

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: P520352

Luminaire Tested: **SQ4-F-125U-125D-930-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P520352  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G3-1910-536-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/29/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-F-125U-125D-930-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

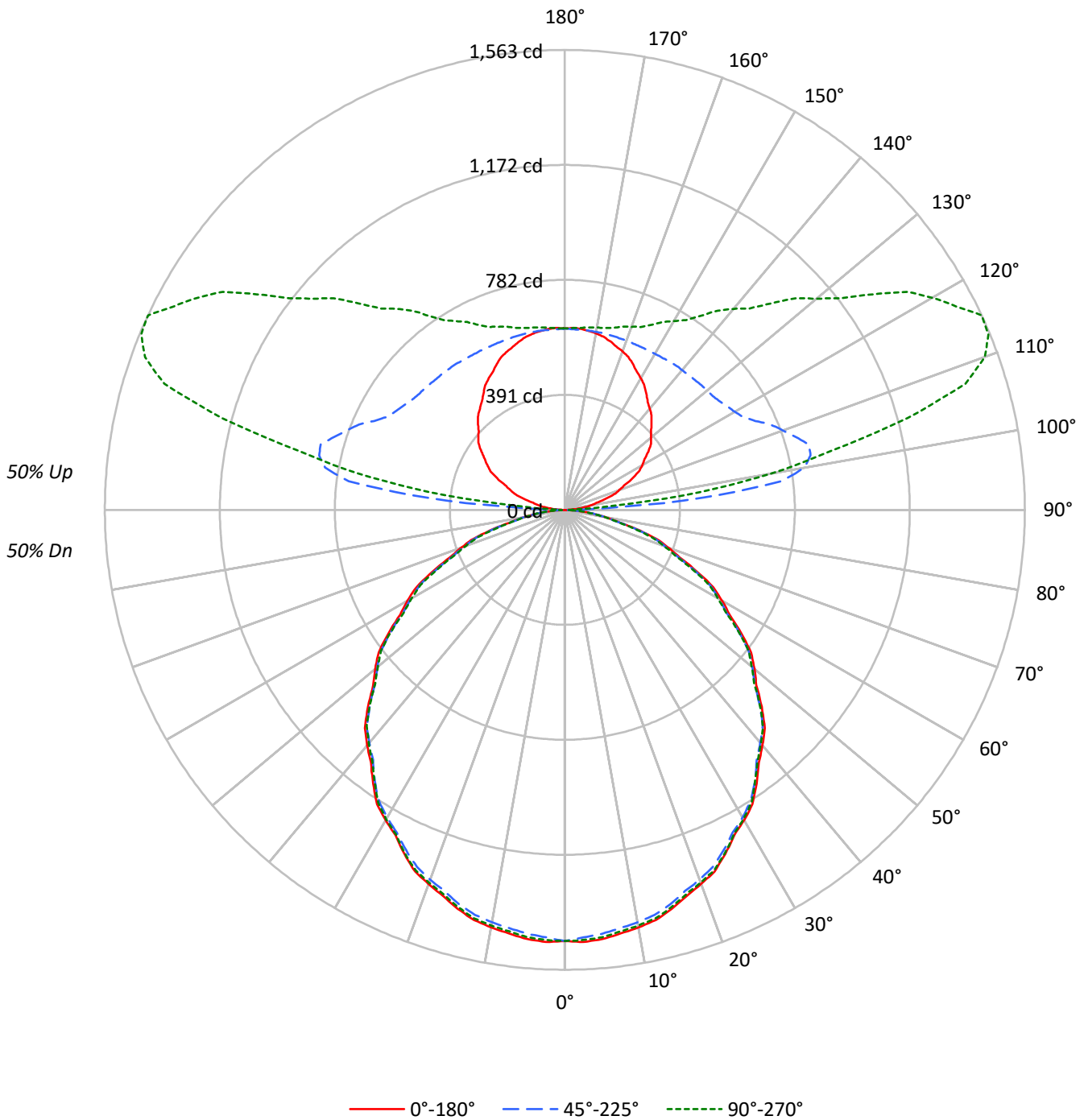
Lumens per Lamp: N/A  
Luminaire Lumens: 7977.8 lumens  
Efficiency: N/A  
Efficacy: 105.9 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 75.3  
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	90	86	90	86	83	80	73	71	68	61	59	58	50	49	47	42
2	89	82	75	70	82	75	70	66	64	60	57	53	51	48	44	42	40	35
3	81	72	64	58	75	66	60	55	56	51	47	47	44	41	39	36	34	30
4	74	63	55	49	68	59	52	46	50	45	40	42	38	35	34	31	29	25
5	68	56	48	42	62	52	45	40	45	39	35	38	33	30	31	28	25	22
6	63	50	42	36	58	47	40	34	40	34	30	34	30	26	28	25	22	19
7	58	46	38	32	53	42	35	30	36	31	27	31	26	23	26	22	20	17
8	54	41	33	28	49	38	31	27	33	28	24	28	24	21	23	20	18	15
9	50	38	30	25	46	35	28	24	30	25	21	26	22	18	22	18	16	14
10	47	35	27	22	43	32	26	21	28	23	19	24	20	17	20	17	14	12

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

	0°	45°	90°
0°	13520	13520	13520
5°	13564	13393	13504
10°	13502	13336	13441
15°	13411	13250	13358
20°	13288	13137	13240
25°	13136	12997	13104
30°	12974	12862	12931
35°	12789	12681	12690
40°	12579	12444	12481
45°	12343	12208	12228
50°	12074	11935	11900
55°	11766	11598	11572
60°	11385	11130	11071
65°	10793	10566	10424
70°	10051	9789	9660
75°	8940	8741	8480
80°	7284	7072	7029
85°	4351	4954	4954



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	138.3	1.7
10°-20°	393.8	4.9
20°-30°	591.6	7.4
30°-40°	705.9	8.8
40°-50°	723.6	9.1
50°-60°	644.9	8.1
60°-70°	480.1	6.0
70°-80°	260.1	3.3
80°-90°	61.2	0.8
90°-100°	288.3	3.6
100°-110°	776.6	9.7
110°-120°	815.0	10.2
120°-130°	661.3	8.3
130°-140°	518.7	6.5
140°-150°	398.2	5.0
150°-160°	286.3	3.6
160°-170°	174.9	2.2
170°-180°	59.0	0.7
0°-30°	1123.7	14.1
0°-40°	1829.6	22.9
0°-60°	3198.1	40.1
0°-90°	3999.5	50.1
90°-120°	1879.8	23.6
90°-150°	3458.0	43.3
90°-180°	3978.0	49.9
0°-180°	7977.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1465	1465	1465	1465	1465	
5°	1465	1462	1446	1459	1458	139
15°	1404	1401	1387	1399	1398	396
25°	1290	1288	1277	1284	1287	594
35°	1136	1135	1126	1126	1127	710
45°	946	944	936	934	937	729
55°	732	729	721	715	719	653
65°	494	491	484	481	478	490
75°	251	251	245	240	238	266
85°	41	47	47	48	47	57
90°	2	5	9	10	10	4
95°	44	157	472	242	167	46
105°	144	224	859	1285	1206	151
115°	254	310	715	1382	1563	250
125°	346	398	642	1085	1277	309
135°	417	465	624	876	992	322
145°	482	520	616	749	804	302
155°	547	567	611	672	693	252
165°	594	600	613	638	641	167
175°	617	616	614	622	621	59
180°	616	616	616	616	616	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1465.4	1465.4	1465.4	1465.4	1465.4
2.5°	1469.9	1467.5	1454.5	1465.3	1463.5
5°	1464.6	1462.3	1446.1	1459.0	1458.1
7.5°	1452.2	1449.2	1434.4	1446.5	1445.1
10°	1441.2	1438.9	1423.5	1435.5	1434.7
12.5°	1427.6	1425.3	1409.9	1422.1	1421.9
15°	1404.1	1401.0	1387.2	1399.3	1398.5
17.5°	1376.0	1372.3	1358.6	1368.2	1369.8
20°	1353.4	1350.9	1338.0	1346.9	1348.5
22.5°	1330.1	1327.1	1313.5	1323.7	1325.3
25°	1290.4	1288.1	1276.7	1284.0	1287.2
27.5°	1246.8	1246.8	1236.4	1241.6	1243.5
30°	1217.8	1217.8	1207.3	1210.6	1213.8
32.5°	1186.8	1184.3	1174.5	1177.1	1180.2
35°	1135.5	1134.7	1125.9	1125.9	1126.7
37.5°	1082.5	1080.3	1070.6	1071.3	1075.0
40°	1044.4	1042.8	1033.2	1033.2	1036.3
42.5°	1005.7	1004.1	995.7	994.5	995.7
45°	946.0	943.7	935.6	934.1	937.2
47.5°	882.5	883.1	873.4	871.2	872.9
50°	841.2	841.2	831.5	826.7	829.1
52.5°	797.9	796.7	787.0	781.6	787.2
55°	731.5	729.1	721.0	715.4	719.4
57.5°	663.4	659.8	651.7	645.6	647.7
60°	617.0	611.5	603.2	598.5	600.0
62.5°	568.6	565.6	556.8	549.4	553.0
65°	494.4	491.3	484.0	480.6	477.5
67.5°	421.6	419.6	411.3	407.8	405.8
70°	372.6	368.6	362.9	358.9	358.1
72.5°	324.8	320.3	314.5	311.1	309.0
75°	250.8	250.8	245.2	240.3	237.9
77.5°	180.3	181.0	176.4	174.6	173.5
80°	137.1	137.1	133.1	131.5	132.3
82.5°	95.8	97.7	96.3	94.1	92.9
85°	41.1	46.6	46.8	47.5	46.8
87.5°	7.4	12.5	14.2	13.1	11.8
90°	1.6	4.6	9.4	10.2	10.2
92.5°	19.1	67.7	133.8	64.4	44.7
95°	44.0	156.8	472.5	241.6	167.2
97.5°	70.2	179.5	741.2	619.3	466.9
100°	90.3	188.6	826.7	864.9	717.5
102.5°	109.7	201.3	854.9	1048.9	927.9
105°	143.7	223.5	858.8	1284.9	1205.8
107.5°	175.7	246.9	822.2	1406.2	1426.6
110°	197.0	264.6	789.0	1443.8	1518.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	219.6	282.3	756.9	1435.5	1557.8
115°	253.6	310.3	715.2	1381.8	1563.0
117.5°	284.5	337.8	682.8	1296.2	1498.0
120°	304.6	356.0	666.5	1234.9	1442.1
122.5°	322.2	373.0	654.6	1172.0	1378.6
125°	346.2	397.6	642.2	1085.4	1277.2
127.5°	369.2	419.9	634.3	1008.9	1180.2
130°	383.1	433.8	631.2	965.1	1115.5
132.5°	397.0	447.0	628.0	926.5	1064.7
135°	416.9	465.2	624.1	875.6	991.5
137.5°	435.8	482.2	622.0	832.4	927.6
140°	449.1	493.6	620.2	805.9	891.8
142.5°	462.9	504.3	618.9	781.0	853.5
145°	482.0	519.6	616.2	748.6	803.9
147.5°	502.7	535.4	613.5	721.3	764.8
150°	516.5	545.0	612.4	704.2	740.2
152.5°	529.1	553.8	611.7	690.2	719.5
155°	547.1	567.2	610.8	671.7	693.2
157.5°	563.0	578.5	610.9	658.6	673.0
160°	573.1	586.1	611.6	651.0	661.8
162.5°	581.9	592.4	612.2	644.7	652.3
165°	593.5	600.4	613.1	637.5	640.6
167.5°	602.9	606.9	613.9	632.0	633.2
170°	609.2	610.7	613.9	628.8	628.8
172.5°	612.9	613.2	614.5	625.7	625.7
175°	617.0	616.3	613.9	622.5	620.9
177.5°	618.8	617.5	614.3	619.4	618.2
180°	616.2	616.2	616.2	616.2	616.2

(END OF REPORT)