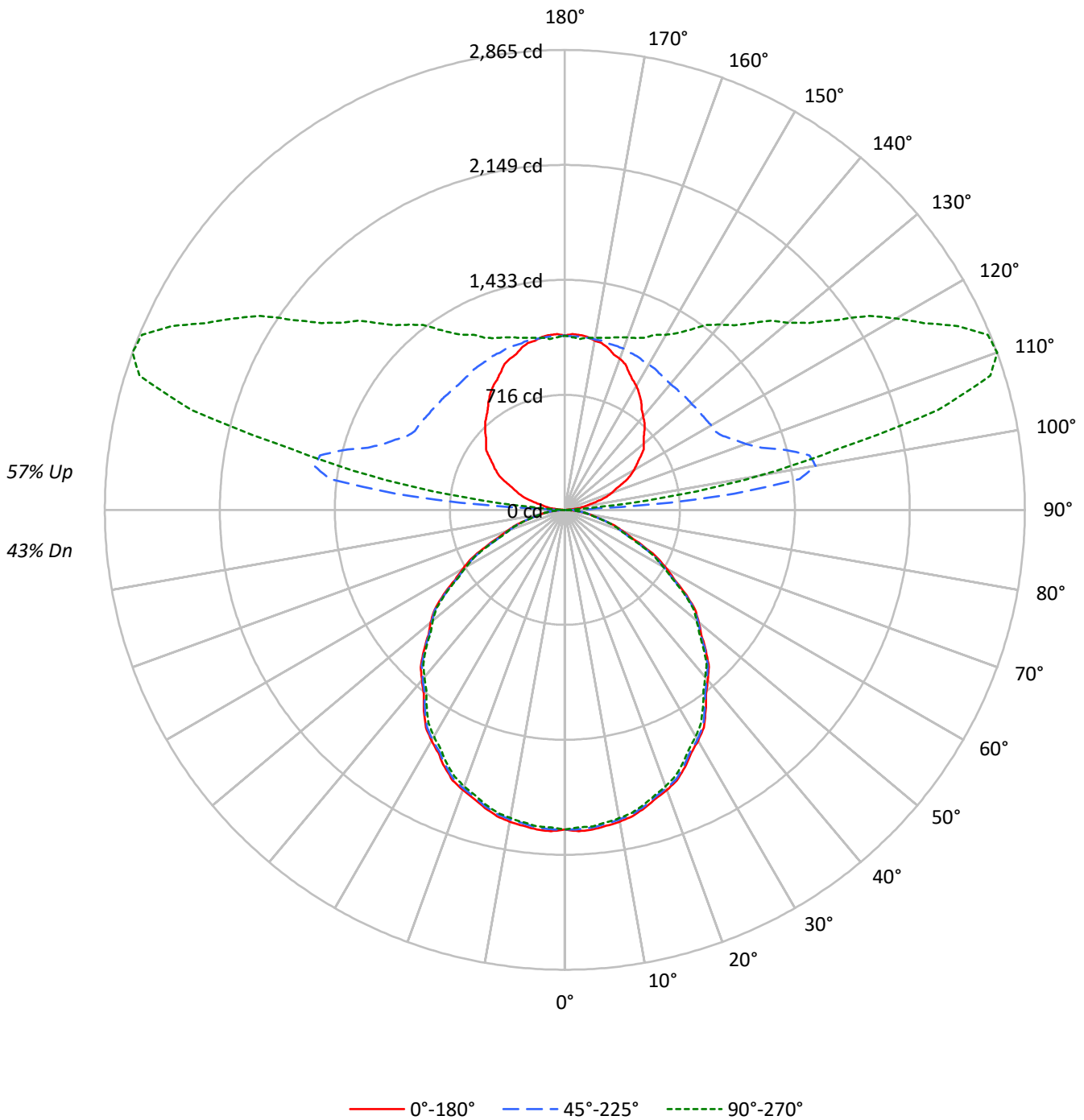
Input Watts (W): 107  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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°	18377	18377	18377
5°	18512	18399	18334
10°	18480	18349	18268
15°	18358	18258	18158
20°	18237	18133	17996
25°	18020	17895	17717
30°	17686	17593	17371
35°	17224	17105	16889
40°	16672	16568	16379
45°	16217	16104	15944
50°	15635	15535	15384
55°	14826	14630	14517
60°	13496	13110	13046
65°	11889	11396	11357
70°	10267	9841	9841
75°	8837	8712	8587
80°	7789	7885	7699
85°	6097	6648	6648



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	188.3	1.6
10°-20°	537.8	4.5
20°-30°	805.5	6.8
30°-40°	944.8	8.0
40°-50°	947.8	8.0
50°-60°	808.5	6.8
60°-70°	527.3	4.5
70°-80°	264.5	2.2
80°-90°	73.2	0.6
90°-100°	494.4	4.2
100°-110°	1406.7	11.9
110°-120°	1347.8	11.4
120°-130°	1066.7	9.0
130°-140°	856.2	7.2
140°-150°	670.3	5.7
150°-160°	490.5	4.1
160°-170°	303.8	2.6
170°-180°	103.1	0.9
0°-30°	1531.7	12.9
0°-40°	2476.5	20.9
0°-60°	4232.8	35.8
0°-90°	5097.9	43.1
90°-120°	3249.0	27.4
90°-150°	5842.2	49.4
90°-180°	6740.0	56.9
0°-180°	11837.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1992	1992	1992	1992	1992	
5°	1999	1980	1987	1980	1980	190
15°	1922	1903	1912	1904	1901	542
25°	1770	1750	1758	1742	1740	814
35°	1529	1514	1519	1501	1500	955
45°	1243	1234	1234	1222	1222	957
55°	922	918	910	904	902	819
65°	545	534	522	518	520	544
75°	248	248	244	243	241	269
85°	58	63	63	63	63	68
90°	0	0	0	0	0	4
95°	54	213	957	331	204	61
105°	219	332	1434	2532	2407	231
115°	406	491	1087	2303	2704	400
125°	573	636	1038	1722	2059	513
135°	701	760	1025	1454	1644	541
145°	827	870	1033	1259	1372	517
155°	945	967	1058	1138	1184	437
165°	1044	1048	1070	1094	1110	294
175°	1093	1087	1083	1076	1068	104
180°	1085	1085	1085	1085	1085	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1991.8	1991.8	1991.8	1991.8	1991.8
2.5°	2004.4	1988.0	1991.8	1988.8	1980.6
5°	1998.8	1980.0	1986.6	1979.6	1979.6
7.5°	1985.2	1964.7	1971.2	1964.2	1963.9
10°	1972.6	1952.1	1958.6	1951.6	1949.9
12.5°	1954.4	1934.0	1941.9	1933.5	1933.1
15°	1922.0	1903.2	1911.5	1904.4	1901.0
17.5°	1885.3	1864.8	1874.8	1865.0	1863.7
20°	1857.4	1836.9	1846.9	1832.9	1832.9
22.5°	1823.9	1803.4	1814.8	1796.6	1796.6
25°	1770.1	1749.6	1757.9	1742.1	1740.4
27.5°	1706.2	1686.1	1694.7	1676.9	1676.5
30°	1660.1	1641.4	1651.4	1632.2	1630.5
32.5°	1609.9	1592.4	1599.7	1580.5	1578.8
35°	1529.2	1513.8	1518.7	1501.2	1499.5
37.5°	1444.4	1428.7	1434.2	1419.2	1418.5
40°	1384.3	1374.1	1375.6	1363.3	1359.9
42.5°	1328.5	1316.8	1318.3	1306.1	1305.4
45°	1242.9	1234.4	1234.2	1222.0	1222.0
47.5°	1152.1	1145.7	1143.8	1133.6	1133.3
50°	1089.3	1084.2	1082.3	1073.5	1071.8
52.5°	1023.7	1021.3	1015.3	1007.9	1007.6
55°	921.7	918.3	909.5	904.2	902.5
57.5°	811.0	804.2	794.3	786.6	788.0
60°	731.4	724.6	710.5	707.0	707.0
62.5°	654.6	646.4	632.3	627.5	630.2
65°	544.6	534.4	522.0	518.5	520.2
67.5°	444.8	435.6	422.1	422.1	420.7
70°	380.6	375.4	364.8	364.8	364.8
72.5°	323.3	320.9	313.2	313.1	311.8
75°	247.9	247.9	244.4	242.6	240.9
77.5°	185.7	186.4	184.7	182.9	179.8
80°	146.6	150.0	148.4	146.6	144.9
82.5°	110.3	113.7	113.5	110.3	110.0
85°	57.6	62.7	62.8	62.8	62.8
87.5°	15.4	20.8	22.3	22.4	23.7
90°	0.0	0.0	0.0	0.0	0.0
92.5°	16.5	87.5	203.0	59.1	44.6
95°	53.6	213.0	957.1	331.3	204.2
97.5°	98.6	249.5	1474.0	1054.7	722.8
100°	129.9	271.1	1586.2	1606.7	1237.6
102.5°	164.6	294.5	1561.5	2056.6	1734.3
105°	218.6	331.6	1433.6	2532.2	2407.2
107.5°	273.5	374.8	1284.2	2666.3	2777.6
110°	311.5	406.3	1198.4	2615.0	2865.1

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	347.8	437.7	1140.7	2493.7	2850.2
115°	406.4	491.1	1087.0	2302.8	2704.2
117.5°	457.9	537.4	1055.3	2094.2	2519.4
120°	499.2	565.7	1052.0	1975.0	2382.4
122.5°	532.2	598.7	1043.7	1870.4	2248.8
125°	573.4	636.0	1037.5	1721.8	2058.6
127.5°	618.4	676.9	1034.2	1632.9	1910.5
130°	641.5	700.0	1029.3	1571.1	1813.1
132.5°	666.3	723.1	1029.3	1522.8	1745.5
135°	701.3	759.8	1025.2	1454.4	1644.0
137.5°	734.3	791.2	1024.7	1396.5	1560.2
140°	759.1	817.6	1023.1	1348.5	1505.8
142.5°	787.1	835.9	1028.0	1310.1	1451.3
145°	827.1	869.5	1033.4	1258.7	1371.7
147.5°	861.4	902.5	1042.5	1206.8	1304.4
150°	891.1	919.3	1045.8	1189.7	1258.2
152.5°	914.2	944.0	1049.1	1166.5	1230.2
155°	944.7	966.9	1058.2	1137.6	1184.0
157.5°	982.7	996.0	1060.2	1124.5	1157.6
160°	1002.5	1012.6	1068.5	1114.5	1142.7
162.5°	1014.0	1025.7	1070.1	1106.1	1127.9
165°	1043.7	1047.8	1070.5	1093.6	1109.7
167.5°	1063.9	1060.3	1080.0	1090.5	1096.9
170°	1070.5	1068.5	1076.7	1079.0	1087.0
172.5°	1085.4	1078.5	1081.7	1075.6	1082.1
175°	1093.2	1087.2	1082.9	1076.5	1068.5
177.5°	1096.5	1086.8	1081.7	1075.1	1076.7
180°	1085.0	1085.0	1085.0	1085.0	1085.0

(END OF REPORT)