

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: P564993

Luminaire Tested: **SQ4-PW1-100U-125D-935-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564993  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, G2-2106-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PW1-100U-125D-935-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

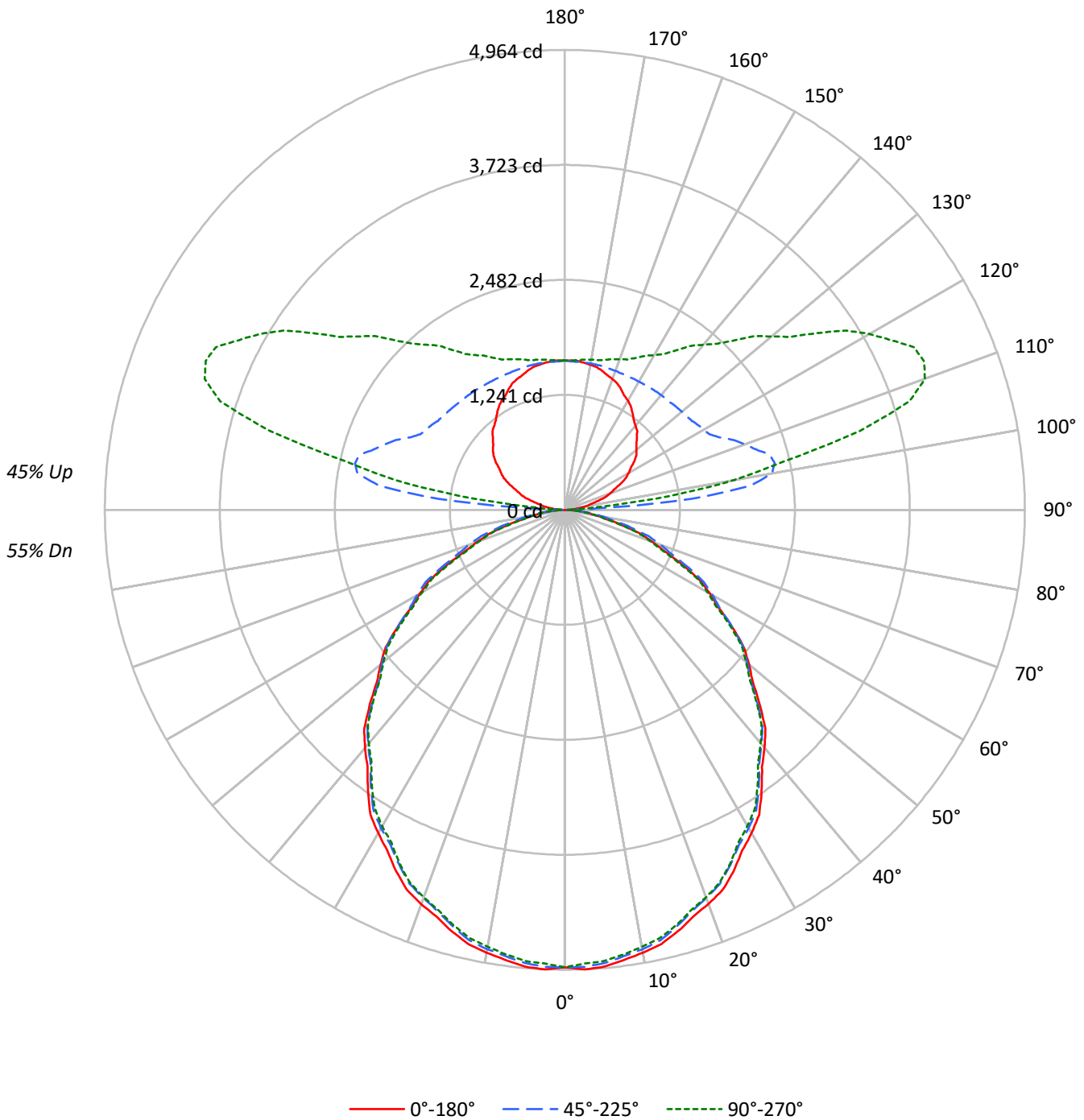
Lumens per Lamp: N/A  
Luminaire Lumens: 23032.7 lumens  
Efficiency: N/A  
Efficacy: 107.2 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: General Diffuse

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



TEST NUMBER: P564993  
CATALOG NUMBER: SQ4-PW1-100U-125D-935-1D-UNV-STD-W-12

### Luminous Intensity Polar Plot





TEST NUMBER: P564993

CATALOG NUMBER: SQ4-PW1-100U-125D-935-1D-UNV-STD-W-12

**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	108	108	108	108	100	100	100	100	86	86	86	73	73	73	60	60	60	55
1	99	95	91	87	92	88	85	82	76	73	71	64	62	61	53	52	51	46
2	90	83	77	71	83	77	72	67	66	62	59	56	53	51	47	45	43	39
3	82	73	65	60	76	68	61	56	59	54	49	50	46	43	42	39	37	33
4	75	64	57	50	70	60	53	48	52	47	42	44	40	37	37	34	32	28
5	69	57	49	43	64	54	46	41	47	41	36	40	36	32	34	30	28	25
6	64	52	43	38	59	48	41	36	42	36	32	36	32	28	31	27	24	22
7	59	47	39	33	55	44	36	31	38	32	28	33	28	25	28	24	22	19
8	55	42	35	29	51	40	33	28	35	29	25	30	26	22	26	22	19	17
9	51	39	31	26	47	36	30	25	32	26	22	28	23	20	24	20	18	15
10	48	36	28	23	44	33	27	22	29	24	20	26	21	18	22	19	16	14

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

	0°	45°	90°
0°	15182	15182	15182
5°	15280	15159	15092
10°	15158	15036	14954
15°	14998	14832	14776
20°	14818	14591	14562
25°	14612	14346	14302
30°	14303	14086	13994
35°	13896	13700	13619
40°	13463	13253	13201
45°	12939	12769	12712
50°	12403	12298	12215
55°	11824	11824	11637
60°	11102	11316	10915
65°	10160	10667	9907
70°	8956	9816	8721
75°	7649	8786	7442
80°	5931	7394	6009
85°	3836	5678	5064



TEST NUMBER: P564993

CATALOG NUMBER: SQ4-PW1-100U-125D-935-1D-UNV-STD-W-12

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	464.9	2.0
10°-20°	1312.4	5.7
20°-30°	1946.8	8.5
30°-40°	2277.9	9.9
40°-50°	2267.7	9.8
50°-60°	1958.3	8.5
60°-70°	1409.6	6.1
70°-80°	739.2	3.2
80°-90°	186.6	0.8
90°-100°	754.6	3.3
100°-110°	2083.1	9.0
110°-120°	2148.4	9.3
120°-130°	1726.4	7.5
130°-140°	1356.8	5.9
140°-150°	1040.6	4.5
150°-160°	747.9	3.2
160°-170°	457.3	2.0
170°-180°	154.2	0.7
0°-30°	3724.1	16.2
0°-40°	6002.0	26.1
0°-60°	10228.0	44.4
0°-90°	12563.4	54.5
90°-120°	4986.1	21.6
90°-150°	9109.9	39.6
90°-180°	10469.0	45.5
0°-180°	23032.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4937	4937	4937	4937	4937	
5°	4950	4894	4910	4897	4889	469
15°	4710	4651	4658	4649	4641	1328
25°	4306	4234	4228	4202	4215	1980
35°	3701	3650	3649	3615	3627	2314
45°	2975	2950	2936	2927	2923	2295
55°	2205	2201	2205	2175	2170	1968
65°	1396	1439	1466	1408	1361	1384
75°	644	703	739	690	626	690
85°	109	143	161	152	144	144
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: P564993

CATALOG NUMBER: SQ4-PW1-100U-125D-935-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4936.6	4936.6	4936.6	4936.6	4936.6
2.5°	4964.5	4923.6	4936.6	4925.6	4901.8
5°	4949.7	4894.4	4910.5	4897.3	4888.8
7.5°	4899.2	4848.2	4860.1	4846.0	4840.9
10°	4854.0	4803.0	4814.8	4797.3	4788.7
12.5°	4801.8	4747.4	4759.2	4741.7	4736.6
15°	4710.5	4650.9	4658.3	4649.4	4640.9
17.5°	4604.3	4543.9	4545.2	4531.2	4529.5
20°	4527.8	4464.0	4458.2	4441.0	4449.5
22.5°	4444.3	4377.1	4371.2	4347.1	4359.0
25°	4306.0	4233.7	4227.7	4201.9	4214.6
27.5°	4145.9	4074.4	4074.6	4038.3	4051.9
30°	4027.6	3959.5	3966.7	3923.6	3940.6
32.5°	3902.3	3841.1	3844.9	3801.8	3818.8
35°	3701.4	3650.3	3649.2	3614.7	3627.4
37.5°	3496.1	3451.0	3443.9	3424.0	3427.4
40°	3353.4	3315.2	3301.2	3288.2	3288.2
42.5°	3203.8	3168.9	3155.1	3145.4	3142.0
45°	2975.0	2949.5	2935.9	2927.1	2922.8
47.5°	2748.9	2725.0	2713.2	2707.0	2702.7
50°	2592.3	2575.3	2570.5	2557.4	2553.1
52.5°	2435.7	2425.5	2420.9	2404.3	2400.0
55°	2205.2	2200.9	2205.2	2174.6	2170.4
57.5°	1965.1	1971.9	1986.0	1944.8	1934.6
60°	1805.0	1822.0	1839.8	1791.6	1774.6
62.5°	1641.5	1668.7	1693.7	1638.3	1614.5
65°	1396.2	1438.7	1465.8	1408.2	1361.4
67.5°	1159.6	1212.3	1244.8	1182.7	1130.0
70°	996.0	1055.6	1091.7	1029.5	969.9
72.5°	853.4	919.7	949.0	890.3	830.7
75°	643.7	703.3	739.4	690.1	626.3
77.5°	456.7	512.8	542.8	499.9	447.1
80°	334.9	394.4	417.5	381.8	339.3
82.5°	237.5	286.8	302.7	281.2	252.3
85°	108.7	142.8	160.9	152.0	143.5
87.5°	28.9	53.7	70.2	70.8	74.7
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: P564993

CATALOG NUMBER: SQ4-PW1-100U-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)