

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: P520298

Luminaire Tested: **SQ4-F-125U-075D-835-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P520298  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G3-1910-536-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/29/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-F-125U-075D-835-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

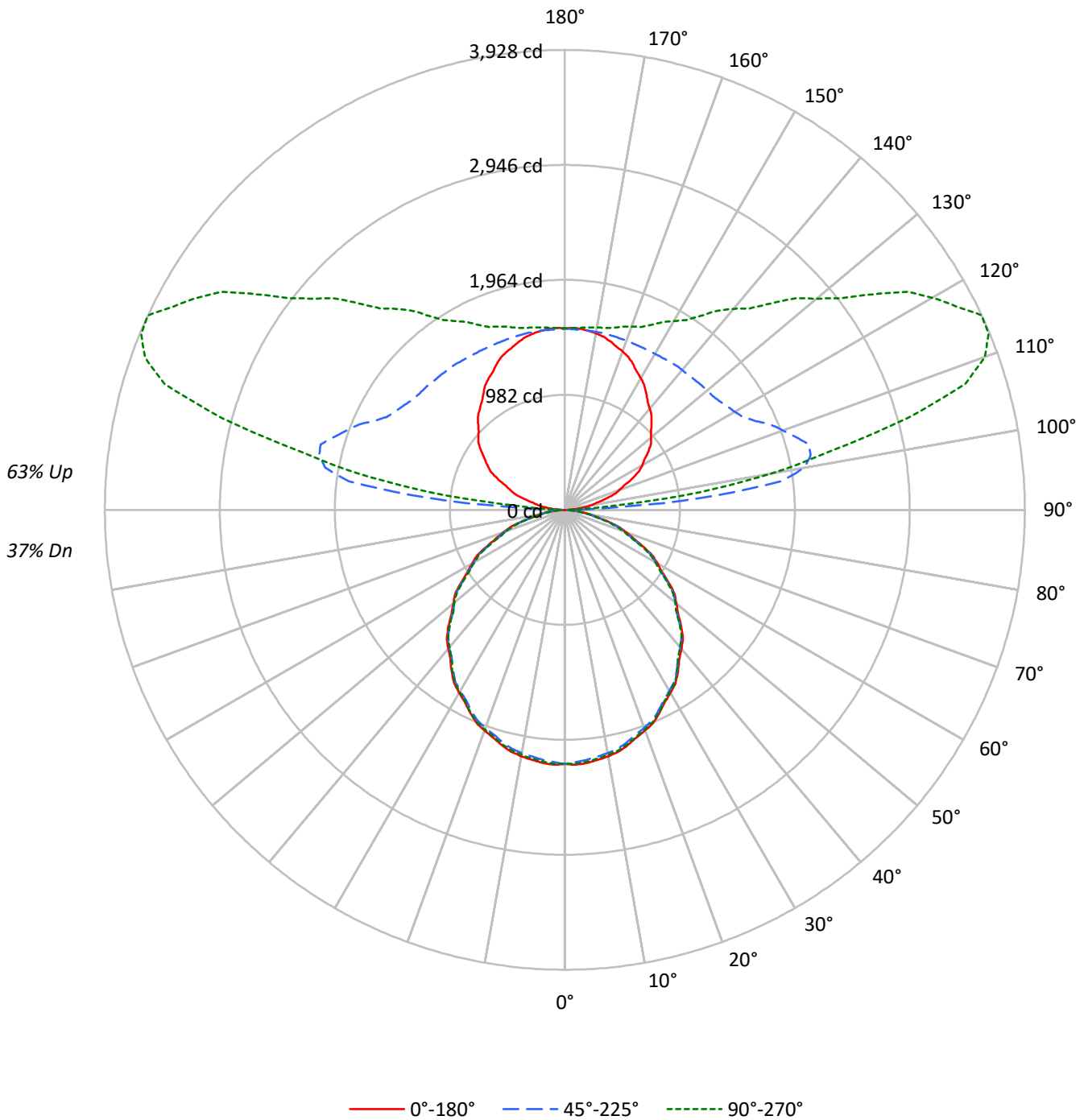
Lumens per Lamp: N/A  
Luminaire Lumens: 15928.5 lumens  
Efficiency: N/A  
Efficacy: 148.7 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 107.1  
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	104	104	104	104	94	94	94	94	76	76	76	60	60	60	44	44	44	37
1	95	91	87	83	86	82	79	76	67	64	62	52	51	50	39	38	37	31
2	86	79	73	68	78	72	67	62	58	55	52	46	43	41	34	33	31	26
3	79	69	62	56	71	63	57	52	51	47	43	41	37	35	30	28	27	22
4	72	61	54	48	65	56	49	44	46	41	37	36	33	30	27	25	23	19
5	66	54	47	41	59	50	43	38	41	35	32	32	29	26	24	22	20	16
6	61	49	41	35	55	45	38	32	37	31	27	29	25	22	22	19	17	14
7	56	44	36	31	51	40	33	28	33	28	24	26	23	20	20	17	15	13
8	52	40	32	27	47	36	30	25	30	25	21	24	20	17	18	16	14	11
9	48	36	29	24	44	33	27	22	27	22	19	22	18	16	17	14	12	10
10	45	33	26	21	41	30	24	20	25	20	17	20	17	14	16	13	11	9

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

	0°	45°	90°
0°	10014	10014	10014
5°	10052	9925	9998
10°	10012	9883	9957
15°	9935	9813	9897
20°	9845	9729	9807
25°	9737	9637	9707
30°	9614	9509	9561
35°	9487	9388	9432
40°	9327	9233	9221
45°	9167	9052	9078
50°	8913	8842	8842
55°	8706	8595	8516
60°	8425	8281	8208
65°	7971	7820	7713
70°	7486	7300	7115
75°	6736	6490	6349
80°	5385	5281	5228
85°	3229	3647	3753



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	204.9	1.3
10°-20°	583.3	3.7
20°-30°	876.4	5.5
30°-40°	1045.8	6.6
40°-50°	1072.5	6.7
50°-60°	955.6	6.0
60°-70°	712.5	4.5
70°-80°	386.4	2.4
80°-90°	92.4	0.6
90°-100°	724.6	4.5
100°-110°	1951.8	12.3
110°-120°	2048.3	12.9
120°-130°	1662.2	10.4
130°-140°	1303.6	8.2
140°-150°	1000.8	6.3
150°-160°	719.6	4.5
160°-170°	439.6	2.8
170°-180°	148.3	0.9
0°-30°	1664.6	10.5
0°-40°	2710.4	17.0
0°-60°	4738.5	29.7
0°-90°	5929.8	37.2
90°-120°	4724.6	29.7
90°-150°	8691.2	54.6
90°-180°	9999.0	62.8
0°-180°	15928.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2171	2171	2171	2171	2171	
5°	2171	2167	2143	2161	2159	206
15°	2080	2076	2055	2070	2072	587
25°	1913	1911	1893	1903	1907	881
35°	1685	1681	1667	1667	1675	1052
45°	1405	1399	1388	1388	1392	1082
55°	1082	1080	1069	1059	1059	967
65°	730	730	716	708	707	727
75°	378	370	364	358	356	397
85°	61	65	69	69	71	85
90°	4	12	24	26	26	9
95°	110	394	1188	607	420	115
105°	361	562	2158	3229	3031	380
115°	637	780	1797	3473	3928	627
125°	870	999	1614	2728	3210	777
135°	1048	1169	1569	2201	2492	809
145°	1212	1306	1549	1882	2020	760
155°	1375	1425	1535	1688	1742	633
165°	1492	1509	1541	1602	1610	421
175°	1551	1549	1543	1564	1561	147
180°	1549	1549	1549	1549	1549	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2170.8	2170.8	2170.8	2170.8	2170.8
2.5°	2178.7	2174.1	2155.1	2170.8	2169.3
5°	2170.8	2167.0	2143.3	2161.0	2159.0
7.5°	2153.1	2148.9	2125.6	2143.3	2142.9
10°	2137.4	2131.6	2109.8	2127.5	2125.6
12.5°	2116.9	2111.1	2089.4	2107.1	2105.1
15°	2080.3	2076.5	2054.7	2070.5	2072.4
17.5°	2038.6	2031.3	2011.8	2027.2	2029.1
20°	2005.5	1999.7	1981.9	1995.7	1997.6
22.5°	1970.9	1965.1	1947.3	1961.0	1963.0
25°	1913.0	1911.0	1893.3	1903.3	1907.1
27.5°	1850.4	1845.0	1830.7	1838.3	1842.2
30°	1804.8	1800.9	1785.1	1791.1	1794.9
32.5°	1757.5	1755.3	1741.0	1743.9	1749.3
35°	1684.7	1680.9	1667.0	1667.2	1674.9
37.5°	1604.0	1599.8	1588.3	1586.4	1589.5
40°	1548.9	1543.1	1533.2	1531.2	1531.2
42.5°	1492.2	1488.0	1474.9	1471.5	1476.1
45°	1405.2	1399.4	1387.5	1387.6	1391.5
47.5°	1311.2	1308.9	1295.0	1288.7	1290.3
50°	1241.9	1245.7	1232.0	1224.4	1232.0
52.5°	1182.1	1179.8	1167.5	1159.7	1162.8
55°	1082.5	1080.5	1068.7	1058.8	1058.8
57.5°	982.5	977.5	965.2	957.8	963.6
60°	913.2	911.2	897.5	883.8	889.6
62.5°	843.9	840.5	826.6	817.7	821.9
65°	730.2	730.2	716.4	708.5	706.6
67.5°	630.6	621.3	613.7	604.1	601.5
70°	555.0	547.3	541.2	533.3	527.5
72.5°	481.0	476.4	467.2	459.4	458.2
75°	377.9	370.2	364.1	358.2	356.2
77.5°	268.8	267.3	261.8	258.6	259.8
80°	202.7	202.7	198.8	198.8	196.8
82.5°	142.9	144.5	143.7	140.5	140.1
85°	61.0	64.8	68.9	68.9	70.9
87.5°	11.8	21.1	22.0	22.4	22.4
90°	3.9	11.6	23.7	25.7	25.7
92.5°	48.2	170.1	336.2	161.8	112.5
95°	110.5	394.1	1187.8	607.4	420.2
97.5°	176.4	451.1	1862.9	1556.3	1173.6
100°	226.9	473.8	2077.6	2173.7	1803.3
102.5°	275.8	505.8	2148.7	2636.2	2332.1
105°	361.0	561.7	2158.5	3229.3	3030.6
107.5°	441.6	620.6	2066.6	3534.1	3585.4
110°	495.2	665.0	1982.9	3628.7	3815.8

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	552.1	709.4	1902.4	3607.8	3915.3
115°	637.3	780.1	1797.4	3473.0	3928.3
117.5°	715.1	848.9	1716.2	3257.9	3764.9
120°	765.5	894.8	1675.1	3103.6	3624.5
122.5°	809.7	937.5	1645.2	2945.7	3465.1
125°	870.1	999.3	1614.0	2727.9	3210.2
127.5°	928.1	1055.5	1594.2	2535.7	2966.3
130°	962.8	1090.1	1586.3	2425.5	2803.7
132.5°	997.6	1123.4	1578.4	2328.6	2675.9
135°	1047.7	1169.3	1568.6	2200.7	2492.0
137.5°	1095.5	1212.0	1563.5	2092.1	2331.3
140°	1128.6	1240.5	1558.7	2025.3	2241.3
142.5°	1163.3	1267.4	1555.6	1963.0	2145.1
145°	1211.5	1306.0	1548.8	1881.5	2020.4
147.5°	1263.5	1345.7	1542.1	1813.0	1922.1
150°	1298.2	1369.7	1539.0	1769.9	1860.6
152.5°	1329.8	1392.0	1537.4	1734.7	1808.5
155°	1375.2	1425.4	1535.0	1688.2	1742.1
157.5°	1415.0	1454.0	1535.4	1655.4	1691.7
160°	1440.3	1473.1	1537.0	1636.3	1663.3
162.5°	1462.4	1489.1	1538.6	1620.3	1639.6
165°	1491.6	1509.0	1541.0	1602.3	1610.0
167.5°	1515.3	1525.4	1542.9	1588.4	1591.5
170°	1531.1	1534.9	1542.9	1580.4	1580.4
172.5°	1540.6	1541.3	1544.5	1572.5	1572.5
175°	1550.8	1548.8	1542.9	1564.5	1560.7
177.5°	1555.2	1552.1	1544.1	1556.6	1553.6
180°	1548.8	1548.8	1548.8	1548.8	1548.8

(END OF REPORT)