

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

Brand: CORELITE

Report Number: P688983

Luminaire Tested: SQ4R-PW1-100D-92765-1-UNV-STD-W-4\_3000K

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688983  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2203-586-35)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/22/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4R-PW1-100D-92765-1-UNV-STD-W-4\_3000K  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
1000 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3576.9 lumens  
Efficiency: N/A  
Efficacy: 77.6 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.2 / 1.29  
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')  
CIE Type: Direct

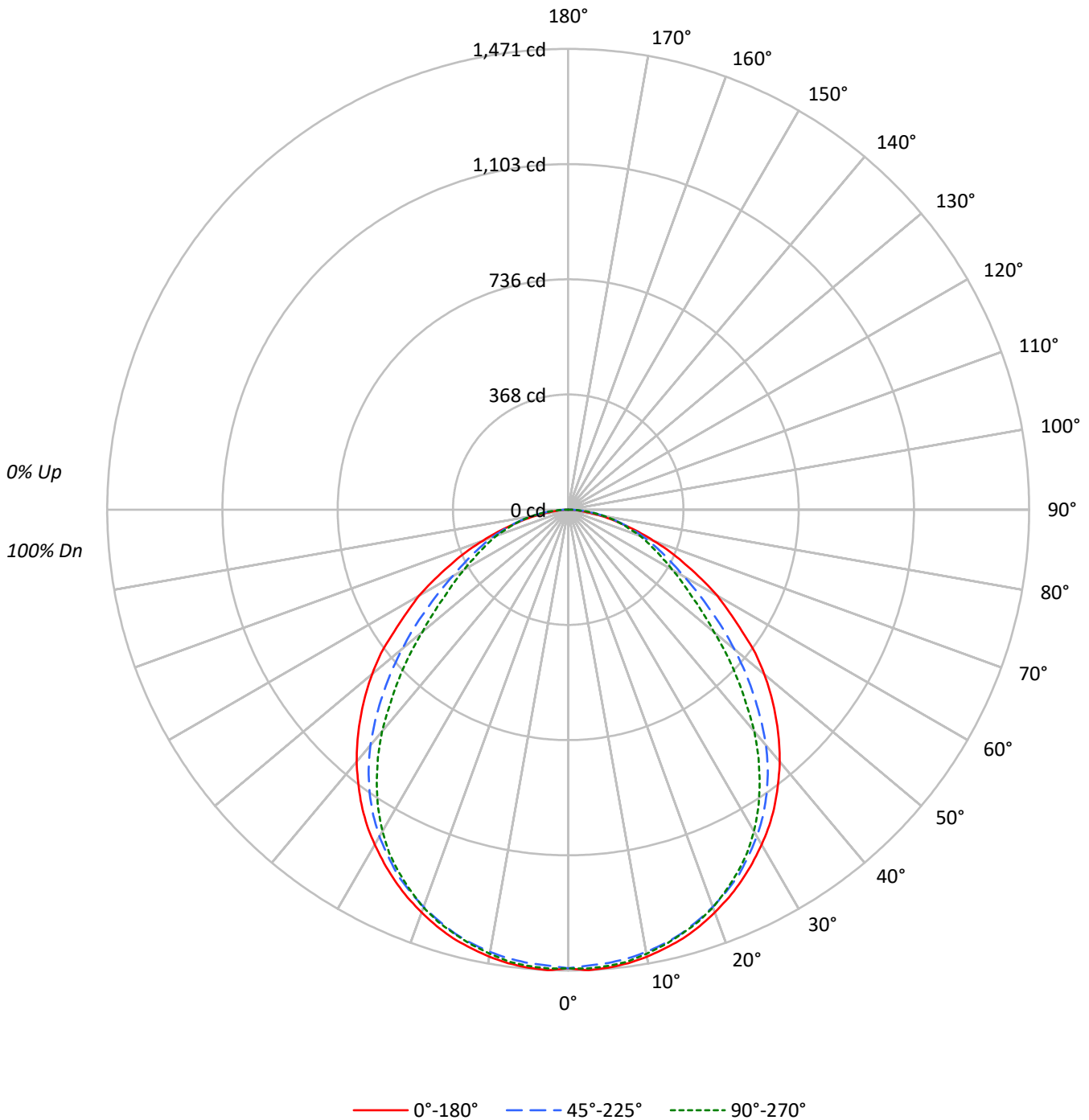
Input Watts (W): 46.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P688983

CATALOG NUMBER: SQ4R-PW1-100D-92765-1-UNV-STD-W-4\_3000K

### Luminous Intensity Polar Plot



TEST NUMBER: P688983

CATALOG NUMBER: SQ4R-PW1-100D-92765-1-UNV-STD-W-4\_3000K

**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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49	47
6	72	59	51	45	70	59	50	44	57	49	44	55	49	44	54	48	43	41
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37
8	63	50	41	36	61	49	41	36	48	40	35	46	40	35	45	39	35	33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27

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

	0°	45°	90°
0°	14093	14093	14093
5°	14184	14038	14129
10°	14164	14017	14072
15°	14122	13953	13972
20°	14015	13822	13841
25°	13891	13671	13571
30°	13722	13388	13178
35°	13512	12981	12517
40°	13196	12344	11611
45°	12759	11400	10401
50°	12231	10343	9103
55°	11370	9191	8053
60°	10579	8224	7392
65°	9388	7629	6987
70°	8157	7257	6885
75°	6718	6859	6580
80°	5322	6470	6470
85°	3955	5821	6031

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 12759 cd/sqm

TEST NUMBER: P688983

CATALOG NUMBER: SQ4R-PW1-100D-92765-1-UNV-STD-W-4\_3000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	138.9	3.9
10°-20°	396.7	11.1
20°-30°	594.2	16.6
30°-40°	690.4	19.3
40°-50°	651.4	18.2
50°-60°	508.2	14.2
60°-70°	345.0	9.6
70°-80°	194.3	5.4
80°-90°	57.7	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1129.8	31.6
0°-40°	1820.2	50.9
0°-60°	2979.9	83.3
0°-90°	3576.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3576.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1464	1464	1464	1464	1464	
5°	1468	1464	1453	1464	1462	139
15°	1417	1411	1400	1408	1402	399
25°	1308	1302	1287	1283	1278	602
35°	1150	1138	1104	1080	1065	718
45°	937	909	837	785	764	723
55°	677	638	548	495	480	608
65°	412	374	335	314	307	412
75°	181	188	184	177	177	197
85°	36	51	53	53	55	43
90°	0	0	0	0	0	

TEST NUMBER: P688983

CATALOG NUMBER: SQ4R-PW1-100D-92765-1-UNV-STD-W-4\_3000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1463.9	1463.9	1463.9	1463.9	1463.9
2.5°	1471.4	1467.7	1456.4	1467.7	1465.8
5°	1467.7	1463.9	1452.6	1463.9	1462.0
7.5°	1460.2	1458.3	1445.1	1456.4	1454.5
10°	1448.9	1447.0	1433.8	1443.2	1439.5
12.5°	1433.8	1431.9	1418.8	1426.3	1422.5
15°	1416.9	1411.2	1399.9	1407.5	1401.8
17.5°	1394.3	1388.7	1375.5	1381.1	1379.2
20°	1368.0	1362.3	1349.1	1354.8	1351.0
22.5°	1339.7	1334.1	1319.0	1320.9	1315.3
25°	1307.7	1302.1	1287.0	1283.3	1277.6
27.5°	1272.0	1268.2	1245.6	1241.9	1236.2
30°	1234.4	1228.7	1204.3	1196.7	1185.4
32.5°	1194.8	1183.6	1157.2	1142.2	1129.0
35°	1149.7	1138.4	1104.5	1080.1	1065.0
37.5°	1100.8	1083.8	1046.2	1012.3	997.3
40°	1050.0	1031.1	982.2	937.1	923.9
42.5°	995.4	972.8	910.7	863.7	841.1
45°	937.1	908.8	837.3	784.6	763.9
47.5°	878.7	843.0	765.8	709.4	686.8
50°	816.6	773.4	690.6	630.4	607.8
52.5°	752.7	705.6	620.9	558.8	541.9
55°	677.4	637.9	547.6	494.9	479.8
57.5°	609.7	566.4	487.3	442.2	430.9
60°	549.4	496.8	427.1	393.3	383.9
62.5°	479.8	432.8	378.2	351.9	342.5
65°	412.1	374.4	334.9	314.2	306.7
67.5°	353.7	321.8	295.4	278.5	274.7
70°	289.8	272.8	257.8	244.6	244.6
72.5°	235.2	229.6	220.2	212.6	207.0
75°	180.6	188.2	184.4	176.9	176.9
77.5°	137.4	148.7	150.5	146.8	148.7
80°	96.0	112.9	116.7	114.8	116.7
82.5°	60.2	80.9	84.7	84.7	86.6
85°	35.8	50.8	52.7	52.7	54.6
87.5°	15.1	24.5	26.3	26.3	26.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)