

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: P521648

Luminaire Tested: **SQ4-F-125U-125D-93050-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521648
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 (3500K)
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 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

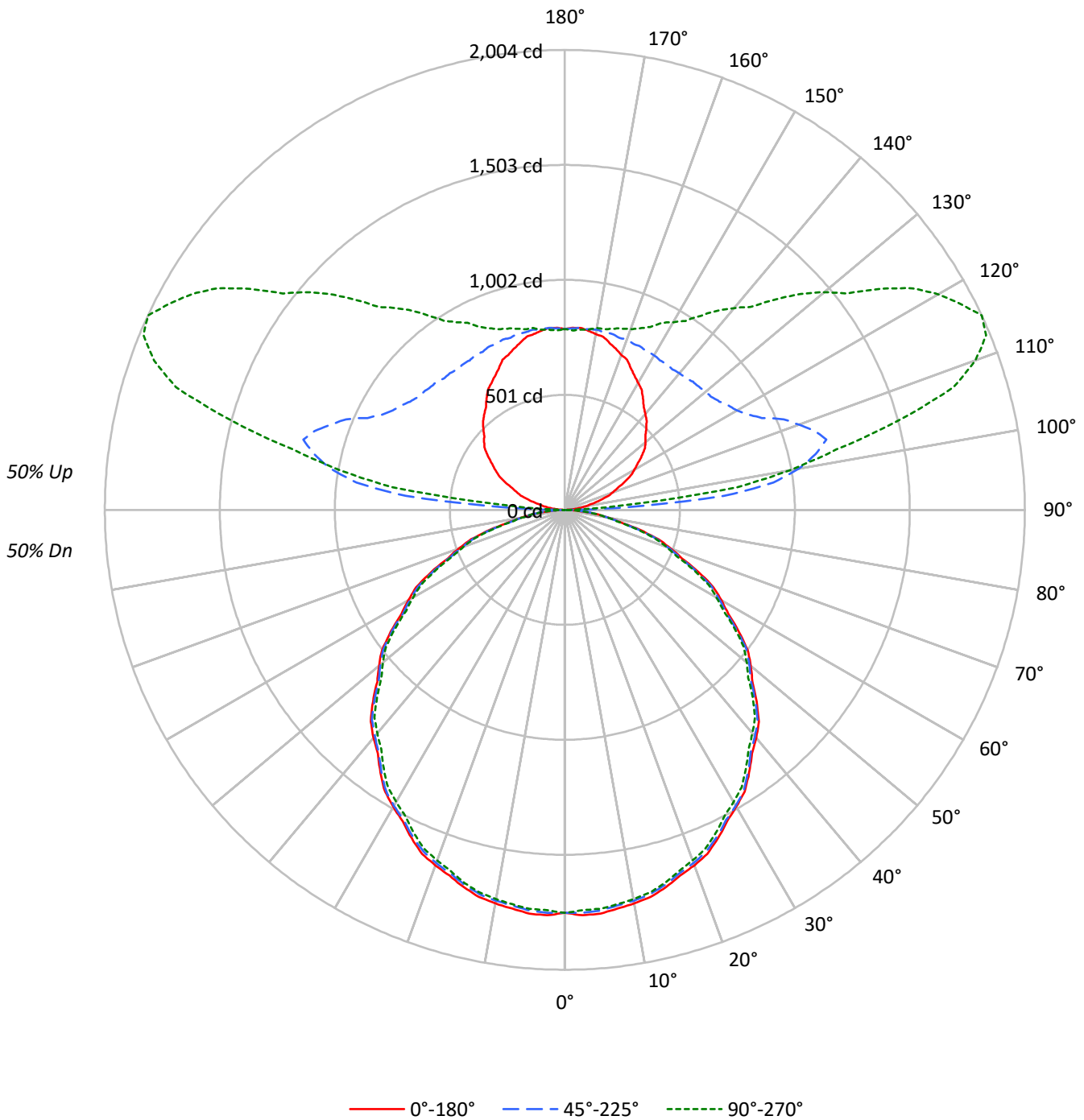
Lumens per Lamp: N/A
Luminaire Lumens: 10104.5 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.25 / 1.38
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 96.9
Input Voltage (V): 120
Input Current (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	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°	16201	16201	16201
5°	16356	16235	16161
10°	16320	16198	16142
15°	16257	16152	16085
20°	16190	16082	15965
25°	16074	15983	15830
30°	15916	15863	15661
35°	15768	15690	15498
40°	15621	15513	15308
45°	15423	15292	15096
50°	15172	15057	14841
55°	14879	14734	14541
60°	14522	14319	14079
65°	14037	13754	13492
70°	13218	12894	12652
75°	12049	11692	11443
80°	9936	9882	9670
85°	7093	8045	8045



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.2	1.6
10°-20°	476.1	4.7
20°-30°	720.0	7.1
30°-40°	866.9	8.6
40°-50°	900.2	8.9
50°-60°	815.8	8.1
60°-70°	621.3	6.1
70°-80°	347.2	3.4
80°-90°	90.3	0.9
90°-100°	406.1	4.0
100°-110°	981.4	9.7
110°-120°	1046.8	10.4
120°-130°	847.8	8.4
130°-140°	656.4	6.5
140°-150°	500.7	5.0
150°-160°	362.5	3.6
160°-170°	223.3	2.2
170°-180°	75.6	0.7
0°-30°	1362.3	13.5
0°-40°	2229.2	22.1
0°-60°	3945.1	39.0
0°-90°	5003.9	49.5
90°-120°	2434.3	24.1
90°-150°	4439.2	43.9
90°-180°	5101.0	50.5
0°-180°	10104.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1756	1756	1756	1756	1756	
5°	1766	1747	1753	1746	1745	168
15°	1702	1684	1691	1687	1684	480
25°	1579	1561	1570	1556	1555	727
35°	1400	1387	1393	1377	1376	876
45°	1182	1172	1172	1157	1157	911
55°	925	921	916	904	904	826
65°	643	636	630	619	618	634
75°	338	330	328	323	321	356
85°	67	73	76	77	76	83
90°	0	0	0	0	0	4
95°	40	203	696	452	317	45
105°	157	271	1180	1526	1507	166
115°	287	367	948	1797	2004	284
125°	409	471	822	1429	1678	365
135°	502	561	789	1127	1296	388
145°	594	638	774	958	1033	371
155°	681	710	784	848	879	314
165°	752	764	794	806	818	212
175°	796	793	796	789	788	75
180°	788	788	788	788	788	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1756.0	1756.0	1756.0	1756.0	1756.0
2.5°	1768.0	1752.4	1756.8	1753.4	1746.4
5°	1766.0	1747.4	1753.0	1746.0	1745.0
7.5°	1752.4	1733.8	1739.4	1735.2	1734.2
10°	1742.0	1723.4	1729.0	1724.0	1723.0
12.5°	1727.6	1709.8	1715.4	1709.6	1708.6
15°	1702.0	1684.4	1691.0	1686.9	1684.0
17.5°	1670.6	1652.6	1660.4	1654.3	1650.8
20°	1649.0	1629.4	1638.0	1628.0	1626.0
22.5°	1622.6	1603.0	1611.6	1599.2	1598.8
25°	1579.0	1561.4	1570.0	1556.0	1555.0
27.5°	1530.0	1513.6	1522.6	1505.6	1504.4
30°	1494.0	1478.4	1489.0	1472.0	1470.0
32.5°	1457.2	1443.9	1450.6	1435.9	1433.2
35°	1400.0	1387.3	1393.0	1377.0	1376.0
37.5°	1338.6	1325.9	1331.2	1316.0	1314.2
40°	1297.0	1284.3	1288.0	1272.0	1271.0
42.5°	1251.4	1241.0	1243.2	1226.4	1227.0
45°	1182.0	1172.2	1172.0	1157.0	1157.0
47.5°	1108.2	1098.4	1098.6	1084.8	1083.6
50°	1057.0	1051.1	1049.0	1036.0	1034.0
52.5°	1004.2	999.9	996.2	983.2	982.8
55°	925.0	921.1	916.0	904.0	904.0
57.5°	843.8	839.3	832.8	820.8	819.8
60°	787.0	784.1	776.0	764.0	763.0
62.5°	730.2	724.9	718.4	707.2	706.2
65°	643.0	636.2	630.0	619.0	618.0
67.5°	552.4	544.8	539.6	531.9	529.0
70°	490.0	483.2	478.0	471.9	469.0
72.5°	427.6	421.5	418.0	411.9	409.0
75°	338.0	330.2	328.0	323.0	321.0
77.5°	247.0	243.1	241.2	237.5	234.8
80°	187.0	187.0	186.0	184.0	182.0
82.5°	135.0	136.6	138.0	137.6	135.6
85°	67.0	72.9	76.0	77.0	76.0
87.5°	19.2	25.5	30.4	31.2	30.4
90°	0.0	0.0	0.0	0.0	0.0
92.5°	13.3	109.9	258.9	125.9	85.4
95°	40.0	203.2	695.7	452.4	317.0
97.5°	71.1	225.1	916.3	882.8	757.8
100°	95.1	238.7	1037.8	1095.5	992.7
102.5°	117.8	250.9	1117.9	1272.6	1211.6
105°	156.8	271.0	1179.6	1526.2	1506.6
107.5°	195.2	294.7	1143.2	1729.6	1775.6
110°	221.9	314.9	1084.5	1817.2	1903.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	248.6	335.1	1032.4	1838.7	1986.5
115°	287.0	366.9	947.7	1796.6	2003.8
117.5°	325.0	400.4	898.0	1700.0	1942.7
120°	350.4	420.5	865.9	1624.2	1878.7
122.5°	377.1	442.0	845.9	1546.7	1797.3
125°	408.8	470.8	822.5	1428.9	1678.5
127.5°	440.1	498.5	806.2	1329.1	1548.3
130°	458.8	515.9	800.9	1259.6	1474.9
132.5°	476.2	535.9	792.8	1209.4	1392.2
135°	502.2	560.9	789.2	1126.7	1296.4
137.5°	526.9	586.0	777.5	1070.7	1198.6
140°	545.6	599.4	777.5	1030.4	1147.9
142.5°	564.3	618.1	770.8	995.3	1094.5
145°	594.0	638.0	774.2	957.7	1032.8
147.5°	621.7	664.4	772.2	914.4	976.4
150°	639.0	676.5	777.5	895.4	944.3
152.5°	657.7	693.9	776.2	875.3	919.0
155°	680.7	710.1	784.2	848.3	879.3
157.5°	708.4	733.5	782.5	838.0	856.2
160°	719.1	740.3	789.2	824.5	837.6
162.5°	736.5	755.0	786.5	820.4	828.2
165°	752.5	763.9	794.2	806.1	817.5
167.5°	772.2	779.7	792.2	805.2	805.5
170°	777.5	782.4	797.5	796.0	804.2
172.5°	786.8	790.4	793.5	797.1	792.2
175°	795.8	792.6	795.8	789.1	787.5
177.5°	794.2	794.2	791.5	788.7	782.2
180°	787.5	787.5	787.5	787.5	787.5

(END OF REPORT)