

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: P688920

Luminaire Tested: SQ4R-PR1-125D-92765-1-UNV-STD-W-4\_4000K

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688920  
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-92765-1-UNV-STD-W-4\_4000K  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE RIPPLE 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: 4572.4 lumens  
Efficiency: N/A  
Efficacy: 74.7 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

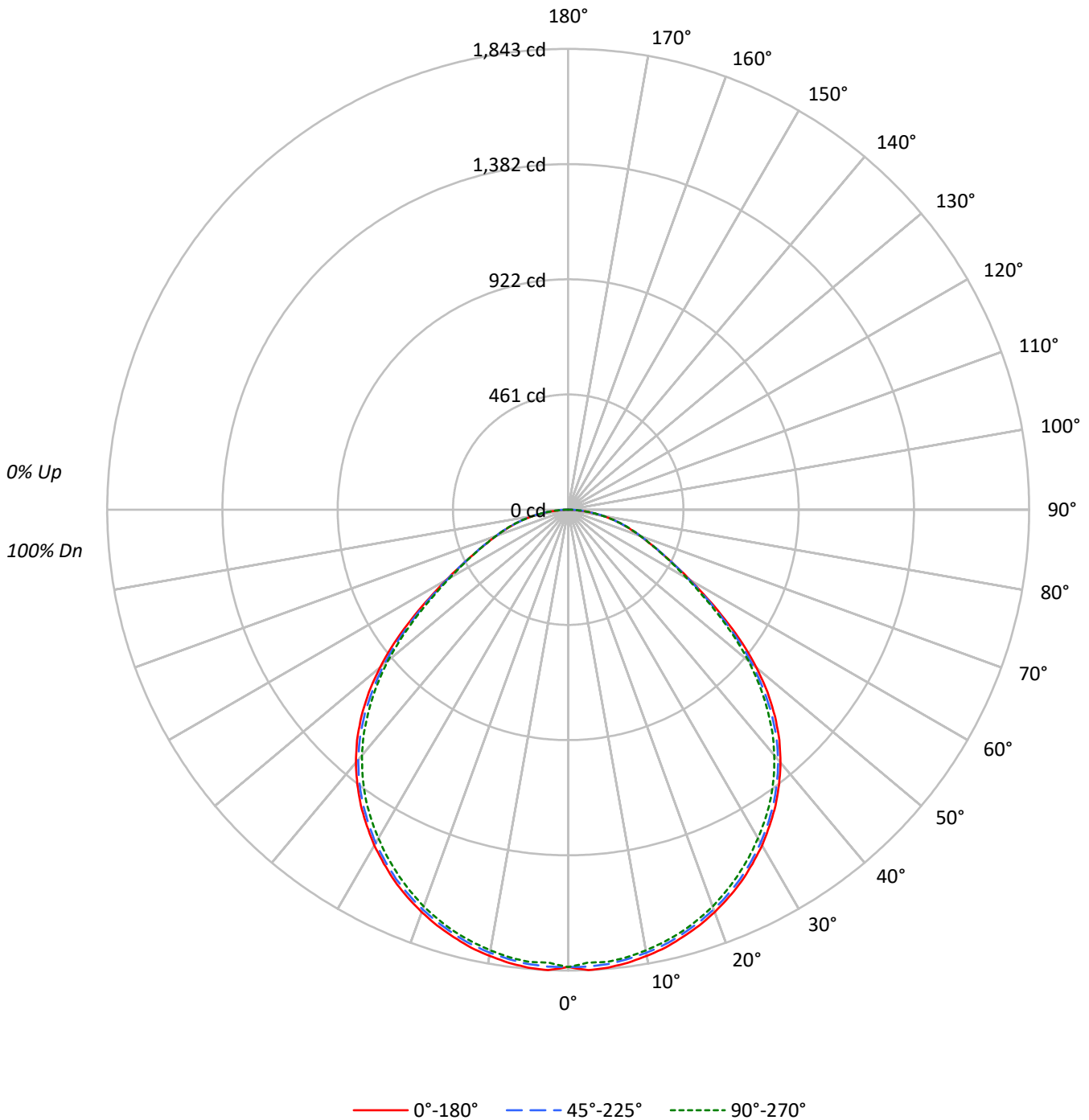
Input Watts (W): 61.2  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	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°	17608	17608	17608
5°	17767	17630	17538
10°	17711	17588	17495
15°	17633	17523	17429
20°	17544	17431	17302
25°	17421	17303	17102
30°	17233	17110	16865
35°	16978	16830	16589
40°	16592	16413	16115
45°	15915	15636	15314
50°	14723	14369	14086
55°	12850	12560	12295
60°	10829	10738	10527
65°	9367	9401	9331
70°	8602	8647	8647
75°	8261	8261	8321
80°	7773	7862	7773
85°	6263	6959	6959

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 15915 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	173.0	3.8
10°-20°	495.1	10.8
20°-30°	746.8	16.3
30°-40°	890.0	19.5
40°-50°	877.9	19.2
50°-60°	669.7	14.6
60°-70°	413.3	9.0
70°-80°	235.5	5.2
80°-90°	71.0	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°	1414.9	30.9
0°-40°	2304.9	50.4
0°-60°	3852.5	84.3
0°-90°	4572.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4572.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1829	1829	1829	1829	1829	
5°	1838	1818	1824	1818	1815	175
15°	1769	1750	1758	1752	1749	500
25°	1640	1620	1629	1612	1610	755
35°	1445	1427	1432	1413	1412	902
45°	1169	1153	1148	1128	1125	897
55°	766	753	748	736	732	686
65°	411	408	413	410	410	415
75°	222	222	222	224	224	235
85°	57	60	63	63	63	67
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1829.0	1829.0	1829.0	1829.0	1829.0
2.5°	1843.2	1822.7	1829.0	1824.3	1813.2
5°	1838.4	1818.0	1824.3	1818.0	1814.8
7.5°	1827.4	1806.9	1813.2	1806.9	1805.4
10°	1811.7	1792.8	1799.1	1792.8	1789.6
12.5°	1794.3	1773.9	1781.7	1773.9	1770.7
15°	1769.1	1750.2	1758.1	1751.8	1748.7
17.5°	1743.9	1723.4	1731.3	1725.0	1720.3
20°	1712.4	1693.5	1701.4	1690.4	1688.8
22.5°	1677.8	1658.9	1666.7	1651.0	1651.0
25°	1640.0	1619.5	1628.9	1611.6	1610.0
27.5°	1595.8	1576.9	1584.8	1567.5	1565.9
30°	1550.2	1531.3	1539.1	1520.2	1517.1
32.5°	1498.2	1480.8	1487.1	1468.2	1466.7
35°	1444.6	1427.3	1432.0	1413.1	1411.5
37.5°	1384.7	1369.0	1372.1	1351.7	1350.1
40°	1320.2	1304.4	1306.0	1283.9	1282.3
42.5°	1249.3	1233.5	1231.9	1209.9	1208.3
45°	1168.9	1153.2	1148.4	1128.0	1124.8
47.5°	1080.7	1064.9	1055.5	1038.2	1036.6
50°	983.0	967.3	959.4	945.2	940.5
52.5°	877.5	861.7	855.4	842.8	838.1
55°	765.6	753.0	748.3	735.7	732.5
57.5°	658.5	649.0	647.5	634.9	633.3
60°	562.4	557.7	557.7	546.7	546.7
62.5°	480.5	477.3	480.5	474.2	472.6
65°	411.2	408.0	412.7	409.6	409.6
67.5°	352.9	352.9	356.0	354.5	354.5
70°	305.6	305.6	307.2	307.2	307.2
72.5°	263.1	261.5	266.2	266.2	264.7
75°	222.1	222.1	222.1	223.7	223.7
77.5°	181.2	181.2	182.7	182.7	181.2
80°	140.2	141.8	141.8	140.2	140.2
82.5°	99.2	100.8	100.8	100.8	99.2
85°	56.7	59.9	63.0	63.0	63.0
87.5°	20.5	26.8	31.5	31.5	29.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)