

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: P688593

Luminaire Tested: SQ4R-PR1-125D-930-1-UNV-STD-W-4

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688593  
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-930-1-UNV-STD-W-4  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
1250 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3929.3 lumens  
Efficiency: N/A  
Efficacy: 79.4 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

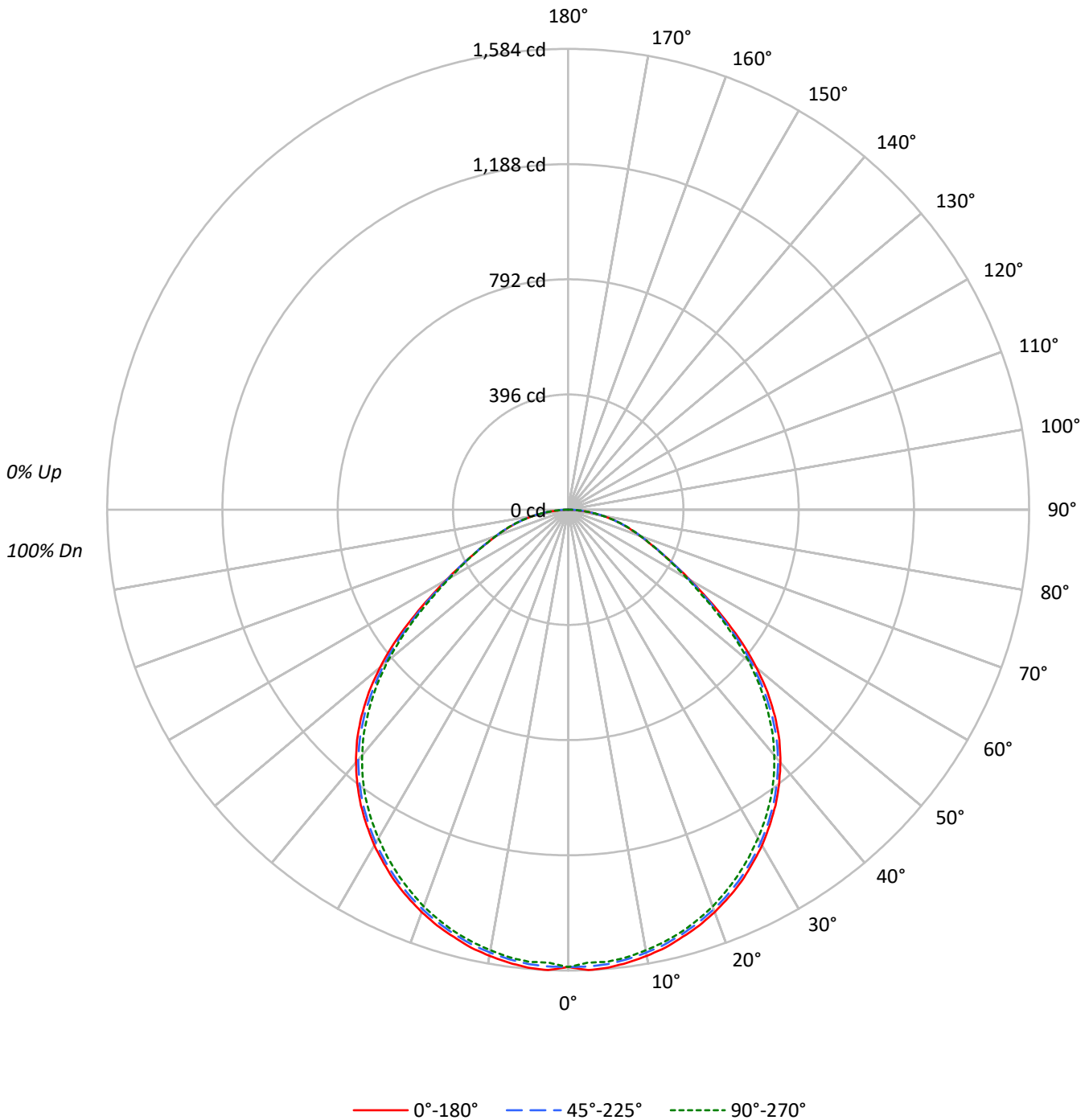
Input Watts (W): 49.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	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°	15131	15131	15131
5°	15268	15150	15072
10°	15220	15113	15034
15°	15153	15058	14977
20°	15077	14980	14869
25°	14970	14870	14697
30°	14809	14704	14493
35°	14590	14463	14256
40°	14258	14105	13849
45°	13676	13437	13160
50°	12653	12349	12105
55°	11043	10793	10566
60°	9306	9227	9046
65°	8048	8080	8019
70°	7392	7431	7431
75°	7101	7101	7149
80°	6681	6753	6681
85°	5379	5987	5987

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 13676 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	148.7	3.8
10°-20°	425.5	10.8
20°-30°	641.7	16.3
30°-40°	764.8	19.5
40°-50°	754.4	19.2
50°-60°	575.5	14.6
60°-70°	355.2	9.0
70°-80°	202.4	5.2
80°-90°	61.0	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°	1215.9	30.9
0°-40°	1980.7	50.4
0°-60°	3310.7	84.3
0°-90°	3929.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3929.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1572	1572	1572	1572	1572	
5°	1580	1562	1568	1562	1560	150
15°	1520	1504	1511	1505	1503	429
25°	1409	1392	1400	1385	1384	649
35°	1241	1226	1231	1214	1213	775
45°	1004	991	987	969	967	771
55°	658	647	643	632	630	589
65°	353	351	355	352	352	357
75°	191	191	191	192	192	202
85°	49	51	54	54	54	58
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1571.7	1571.7	1571.7	1571.7	1571.7
2.5°	1583.9	1566.3	1571.7	1567.7	1558.2
5°	1579.9	1562.3	1567.7	1562.3	1559.6
7.5°	1570.4	1552.8	1558.2	1552.8	1551.4
10°	1556.9	1540.6	1546.0	1540.6	1537.9
12.5°	1542.0	1524.4	1531.1	1524.4	1521.7
15°	1520.3	1504.1	1510.8	1505.4	1502.7
17.5°	1498.6	1481.0	1487.8	1482.4	1478.3
20°	1471.6	1455.3	1462.1	1452.6	1451.3
22.5°	1441.8	1425.5	1432.3	1418.8	1418.8
25°	1409.3	1391.7	1399.8	1384.9	1383.6
27.5°	1371.4	1355.1	1361.9	1347.0	1345.7
30°	1332.1	1315.9	1322.7	1306.4	1303.7
32.5°	1287.5	1272.6	1278.0	1261.7	1260.4
35°	1241.4	1226.5	1230.6	1214.3	1213.0
37.5°	1190.0	1176.4	1179.1	1161.6	1160.2
40°	1134.5	1120.9	1122.3	1103.3	1102.0
42.5°	1073.6	1060.0	1058.7	1039.7	1038.4
45°	1004.5	991.0	986.9	969.3	966.6
47.5°	928.7	915.2	907.0	892.1	890.8
50°	844.8	831.2	824.5	812.3	808.2
52.5°	754.1	740.5	735.1	724.3	720.2
55°	657.9	647.1	643.0	632.2	629.5
57.5°	565.9	557.8	556.4	545.6	544.2
60°	483.3	479.2	479.2	469.8	469.8
62.5°	412.9	410.2	412.9	407.5	406.1
65°	353.3	350.6	354.7	352.0	352.0
67.5°	303.2	303.2	306.0	304.6	304.6
70°	262.6	262.6	264.0	264.0	264.0
72.5°	226.1	224.7	228.8	228.8	227.4
75°	190.9	190.9	190.9	192.2	192.2
77.5°	155.7	155.7	157.0	157.0	155.7
80°	120.5	121.8	121.8	120.5	120.5
82.5°	85.3	86.6	86.6	86.6	85.3
85°	48.7	51.4	54.2	54.2	54.2
87.5°	17.6	23.0	27.1	27.1	25.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)