

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: P520346

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

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P520346
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-835-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

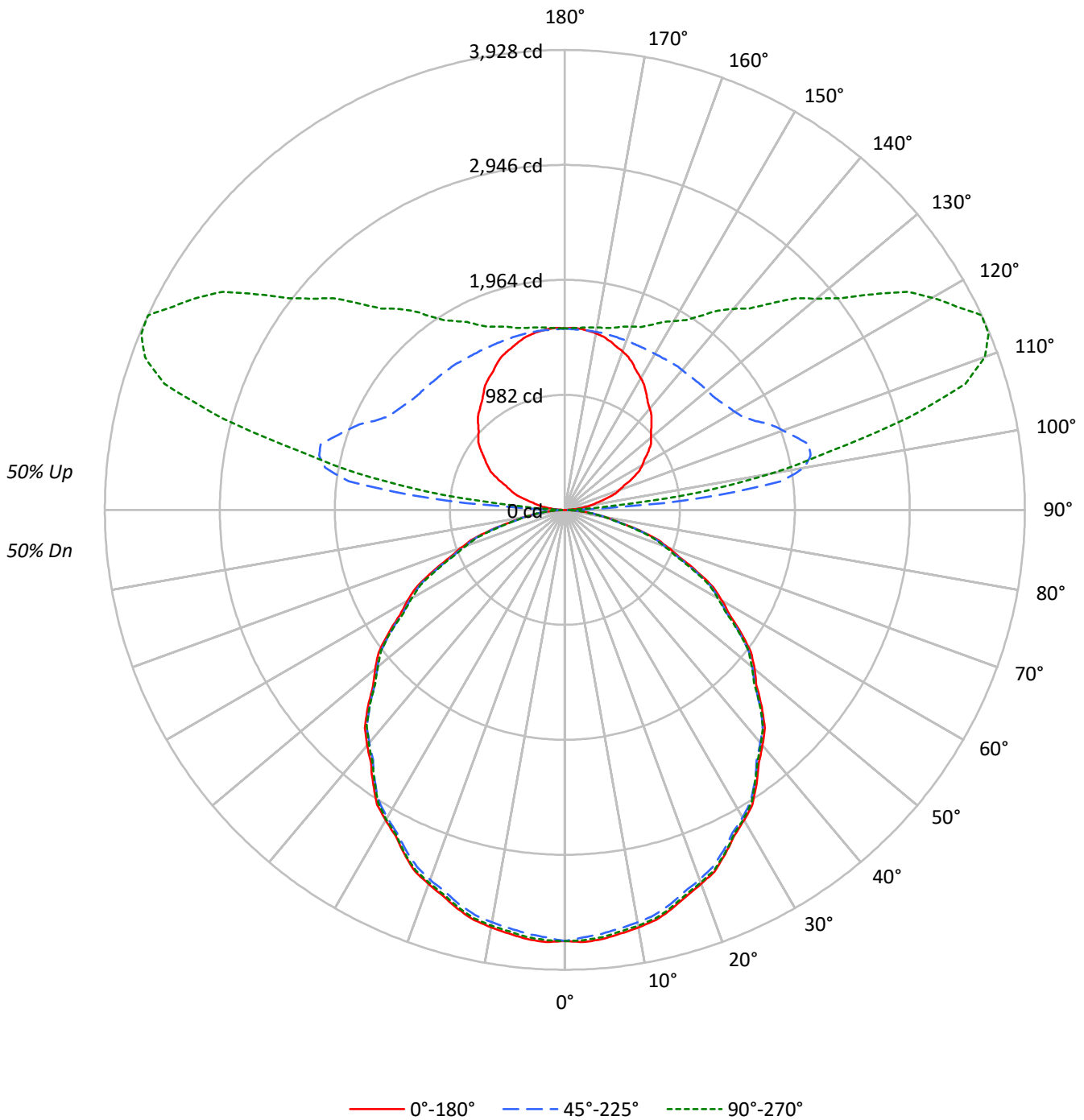
Lumens per Lamp: N/A
Luminaire Lumens: 20051.0 lumens
Efficiency: N/A
Efficacy: 141.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 142
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°	16991	16991	16991
5°	17046	16830	16971
10°	16968	16759	16892
15°	16854	16651	16787
20°	16698	16509	16638
25°	16508	16333	16467
30°	16304	16164	16250
35°	16073	15936	15947
40°	15808	15637	15685
45°	15512	15340	15366
50°	15173	14999	14955
55°	14786	14575	14542
60°	14307	13989	13914
65°	13564	13275	13099
70°	12631	12304	12139
75°	11236	10983	10659
80°	9155	8886	8830
85°	5473	6224	6224



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	347.5	1.7
10°-20°	989.7	4.9
20°-30°	1487.0	7.4
30°-40°	1774.2	8.8
40°-50°	1818.6	9.1
50°-60°	1621.0	8.1
60°-70°	1206.7	6.0
70°-80°	653.8	3.3
80°-90°	153.7	0.8
90°-100°	724.6	3.6
100°-110°	1951.8	9.7
110°-120°	2048.3	10.2
120°-130°	1662.2	8.3
130°-140°	1303.6	6.5
140°-150°	1000.8	5.0
150°-160°	719.6	3.6
160°-170°	439.6	2.2
170°-180°	148.3	0.7
0°-30°	2824.2	14.1
0°-40°	4598.5	22.9
0°-60°	8038.1	40.1
0°-90°	10052.3	50.1
90°-120°	4724.6	23.6
90°-150°	8691.2	43.3
90°-180°	9999.0	49.9
0°-180°	20051.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3683	3683	3683	3683	3683	
5°	3681	3675	3634	3667	3665	349
15°	3529	3521	3486	3517	3515	995
25°	3243	3237	3209	3227	3235	1494
35°	2854	2852	2830	2830	2832	1785
45°	2378	2372	2351	2348	2355	1832
55°	1838	1832	1812	1798	1808	1642
65°	1243	1235	1216	1208	1200	1230
75°	630	630	616	604	598	669
85°	103	117	118	120	118	143
90°	4	12	24	26	26	10
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°	3683.1	3683.1	3683.1	3683.1	3683.1
2.5°	3694.5	3688.1	3655.6	3683.0	3678.3
5°	3681.1	3675.1	3634.5	3666.9	3664.9
7.5°	3649.9	3642.4	3605.3	3635.6	3632.0
10°	3622.3	3616.3	3577.7	3608.1	3606.1
12.5°	3588.3	3582.3	3543.7	3574.1	3573.7
15°	3529.1	3521.2	3486.5	3516.9	3514.9
17.5°	3458.1	3449.0	3414.7	3438.8	3442.7
20°	3401.4	3395.4	3362.9	3385.3	3389.2
22.5°	3343.0	3335.5	3301.2	3326.9	3330.8
25°	3243.3	3237.3	3208.8	3227.2	3235.1
27.5°	3133.8	3133.8	3107.4	3120.5	3125.3
30°	3060.8	3060.8	3034.5	3042.8	3050.7
32.5°	2983.0	2976.6	2951.8	2958.5	2966.4
35°	2854.1	2852.0	2829.7	2829.7	2831.8
37.5°	2720.7	2715.1	2690.7	2692.5	2702.0
40°	2625.0	2621.1	2596.6	2596.8	2604.7
42.5°	2527.7	2523.8	2502.6	2499.4	2502.6
45°	2377.7	2371.7	2351.4	2347.5	2355.4
47.5°	2218.0	2219.6	2195.3	2189.7	2194.1
50°	2114.2	2114.2	2089.9	2077.8	2083.8
52.5°	2005.5	2002.4	1978.0	1964.5	1978.4
55°	1838.5	1832.5	1812.2	1798.2	1808.1
57.5°	1667.4	1658.3	1637.8	1622.5	1628.1
60°	1550.7	1536.8	1516.2	1504.2	1508.1
62.5°	1429.1	1421.6	1399.5	1381.0	1389.7
65°	1242.6	1234.7	1216.2	1207.9	1200.0
67.5°	1059.7	1054.6	1033.8	1025.2	1020.0
70°	936.5	926.6	912.2	902.0	900.0
72.5°	816.5	805.0	790.5	781.9	776.8
75°	630.4	630.4	616.2	604.0	598.0
77.5°	453.2	454.9	443.1	439.0	436.2
80°	344.6	344.6	334.5	330.4	332.4
82.5°	240.8	245.6	242.0	236.3	233.5
85°	103.4	117.3	117.6	119.6	117.6
87.5°	18.6	31.3	35.7	32.7	29.6
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)