

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: P562379

Luminaire Tested: **SQ4-PW1-100U-100D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562379  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-100D-92765-1D-UNV-STD-W-4 (4500K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

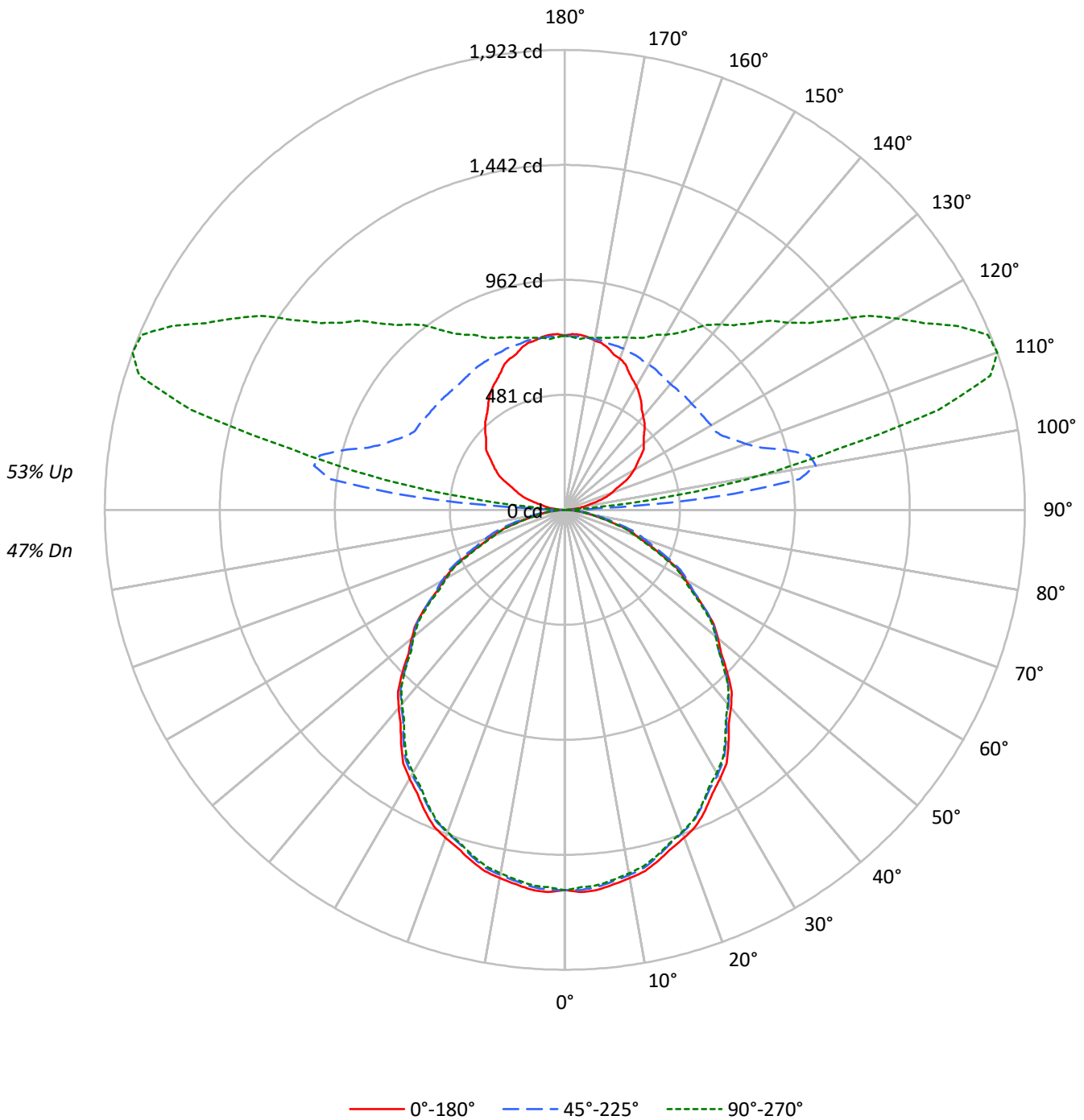
Lumens per Lamp: N/A  
Luminaire Lumens: 8571.1 lumens  
Efficiency: N/A  
Efficacy: 114.7 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 74.7  
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: P562379  
CATALOG NUMBER: SQ4-PW1-100U-100D-92765-1D-UNV-STD-W-4 (4500K)

### Luminous Intensity Polar Plot





TEST NUMBER: P562379

CATALOG NUMBER: SQ4-PW1-100U-100D-92765-1D-UNV-STD-W-4 (4500K)

**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	50	30	10	0	
RCR																						
0	106	106	106	106	98	98	98	98	82	82	82	67	67	67	54	54	54	47				47
1	97	93	89	86	89	86	82	79	72	70	67	59	58	56	48	46	45				40	
2	89	81	75	70	81	75	70	65	63	59	56	52	49	47	42	40	38				34	
3	81	71	64	58	74	66	60	55	56	51	47	46	43	40	37	35	33				29	
4	74	63	55	49	68	58	52	46	49	44	40	41	37	34	33	30	28				25	
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	30	27	25				21	
6	63	51	42	37	57	47	40	35	40	34	30	33	29	26	27	24	22				19	
7	58	46	38	32	53	42	35	30	36	31	27	30	26	23	25	22	19				17	
8	54	41	34	28	49	38	32	27	33	27	24	28	23	20	23	20	17				15	
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	16				13	
10	47	35	27	23	43	32	26	21	28	23	19	24	19	17	20	16	14				12	

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

	0°	45°	90°
0°	14675	14675	14675
5°	14770	14653	14588
10°	14651	14533	14455
15°	14497	14336	14283
20°	14323	14103	14076
25°	14124	13866	13823
30°	13825	13616	13526
35°	13432	13243	13163
40°	13013	12810	12759
45°	12506	12342	12287
50°	11988	11888	11807
55°	11429	11429	11249
60°	10732	10939	10551
65°	9820	10311	9575
70°	8656	9487	8430
75°	7393	8491	7194
80°	5733	7146	5807
85°	3705	5494	4891



TEST NUMBER: P562379

CATALOG NUMBER: SQ4-PW1-100U-100D-92765-1D-UNV-STD-W-4 (4500K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	149.8	1.7
10°-20°	422.9	4.9
20°-30°	627.2	7.3
30°-40°	733.9	8.6
40°-50°	730.7	8.5
50°-60°	631.0	7.4
60°-70°	454.2	5.3
70°-80°	238.2	2.8
80°-90°	59.0	0.7
90°-100°	331.9	3.9
100°-110°	944.4	11.0
110°-120°	904.8	10.6
120°-130°	716.1	8.4
130°-140°	574.8	6.7
140°-150°	450.0	5.2
150°-160°	329.3	3.8
160°-170°	203.9	2.4
170°-180°	69.2	0.8
0°-30°	1199.9	14.0
0°-40°	1933.8	22.6
0°-60°	3295.4	38.4
0°-90°	4046.8	47.2
90°-120°	2181.1	25.4
90°-150°	3921.9	45.8
90°-180°	4524.0	52.8
0°-180°	8571.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1591	1591	1591	1591	1591	
5°	1595	1577	1582	1578	1575	151
15°	1518	1498	1501	1498	1495	428
25°	1387	1364	1362	1354	1358	638
35°	1193	1176	1176	1165	1169	746
45°	958	950	946	943	942	740
55°	710	709	710	701	699	634
65°	450	464	472	454	439	446
75°	207	227	238	222	202	222
85°	35	46	52	49	46	46
90°	0	0	0	0	0	3
95°	36	143	642	222	137	41
105°	147	223	962	1700	1616	155
115°	273	330	730	1546	1815	269
125°	385	427	696	1156	1382	345
135°	471	510	688	976	1104	363
145°	555	584	694	845	921	347
155°	634	649	710	764	795	293
165°	701	703	719	734	745	197
175°	734	730	727	723	717	70
180°	728	728	728	728	728	



TEST NUMBER: P562379

CATALOG NUMBER: SQ4-PW1-100U-100D-92765-1D-UNV-STD-W-4 (4500K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1590.6	1590.6	1590.6	1590.6	1590.6
2.5°	1599.5	1586.4	1590.6	1587.0	1579.4
5°	1594.8	1577.0	1582.2	1577.9	1575.1
7.5°	1578.5	1562.1	1565.9	1561.4	1559.7
10°	1563.9	1547.5	1551.3	1545.7	1542.9
12.5°	1547.1	1529.6	1533.4	1527.7	1526.1
15°	1517.7	1498.5	1500.9	1498.0	1495.3
17.5°	1483.5	1464.0	1464.4	1459.9	1459.4
20°	1458.8	1438.3	1436.4	1430.9	1433.6
22.5°	1431.9	1410.3	1408.4	1400.6	1404.5
25°	1387.4	1364.1	1362.1	1353.8	1357.9
27.5°	1335.8	1312.8	1312.8	1301.1	1305.5
30°	1297.7	1275.8	1278.1	1264.2	1269.6
32.5°	1257.3	1237.6	1238.8	1224.9	1230.4
35°	1192.6	1176.1	1175.8	1164.6	1168.7
37.5°	1126.4	1111.9	1109.6	1103.2	1104.3
40°	1080.5	1068.1	1063.6	1059.4	1059.4
42.5°	1032.3	1021.0	1016.6	1013.5	1012.4
45°	958.5	950.3	945.9	943.1	941.7
47.5°	885.7	878.0	874.2	872.2	870.8
50°	835.2	829.7	828.2	824.0	822.6
52.5°	784.8	781.5	780.0	774.7	773.3
55°	710.5	709.1	710.5	700.7	699.3
57.5°	633.1	635.3	639.9	626.6	623.3
60°	581.6	587.1	592.8	577.2	571.8
62.5°	528.9	537.6	545.7	527.9	520.2
65°	449.8	463.5	472.3	453.7	438.6
67.5°	373.6	390.6	401.1	381.1	364.1
70°	320.9	340.1	351.7	331.7	312.5
72.5°	275.0	296.3	305.8	286.8	267.7
75°	207.4	226.6	238.2	222.4	201.8
77.5°	147.1	165.2	174.9	161.1	144.1
80°	107.9	127.1	134.5	123.0	109.3
82.5°	76.5	92.4	97.5	90.6	81.3
85°	35.0	46.0	51.9	49.0	46.2
87.5°	9.0	16.6	21.3	21.3	22.4
90°	0.0	0.0	0.0	0.0	0.0
92.5°	11.1	58.7	136.3	39.7	29.9
95°	36.0	143.0	642.5	222.4	137.1
97.5°	66.2	167.5	989.5	708.1	485.2
100°	87.2	182.0	1064.8	1078.6	830.8
102.5°	110.5	197.7	1048.2	1380.6	1164.3
105°	146.8	222.6	962.4	1699.9	1616.0
107.5°	183.6	251.6	862.1	1789.9	1864.7
110°	209.1	272.7	804.5	1755.5	1923.4



TEST NUMBER: P562379

CATALOG NUMBER: SQ4-PW1-100U-100D-92765-1D-UNV-STD-W-4 (4500K)

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	233.5	293.8	765.7	1674.0	1913.4
115°	272.8	329.7	729.7	1545.9	1815.4
117.5°	307.4	360.8	708.4	1405.9	1691.3
120°	335.1	379.8	706.2	1325.8	1599.3
122.5°	357.3	401.9	700.7	1255.6	1509.6
125°	385.0	426.9	696.5	1155.8	1381.9
127.5°	415.1	454.4	694.3	1096.2	1282.5
130°	430.6	469.9	691.0	1054.7	1217.2
132.5°	447.3	485.4	691.0	1022.3	1171.7
135°	470.8	510.1	688.2	976.3	1103.6
137.5°	493.0	531.1	687.9	937.5	1047.4
140°	509.6	548.8	686.8	905.2	1010.8
142.5°	528.4	561.2	690.1	879.5	974.3
145°	555.3	583.7	693.7	845.0	920.8
147.5°	578.3	605.9	699.8	810.2	875.7
150°	598.2	617.2	702.0	798.6	844.7
152.5°	613.7	633.7	704.3	783.1	825.8
155°	634.2	649.1	710.4	763.7	794.8
157.5°	659.7	668.6	711.7	754.9	777.1
160°	673.0	679.7	717.3	748.2	767.1
162.5°	680.7	688.6	718.4	742.5	757.2
165°	700.7	703.4	718.7	734.1	745.0
167.5°	714.2	711.8	725.0	732.1	736.4
170°	718.7	717.3	722.8	724.3	729.7
172.5°	728.6	724.0	726.1	722.1	726.4
175°	733.9	729.8	727.0	722.7	717.3
177.5°	736.1	729.6	726.1	721.7	722.8
180°	728.4	728.4	728.4	728.4	728.4

(END OF REPORT)