

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: P519443

Luminaire Tested: **SQ4-WB-100U-125D-935-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519443  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, G2-2009-966-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/29/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-WB-100U-125D-935-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

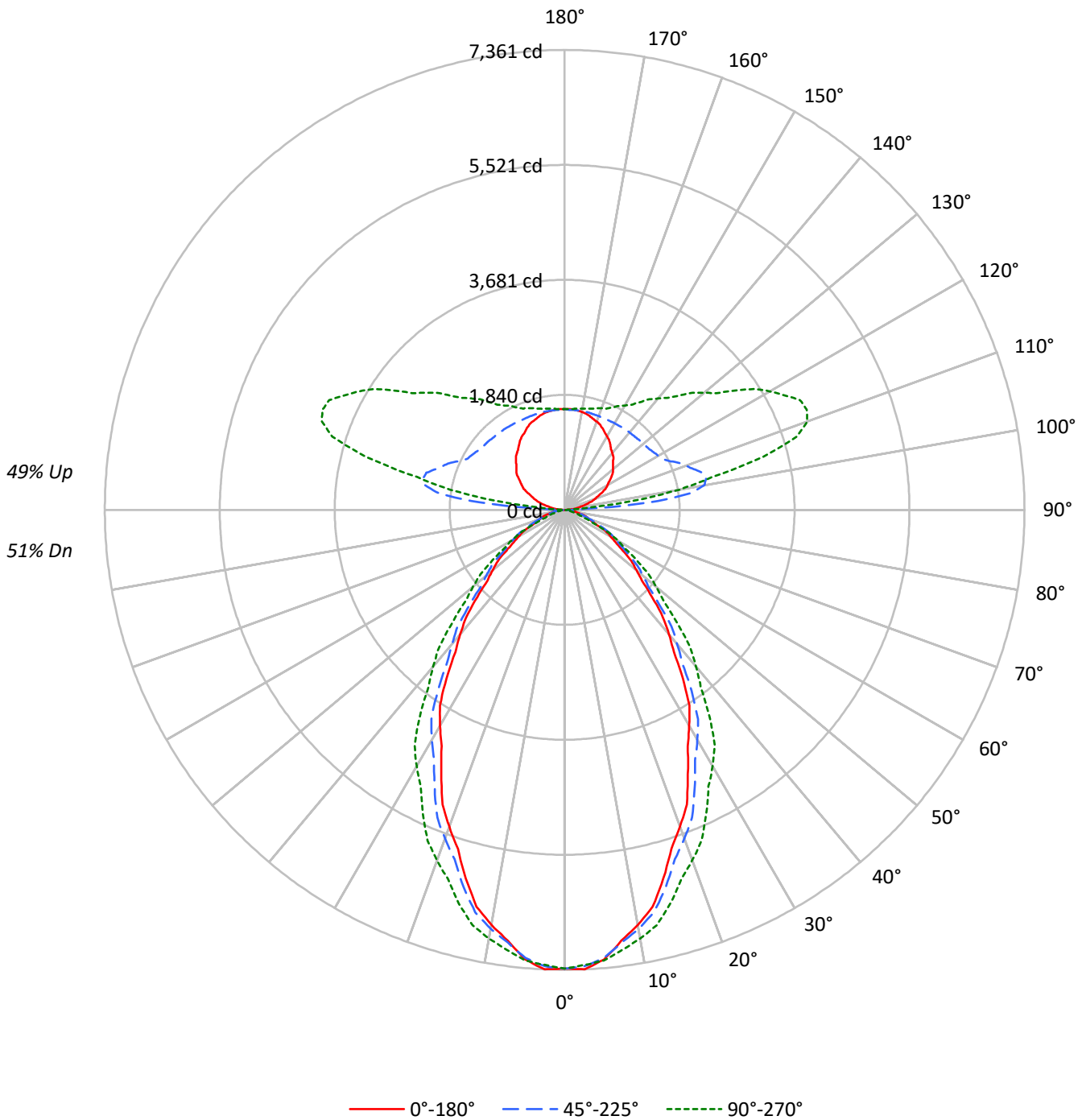
Lumens per Lamp: N/A  
Luminaire Lumens: 21172.9 lumens  
Efficiency: N/A  
Efficacy: 98.6 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 214.8  
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	84	84	84	70	70	70	57	57	57	51
1	99	95	92	89	91	88	85	83	75	73	71	63	62	60	52	51	50	45
2	91	84	79	74	84	78	74	70	67	64	61	57	54	52	47	45	44	40
3	84	75	69	63	78	70	64	60	60	56	53	51	48	46	43	41	39	35
4	77	68	60	55	72	63	57	52	54	50	46	47	43	40	39	37	35	31
5	72	61	53	48	66	57	50	45	49	44	40	42	39	36	36	33	31	28
6	66	55	48	42	61	52	45	40	45	40	36	39	35	32	33	30	28	25
7	62	50	43	38	57	47	41	36	41	36	32	36	32	29	31	28	25	23
8	58	46	39	34	53	43	37	32	38	33	29	33	29	26	28	25	23	21
9	54	42	35	30	50	40	33	29	35	30	27	31	27	24	27	24	21	19
10	50	39	32	28	47	37	31	27	33	28	24	29	25	22	25	22	20	18

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

	0°	45°	90°
0°	22583	22583	22583
5°	22301	22222	22351
10°	21070	21261	21754
15°	19451	19902	20795
20°	17663	18328	19540
25°	15843	16706	18205
30°	14165	15092	16820
35°	12387	13283	15182
40°	10426	11254	13142
45°	8605	9347	10973
50°	7184	7831	9142
55°	6099	6720	7550
60°	5212	5827	6025
65°	4150	4900	3892
70°	3679	3824	2376
75°	3408	3101	1454
80°	3138	2853	1256
85°	2844	2615	1023



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	673.5	3.2
10°-20°	1751.9	8.3
20°-30°	2269.2	10.7
30°-40°	2222.1	10.5
40°-50°	1700.9	8.0
50°-60°	1133.4	5.4
60°-70°	618.5	2.9
70°-80°	257.7	1.2
80°-90°	76.3	0.4
90°-100°	754.6	3.6
100°-110°	2083.1	9.8
110°-120°	2148.4	10.1
120°-130°	1726.4	8.2
130°-140°	1356.8	6.4
140°-150°	1040.6	4.9
150°-160°	747.9	3.5
160°-170°	457.3	2.2
170°-180°	154.2	0.7
0°-30°	4694.7	22.2
0°-40°	6916.8	32.7
0°-60°	9751.1	46.1
0°-90°	10703.6	50.6
90°-120°	4986.1	23.5
90°-150°	9109.9	43.0
90°-180°	10469.0	49.4
0°-180°	21172.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7343	7343	7343	7343	7343	
5°	7224	7152	7198	7215	7240	672
15°	6109	6087	6251	6421	6531	1706
25°	4669	4681	4923	5138	5365	2147
35°	3299	3315	3538	3776	4044	2051
45°	1978	2016	2149	2312	2523	1543
55°	1137	1185	1253	1301	1408	1031
65°	570	618	673	588	535	593
75°	287	287	261	179	122	306
85°	81	81	74	48	29	88
90°	5	10	21	23	26	12
95°	111	408	1369	563	366	119
105°	371	573	2292	3499	3295	395
115°	665	804	1846	3654	4156	654
125°	913	1039	1673	2832	3323	812
135°	1098	1217	1627	2293	2586	850
145°	1274	1362	1606	1952	2101	797
155°	1436	1484	1593	1752	1807	662
165°	1555	1575	1601	1663	1676	438
175°	1611	1614	1604	1627	1622	153
180°	1611	1611	1611	1611	1611	

TEST NUMBER: P519443

CATALOG NUMBER: SQ4-WB-100U-125D-935-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7343.1	7343.1	7343.1	7343.1	7343.1
2.5°	7361.2	7295.6	7312.2	7311.7	7291.6
5°	7223.9	7151.5	7198.1	7214.8	7240.0
7.5°	6955.8	6901.0	6986.1	7049.2	7100.2
10°	6747.0	6699.8	6808.3	6900.0	6966.2
12.5°	6504.7	6465.1	6599.5	6722.6	6808.9
15°	6109.1	6087.0	6250.8	6420.9	6531.2
17.5°	5685.7	5675.0	5862.9	6061.4	6202.5
20°	5397.0	5393.8	5600.0	5806.7	5970.5
22.5°	5105.7	5112.6	5329.3	5544.3	5730.8
25°	4668.8	4681.4	4923.3	5137.9	5364.8
27.5°	4264.8	4270.4	4520.6	4747.1	4989.1
30°	3988.9	4004.7	4249.9	4484.4	4736.5
32.5°	3713.1	3731.4	3971.5	4213.9	4471.0
35°	3299.4	3315.2	3537.9	3775.9	4043.7
37.5°	2872.8	2894.2	3091.9	3317.0	3580.4
40°	2597.0	2628.5	2803.2	3015.3	3273.6
42.5°	2331.5	2370.6	2532.6	2733.8	2966.9
45°	1978.4	2016.2	2149.1	2311.8	2522.9
47.5°	1674.2	1717.7	1819.8	1959.9	2140.1
50°	1501.5	1542.4	1636.8	1740.6	1910.7
52.5°	1349.4	1390.4	1474.4	1554.4	1699.3
55°	1137.4	1184.7	1253.4	1300.9	1408.1
57.5°	963.4	1008.8	1063.3	1084.7	1149.6
60°	847.4	897.8	947.3	944.9	979.5
62.5°	741.7	784.6	833.9	799.8	801.7
65°	570.3	617.6	673.4	588.4	534.9
67.5°	460.8	470.8	528.4	410.3	346.7
70°	409.2	409.2	425.3	317.8	264.2
72.5°	360.2	360.2	345.4	258.4	202.3
75°	286.8	286.8	261.0	179.1	122.4
77.5°	221.0	218.5	199.8	133.7	88.9
80°	177.2	177.2	161.1	105.5	70.9
82.5°	138.5	138.5	125.0	82.5	52.8
85°	80.6	80.6	74.1	47.9	29.0
87.5°	29.4	30.4	29.9	20.1	18.0
90°	5.2	10.2	20.6	23.3	25.8
92.5°	46.4	192.6	344.4	125.7	98.0
95°	110.9	408.3	1368.9	562.7	366.1
97.5°	183.6	457.3	2027.9	1561.3	1130.7
100°	237.2	486.7	2271.3	2287.3	1858.8
102.5°	288.7	520.1	2318.7	2826.1	2419.8
105°	371.2	572.9	2291.9	3498.9	3294.7
107.5°	458.9	638.4	2164.0	3823.4	3898.0
110°	520.8	682.1	2065.0	3893.2	4135.2



TEST NUMBER: P519443

CATALOG NUMBER: SQ4-WB-100U-125D-935-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	576.5	731.7	1972.2	3838.1	4195.0
115°	665.1	803.8	1845.9	3654.2	4155.8
117.5°	742.5	880.6	1762.9	3395.4	3966.1
120°	794.0	930.2	1729.9	3220.2	3794.9
122.5°	843.5	973.6	1703.1	3056.5	3601.0
125°	912.6	1038.7	1673.2	2831.6	3323.1
127.5°	971.4	1097.4	1655.6	2641.3	3065.3
130°	1010.6	1136.6	1647.4	2524.9	2910.6
132.5°	1047.7	1167.7	1639.1	2427.2	2776.6
135°	1098.2	1216.7	1626.7	2293.4	2585.8
137.5°	1155.0	1262.9	1620.6	2181.0	2430.6
140°	1185.9	1291.8	1616.4	2106.1	2325.4
142.5°	1221.0	1318.8	1612.3	2039.5	2232.6
145°	1273.6	1361.8	1606.1	1952.4	2101.1
147.5°	1324.1	1401.2	1600.5	1878.9	1994.4
150°	1361.2	1424.2	1598.4	1835.1	1928.4
152.5°	1390.1	1449.1	1596.3	1797.6	1874.8
155°	1436.0	1483.9	1593.2	1751.8	1807.2
157.5°	1478.3	1515.1	1593.7	1718.4	1756.2
160°	1503.0	1535.8	1595.8	1699.6	1727.3
162.5°	1523.6	1552.4	1597.9	1682.9	1704.6
165°	1554.6	1574.7	1601.0	1663.1	1675.7
167.5°	1578.3	1590.4	1603.5	1651.1	1655.1
170°	1590.7	1600.7	1603.5	1644.8	1644.8
172.5°	1601.0	1607.0	1603.5	1636.5	1634.5
175°	1611.3	1613.8	1603.5	1626.6	1621.6
177.5°	1615.4	1613.4	1603.0	1617.4	1613.3
180°	1611.3	1611.3	1611.3	1611.3	1611.3

(END OF REPORT)