

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: P565123

Luminaire Tested: **SQ4-PW1-150U-075D-830-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P565123
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, 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-PW1-150U-075D-830-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

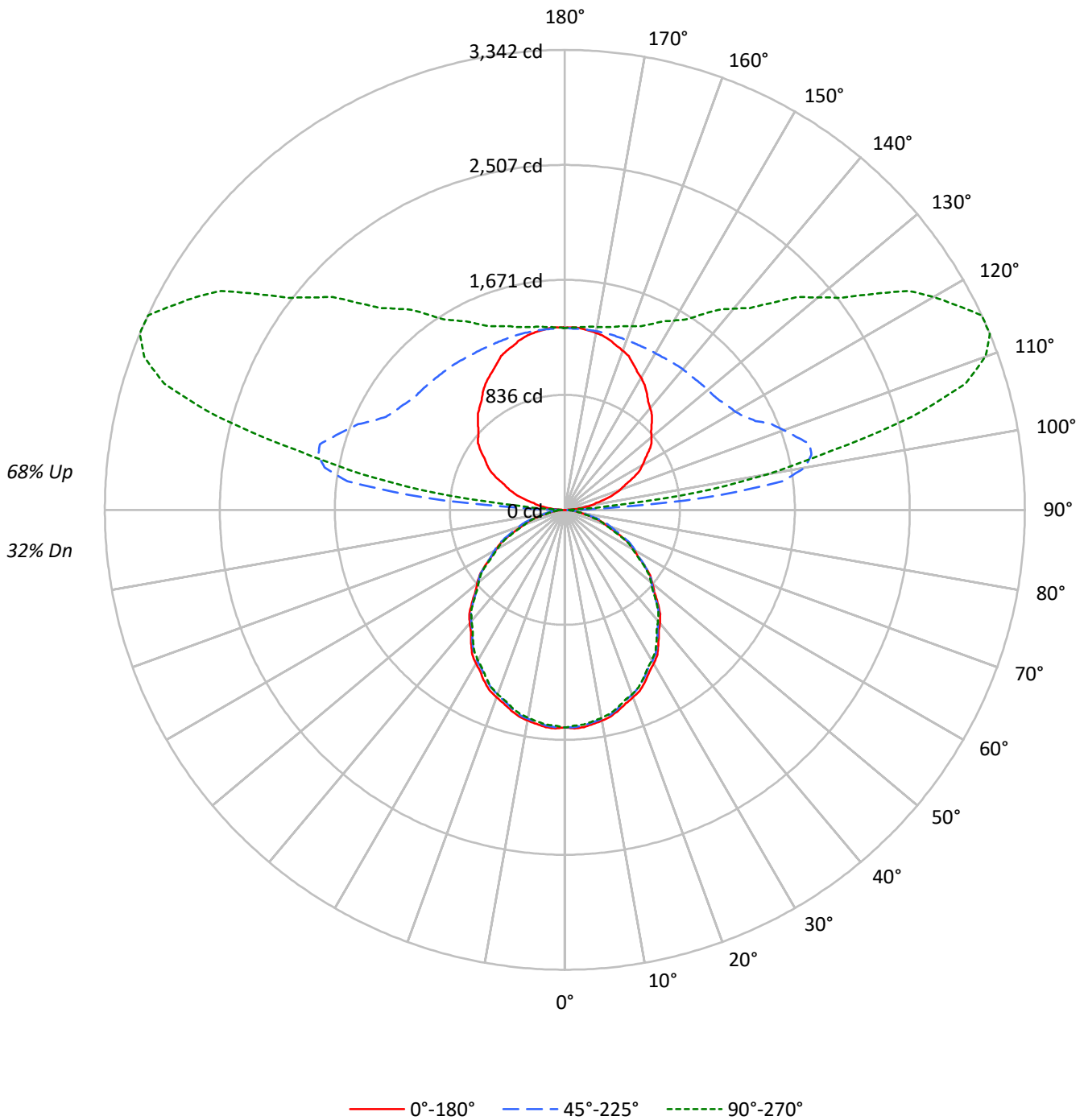
Lumens per Lamp: N/A
Luminaire Lumens: 12555.1 lumens
Efficiency: N/A
Efficacy: 128.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 97.8
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: P565123
CATALOG NUMBER: SQ4-PW1-150U-075D-830-1D-UNV-STD-W-6

Luminous Intensity Polar Plot





TEST NUMBER: P565123

CATALOG NUMBER: SQ4-PW1-150U-075D-830-1D-UNV-STD-W-6

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	103	103	103	103	93	93	93	93	73	73	73	56	56	56	40	40	40	32
1	94	90	86	83	84	81	78	75	64	62	60	49	48	46	35	34	34	27
2	85	78	72	67	77	71	66	61	56	53	50	43	41	39	31	30	28	23
3	78	69	62	56	70	62	56	51	50	45	42	38	35	33	27	26	24	19
4	71	61	53	47	64	55	48	43	44	39	36	34	31	28	25	22	21	17
5	65	54	46	40	59	49	42	37	39	34	31	30	27	24	22	20	18	14
6	60	48	41	35	54	44	37	32	35	30	27	27	24	21	20	18	16	13
7	55	44	36	30	50	40	33	28	32	27	23	25	21	19	18	16	14	11
8	51	39	32	27	46	36	29	25	29	24	21	23	19	17	17	14	13	10
9	48	36	29	24	43	33	26	22	27	22	18	21	17	15	15	13	11	9
10	44	33	26	21	40	30	24	20	24	20	16	19	16	13	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9727	9727	9727
5°	9789	9712	9669
10°	9711	9633	9581
15°	9608	9502	9466
20°	9494	9348	9329
25°	9361	9191	9163
30°	9163	9025	8965
35°	8903	8778	8725
40°	8625	8491	8457
45°	8290	8181	8144
50°	7946	7879	7826
55°	7575	7575	7455
60°	7113	7251	6993
65°	6509	6833	6347
70°	5739	6289	5588
75°	4900	5630	4767
80°	3801	4739	3850
85°	2456	3642	3246



TEST NUMBER: P565123

CATALOG NUMBER: SQ4-PW1-150U-075D-830-1D-UNV-STD-W-6

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.9	1.2
10°-20°	420.4	3.3
20°-30°	623.6	5.0
30°-40°	729.7	5.8
40°-50°	726.4	5.8
50°-60°	627.3	5.0
60°-70°	451.5	3.6
70°-80°	236.8	1.9
80°-90°	61.5	0.5
90°-100°	614.8	4.9
100°-110°	1662.2	13.2
110°-120°	1747.6	13.9
120°-130°	1419.5	11.3
130°-140°	1113.5	8.9
140°-150°	854.6	6.8
150°-160°	614.6	4.9
160°-170°	375.5	3.0
170°-180°	126.6	1.0
0°-30°	1192.9	9.5
0°-40°	1922.6	15.3
0°-60°	3276.4	26.1
0°-90°	4026.2	32.1
90°-120°	4024.6	32.1
90°-150°	7412.3	59.0
90°-180°	8529.0	67.9
0°-180°	12555.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1581	1581	1581	1581	1581	
5°	1586	1568	1573	1569	1566	150
15°	1509	1490	1492	1489	1487	425
25°	1379	1356	1354	1346	1350	634
35°	1186	1169	1169	1158	1162	741
45°	953	945	940	938	936	735
55°	706	705	706	697	695	630
65°	447	461	470	451	436	443
75°	206	225	237	221	201	221
85°	35	46	52	49	46	46
90°	3	8	18	20	18	8
95°	95	335	1022	529	315	100
105°	309	478	1844	2720	2609	325
115°	544	665	1529	2960	3342	537
125°	745	853	1378	2326	2733	664
135°	893	999	1341	1878	2126	690
145°	1038	1116	1323	1608	1730	649
155°	1172	1218	1312	1442	1490	541
165°	1276	1288	1317	1369	1376	359
175°	1324	1323	1319	1336	1333	126
180°	1323	1323	1323	1323	1323	

TEST NUMBER: P565123

CATALOG NUMBER: SQ4-PW1-150U-075D-830-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1581.4	1581.4	1581.4	1581.4	1581.4
2.5°	1590.3	1577.2	1581.4	1577.8	1570.2
5°	1585.5	1567.8	1573.0	1568.8	1566.0
7.5°	1569.4	1553.0	1556.8	1552.3	1550.7
10°	1554.9	1538.5	1542.4	1536.7	1534.0
12.5°	1538.2	1520.7	1524.5	1518.9	1517.3
15°	1508.9	1489.8	1492.2	1489.3	1486.6
17.5°	1474.9	1455.6	1456.0	1451.5	1451.0
20°	1450.4	1430.0	1428.1	1422.6	1425.3
22.5°	1423.6	1402.1	1400.2	1392.5	1396.3
25°	1379.3	1356.2	1354.3	1346.0	1350.1
27.5°	1328.1	1305.2	1305.2	1293.6	1298.0
30°	1290.2	1268.4	1270.7	1256.9	1262.3
32.5°	1250.0	1230.4	1231.7	1217.8	1223.3
35°	1185.7	1169.3	1169.0	1157.9	1162.0
37.5°	1119.9	1105.5	1103.2	1096.8	1097.9
40°	1074.2	1062.0	1057.5	1053.3	1053.3
42.5°	1026.3	1015.1	1010.7	1007.6	1006.5
45°	953.0	944.8	940.5	937.6	936.3
47.5°	880.5	872.9	869.1	867.1	865.8
50°	830.4	824.9	823.4	819.2	817.9
52.5°	780.2	777.0	775.5	770.2	768.8
55°	706.4	705.0	706.4	696.6	695.2
57.5°	629.5	631.7	636.2	623.0	619.7
60°	578.2	583.7	589.4	573.9	568.5
62.5°	525.8	534.5	542.5	524.8	517.2
65°	447.2	460.9	469.5	451.1	436.1
67.5°	371.4	388.3	398.8	378.9	362.0
70°	319.1	338.1	349.7	329.8	310.7
72.5°	273.4	294.6	304.0	285.2	266.1
75°	206.2	225.3	236.9	221.1	200.6
77.5°	146.3	164.3	173.9	160.1	143.2
80°	107.3	126.4	133.8	122.3	108.7
82.5°	76.1	91.9	97.0	90.1	80.8
85°	34.8	45.7	51.6	48.7	46.0
87.5°	9.5	18.2	24.9	25.2	26.0
90°	2.8	8.4	18.5	19.9	18.5
92.5°	40.4	147.4	290.8	126.2	91.4
95°	95.4	334.9	1022.4	529.1	314.7
97.5°	153.2	384.1	1593.7	1318.9	968.6
100°	196.5	404.0	1771.4	1847.4	1493.7
102.5°	236.4	431.6	1834.1	2248.1	1983.6
105°	309.0	477.5	1844.0	2720.1	2608.7
107.5°	376.2	529.9	1763.4	3014.5	3051.5
110°	428.6	567.8	1691.7	3093.6	3250.9



TEST NUMBER: P565123

CATALOG NUMBER: SQ4-PW1-150U-075D-830-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	475.3	605.6	1625.6	3077.8	3342.0
115°	544.0	665.1	1529.3	2960.5	3342.0
117.5°	611.2	724.8	1465.8	2781.4	3213.9
120°	652.2	763.6	1428.2	2652.9	3094.3
122.5°	690.9	800.1	1405.4	2515.1	2959.8
125°	744.7	853.3	1378.4	2326.0	2732.6
127.5°	794.3	900.9	1362.4	2171.7	2529.2
130°	821.6	931.6	1355.6	2076.4	2399.4
132.5°	850.1	959.0	1348.8	1990.3	2287.7
135°	892.8	998.6	1341.4	1878.1	2126.0
137.5°	935.8	1035.8	1335.1	1787.1	1989.0
140°	965.4	1058.7	1332.8	1728.5	1908.1
142.5°	993.9	1081.6	1328.3	1675.6	1832.9
145°	1038.1	1116.0	1322.9	1607.6	1730.1
147.5°	1078.2	1147.3	1316.6	1546.0	1640.1
150°	1107.8	1169.1	1314.3	1512.5	1587.7
152.5°	1135.2	1188.6	1313.2	1481.5	1543.3
155°	1171.9	1217.9	1311.5	1442.1	1489.5
157.5°	1210.1	1242.1	1311.7	1414.7	1445.9
160°	1231.7	1258.2	1312.9	1397.4	1419.7
162.5°	1248.8	1270.8	1314.0	1383.6	1400.3
165°	1275.9	1288.4	1317.2	1368.6	1375.5
167.5°	1294.4	1303.0	1317.4	1355.7	1359.0
170°	1305.8	1309.9	1318.6	1349.9	1349.9
172.5°	1314.9	1315.7	1318.6	1343.1	1341.9
175°	1324.3	1322.9	1318.6	1335.6	1332.8
177.5°	1327.4	1324.1	1318.3	1329.6	1326.3
180°	1322.9	1322.9	1322.9	1322.9	1322.9

(END OF REPORT)