

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: P688985

Luminaire Tested: SQ4R-PW1-100D-92765-1-UNV-STD-W-4\_4000K

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688985  
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\_4000K  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
1000 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3824.1 lumens  
Efficiency: N/A  
Efficacy: 82.8 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

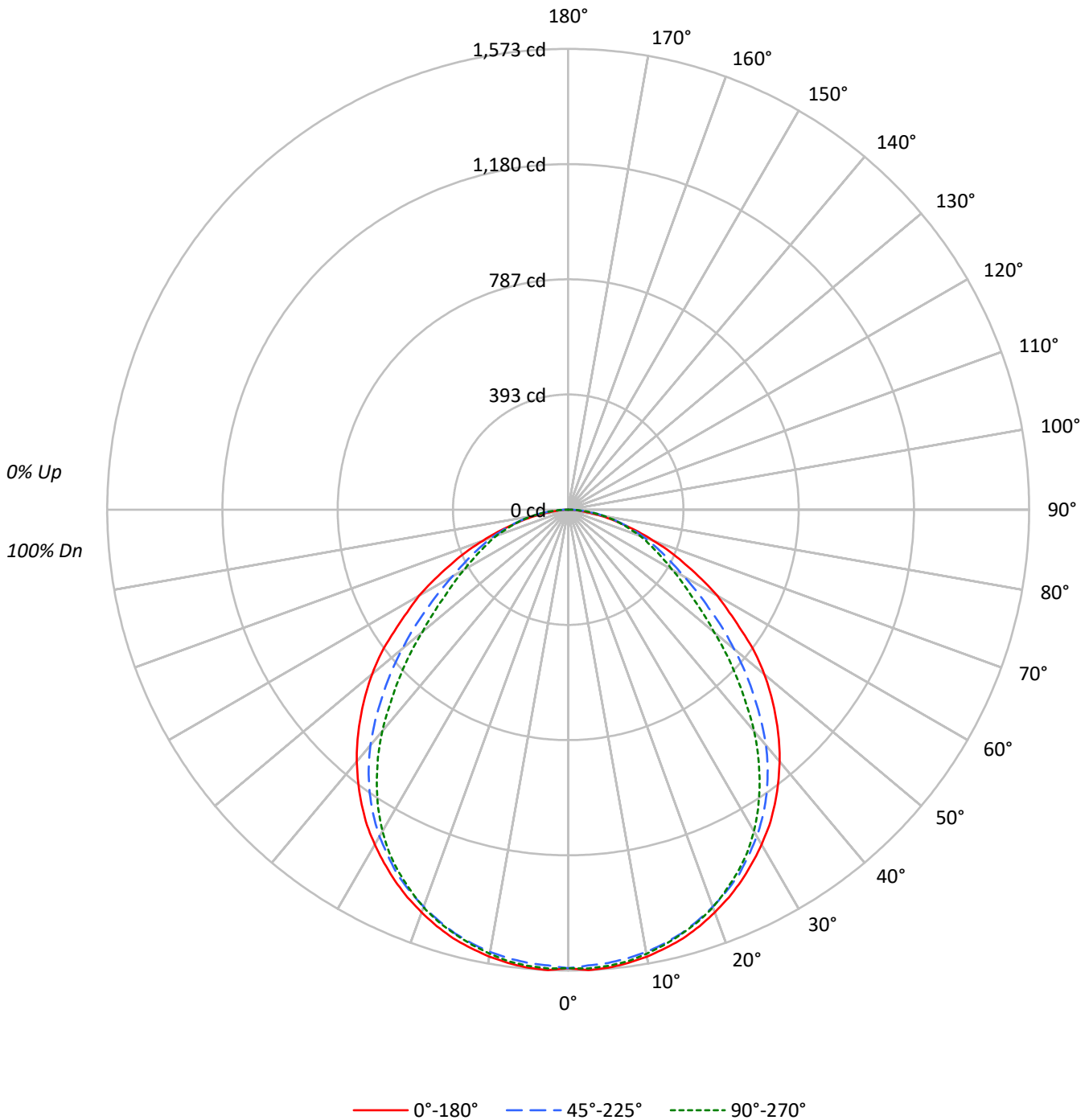
Input Watts (W): 46.2  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	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°	15068	15068	15068
5°	15164	15009	15106
10°	15143	14985	15045
15°	15098	14918	14937
20°	14984	14778	14798
25°	14851	14617	14510
30°	14671	14313	14089
35°	14447	13879	13382
40°	14107	13197	12414
45°	13640	12188	11121
50°	13077	11058	9732
55°	12156	9826	8611
60°	11310	8794	7902
65°	10037	8158	7470
70°	8720	7758	7361
75°	7183	7332	7034
80°	5688	6914	6914
85°	4220	6219	6440

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 13640 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	148.5	3.9
10°-20°	424.1	11.1
20°-30°	635.3	16.6
30°-40°	738.1	19.3
40°-50°	696.4	18.2
50°-60°	543.4	14.2
60°-70°	368.9	9.6
70°-80°	207.7	5.4
80°-90°	61.7	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°	1207.9	31.6
0°-40°	1946.1	50.9
0°-60°	3185.9	83.3
0°-90°	3824.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3824.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1565	1565	1565	1565	1565	
5°	1569	1565	1553	1565	1563	149
15°	1515	1509	1497	1505	1499	427
25°	1398	1392	1376	1372	1366	644
35°	1229	1217	1181	1155	1139	768
45°	1002	972	895	839	817	772
55°	724	682	585	529	513	650
65°	441	400	358	336	328	440
75°	193	201	197	189	189	210
85°	38	54	56	56	58	46
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1565.1	1565.1	1565.1	1565.1	1565.1
2.5°	1573.2	1569.1	1557.1	1569.1	1567.1
5°	1569.1	1565.1	1553.1	1565.1	1563.1
7.5°	1561.1	1559.1	1545.0	1557.1	1555.1
10°	1549.0	1547.0	1532.9	1543.0	1539.0
12.5°	1532.9	1530.9	1516.8	1524.9	1520.9
15°	1514.8	1508.8	1496.7	1504.8	1498.7
17.5°	1490.7	1484.7	1470.6	1476.6	1474.6
20°	1462.5	1456.5	1442.4	1448.4	1444.4
22.5°	1432.3	1426.3	1410.2	1412.2	1406.2
25°	1398.1	1392.1	1376.0	1372.0	1366.0
27.5°	1359.9	1355.9	1331.8	1327.7	1321.7
30°	1319.7	1313.7	1287.5	1279.5	1267.4
32.5°	1277.4	1265.4	1237.2	1221.1	1207.0
35°	1229.2	1217.1	1180.9	1154.7	1138.6
37.5°	1176.9	1158.8	1118.5	1082.3	1066.2
40°	1122.5	1102.4	1050.1	1001.8	987.8
42.5°	1064.2	1040.1	973.7	923.4	899.2
45°	1001.8	971.7	895.2	838.9	816.8
47.5°	939.5	901.3	818.8	758.4	734.3
50°	873.1	826.8	738.3	673.9	649.8
52.5°	804.7	754.4	663.9	597.5	579.4
55°	724.2	682.0	585.4	529.1	513.0
57.5°	651.8	605.5	521.0	472.8	460.7
60°	587.4	531.1	456.7	420.5	410.4
62.5°	513.0	462.7	404.4	376.2	366.1
65°	440.6	400.3	358.1	336.0	327.9
67.5°	378.2	344.0	315.8	297.7	293.7
70°	309.8	291.7	275.6	261.5	261.5
72.5°	251.5	245.4	235.4	227.3	221.3
75°	193.1	201.2	197.1	189.1	189.1
77.5°	146.9	158.9	160.9	156.9	158.9
80°	102.6	120.7	124.7	122.7	124.7
82.5°	64.4	86.5	90.5	90.5	92.5
85°	38.2	54.3	56.3	56.3	58.3
87.5°	16.1	26.2	28.2	28.2	28.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)