

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: P521649

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

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521649
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-125U-125D-93050-1D-UNV-STD-W-4 (4000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

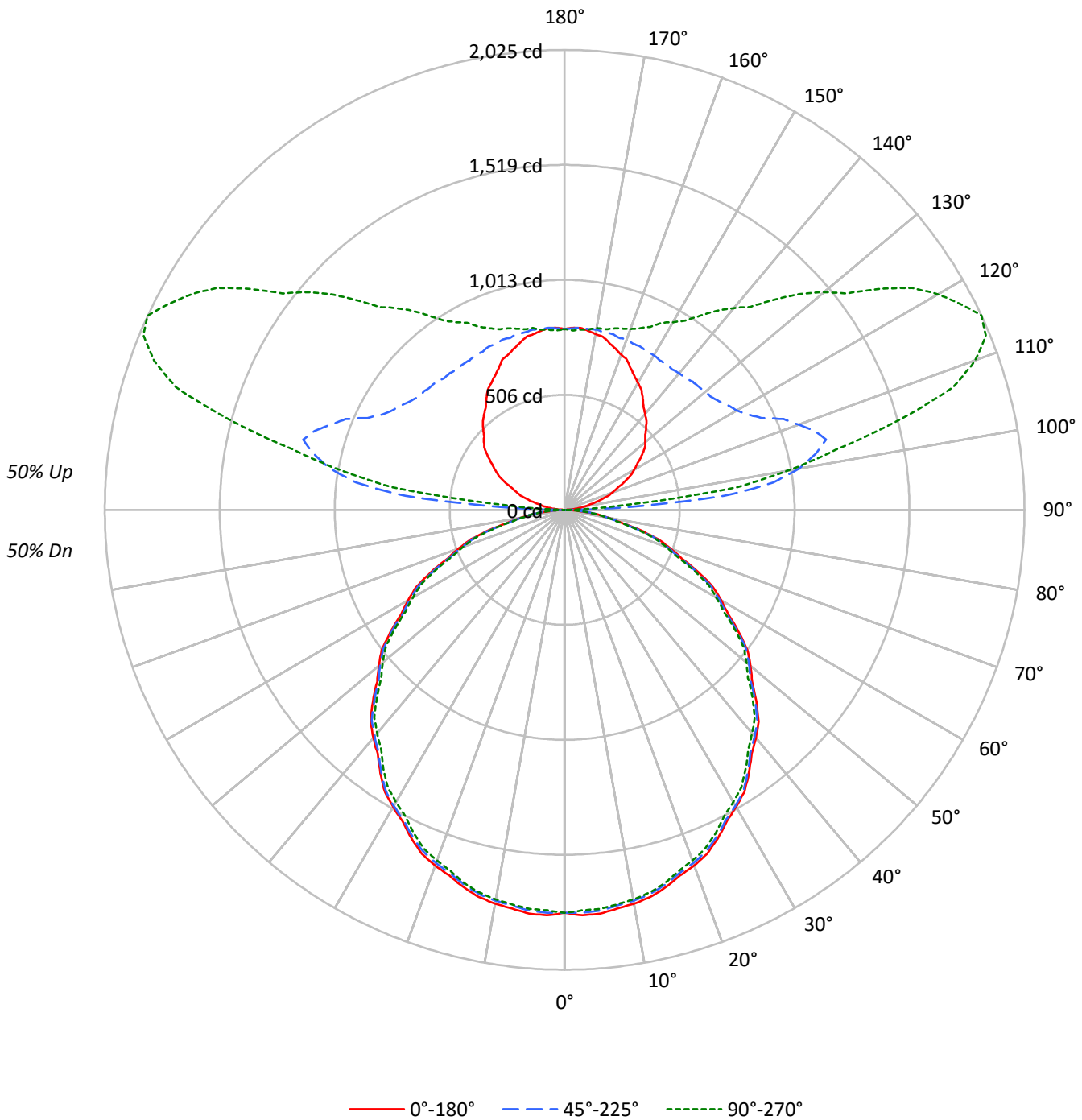
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10212.0 lumens
Efficiency: N/A
Efficacy: 105.4 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): 96.9
Input Voltage (V): 120
Input Current (A_{in}): 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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	98	93	89	86	90	86	83	80	73	70	68	60	59	57	49	48	47	41
2	89	81	75	70	81	75	70	65	63	59	56	53	50	47	43	41	39	34
3	81	71	64	58	74	66	59	54	56	51	47	47	43	40	38	35	33	29
4	74	63	55	49	68	58	51	46	49	44	40	41	37	34	34	31	28	25
5	68	56	48	42	62	52	45	39	44	38	34	37	33	29	30	27	25	21
6	62	50	42	36	57	46	39	34	40	34	30	33	29	26	27	24	22	19
7	58	45	37	31	53	42	35	30	36	30	26	30	26	23	25	22	19	16
8	53	41	33	28	49	38	31	26	33	27	23	28	23	20	23	20	17	15
9	50	37	30	25	46	35	28	23	30	24	21	25	21	18	21	18	15	13
10	46	34	27	22	43	32	25	21	28	22	19	23	19	16	20	16	14	12

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	1.6
10°-20°	481.2	4.7
20°-30°	727.6	7.1
30°-40°	876.1	8.6
40°-50°	909.7	8.9
50°-60°	824.5	8.1
60°-70°	627.9	6.1
70°-80°	350.9	3.4
80°-90°	91.2	0.9
90°-100°	410.4	4.0
100°-110°	991.9	9.7
110°-120°	1057.9	10.4
120°-130°	856.8	8.4
130°-140°	663.4	6.5
140°-150°	506.1	5.0
150°-160°	366.3	3.6
160°-170°	225.6	2.2
170°-180°	76.4	0.7
0°-30°	1376.8	13.5
0°-40°	2252.9	22.1
0°-60°	3987.1	39.0
0°-90°	5057.1	49.5
90°-120°	2460.2	24.1
90°-150°	4486.5	43.9
90°-180°	5155.0	50.5
0°-180°	10212.0	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	84
90°	0	0	0	0	0	5
95°	40	205	703	457	320	45
105°	158	274	1192	1542	1523	167
115°	290	371	958	1816	2025	287
125°	413	476	831	1444	1696	369
135°	508	567	798	1139	1310	392
145°	600	645	782	968	1044	375
155°	688	718	792	857	889	318
165°	760	772	803	815	826	215
175°	804	801	804	798	796	76
180°	796	796	796	796	796	

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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
92.5°	13.5	111.1	261.7	127.2	86.3
95°	40.5	205.3	703.1	457.2	320.4
97.5°	71.8	227.5	926.1	892.2	765.9
100°	96.1	241.2	1048.8	1107.2	1003.3
102.5°	119.0	253.6	1129.8	1286.2	1224.5
105°	158.5	273.9	1192.1	1542.4	1522.6
107.5°	197.3	297.9	1155.4	1748.0	1794.5
110°	224.3	318.2	1096.0	1836.6	1924.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	251.2	338.6	1043.4	1858.2	2007.6
115°	290.0	370.8	957.8	1815.7	2025.1
117.5°	328.5	404.6	907.5	1718.1	1963.4
120°	354.1	425.0	875.1	1641.5	1898.7
122.5°	381.1	446.7	854.9	1563.1	1816.4
125°	413.1	475.8	831.3	1444.1	1696.3
127.5°	444.8	503.8	814.8	1343.2	1564.8
130°	463.7	521.4	809.4	1273.0	1490.6
132.5°	481.2	541.6	801.3	1222.3	1407.0
135°	507.5	566.9	797.6	1138.7	1310.2
137.5°	532.5	592.2	785.8	1082.1	1211.4
140°	551.4	605.8	785.8	1041.4	1160.1
142.5°	570.3	624.7	779.0	1005.9	1106.1
145°	600.3	644.8	782.4	967.9	1043.8
147.5°	628.3	671.5	780.4	924.1	986.8
150°	645.8	683.7	785.8	904.9	954.4
152.5°	664.7	701.3	784.4	884.6	928.8
155°	688.0	717.6	792.5	857.3	888.6
157.5°	716.0	741.4	790.8	846.9	865.4
160°	726.8	748.2	797.6	833.3	846.5
162.5°	744.3	763.1	794.9	829.1	837.0
165°	760.5	772.0	802.6	814.7	826.2
167.5°	780.4	788.0	800.6	813.8	814.1
170°	785.8	790.7	806.0	804.5	812.7
172.5°	795.2	798.8	802.0	805.6	800.6
175°	804.3	801.0	804.3	797.5	795.9
177.5°	802.6	802.6	799.9	797.1	790.5
180°	795.9	795.9	795.9	795.9	795.9

(END OF REPORT)