

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: P520137

Luminaire Tested: **SQ4-F-0U-100D-930-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P520137  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/29/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-F-0U-100D-930-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

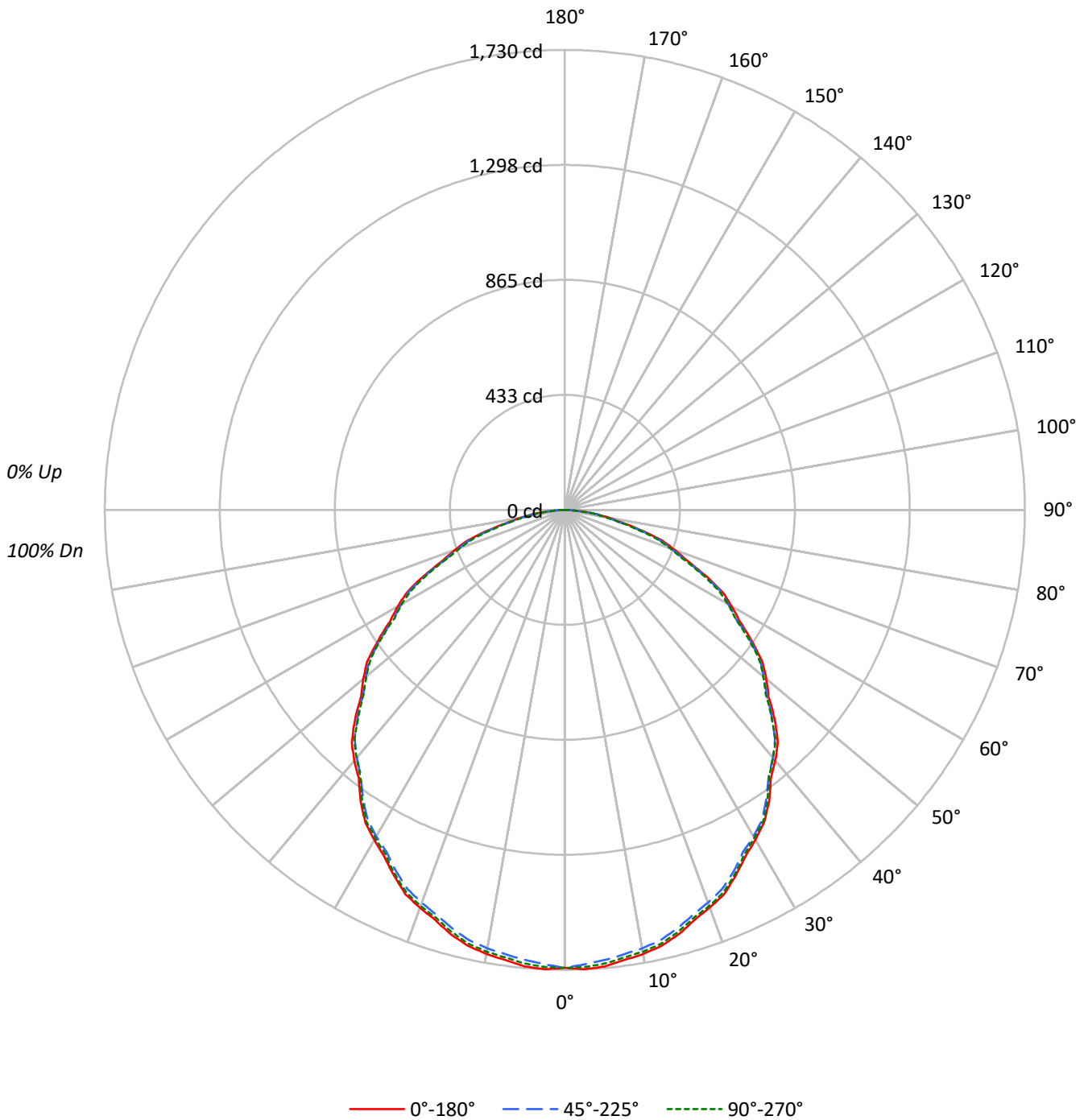
Lumens per Lamp: N/A  
Luminaire Lumens: 4699.8 lumens  
Efficiency: N/A  
Efficacy: 91.8 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Direct

Input Watts (W): 51.2  
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	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25

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

	0°	45°	90°
0°	10598	10598	10598
5°	10646	10500	10581
10°	10593	10460	10541
15°	10528	10385	10468
20°	10420	10295	10381
25°	10306	10185	10266
30°	10180	10072	10122
35°	10053	9929	9981
40°	9886	9771	9780
45°	9712	9578	9547
50°	9461	9348	9326
55°	9183	9081	9017
60°	8904	8744	8714
65°	8469	8278	8211
70°	7868	7677	7528
75°	7027	6802	6661
80°	5781	5572	5320
85°	3423	3754	3839



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	162.6	3.5
10°-20°	463.1	9.9
20°-30°	695.5	14.8
30°-40°	830.0	17.7
40°-50°	850.8	18.1
50°-60°	757.6	16.1
60°-70°	564.7	12.0
70°-80°	305.8	6.5
80°-90°	69.6	1.5
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°	1321.3	28.1
0°-40°	2151.3	45.8
0°-60°	3759.7	80.0
0°-90°	4699.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4699.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1723	1723	1723	1723	1723	
5°	1724	1721	1701	1716	1714	163
15°	1653	1648	1631	1644	1644	466
25°	1518	1515	1501	1509	1513	700
35°	1339	1333	1322	1325	1329	836
45°	1116	1111	1101	1095	1098	859
55°	856	858	847	838	841	766
65°	582	580	569	563	564	575
75°	296	292	286	280	280	315
85°	48	53	53	54	54	69
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1723.1	1723.1	1723.1	1723.1	1723.1
2.5°	1729.8	1726.1	1710.9	1723.1	1721.3
5°	1724.3	1720.9	1700.6	1716.0	1713.7
7.5°	1708.3	1704.8	1687.0	1701.1	1699.1
10°	1696.0	1692.5	1674.7	1688.9	1687.7
12.5°	1679.8	1676.4	1658.6	1672.7	1671.6
15°	1653.4	1647.6	1630.9	1643.9	1643.9
17.5°	1618.4	1614.0	1598.5	1609.4	1609.6
20°	1591.9	1588.4	1572.9	1584.8	1586.0
22.5°	1565.4	1561.9	1544.6	1555.5	1557.6
25°	1518.5	1515.1	1500.8	1509.2	1512.7
27.5°	1470.3	1465.2	1451.2	1458.5	1461.1
30°	1433.4	1431.0	1418.1	1421.6	1425.1
32.5°	1394.6	1392.3	1381.1	1382.9	1389.1
35°	1338.8	1333.1	1322.3	1324.7	1329.3
37.5°	1272.8	1270.0	1259.5	1258.2	1262.6
40°	1231.2	1226.5	1216.9	1214.6	1218.1
42.5°	1185.7	1181.2	1169.7	1167.4	1171.8
45°	1116.5	1110.7	1101.1	1095.3	1097.5
47.5°	1038.9	1038.9	1029.0	1022.1	1025.6
50°	988.7	988.7	976.9	971.1	974.6
52.5°	936.7	937.6	924.8	921.8	920.6
55°	856.3	857.5	846.8	838.5	840.9
57.5°	778.7	776.1	763.7	758.4	759.6
60°	723.8	720.3	710.8	702.7	708.4
62.5°	668.0	666.3	656.8	647.6	646.9
65°	581.9	579.5	568.8	563.0	564.2
67.5°	496.2	493.4	483.7	475.3	478.3
70°	437.5	437.5	426.9	422.1	418.6
72.5°	383.6	379.0	371.2	364.4	361.9
75°	295.7	292.2	286.2	280.3	280.3
77.5°	215.2	212.2	208.4	204.3	203.2
80°	163.2	162.1	157.3	156.0	150.2
82.5°	114.9	114.7	111.9	108.8	108.6
85°	48.5	53.1	53.2	54.4	54.4
87.5°	8.5	14.1	13.3	11.4	11.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)