

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: P520356

Luminaire Tested: **SQ4-F-125U-125D-935-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P520356  
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-935-1D-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**

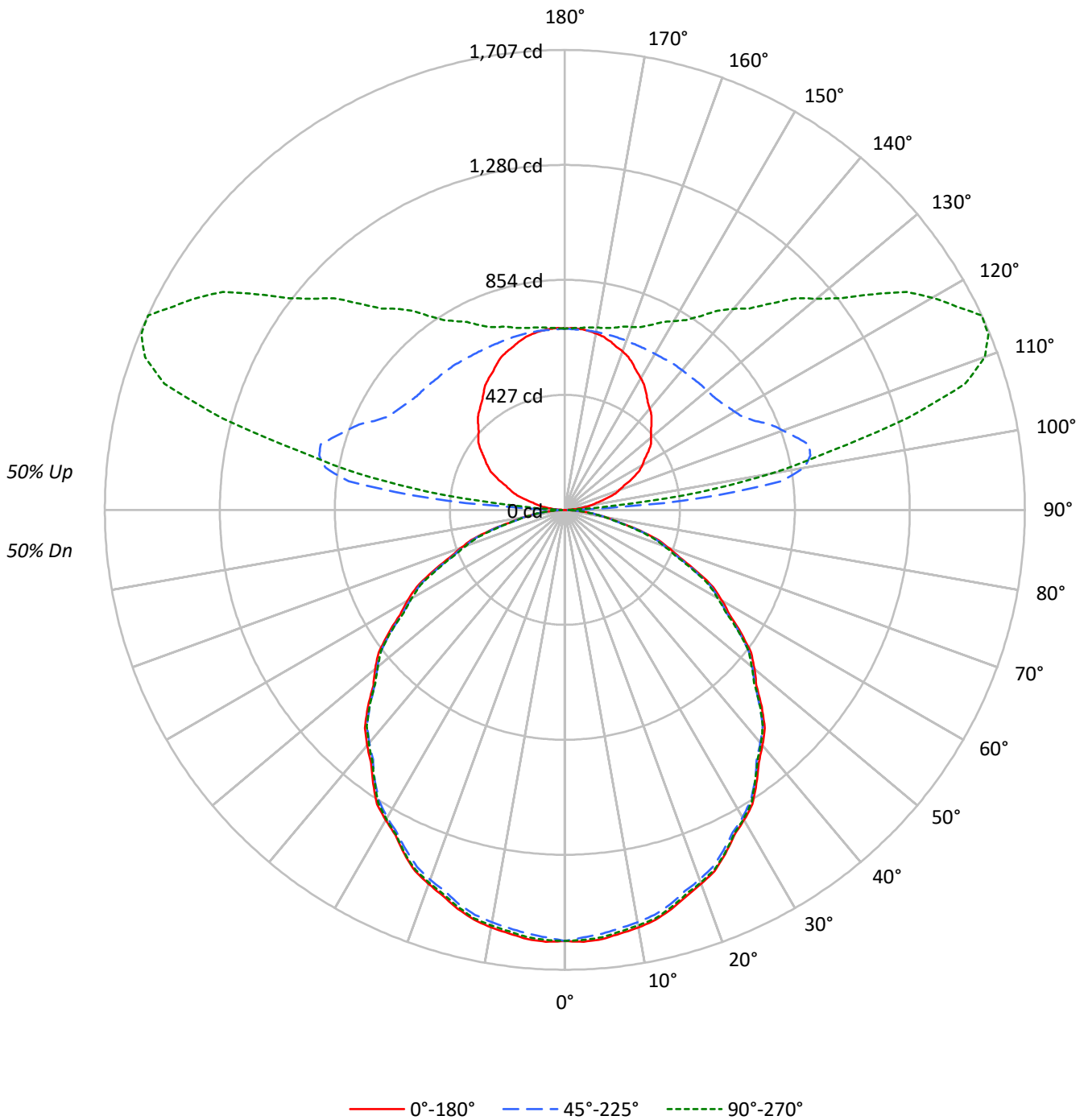
Lumens per Lamp: N/A  
Luminaire Lumens: 8711.0 lumens  
Efficiency: N/A  
Efficacy: 115.7 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

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°	14763	14763	14763
5°	14811	14624	14746
10°	14743	14562	14678
15°	14644	14468	14586
20°	14509	14345	14456
25°	14344	14192	14308
30°	14166	14045	14120
35°	13965	13847	13856
40°	13735	13587	13629
45°	13478	13328	13352
50°	13185	13031	12994
55°	12849	12664	12637
60°	12431	12155	12090
65°	11784	11533	11383
70°	10974	10690	10547
75°	9764	9543	9261
80°	7954	7720	7672
85°	4753	5409	5409



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	151.0	1.7
10°-20°	430.0	4.9
20°-30°	646.0	7.4
30°-40°	770.8	8.8
40°-50°	790.1	9.1
50°-60°	704.2	8.1
60°-70°	524.2	6.0
70°-80°	284.0	3.3
80°-90°	66.8	0.8
90°-100°	314.8	3.6
100°-110°	847.9	9.7
110°-120°	889.9	10.2
120°-130°	722.1	8.3
130°-140°	566.3	6.5
140°-150°	434.8	5.0
150°-160°	312.6	3.6
160°-170°	191.0	2.2
170°-180°	64.4	0.7
0°-30°	1227.0	14.1
0°-40°	1997.8	22.9
0°-60°	3492.1	40.1
0°-90°	4367.2	50.1
90°-120°	2052.6	23.6
90°-150°	3775.8	43.3
90°-180°	4344.0	49.9
0°-180°	8711.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1600	1600	1600	1600	1600	
5°	1599	1597	1579	1593	1592	152
15°	1533	1530	1515	1528	1527	432
25°	1409	1406	1394	1402	1406	649
35°	1240	1239	1229	1229	1230	775
45°	1033	1030	1022	1020	1023	796
55°	799	796	787	781	786	713
65°	540	536	528	525	521	535
75°	274	274	268	262	260	291
85°	45	51	51	52	51	62
90°	2	5	10	11	11	4
95°	48	171	516	264	182	50
105°	157	244	938	1403	1317	165
115°	277	339	781	1509	1707	272
125°	378	434	701	1185	1395	338
135°	455	508	681	956	1083	351
145°	526	567	673	817	878	330
155°	598	619	667	733	757	275
165°	648	656	670	696	700	183
175°	674	673	670	680	678	64
180°	673	673	673	673	673	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1600.1	1600.1	1600.1	1600.1	1600.1
2.5°	1605.0	1602.3	1588.2	1600.0	1598.0
5°	1599.2	1596.7	1579.0	1593.0	1592.2
7.5°	1585.6	1582.4	1566.3	1579.5	1577.9
10°	1573.7	1571.2	1554.3	1567.5	1566.7
12.5°	1558.9	1556.4	1539.5	1552.7	1552.6
15°	1533.1	1529.7	1514.7	1527.9	1527.1
17.5°	1502.3	1498.4	1483.5	1493.9	1495.6
20°	1477.7	1475.2	1461.0	1470.7	1472.4
22.5°	1452.4	1449.0	1434.2	1445.4	1447.1
25°	1409.0	1406.5	1394.1	1402.1	1405.5
27.5°	1361.5	1361.5	1350.0	1355.7	1357.8
30°	1329.7	1329.7	1318.3	1321.9	1325.4
32.5°	1296.0	1293.1	1282.4	1285.2	1288.7
35°	1239.9	1239.1	1229.4	1229.4	1230.2
37.5°	1182.0	1179.5	1169.0	1169.8	1173.9
40°	1140.4	1138.7	1128.1	1128.1	1131.6
42.5°	1098.1	1096.4	1087.2	1085.9	1087.2
45°	1033.0	1030.4	1021.5	1019.9	1023.3
47.5°	963.6	964.3	953.7	951.3	953.2
50°	918.6	918.6	907.9	902.7	905.3
52.5°	871.3	869.9	859.4	853.5	859.5
55°	798.8	796.1	787.3	781.2	785.6
57.5°	724.5	720.4	711.6	704.9	707.3
60°	673.7	667.7	658.7	653.5	655.2
62.5°	620.9	617.5	608.0	600.0	603.8
65°	539.8	536.4	528.3	524.8	521.4
67.5°	460.4	458.1	449.1	445.3	443.1
70°	406.8	402.6	396.3	391.8	391.0
72.5°	354.7	349.8	343.5	339.7	337.5
75°	273.9	273.9	267.7	262.4	259.8
77.5°	196.9	197.6	192.5	190.7	189.5
80°	149.7	149.7	145.3	143.5	144.4
82.5°	104.6	106.7	105.1	102.7	101.5
85°	44.9	51.0	51.1	51.9	51.1
87.5°	8.1	13.6	15.5	14.2	12.9
90°	1.7	5.0	10.3	11.1	11.1
92.5°	20.9	73.9	146.0	70.4	48.8
95°	48.0	171.2	516.1	263.8	182.5
97.5°	76.7	196.0	809.3	676.1	509.8
100°	98.6	205.8	902.6	944.4	783.5
102.5°	119.8	219.7	933.4	1145.3	1013.2
105°	156.9	244.0	937.8	1402.9	1316.7
107.5°	191.8	269.6	897.8	1535.3	1557.6
110°	215.1	288.9	861.5	1576.5	1657.8

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	239.9	308.3	826.5	1567.4	1701.0
115°	276.9	338.9	780.9	1508.9	1706.6
117.5°	310.6	368.8	745.6	1415.4	1635.7
120°	332.6	388.8	727.7	1348.3	1574.6
122.5°	351.8	407.3	714.7	1279.8	1505.3
125°	378.0	434.2	701.2	1185.1	1394.6
127.5°	403.2	458.5	692.6	1101.6	1288.7
130°	418.3	473.6	689.2	1053.8	1218.1
132.5°	433.4	488.0	685.8	1011.7	1162.5
135°	455.2	508.0	681.4	956.0	1082.6
137.5°	475.9	526.5	679.3	909.0	1012.9
140°	490.3	538.9	677.2	879.9	973.8
142.5°	505.4	550.7	675.8	852.8	932.0
145°	526.3	567.4	672.8	817.4	877.8
147.5°	548.9	584.6	670.0	787.6	835.1
150°	564.0	595.0	668.6	768.9	808.3
152.5°	577.7	604.8	667.9	753.7	785.7
155°	597.5	619.3	666.9	733.4	756.9
157.5°	614.7	631.7	667.0	719.2	734.9
160°	625.8	640.0	667.7	710.8	722.6
162.5°	635.3	646.9	668.4	703.9	712.3
165°	648.1	655.6	669.5	696.1	699.5
167.5°	658.3	662.7	670.3	690.1	691.4
170°	665.1	666.8	670.3	686.6	686.6
172.5°	669.3	669.6	671.0	683.2	683.2
175°	673.7	672.9	670.3	679.7	678.1
177.5°	675.6	674.3	670.9	676.3	674.9
180°	672.8	672.8	672.8	672.8	672.8

(END OF REPORT)