

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: P688558

Luminaire Tested: SQ4R-PP3-125D-935-1-UNV-STD-W-4

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688558  
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-935-1-UNV-STD-W-4  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
1250 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4200.5 lumens  
Efficiency: N/A  
Efficacy: 84.9 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

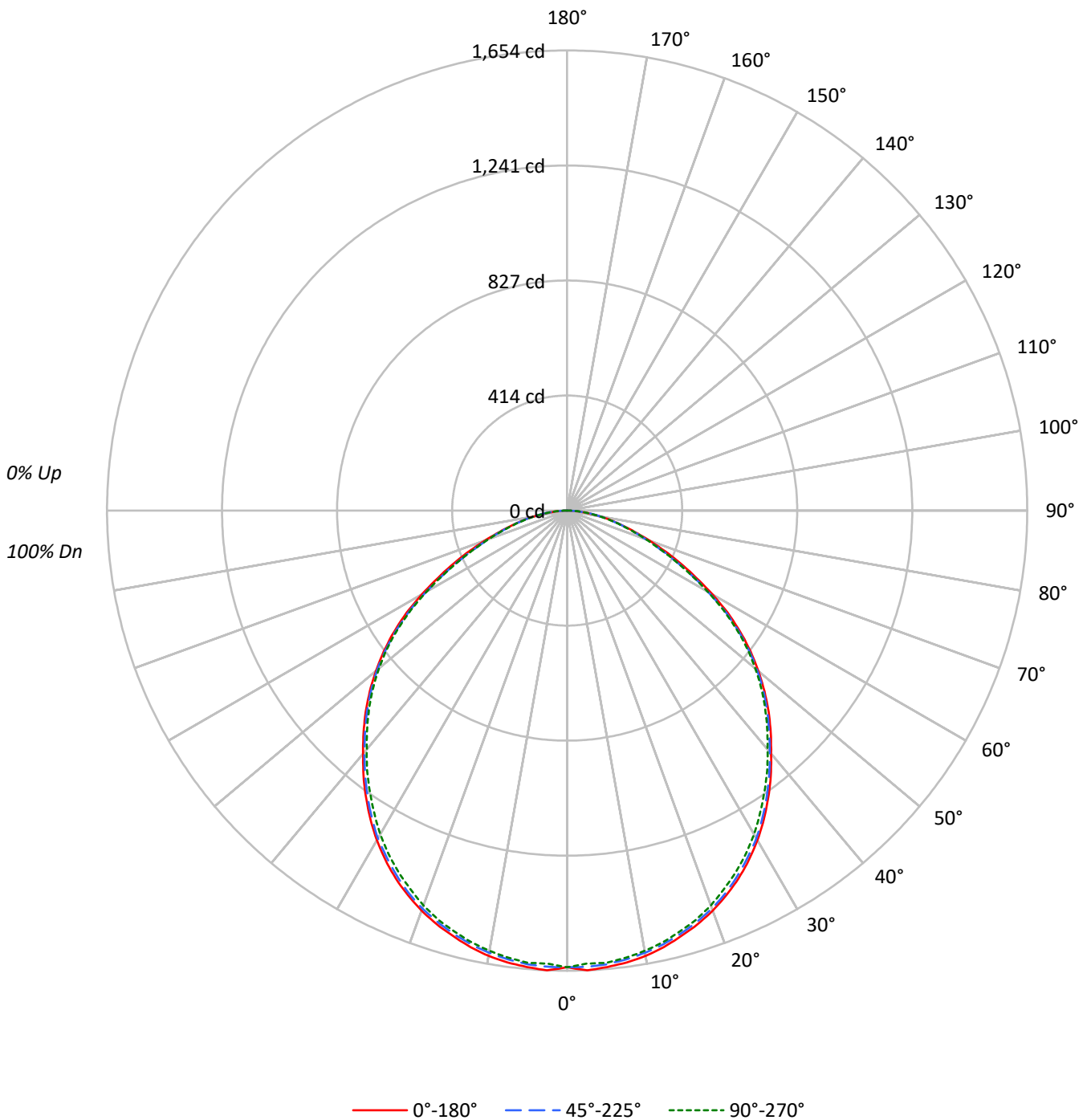
Input Watts (W): 49.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85				85
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72				72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61				61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55	53				53
5	77	65	56	50	75	64	56	50	62	55	49	60	53	48	58	52	48	46				46
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40				40
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36				36
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32				32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29				29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26				26

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

	0°	45°	90°
0°	15800	15800	15800
5°	15917	15819	15764
10°	15890	15777	15707
15°	15785	15699	15612
20°	15680	15592	15473
25°	15494	15387	15234
30°	15207	15128	14935
35°	14810	14707	14522
40°	14336	14245	14082
45°	13945	13847	13709
50°	13444	13357	13228
55°	12748	12578	12483
60°	11605	11272	11218
65°	10224	9798	9766
70°	8827	8461	8461
75°	7599	7492	7384
80°	6697	6781	6620
85°	5247	5722	5722

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 13945 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.3	3.7
10°-20°	443.4	10.6
20°-30°	664.1	15.8
30°-40°	778.9	18.5
40°-50°	781.3	18.6
50°-60°	667.1	15.9
60°-70°	433.6	10.3
70°-80°	217.1	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°	1262.8	30.1
0°-40°	2041.7	48.6
0°-60°	3490.2	83.1
0°-90°	4200.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4200.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1641	1641	1641	1641	1641	
5°	1647	1631	1637	1631	1631	157
15°	1584	1568	1575	1569	1566	447
25°	1459	1441	1448	1436	1434	671
35°	1260	1247	1251	1237	1236	788
45°	1024	1017	1017	1007	1007	789
55°	760	757	749	745	744	676
65°	449	440	430	427	429	447
75°	204	204	201	200	198	221
85°	48	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°	1641.2	1641.2	1641.2	1641.2	1641.2
2.5°	1654.2	1636.9	1641.2	1638.4	1629.7
5°	1647.0	1631.2	1636.9	1631.2	1631.2
7.5°	1638.4	1621.1	1626.9	1621.1	1621.1
10°	1625.4	1608.2	1613.9	1608.2	1606.7
12.5°	1606.7	1589.5	1596.7	1589.5	1589.5
15°	1583.7	1567.9	1575.1	1569.3	1566.4
17.5°	1559.3	1542.0	1550.6	1543.4	1542.0
20°	1530.5	1513.2	1521.9	1510.3	1510.3
22.5°	1496.0	1478.7	1488.8	1472.9	1472.9
25°	1458.6	1441.3	1448.5	1435.6	1434.1
27.5°	1415.4	1398.2	1405.3	1391.0	1391.0
30°	1367.9	1352.1	1360.8	1344.9	1343.5
32.5°	1316.2	1301.8	1307.5	1291.7	1290.3
35°	1260.1	1247.1	1251.4	1237.0	1235.6
37.5°	1202.5	1188.1	1193.9	1180.9	1180.9
40°	1140.7	1132.0	1133.5	1123.4	1120.5
42.5°	1083.1	1073.1	1074.5	1064.4	1064.4
45°	1024.2	1017.0	1017.0	1006.9	1006.9
47.5°	962.3	956.6	955.1	946.5	946.5
50°	897.6	893.3	891.8	884.6	883.2
52.5°	830.0	828.5	822.8	817.0	817.0
55°	759.5	756.6	749.4	745.1	743.7
57.5°	684.7	678.9	671.7	664.6	666.0
60°	602.7	596.9	585.4	582.6	582.6
62.5°	523.6	516.4	504.9	500.6	503.4
65°	448.8	440.2	430.1	427.2	428.7
67.5°	379.7	371.1	359.6	359.6	358.2
70°	313.6	309.3	300.6	300.6	300.6
72.5°	254.6	253.2	247.4	247.4	246.0
75°	204.3	204.3	201.4	199.9	198.5
77.5°	161.1	161.1	159.7	158.2	155.4
80°	120.8	123.7	122.3	120.8	119.4
82.5°	83.4	86.3	86.3	83.4	83.4
85°	47.5	51.8	51.8	51.8	51.8
87.5°	15.8	21.6	23.0	23.0	24.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)