

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: P521532

Luminaire Tested: **SQ4-F-0U-100D-93050-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/5/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P521532  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-34)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/5/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-F-0U-100D-93050-1D-UNV-STD-W-4 (4000K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

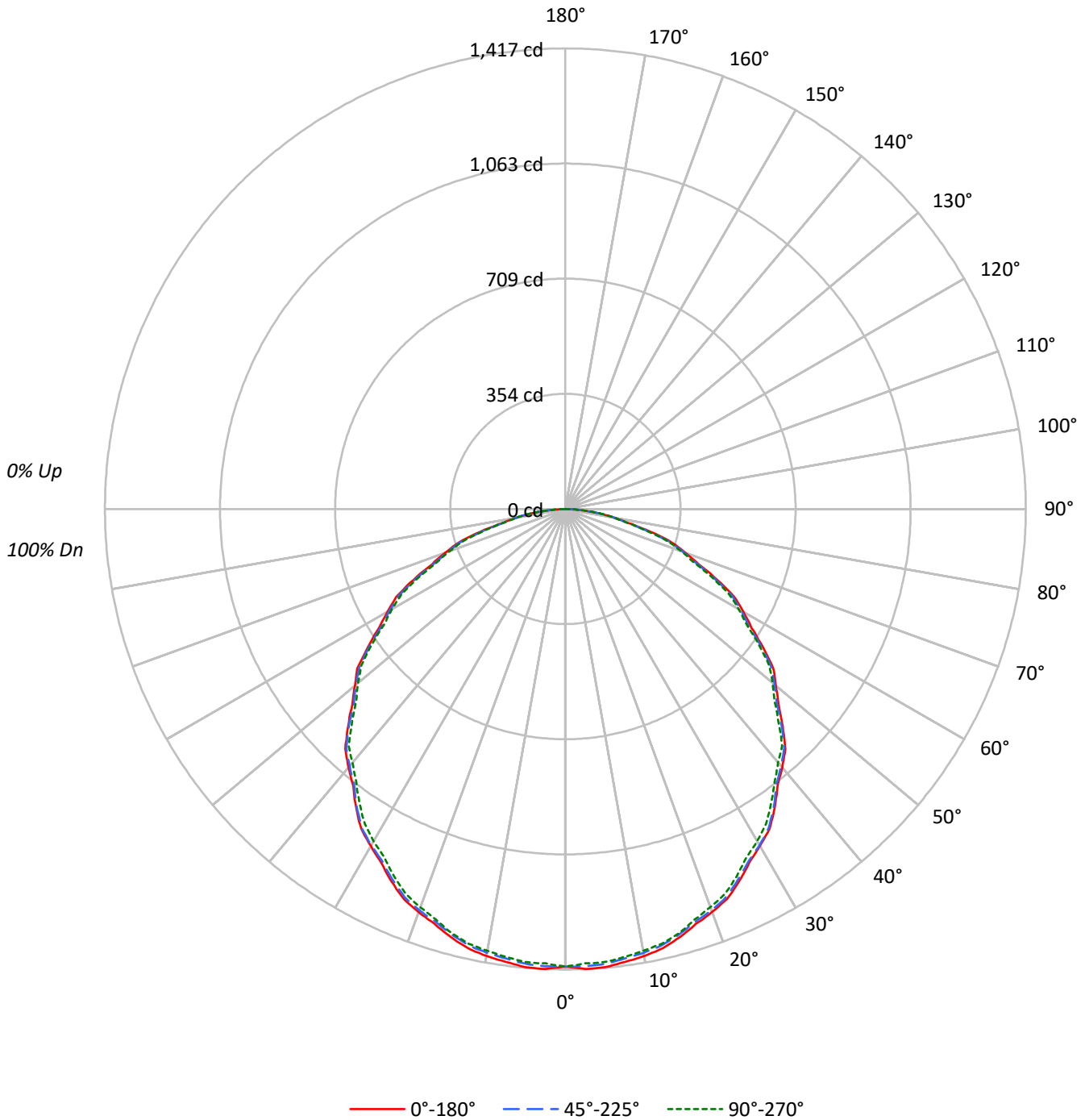
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4017.7 lumens  
Efficiency: N/A  
Efficacy: 94.5 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): 42.5  
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	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	53	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	31	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	39	32	26	51	39	31	26	38	31	26	37	31	26	36	30	26	24

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

	0°	45°	90°
0°	12989	12989	12989
5°	13104	13010	12963
10°	13085	12990	12933
15°	13023	12945	12906
20°	12959	12899	12800
25°	12881	12808	12695
30°	12759	12727	12575
35°	12646	12601	12441
40°	12500	12440	12269
45°	12343	12277	12106
50°	12142	12070	11954
55°	11932	11818	11689
60°	11656	11525	11357
65°	11274	11053	10854
70°	10634	10388	10197
75°	9693	9368	9186
80°	7948	7948	7948
85°	5674	6415	6743



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	133.3	3.3
10°-20°	381.7	9.5
20°-30°	577.4	14.4
30°-40°	695.4	17.3
40°-50°	722.2	18.0
50°-60°	655.4	16.3
60°-70°	500.0	12.4
70°-80°	279.5	7.0
80°-90°	72.8	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°	1092.4	27.2
0°-40°	1787.7	44.5
0°-60°	3165.3	78.8
0°-90°	4017.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4017.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1408	1408	1408	1408	1408	
5°	1415	1400	1405	1402	1400	134
15°	1363	1350	1355	1351	1351	385
25°	1265	1252	1258	1247	1247	583
35°	1123	1113	1119	1105	1105	702
45°	946	939	941	928	928	730
55°	742	740	735	727	727	664
65°	516	512	506	499	497	509
75°	272	268	263	259	258	286
85°	54	58	61	62	64	69
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1407.8	1407.8	1407.8	1407.8	1407.8
2.5°	1416.7	1404.9	1408.6	1406.9	1399.7
5°	1414.9	1400.1	1404.8	1401.7	1399.7
7.5°	1405.6	1390.8	1395.5	1391.4	1390.2
10°	1396.7	1381.9	1386.6	1382.5	1380.5
12.5°	1384.6	1370.5	1375.3	1370.4	1370.0
15°	1363.4	1349.5	1355.3	1351.2	1351.2
17.5°	1338.5	1325.6	1331.6	1325.7	1324.7
20°	1319.9	1307.1	1313.8	1304.7	1303.7
22.5°	1298.9	1286.8	1292.8	1282.1	1282.7
25°	1265.3	1252.5	1258.2	1247.1	1247.1
27.5°	1226.7	1214.1	1221.3	1207.9	1207.1
30°	1197.6	1185.8	1194.6	1180.4	1180.4
32.5°	1168.5	1158.2	1164.7	1151.3	1148.9
35°	1122.8	1112.9	1118.8	1104.6	1104.6
37.5°	1072.7	1064.6	1067.6	1054.6	1057.5
40°	1037.9	1029.0	1032.9	1019.7	1018.7
42.5°	1002.4	994.3	997.3	984.2	987.2
45°	946.0	939.0	940.9	927.8	927.8
47.5°	888.8	883.6	882.1	870.4	872.4
50°	845.9	843.9	840.9	830.8	832.8
52.5°	807.1	802.8	798.8	789.5	790.7
55°	741.8	739.8	734.7	726.7	726.7
57.5°	679.4	675.0	669.0	660.8	660.8
60°	631.7	629.7	624.6	615.5	615.5
62.5°	586.4	583.6	577.7	569.4	568.6
65°	516.4	512.5	506.3	499.2	497.2
67.5°	443.5	439.3	434.4	427.7	426.5
70°	394.2	389.2	385.1	380.0	378.0
72.5°	344.0	341.5	336.5	331.5	330.3
75°	271.9	267.9	262.8	258.7	257.7
77.5°	195.7	195.1	193.2	190.6	191.6
80°	149.6	150.6	149.6	148.6	149.6
82.5°	108.3	110.9	110.8	110.6	111.6
85°	53.6	58.5	60.6	61.7	63.7
87.5°	15.4	20.1	24.3	25.1	25.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)