

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: P688559

Luminaire Tested: SQ4R-PP3-125D-940-1-UNV-STD-W-4

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688559  
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-PP3-125D-940-1-UNV-STD-W-4  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
1250 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4182.0 lumens  
Efficiency: N/A  
Efficacy: 84.5 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

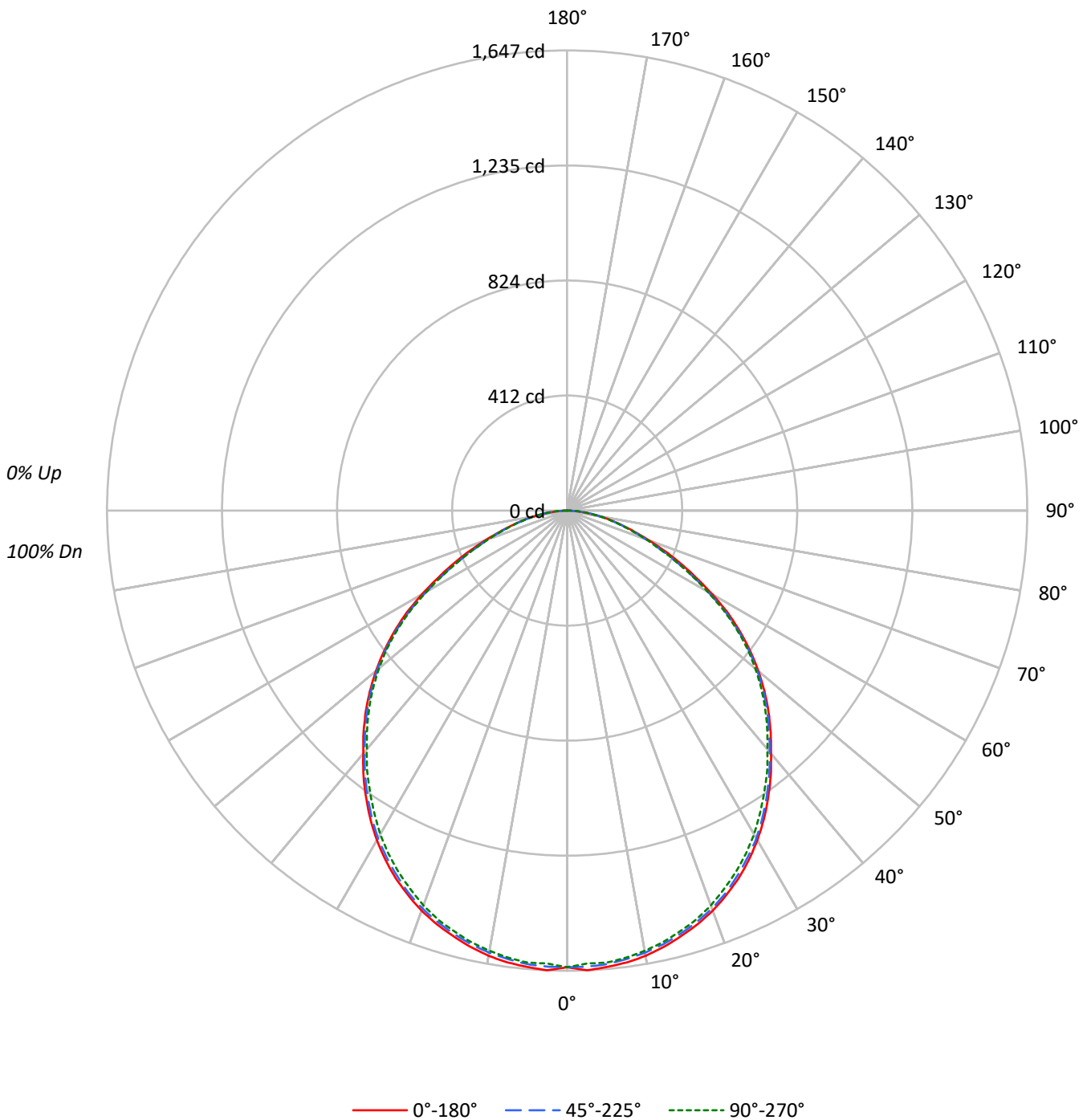
Input Watts (W): 49.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	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°	15731	15731	15731
5°	15846	15750	15695
10°	15819	15708	15637
15°	15715	15629	15543
20°	15611	15523	15406
25°	15425	15319	15167
30°	15140	15060	14870
35°	14744	14643	14457
40°	14272	14183	14020
45°	13882	13785	13648
50°	13384	13299	13170
55°	12691	12523	12427
60°	11553	11224	11168
65°	10178	9754	9723
70°	8788	8425	8425
75°	7566	7458	7350
80°	6670	6747	6592
85°	5225	5700	5700

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 13882 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	154.6	3.7
10°-20°	441.4	10.6
20°-30°	661.2	15.8
30°-40°	775.5	18.5
40°-50°	777.9	18.6
50°-60°	664.2	15.9
60°-70°	431.7	10.3
70°-80°	216.2	5.2
80°-90°	59.3	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°	1257.2	30.1
0°-40°	2032.7	48.6
0°-60°	3474.8	83.1
0°-90°	4182.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4182.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1634	1634	1634	1634	1634	
5°	1640	1624	1630	1624	1624	156
15°	1577	1561	1568	1562	1560	445
25°	1452	1435	1442	1429	1428	668
35°	1254	1242	1246	1232	1230	784
45°	1020	1012	1012	1002	1002	786
55°	756	753	746	742	740	673
65°	447	438	428	425	427	445
75°	203	203	200	199	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°	1634.0	1634.0	1634.0	1634.0	1634.0
2.5°	1646.9	1629.7	1634.0	1631.1	1622.5
5°	1639.7	1624.0	1629.7	1624.0	1624.0
7.5°	1631.1	1613.9	1619.7	1613.9	1613.9
10°	1618.2	1601.1	1606.8	1601.1	1599.6
12.5°	1599.6	1582.4	1589.6	1582.4	1582.4
15°	1576.7	1561.0	1568.1	1562.4	1559.5
17.5°	1552.4	1535.2	1543.8	1536.6	1535.2
20°	1523.7	1506.5	1515.1	1503.7	1503.7
22.5°	1489.4	1472.2	1482.2	1466.4	1466.4
25°	1452.1	1434.9	1442.1	1429.2	1427.8
27.5°	1409.2	1392.0	1399.1	1384.8	1384.8
30°	1361.9	1346.1	1354.7	1339.0	1337.6
32.5°	1310.3	1296.0	1301.8	1286.0	1284.6
35°	1254.5	1241.6	1245.9	1231.6	1230.1
37.5°	1197.2	1182.9	1188.6	1175.7	1175.7
40°	1135.6	1127.0	1128.5	1118.4	1115.6
42.5°	1078.3	1068.3	1069.8	1059.7	1059.7
45°	1019.6	1012.5	1012.5	1002.4	1002.4
47.5°	958.1	952.3	950.9	942.3	942.3
50°	893.6	889.3	887.9	880.7	879.3
52.5°	826.3	824.9	819.1	813.4	813.4
55°	756.1	753.3	746.1	741.8	740.4
57.5°	681.7	675.9	668.8	661.6	663.0
60°	600.0	594.3	582.9	580.0	580.0
62.5°	521.3	514.1	502.7	498.4	501.2
65°	446.8	438.2	428.2	425.3	426.8
67.5°	378.1	369.5	358.0	358.0	356.6
70°	312.2	307.9	299.3	299.3	299.3
72.5°	253.5	252.0	246.3	246.3	244.9
75°	203.4	203.4	200.5	199.1	197.6
77.5°	160.4	160.4	159.0	157.5	154.7
80°	120.3	123.2	121.7	120.3	118.9
82.5°	83.1	85.9	85.9	83.1	83.1
85°	47.3	51.6	51.6	51.6	51.6
87.5°	15.8	21.5	22.9	22.9	24.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)