

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P521699

Luminaire Tested: **SQ4-F-150U-125D-93050-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/5/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P521699  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-50,  
Test Lab: INNOVATION CENTER  
Issue Date: 5/5/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-F-150U-125D-93050-1D-UNV-STD-W-4 (3000K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

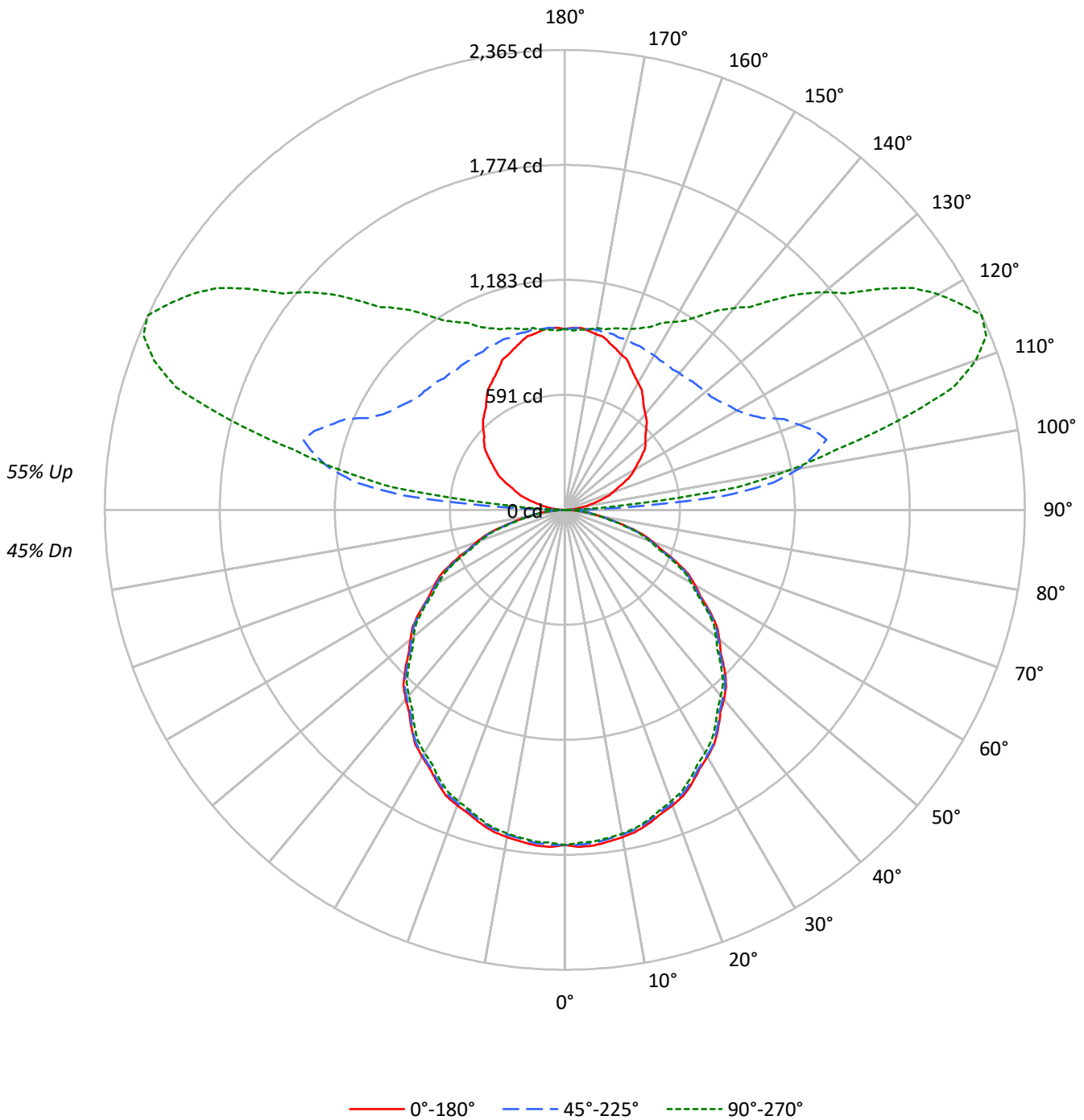
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10930.9 lumens  
Efficiency: N/A  
Efficacy: 102.6 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.25 / 1.38  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 106.5  
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

TEST NUMBER: P521699  
CATALOG NUMBER: SQ4-F-150U-125D-93050-1D-UNV-STD-W-4 (3000K)

### Luminous Intensity Polar Plot





TEST NUMBER: P521699

CATALOG NUMBER: SQ4-F-150U-125D-93050-1D-UNV-STD-W-4 (3000K)

**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	106	106	106	106	97	97	97	97	81	81	81	65	65	65	51	51	51	45
1	97	92	88	85	88	85	81	78	70	68	66	57	56	54	45	44	43	38
2	88	80	74	69	80	74	68	64	61	58	54	50	47	45	40	38	36	31
3	80	70	63	57	73	65	58	53	54	49	45	44	41	38	35	33	31	26
4	73	62	54	48	67	57	50	45	48	43	39	39	35	32	31	28	26	22
5	67	55	47	41	61	51	44	38	43	37	33	35	31	28	28	25	23	19
6	62	49	41	36	56	46	38	33	38	33	29	32	27	24	25	22	20	17
7	57	45	37	31	52	41	34	29	35	29	25	29	25	21	23	20	18	15
8	53	40	33	27	48	37	30	26	32	26	22	26	22	19	21	18	16	13
9	49	37	29	24	45	34	27	23	29	24	20	24	20	17	19	16	14	12
10	46	34	26	22	42	31	25	20	27	21	18	22	18	15	18	15	13	11

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

	0°	45°	90°
0°	15897	15897	15897
5°	16048	15931	15857
10°	16014	15894	15838
15°	15951	15848	15783
20°	15886	15780	15665
25°	15772	15682	15533
30°	15617	15565	15367
35°	15472	15394	15206
40°	15327	15221	15020
45°	15133	15005	14813
50°	14886	14774	14563
55°	14599	14458	14268
60°	14249	14050	13815
65°	13773	13496	13238
70°	12970	12652	12414
75°	11821	11471	11229
80°	9750	9697	9489
85°	6955	7897	7897



TEST NUMBER: P521699

CATALOG NUMBER: SQ4-F-150U-125D-93050-1D-UNV-STD-W-4 (3000K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	163.1	1.5
10°-20°	467.2	4.3
20°-30°	706.5	6.5
30°-40°	850.6	7.8
40°-50°	883.3	8.1
50°-60°	800.5	7.3
60°-70°	609.6	5.6
70°-80°	340.7	3.1
80°-90°	88.6	0.8
90°-100°	479.4	4.4
100°-110°	1158.6	10.6
110°-120°	1235.7	11.3
120°-130°	1000.8	9.2
130°-140°	774.9	7.1
140°-150°	591.1	5.4
150°-160°	427.9	3.9
160°-170°	263.5	2.4
170°-180°	89.2	0.8
0°-30°	1336.7	12.2
0°-40°	2187.3	20.0
0°-60°	3871.0	35.4
0°-90°	4909.9	44.9
90°-120°	2873.6	26.3
90°-150°	5240.4	47.9
90°-180°	6021.0	55.1
0°-180°	10930.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1723	1723	1723	1723	1723	
5°	1733	1715	1720	1713	1712	164
15°	1670	1653	1659	1655	1652	471
25°	1549	1532	1540	1527	1526	713
35°	1374	1361	1367	1351	1350	859
45°	1160	1150	1150	1135	1135	894
55°	908	904	899	887	887	811
65°	631	624	618	607	606	622
75°	332	324	322	317	315	349
85°	66	72	75	76	75	81
90°	0	0	0	0	0	5
95°	47	240	821	534	374	53
105°	185	320	1392	1802	1778	196
115°	339	433	1119	2121	2365	335
125°	482	556	971	1687	1981	431
135°	593	662	932	1330	1530	458
145°	701	753	914	1131	1219	438
155°	804	838	926	1001	1038	371
165°	888	902	938	952	965	251
175°	940	936	940	932	930	89
180°	930	930	930	930	930	

TEST NUMBER: P521699

CATALOG NUMBER: SQ4-F-150U-125D-93050-1D-UNV-STD-W-4 (3000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1723.0	1723.0	1723.0	1723.0	1723.0
2.5°	1734.8	1719.4	1723.8	1720.5	1713.6
5°	1732.8	1714.6	1720.1	1713.2	1712.2
7.5°	1719.5	1701.2	1706.7	1702.6	1701.6
10°	1709.3	1691.0	1696.5	1691.6	1690.6
12.5°	1695.1	1677.7	1683.2	1677.5	1676.5
15°	1670.0	1652.8	1659.2	1655.2	1652.4
17.5°	1639.2	1621.6	1629.2	1623.2	1619.8
20°	1618.0	1598.8	1607.2	1597.4	1595.5
22.5°	1592.1	1572.9	1581.3	1569.1	1568.8
25°	1549.3	1532.1	1540.5	1526.7	1525.8
27.5°	1501.3	1485.1	1494.0	1477.3	1476.1
30°	1465.9	1450.6	1461.0	1444.3	1442.4
32.5°	1429.8	1416.8	1423.3	1409.0	1406.3
35°	1373.7	1361.2	1366.8	1351.1	1350.1
37.5°	1313.5	1301.0	1306.2	1291.2	1289.5
40°	1272.6	1260.2	1263.8	1248.1	1247.1
42.5°	1227.9	1217.7	1219.8	1203.4	1203.9
45°	1159.8	1150.2	1150.0	1135.3	1135.3
47.5°	1087.4	1077.8	1078.0	1064.4	1063.2
50°	1037.1	1031.4	1029.3	1016.5	1014.6
52.5°	985.3	981.1	977.5	964.7	964.3
55°	907.6	903.8	898.8	887.0	887.0
57.5°	827.9	823.5	817.2	805.4	804.4
60°	772.2	769.3	761.4	749.6	748.7
62.5°	716.5	711.3	704.9	693.9	692.9
65°	630.9	624.2	618.2	607.3	606.4
67.5°	542.0	534.5	529.5	521.9	519.1
70°	480.8	474.1	469.0	463.1	460.2
72.5°	419.6	413.6	410.1	404.2	401.3
75°	331.6	324.0	321.8	316.9	315.0
77.5°	242.4	238.5	236.7	233.1	230.4
80°	183.5	183.5	182.5	180.5	178.6
82.5°	132.5	134.0	135.4	135.0	133.1
85°	65.7	71.5	74.6	75.5	74.6
87.5°	18.8	25.0	29.8	30.6	29.8
90°	0.0	0.0	0.0	0.0	0.0
92.5°	15.8	129.8	305.7	148.6	100.8
95°	47.3	239.8	821.3	534.1	374.2
97.5°	83.9	265.7	1081.7	1042.1	894.6
100°	112.3	281.7	1225.1	1293.2	1171.9
102.5°	139.1	296.2	1319.6	1502.3	1430.3
105°	185.1	319.9	1392.5	1801.6	1778.5
107.5°	230.4	347.9	1349.5	2041.7	2096.0
110°	262.0	371.7	1280.2	2145.2	2247.3

TEST NUMBER: P521699

CATALOG NUMBER: SQ4-F-150U-125D-93050-1D-UNV-STD-W-4 (3000K)

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	293.5	395.5	1218.8	2170.5	2345.0
115°	338.8	433.1	1118.7	2120.9	2365.4
117.5°	383.7	472.6	1060.0	2006.8	2293.4
120°	413.6	496.4	1022.2	1917.3	2217.7
122.5°	445.1	521.8	998.6	1825.8	2121.6
125°	482.5	555.7	971.0	1686.7	1981.4
127.5°	519.6	588.5	951.7	1568.9	1827.7
130°	541.6	609.0	945.4	1486.9	1741.1
132.5°	562.1	632.6	935.9	1427.7	1643.4
135°	592.8	662.2	931.6	1330.1	1530.3
137.5°	622.0	691.7	917.8	1263.9	1414.9
140°	644.0	707.6	917.8	1216.4	1355.1
142.5°	666.1	729.7	909.9	1174.9	1292.0
145°	701.2	753.2	913.9	1130.6	1219.2
147.5°	733.9	784.3	911.5	1079.4	1152.6
150°	754.3	798.6	917.8	1057.0	1114.8
152.5°	776.4	819.2	916.2	1033.2	1084.8
155°	803.6	838.2	925.7	1001.4	1038.0
157.5°	836.3	865.9	923.7	989.2	1010.8
160°	848.9	873.9	931.6	973.3	988.7
162.5°	869.4	891.3	928.4	968.4	977.7
165°	888.3	901.8	937.5	951.6	965.1
167.5°	911.5	920.4	935.1	950.5	950.9
170°	917.8	923.6	941.4	939.7	949.3
172.5°	928.8	933.1	936.7	940.9	935.1
175°	939.5	935.6	939.5	931.6	929.6
177.5°	937.5	937.5	934.4	931.0	923.3
180°	929.6	929.6	929.6	929.6	929.6

(END OF REPORT)