

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: P688927

Luminaire Tested: SQ4R-PR1-125D-93050-1-UNV-STD-W-4\_4000K

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688927  
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-93050-1-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: 4768.1 lumens  
Efficiency: N/A  
Efficacy: 77.5 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

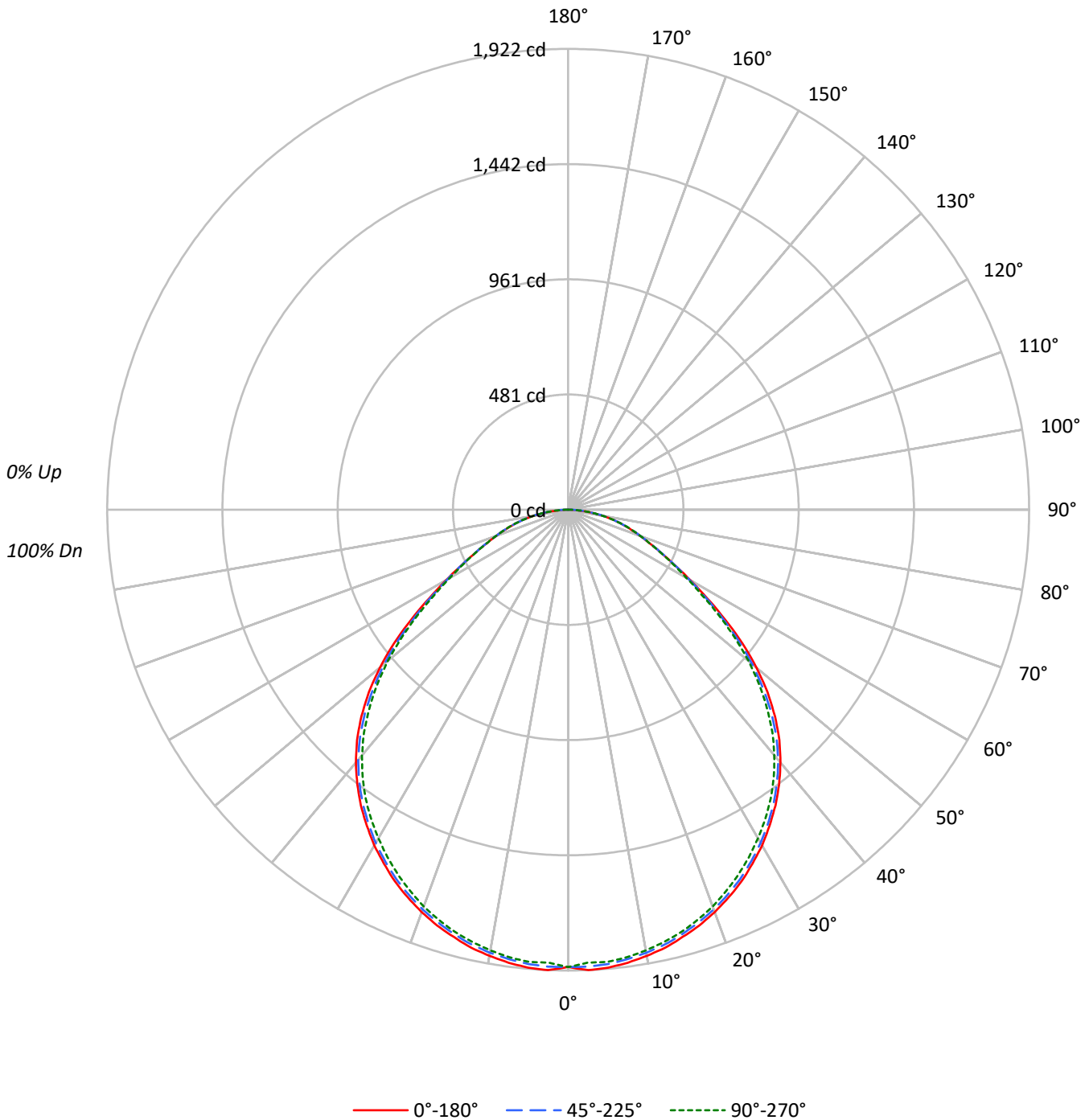
Input Watts (W): 61.5  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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°	18362	18362	18362
5°	18527	18384	18289
10°	18469	18340	18244
15°	18387	18272	18175
20°	18295	18177	18043
25°	18166	18044	17834
30°	17970	17842	17587
35°	17704	17550	17299
40°	17302	17116	16805
45°	16595	16305	15969
50°	15353	14985	14688
55°	13401	13097	12822
60°	11293	11197	10975
65°	9768	9805	9729
70°	8971	9016	9016
75°	8615	8615	8678
80°	8106	8200	8106
85°	6528	7257	7257

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 16595 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	180.5	3.8
10°-20°	516.3	10.8
20°-30°	778.7	16.3
30°-40°	928.1	19.5
40°-50°	915.5	19.2
50°-60°	698.4	14.6
60°-70°	431.0	9.0
70°-80°	245.6	5.2
80°-90°	74.1	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°	1475.5	30.9
0°-40°	2403.6	50.4
0°-60°	4017.4	84.3
0°-90°	4768.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4768.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1907	1907	1907	1907	1907	
5°	1917	1896	1902	1896	1892	182
15°	1845	1825	1833	1827	1824	521
25°	1710	1689	1699	1681	1679	787
35°	1506	1488	1493	1474	1472	941
45°	1219	1202	1198	1176	1173	935
55°	798	785	780	767	764	715
65°	429	426	430	427	427	433
75°	232	232	232	233	233	245
85°	59	62	66	66	66	70
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1907.3	1907.3	1907.3	1907.3	1907.3
2.5°	1922.1	1900.7	1907.3	1902.3	1890.8
5°	1917.1	1895.8	1902.3	1895.8	1892.5
7.5°	1905.6	1884.3	1890.8	1884.3	1882.6
10°	1889.2	1869.5	1876.1	1869.5	1866.2
12.5°	1871.1	1849.8	1858.0	1849.8	1846.5
15°	1844.8	1825.1	1833.3	1826.8	1823.5
17.5°	1818.6	1797.2	1805.4	1798.8	1793.9
20°	1785.7	1766.0	1774.2	1762.7	1761.1
22.5°	1749.6	1729.8	1738.1	1721.6	1721.6
25°	1710.1	1688.8	1698.6	1680.6	1678.9
27.5°	1664.1	1644.4	1652.6	1634.6	1632.9
30°	1616.5	1596.8	1605.0	1585.3	1582.0
32.5°	1562.3	1544.2	1550.8	1531.1	1529.4
35°	1506.4	1488.4	1493.3	1473.6	1471.9
37.5°	1444.0	1427.6	1430.9	1409.5	1407.9
40°	1376.7	1360.2	1361.9	1338.9	1337.2
42.5°	1302.7	1286.3	1284.7	1261.7	1260.0
45°	1218.9	1202.5	1197.6	1176.2	1172.9
47.5°	1126.9	1110.5	1100.7	1082.6	1081.0
50°	1025.1	1008.7	1000.5	985.7	980.7
52.5°	915.0	898.6	892.0	878.9	874.0
55°	798.4	785.2	780.3	767.2	763.9
57.5°	686.7	676.8	675.2	662.0	660.4
60°	586.5	581.5	581.5	570.0	570.0
62.5°	501.0	497.8	501.0	494.5	492.8
65°	428.8	425.5	430.4	427.1	427.1
67.5°	368.0	368.0	371.3	369.6	369.6
70°	318.7	318.7	320.3	320.3	320.3
72.5°	274.3	272.7	277.6	277.6	276.0
75°	231.6	231.6	231.6	233.3	233.3
77.5°	188.9	188.9	190.6	190.6	188.9
80°	146.2	147.9	147.9	146.2	146.2
82.5°	103.5	105.1	105.1	105.1	103.5
85°	59.1	62.4	65.7	65.7	65.7
87.5°	21.4	27.9	32.9	32.9	31.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)