

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: P688999

Luminaire Tested: SQ4R-PW1-125D-92765-1-UNV-STD-W-4\_4500K

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688999  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2203-586-35)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/22/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4R-PW1-125D-92765-1-UNV-STD-W-4\_4500K  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
1250 LUMENS PER FOOT  
Light Source: 4500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4882.8 lumens  
Efficiency: N/A  
Efficacy: 79.8 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.2 / 1.29  
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')  
CIE Type: Direct

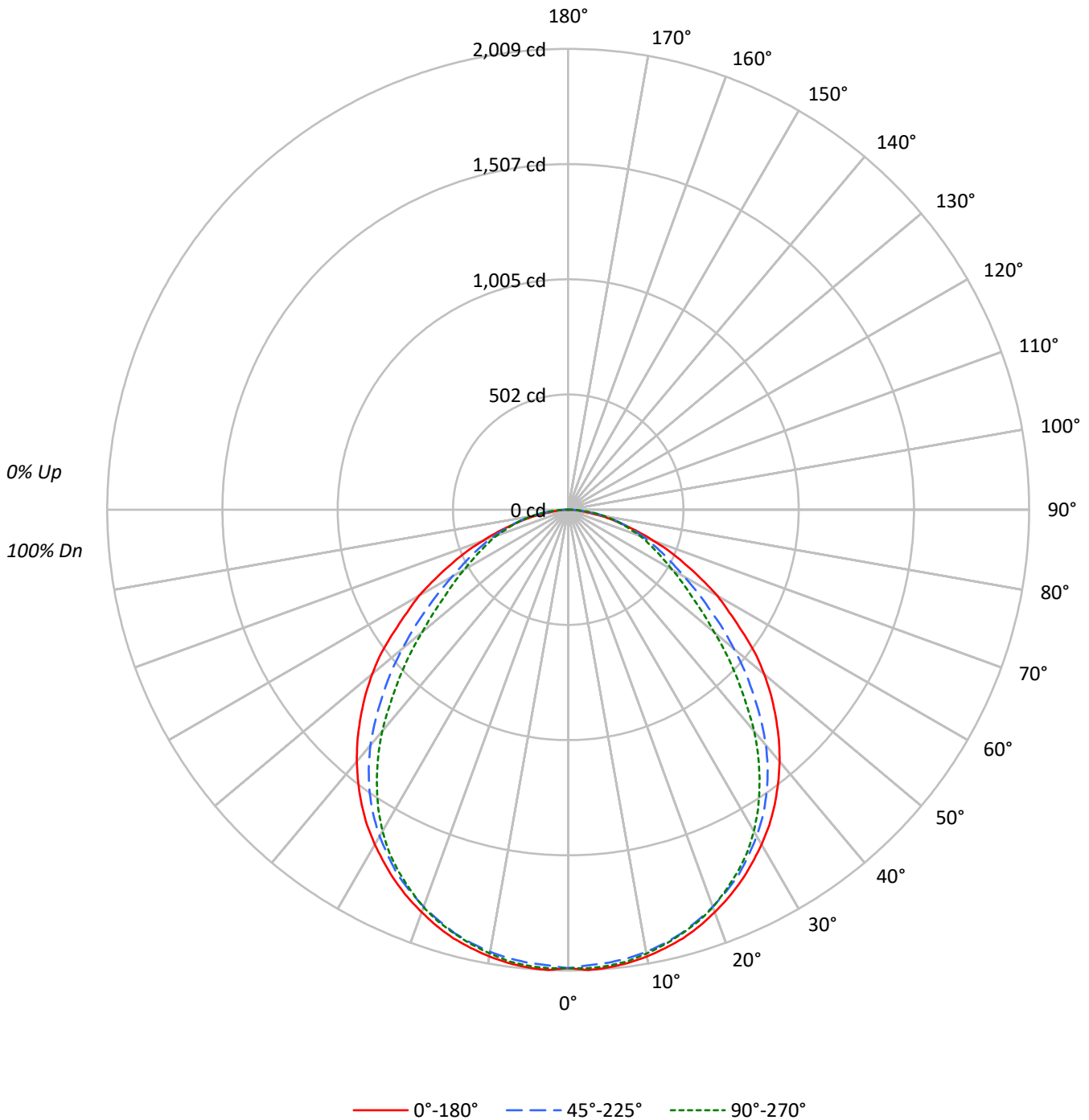
Input Watts (W): 61.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	99	96	93	95	92	90	91	89	87	85				85
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72				72
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62				62
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54				54
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49	47				47
6	72	59	51	45	70	59	50	44	57	49	44	55	49	44	54	48	43	41				41
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37				37
8	63	50	41	36	61	49	41	36	48	40	35	46	40	35	45	39	35	33				33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30				30
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27				27

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

	0°	45°	90°
0°	19239	19239	19239
5°	19362	19164	19288
10°	19335	19134	19210
15°	19278	19048	19073
20°	19132	18869	18895
25°	18963	18663	18527
30°	18732	18275	17989
35°	18445	17721	17086
40°	18013	16851	15850
45°	17416	15562	14199
50°	16697	14119	12427
55°	15521	12547	10994
60°	14441	11227	10089
65°	12814	10415	9538
70°	11136	9905	9399
75°	9173	9363	8983
80°	7263	8832	8832
85°	5391	7942	8229

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 17416 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	189.6	3.9
10°-20°	541.6	11.1
20°-30°	811.2	16.6
30°-40°	942.5	19.3
40°-50°	889.2	18.2
50°-60°	693.8	14.2
60°-70°	471.0	9.6
70°-80°	265.2	5.4
80°-90°	78.8	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°	1542.3	31.6
0°-40°	2484.8	50.9
0°-60°	4067.8	83.3
0°-90°	4882.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4882.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1998	1998	1998	1998	1998	
5°	2004	1998	1983	1998	1996	190
15°	1934	1926	1911	1921	1914	545
25°	1785	1778	1757	1752	1744	822
35°	1569	1554	1508	1474	1454	980
45°	1279	1241	1143	1071	1043	986
55°	925	871	748	676	655	830
65°	562	511	457	429	419	562
75°	247	257	252	242	242	268
85°	49	69	72	72	74	59
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1998.4	1998.4	1998.4	1998.4	1998.4
2.5°	2008.7	2003.5	1988.1	2003.5	2001.0
5°	2003.5	1998.4	1983.0	1998.4	1995.8
7.5°	1993.3	1990.7	1972.7	1988.1	1985.6
10°	1977.8	1975.3	1957.3	1970.1	1965.0
12.5°	1957.3	1954.7	1936.7	1947.0	1941.9
15°	1934.2	1926.5	1911.1	1921.3	1913.6
17.5°	1903.4	1895.7	1877.7	1885.4	1882.8
20°	1867.4	1859.7	1841.7	1849.4	1844.3
22.5°	1828.9	1821.2	1800.6	1803.2	1795.5
25°	1785.2	1777.5	1756.9	1751.8	1744.1
27.5°	1736.4	1731.3	1700.4	1695.3	1687.6
30°	1685.0	1677.3	1643.9	1633.7	1618.2
32.5°	1631.1	1615.7	1579.7	1559.2	1541.2
35°	1569.4	1554.0	1507.8	1474.4	1453.8
37.5°	1502.7	1479.5	1428.2	1381.9	1361.4
40°	1433.3	1407.6	1340.8	1279.2	1261.2
42.5°	1358.8	1328.0	1243.2	1179.0	1148.2
45°	1279.2	1240.6	1143.0	1071.1	1042.9
47.5°	1199.6	1150.7	1045.4	968.4	937.6
50°	1114.8	1055.7	942.7	860.5	829.7
52.5°	1027.5	963.2	847.6	762.9	739.8
55°	924.7	870.8	747.5	675.6	655.0
57.5°	832.2	773.2	665.3	603.6	588.2
60°	750.0	678.1	583.1	536.8	524.0
62.5°	655.0	590.8	516.3	480.3	467.5
65°	562.5	511.2	457.2	429.0	418.7
67.5°	482.9	439.2	403.3	380.2	375.0
70°	395.6	372.5	351.9	333.9	333.9
72.5°	321.1	313.4	300.5	290.3	282.5
75°	246.6	256.9	251.7	241.5	241.5
77.5°	187.5	202.9	205.5	200.4	202.9
80°	131.0	154.1	159.3	156.7	159.3
82.5°	82.2	110.5	115.6	115.6	118.2
85°	48.8	69.4	71.9	71.9	74.5
87.5°	20.5	33.4	36.0	36.0	36.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)