

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: P520138

Luminaire Tested: **SQ4-F-0U-100D-930-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P520138  
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-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

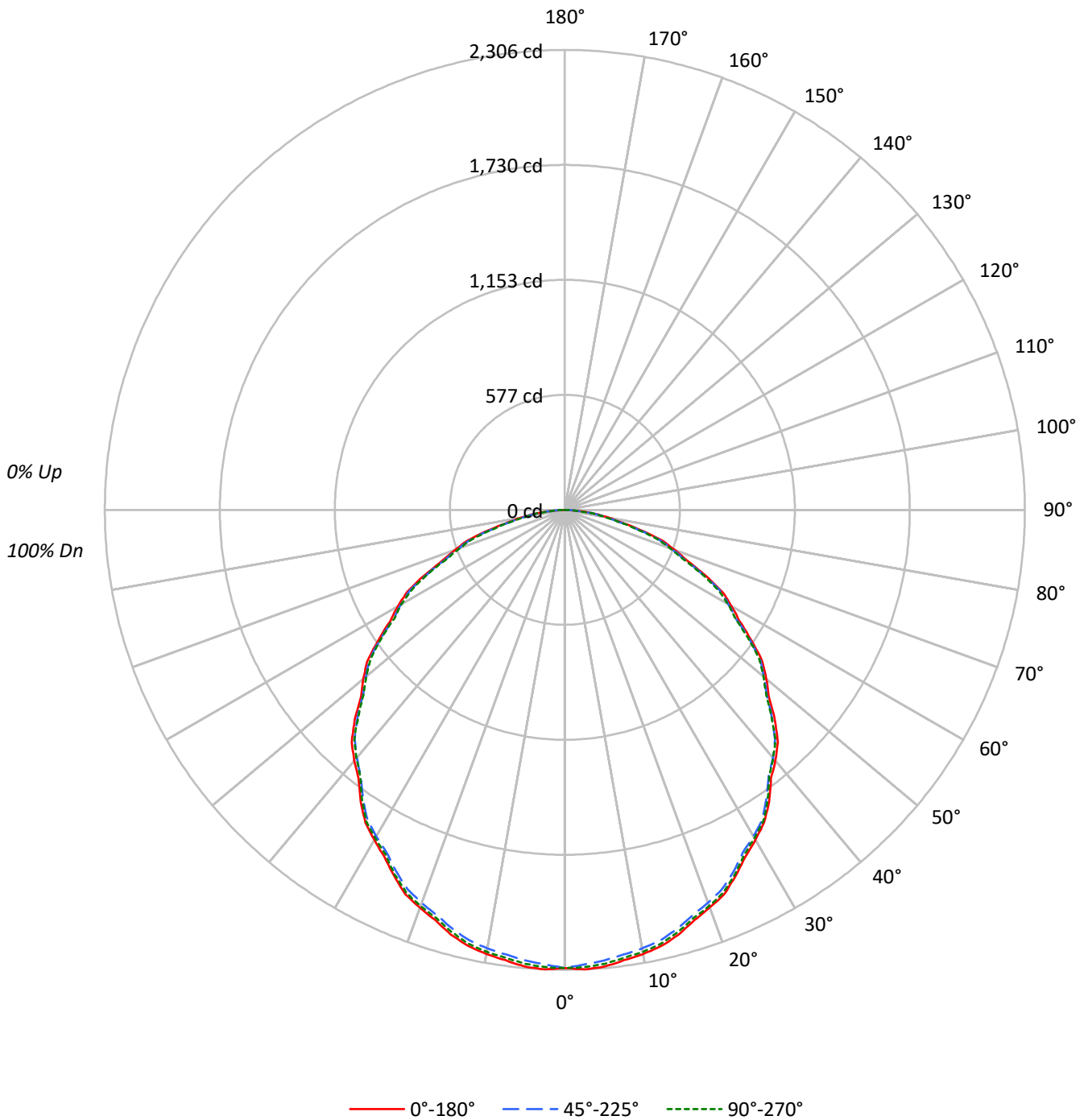
Lumens per Lamp: N/A  
Luminaire Lumens: 6266.4 lumens  
Efficiency: N/A  
Efficacy: 92.7 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Direct

Input Watts (W): 67.6  
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°	10599	10599	10599
5°	10646	10501	10581
10°	10593	10459	10541
15°	10528	10386	10468
20°	10420	10296	10381
25°	10306	10186	10265
30°	10180	10071	10122
35°	10053	9928	9982
40°	9886	9772	9781
45°	9711	9578	9546
50°	9461	9348	9325
55°	9182	9080	9017
60°	8904	8744	8715
65°	8468	8279	8211
70°	7870	7677	7529
75°	7026	6802	6661
80°	5781	5574	5318
85°	3425	3753	3837



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	216.8	3.5
10°-20°	617.5	9.9
20°-30°	927.3	14.8
30°-40°	1106.7	17.7
40°-50°	1134.4	18.1
50°-60°	1010.2	16.1
60°-70°	753.0	12.0
70°-80°	407.7	6.5
80°-90°	92.8	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°	1761.7	28.1
0°-40°	2868.4	45.8
0°-60°	5012.9	80.0
0°-90°	6266.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6266.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2298	2298	2298	2298	2298	
5°	2299	2294	2268	2288	2285	218
15°	2204	2197	2175	2192	2192	621
25°	2025	2020	2001	2012	2017	933
35°	1785	1777	1763	1766	1772	1114
45°	1489	1481	1468	1460	1463	1145
55°	1142	1143	1129	1118	1121	1022
65°	776	773	758	751	752	767
75°	394	390	382	374	374	420
85°	65	71	71	72	72	92
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2297.5	2297.5	2297.5	2297.5	2297.5
2.5°	2306.3	2301.5	2281.2	2297.5	2295.0
5°	2299.1	2294.5	2267.6	2288.0	2284.9
7.5°	2277.7	2273.0	2249.3	2268.2	2265.4
10°	2261.3	2256.7	2232.9	2251.7	2250.3
12.5°	2239.9	2235.2	2211.4	2230.3	2228.8
15°	2204.5	2196.9	2174.6	2191.9	2191.9
17.5°	2157.8	2152.0	2131.4	2145.8	2146.1
20°	2122.5	2117.9	2097.3	2113.1	2114.6
22.5°	2087.2	2082.6	2059.4	2074.0	2076.8
25°	2024.7	2020.1	2001.1	2012.3	2016.8
27.5°	1960.4	1953.6	1934.9	1944.7	1948.2
30°	1911.2	1908.1	1890.7	1895.5	1900.2
32.5°	1859.5	1856.4	1841.5	1843.9	1852.2
35°	1785.1	1777.3	1763.0	1766.2	1772.5
37.5°	1697.1	1693.3	1679.4	1677.7	1683.5
40°	1641.6	1635.4	1622.7	1619.6	1624.3
42.5°	1581.0	1574.8	1559.6	1556.6	1562.4
45°	1488.6	1480.9	1468.1	1460.3	1463.3
47.5°	1385.2	1385.2	1371.9	1362.9	1367.5
50°	1318.3	1318.3	1302.5	1294.7	1299.4
52.5°	1248.9	1250.1	1233.2	1229.0	1227.4
55°	1141.7	1143.2	1129.0	1118.1	1121.2
57.5°	1038.3	1034.8	1018.4	1011.1	1012.7
60°	965.1	960.4	947.7	936.8	944.6
62.5°	890.7	888.5	875.8	863.5	862.6
65°	775.8	772.7	758.5	750.6	752.2
67.5°	661.7	658.0	644.9	633.7	637.7
70°	583.5	583.5	569.2	562.9	558.2
72.5°	511.6	505.4	494.8	485.9	482.5
75°	394.2	389.6	381.6	373.7	373.7
77.5°	287.0	283.0	277.8	272.5	270.9
80°	217.6	216.1	209.8	208.0	200.2
82.5°	153.3	153.0	149.2	145.1	144.8
85°	64.7	70.8	70.9	72.5	72.5
87.5°	11.4	18.7	17.6	15.2	15.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)