

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: P688594

Luminaire Tested: SQ4R-PR1-125D-935-1-UNV-STD-W-4

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688594  
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-PR1-125D-935-1-UNV-STD-W-4  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE RIPPLE 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: 4154.6 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

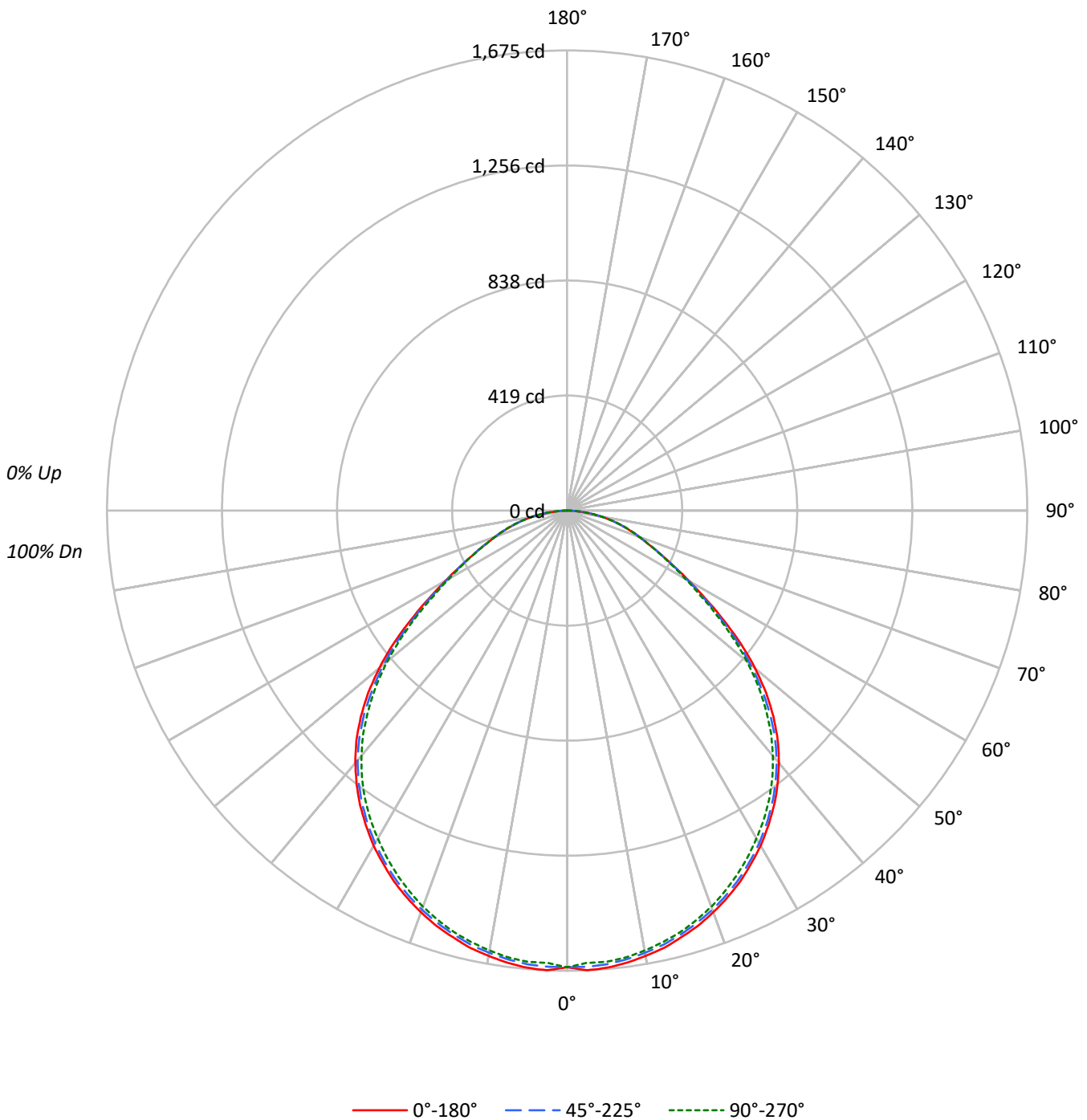
Input Watts (W): 49.5  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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°	16000	16000	16000
5°	16143	16019	15936
10°	16092	15981	15897
15°	16022	15921	15837
20°	15941	15838	15721
25°	15829	15723	15540
30°	15658	15547	15323
35°	15427	15292	15073
40°	15075	14913	14644
45°	14461	14207	13915
50°	13378	13056	12798
55°	11677	11412	11172
60°	9839	9756	9564
65°	8511	8543	8479
70°	7817	7856	7856
75°	7506	7506	7562
80°	7063	7141	7063
85°	5689	6329	6329

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 14461 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	157.2	3.8
10°-20°	449.9	10.8
20°-30°	678.5	16.3
30°-40°	808.6	19.5
40°-50°	797.7	19.2
50°-60°	608.5	14.6
60°-70°	375.6	9.0
70°-80°	214.0	5.2
80°-90°	64.5	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°	1285.6	30.9
0°-40°	2094.3	50.4
0°-60°	3500.5	84.3
0°-90°	4154.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4154.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1662	1662	1662	1662	1662	
5°	1670	1652	1658	1652	1649	159
15°	1608	1590	1597	1592	1589	454
25°	1490	1472	1480	1464	1463	686
35°	1313	1297	1301	1284	1282	820
45°	1062	1048	1044	1025	1022	815
55°	696	684	680	668	666	623
65°	374	371	375	372	372	377
75°	202	202	202	203	203	213
85°	52	54	57	57	57	61
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1661.9	1661.9	1661.9	1661.9	1661.9
2.5°	1674.7	1656.1	1661.9	1657.6	1647.5
5°	1670.4	1651.8	1657.6	1651.8	1649.0
7.5°	1660.4	1641.8	1647.5	1641.8	1640.4
10°	1646.1	1628.9	1634.7	1628.9	1626.1
12.5°	1630.4	1611.8	1618.9	1611.8	1608.9
15°	1607.5	1590.3	1597.4	1591.7	1588.9
17.5°	1584.6	1566.0	1573.1	1567.4	1563.1
20°	1555.9	1538.8	1545.9	1535.9	1534.5
22.5°	1524.4	1507.3	1514.4	1500.1	1500.1
25°	1490.1	1471.5	1480.1	1464.3	1462.9
27.5°	1450.0	1432.8	1440.0	1424.2	1422.8
30°	1408.5	1391.3	1398.5	1381.3	1378.4
32.5°	1361.3	1345.5	1351.2	1334.1	1332.6
35°	1312.6	1296.9	1301.1	1284.0	1282.5
37.5°	1258.2	1243.9	1246.8	1228.1	1226.7
40°	1199.5	1185.2	1186.6	1166.6	1165.2
42.5°	1135.1	1120.8	1119.4	1099.3	1097.9
45°	1062.1	1047.8	1043.5	1024.9	1022.0
47.5°	981.9	967.6	959.0	943.3	941.9
50°	893.2	878.9	871.7	858.8	854.5
52.5°	797.3	783.0	777.3	765.8	761.5
55°	695.7	684.2	679.9	668.5	665.6
57.5°	598.3	589.7	588.3	576.9	575.4
60°	511.0	506.7	506.7	496.7	496.7
62.5°	436.6	433.7	436.6	430.9	429.4
65°	373.6	370.7	375.0	372.2	372.2
67.5°	320.6	320.6	323.5	322.1	322.1
70°	277.7	277.7	279.1	279.1	279.1
72.5°	239.0	237.6	241.9	241.9	240.5
75°	201.8	201.8	201.8	203.3	203.3
77.5°	164.6	164.6	166.0	166.0	164.6
80°	127.4	128.8	128.8	127.4	127.4
82.5°	90.2	91.6	91.6	91.6	90.2
85°	51.5	54.4	57.3	57.3	57.3
87.5°	18.6	24.3	28.6	28.6	27.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)