

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: P521545

Luminaire Tested: **SQ4-F-0U-125D-93050-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/5/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P521545  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-35)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/5/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-F-0U-125D-93050-1D-UNV-STD-W-4 (4000K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE  
DOWNLIGHT 1250 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

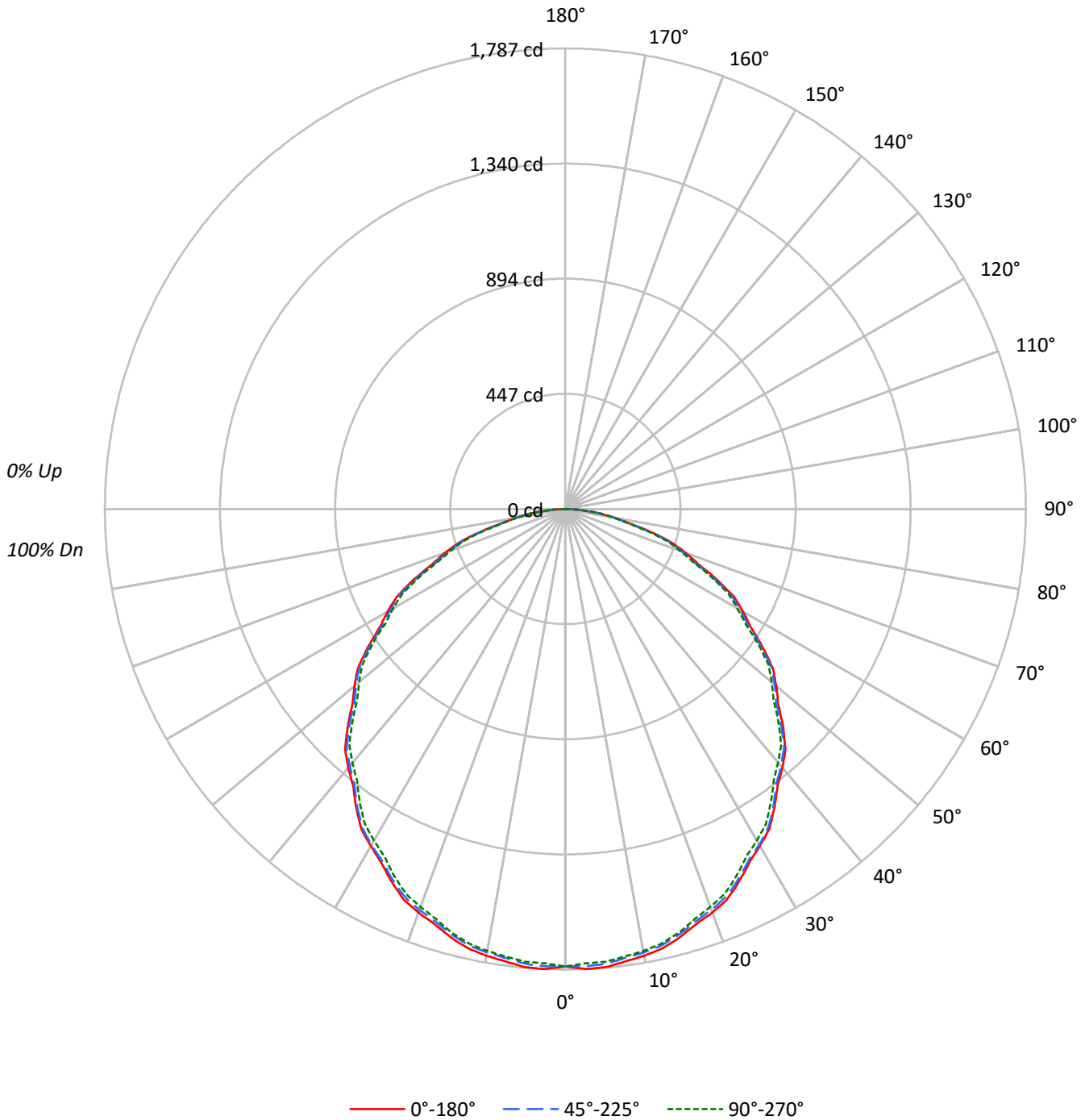
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5057.1 lumens  
Efficiency: N/A  
Efficacy: 91.0 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: Direct

Input Watts (W): 55.6  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	54	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	51	39	31	26	38	31	26	37	31	26	36	30	26	24

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

	0°	45°	90°
0°	16374	16374	16374
5°	16530	16409	16333
10°	16493	16371	16313
15°	16430	16324	16256
20°	16362	16253	16134
25°	16245	16153	15998
30°	16086	16031	15827
35°	15936	15856	15662
40°	15787	15678	15470
45°	15587	15455	15257
50°	15332	15217	14999
55°	15037	14890	14696
60°	14677	14472	14229
65°	14186	13900	13636
70°	13358	13032	12786
75°	12177	11817	11564
80°	10042	9989	9771
85°	7167	8130	8130



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	168.0	3.3
10°-20°	481.2	9.5
20°-30°	727.6	14.4
30°-40°	876.1	17.3
40°-50°	909.7	18.0
50°-60°	824.5	16.3
60°-70°	627.9	12.4
70°-80°	350.9	6.9
80°-90°	91.2	1.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1376.8	27.2
0°-40°	2252.9	44.5
0°-60°	3987.1	78.8
0°-90°	5057.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5057.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1775	1775	1775	1775	1775	
5°	1785	1766	1772	1765	1764	169
15°	1720	1702	1709	1705	1702	485
25°	1596	1578	1587	1572	1572	735
35°	1415	1402	1408	1392	1391	885
45°	1195	1185	1184	1169	1169	921
55°	935	931	926	914	914	835
65°	650	643	637	626	625	641
75°	342	334	332	326	324	360
85°	68	74	77	78	77	86
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1774.7	1774.7	1774.7	1774.7	1774.7
2.5°	1786.8	1771.0	1775.5	1772.1	1765.0
5°	1784.8	1766.0	1771.7	1764.6	1763.6
7.5°	1771.0	1752.3	1757.9	1753.6	1752.7
10°	1760.5	1741.8	1747.4	1742.3	1741.3
12.5°	1746.0	1728.0	1733.7	1727.8	1726.8
15°	1720.1	1702.3	1709.0	1704.9	1701.9
17.5°	1688.4	1670.2	1678.1	1671.9	1668.4
20°	1666.5	1646.8	1655.4	1645.3	1643.3
22.5°	1639.9	1620.1	1628.8	1616.2	1615.8
25°	1595.8	1578.0	1586.7	1572.5	1571.5
27.5°	1546.3	1529.7	1538.8	1521.6	1520.4
30°	1509.9	1494.1	1504.8	1487.6	1485.6
32.5°	1472.7	1459.3	1466.0	1451.2	1448.5
35°	1414.9	1402.1	1407.8	1391.6	1390.6
37.5°	1352.8	1340.0	1345.4	1330.0	1328.2
40°	1310.8	1298.0	1301.7	1285.5	1284.5
42.5°	1264.7	1254.2	1256.4	1239.5	1240.1
45°	1194.6	1184.7	1184.5	1169.3	1169.3
47.5°	1120.0	1110.1	1110.3	1096.3	1095.1
50°	1068.2	1062.3	1060.2	1047.0	1045.0
52.5°	1014.9	1010.5	1006.8	993.7	993.3
55°	934.8	930.9	925.7	913.6	913.6
57.5°	852.8	848.2	841.7	829.5	828.5
60°	795.4	792.4	784.3	772.1	771.1
62.5°	738.0	732.6	726.0	714.7	713.7
65°	649.8	642.9	636.7	625.6	624.6
67.5°	558.3	550.6	545.3	537.6	534.6
70°	495.2	488.3	483.1	477.0	474.0
72.5°	432.2	426.0	422.4	416.3	413.4
75°	341.6	333.7	331.5	326.4	324.4
77.5°	249.6	245.7	243.8	240.1	237.3
80°	189.0	189.0	188.0	185.9	183.9
82.5°	136.4	138.0	139.5	139.0	137.0
85°	67.7	73.6	76.8	77.8	76.8
87.5°	19.4	25.7	30.7	31.5	30.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)