

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: P688910

Luminaire Tested: SQ4R-PR1-100D-92765-1-UNV-STD-W-4\_5700K

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688910  
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\_5700K  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
1000 LUMENS PER FOOT  
Light Source: 5700K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3892.8 lumens  
Efficiency: N/A  
Efficacy: 83.9 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

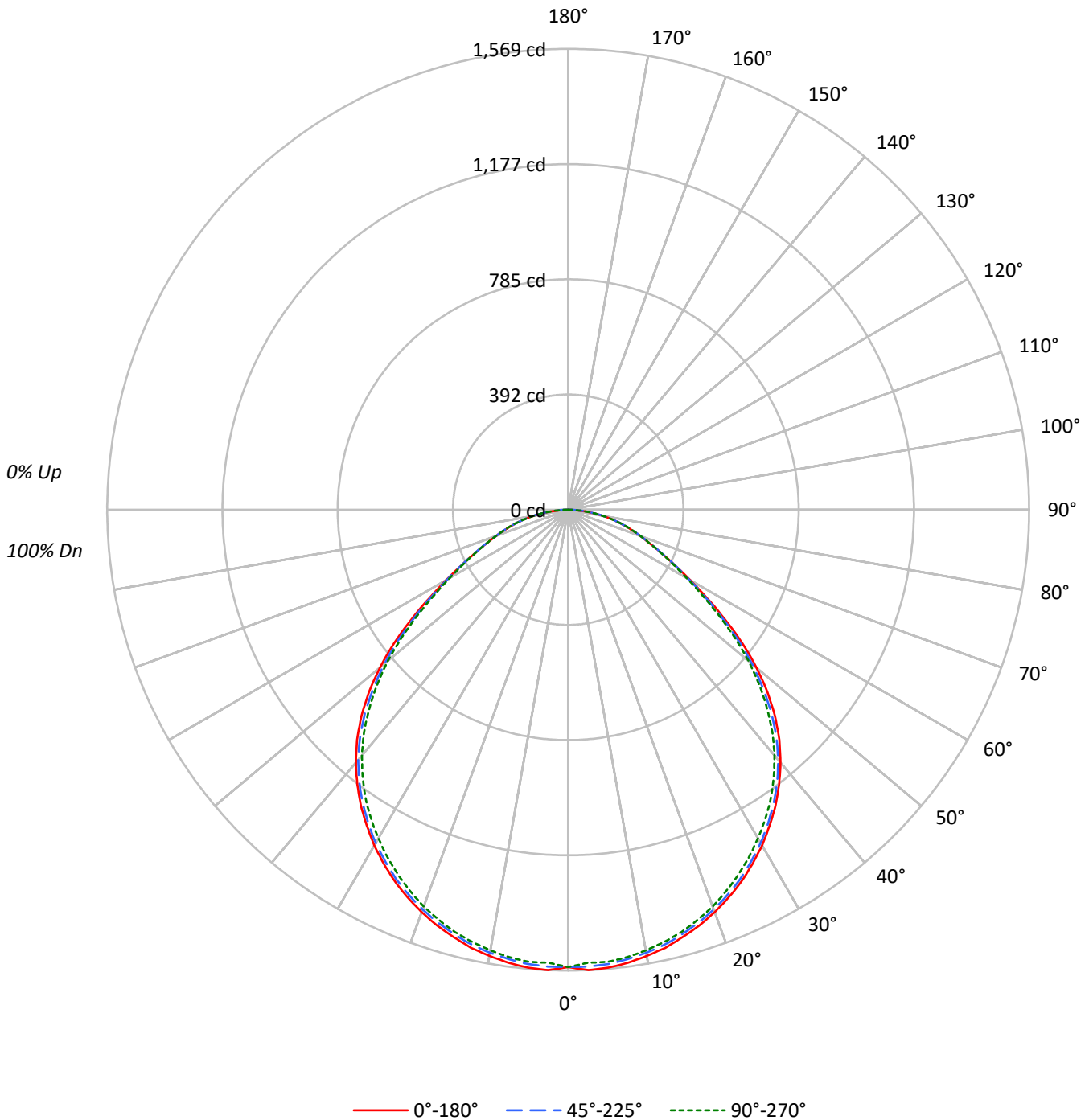
Input Watts (W): 46.4  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	110	105	101	98	107	103	99	96	99	96	93		95	92	90		91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78		84	80	76		81	78	75	72
3	92	82	74	68	90	80	73	68	78	71	66		75	70	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	58	50	44	57	49	44		55	49	44		53	48	43	41
7	67	54	46	40	65	53	45	39	52	44	39		50	44	39		49	43	39	37
8	63	49	41	36	61	49	41	35	47	40	35		46	40	35		45	39	35	33
9	58	45	37	32	57	45	37	32	44	37	32		43	36	32		42	36	31	30
10	55	42	34	29	54	41	34	29	40	34	29		40	33	29		39	33	29	27

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

	0°	45°	90°
0°	14992	14992	14992
5°	15126	15009	14932
10°	15078	14974	14894
15°	15012	14919	14839
20°	14936	14840	14731
25°	14831	14731	14560
30°	14672	14567	14358
35°	14455	14329	14123
40°	14125	13974	13721
45°	13550	13313	13038
50°	12535	12234	11992
55°	10940	10694	10469
60°	9219	9142	8961
65°	7975	8005	7943
70°	7324	7361	7361
75°	7034	7034	7086
80°	6620	6692	6620
85°	5335	5921	5921

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 13550 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	147.3	3.8
10°-20°	421.5	10.8
20°-30°	635.8	16.3
30°-40°	757.7	19.5
40°-50°	747.4	19.2
50°-60°	570.2	14.6
60°-70°	351.9	9.0
70°-80°	200.5	5.2
80°-90°	60.5	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°	1204.6	30.9
0°-40°	1962.3	50.4
0°-60°	3280.0	84.3
0°-90°	3892.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3892.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1557	1557	1557	1557	1557	
5°	1565	1548	1553	1548	1545	149
15°	1506	1490	1497	1491	1489	425
25°	1396	1379	1387	1372	1371	643
35°	1230	1215	1219	1203	1202	768
45°	995	982	978	960	958	764
55°	652	641	637	626	624	584
65°	350	347	351	349	349	353
75°	189	189	189	190	190	200
85°	48	51	54	54	54	57
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1557.2	1557.2	1557.2	1557.2	1557.2
2.5°	1569.2	1551.8	1557.2	1553.1	1543.8
5°	1565.2	1547.8	1553.1	1547.8	1545.1
7.5°	1555.8	1538.4	1543.8	1538.4	1537.0
10°	1542.4	1526.3	1531.7	1526.3	1523.6
12.5°	1527.7	1510.2	1516.9	1510.2	1507.5
15°	1506.2	1490.1	1496.8	1491.4	1488.8
17.5°	1484.7	1467.3	1474.0	1468.6	1464.6
20°	1457.9	1441.8	1448.5	1439.1	1437.8
22.5°	1428.4	1412.3	1419.0	1405.6	1405.6
25°	1396.2	1378.8	1386.8	1372.1	1370.7
27.5°	1358.7	1342.6	1349.3	1334.5	1333.2
30°	1319.8	1303.7	1310.4	1294.3	1291.6
32.5°	1275.5	1260.8	1266.1	1250.0	1248.7
35°	1229.9	1215.2	1219.2	1203.1	1201.7
37.5°	1178.9	1165.5	1168.2	1150.8	1149.4
40°	1123.9	1110.5	1111.9	1093.1	1091.8
42.5°	1063.6	1050.2	1048.8	1030.1	1028.7
45°	995.2	981.8	977.8	960.3	957.6
47.5°	920.1	906.7	898.6	883.9	882.5
50°	836.9	823.5	816.8	804.7	800.7
52.5°	747.1	733.7	728.3	717.6	713.5
55°	651.8	641.1	637.1	626.4	623.7
57.5°	560.6	552.6	551.2	540.5	539.2
60°	478.8	474.8	474.8	465.4	465.4
62.5°	409.1	406.4	409.1	403.7	402.4
65°	350.1	347.4	351.4	348.7	348.7
67.5°	300.4	300.4	303.1	301.8	301.8
70°	260.2	260.2	261.5	261.5	261.5
72.5°	224.0	222.6	226.7	226.7	225.3
75°	189.1	189.1	189.1	190.5	190.5
77.5°	154.2	154.2	155.6	155.6	154.2
80°	119.4	120.7	120.7	119.4	119.4
82.5°	84.5	85.8	85.8	85.8	84.5
85°	48.3	51.0	53.6	53.6	53.6
87.5°	17.4	22.8	26.8	26.8	25.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)