

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: P688909

Luminaire Tested: SQ4R-PR1-100D-92765-1-UNV-STD-W-4\_5000K

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688909  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/22/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4R-PR1-100D-92765-1-UNV-STD-W-4\_5000K  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
1000 LUMENS PER FOOT  
Light Source: 5000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3806.3 lumens  
Efficiency: N/A  
Efficacy: 82.0 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.23 / 1.34  
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')  
CIE Type: Direct

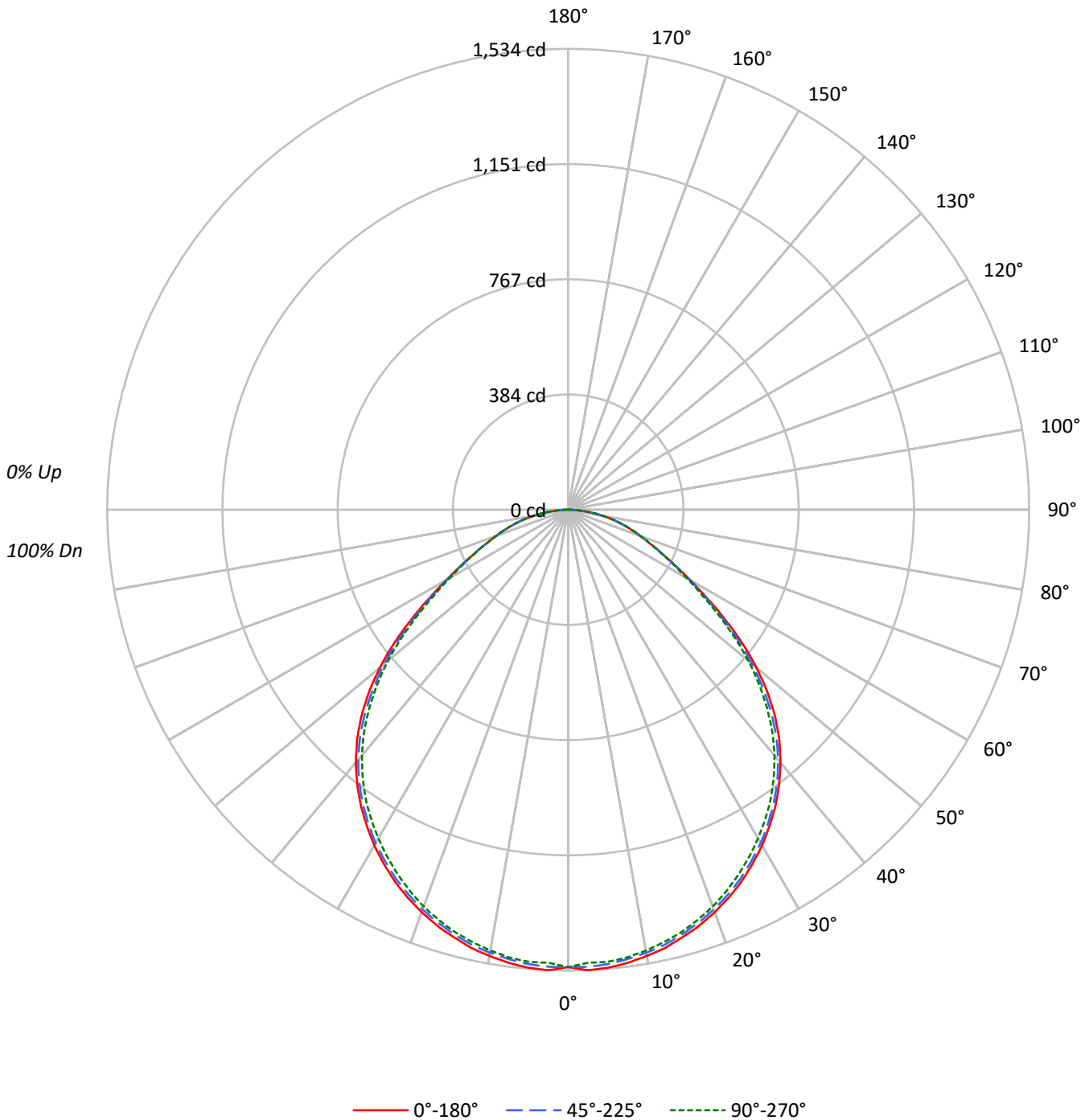
Input Watts (W): 46.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85				85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72				72
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62				62
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54				54
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49	47				47
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41				41
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37				37
8	63	49	41	36	61	49	41	35	47	40	35	46	40	35	45	39	35	33				33
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30				30
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27				27

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

	0°	45°	90°
0°	14659	14659	14659
5°	14790	14676	14601
10°	14743	14640	14564
15°	14678	14587	14509
20°	14605	14510	14403
25°	14502	14404	14237
30°	14345	14244	14039
35°	14134	14011	13810
40°	13812	13663	13416
45°	13249	13016	12749
50°	12256	11963	11726
55°	10697	10455	10235
60°	9015	8938	8763
65°	7798	7827	7768
70°	7161	7198	7198
75°	6878	6878	6926
80°	6470	6542	6470
85°	5214	5799	5799

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 13249 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	144.1	3.8
10°-20°	412.2	10.8
20°-30°	621.7	16.3
30°-40°	740.9	19.5
40°-50°	730.8	19.2
50°-60°	557.5	14.6
60°-70°	344.1	9.0
70°-80°	196.0	5.2
80°-90°	59.1	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°	1177.9	30.9
0°-40°	1918.7	50.4
0°-60°	3207.1	84.3
0°-90°	3806.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3806.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1523	1523	1523	1523	1523	
5°	1530	1513	1519	1513	1511	145
15°	1473	1457	1464	1458	1456	416
25°	1365	1348	1356	1342	1340	629
35°	1203	1188	1192	1176	1175	751
45°	973	960	956	939	936	747
55°	637	627	623	612	610	571
65°	342	340	344	341	341	345
75°	185	185	185	186	186	195
85°	47	50	52	52	52	56
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1522.6	1522.6	1522.6	1522.6	1522.6
2.5°	1534.4	1517.3	1522.6	1518.6	1509.4
5°	1530.4	1513.4	1518.6	1513.4	1510.8
7.5°	1521.2	1504.2	1509.4	1504.2	1502.9
10°	1508.1	1492.4	1497.6	1492.4	1489.8
12.5°	1493.7	1476.7	1483.2	1476.7	1474.0
15°	1472.7	1457.0	1463.5	1458.3	1455.7
17.5°	1451.7	1434.7	1441.2	1436.0	1432.1
20°	1425.5	1409.8	1416.3	1407.2	1405.8
22.5°	1396.7	1380.9	1387.5	1374.4	1374.4
25°	1365.2	1348.1	1356.0	1341.6	1340.3
27.5°	1328.5	1312.7	1319.3	1304.9	1303.5
30°	1290.4	1274.7	1281.3	1265.5	1262.9
32.5°	1247.2	1232.7	1238.0	1222.2	1220.9
35°	1202.6	1188.1	1192.1	1176.3	1175.0
37.5°	1152.7	1139.6	1142.2	1125.2	1123.9
40°	1099.0	1085.9	1087.2	1068.8	1067.5
42.5°	1040.0	1026.8	1025.5	1007.2	1005.9
45°	973.1	960.0	956.0	939.0	936.4
47.5°	899.6	886.5	878.7	864.2	862.9
50°	818.3	805.2	798.7	786.9	782.9
52.5°	730.5	717.3	712.1	701.6	697.7
55°	637.3	626.9	622.9	612.4	609.8
57.5°	548.2	540.3	539.0	528.5	527.2
60°	468.2	464.2	464.2	455.1	455.1
62.5°	400.0	397.4	400.0	394.7	393.4
65°	342.3	339.7	343.6	341.0	341.0
67.5°	293.8	293.8	296.4	295.1	295.1
70°	254.4	254.4	255.7	255.7	255.7
72.5°	219.0	217.7	221.6	221.6	220.3
75°	184.9	184.9	184.9	186.2	186.2
77.5°	150.8	150.8	152.1	152.1	150.8
80°	116.7	118.0	118.0	116.7	116.7
82.5°	82.6	83.9	83.9	83.9	82.6
85°	47.2	49.8	52.5	52.5	52.5
87.5°	17.0	22.3	26.2	26.2	24.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)