

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: P688833

Luminaire Tested: SQ4R-PP3-100D-92765-1-UNV-STD-W-4\_6500K

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688833  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-172-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/22/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4R-PP3-100D-92765-1-UNV-STD-W-4\_6500K  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
1000 LUMENS PER FOOT  
Light Source: 6500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4196.6 lumens  
Efficiency: N/A  
Efficacy: 90.8 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')  
CIE Type: Direct

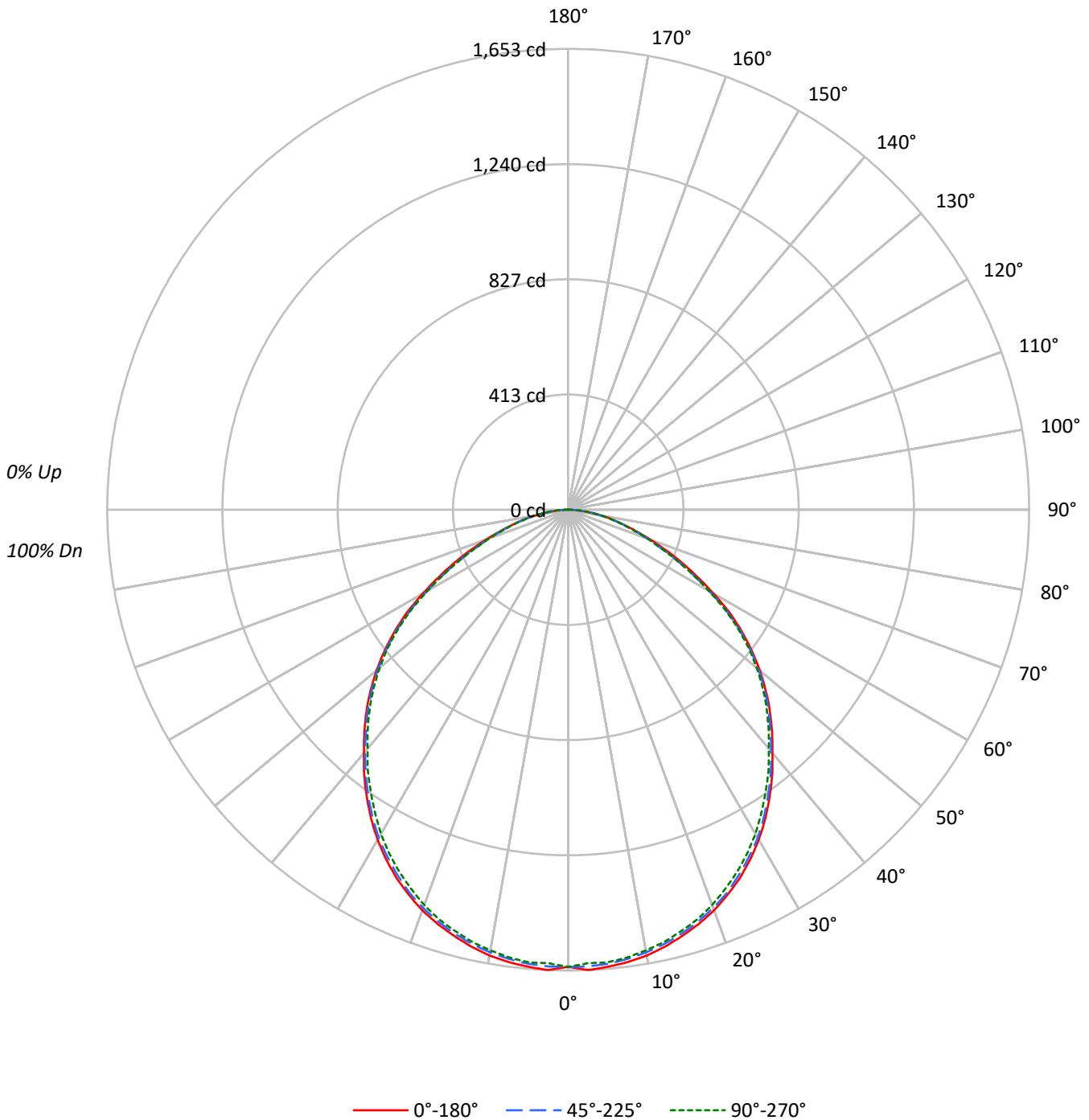
Input Watts (W): 46.2  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	98	95	93		95	92	90		91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77		84	79	76		81	77	74	72
3	92	81	74	67	89	80	73	67	77	71	66		74	69	64		72	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56		66	60	56		64	59	55	53
5	77	65	56	50	75	64	56	50	62	55	49		60	53	48		58	52	48	46
6	72	59	50	44	70	58	49	43	56	49	43		54	48	43		53	47	42	40
7	66	53	45	39	65	52	44	39	51	44	38		49	43	38		48	42	38	36
8	62	49	40	35	60	48	40	34	47	39	34		45	39	34		44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31		42	35	31		41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28		39	33	28		38	32	28	26

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

	0°	45°	90°
0°	15786	15786	15786
5°	15902	15805	15750
10°	15875	15763	15692
15°	15770	15684	15598
20°	15666	15577	15459
25°	15479	15372	15220
30°	15193	15113	14921
35°	14796	14695	14509
40°	14322	14232	14069
45°	13931	13833	13697
50°	13430	13345	13216
55°	12736	12567	12471
60°	11593	11262	11206
65°	10215	9789	9757
70°	8819	8456	8456
75°	7592	7484	7376
80°	6692	6775	6614
85°	5236	5711	5711

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 13931 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.1	3.7
10°-20°	443.0	10.6
20°-30°	663.5	15.8
30°-40°	778.2	18.5
40°-50°	780.6	18.6
50°-60°	666.5	15.9
60°-70°	433.2	10.3
70°-80°	217.0	5.2
80°-90°	59.5	1.4
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°	1261.6	30.1
0°-40°	2039.8	48.6
0°-60°	3487.0	83.1
0°-90°	4196.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4196.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1640	1640	1640	1640	1640	
5°	1646	1630	1635	1630	1630	156
15°	1582	1566	1574	1568	1565	447
25°	1457	1440	1447	1434	1433	671
35°	1259	1246	1250	1236	1234	787
45°	1023	1016	1016	1006	1006	788
55°	759	756	749	744	743	675
65°	448	440	430	427	428	447
75°	204	204	201	200	198	220
85°	47	52	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°	1639.7	1639.7	1639.7	1639.7	1639.7
2.5°	1652.6	1635.4	1639.7	1636.8	1628.2
5°	1645.5	1629.7	1635.4	1629.7	1629.7
7.5°	1636.8	1619.6	1625.3	1619.6	1619.6
10°	1623.9	1606.7	1612.4	1606.7	1605.2
12.5°	1605.2	1588.0	1595.2	1588.0	1588.0
15°	1582.2	1566.4	1573.6	1567.9	1565.0
17.5°	1557.8	1540.6	1549.2	1542.0	1540.6
20°	1529.1	1511.8	1520.4	1508.9	1508.9
22.5°	1494.6	1477.3	1487.4	1471.6	1471.6
25°	1457.2	1440.0	1447.1	1434.2	1432.8
27.5°	1414.1	1396.8	1404.0	1389.7	1389.7
30°	1366.7	1350.9	1359.5	1343.7	1342.2
32.5°	1314.9	1300.6	1306.3	1290.5	1289.1
35°	1258.9	1246.0	1250.3	1235.9	1234.5
37.5°	1201.4	1187.0	1192.8	1179.8	1179.8
40°	1139.6	1131.0	1132.4	1122.4	1119.5
42.5°	1082.1	1072.1	1073.5	1063.4	1063.4
45°	1023.2	1016.0	1016.0	1006.0	1006.0
47.5°	961.4	955.7	954.2	945.6	945.6
50°	896.7	892.4	891.0	883.8	882.4
52.5°	829.2	827.8	822.0	816.3	816.3
55°	758.8	755.9	748.7	744.4	743.0
57.5°	684.1	678.3	671.1	663.9	665.4
60°	602.1	596.4	584.9	582.0	582.0
62.5°	523.1	515.9	504.4	500.1	503.0
65°	448.4	439.7	429.7	426.8	428.3
67.5°	379.4	370.8	359.3	359.3	357.8
70°	313.3	309.0	300.4	300.4	300.4
72.5°	254.4	252.9	247.2	247.2	245.7
75°	204.1	204.1	201.2	199.8	198.3
77.5°	161.0	161.0	159.5	158.1	155.2
80°	120.7	123.6	122.2	120.7	119.3
82.5°	83.4	86.2	86.2	83.4	83.4
85°	47.4	51.7	51.7	51.7	51.7
87.5°	15.8	21.6	23.0	23.0	24.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)