

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: P688850

Luminaire Tested: SQ4R-PP3-125D-93050-1-UNV-STD-W-4\_4500K

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688850  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-172-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/22/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4R-PP3-125D-93050-1-UNV-STD-W-4\_4500K  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PRISM 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: 5090.5 lumens  
Efficiency: N/A  
Efficacy: 82.9 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')  
CIE Type: Direct

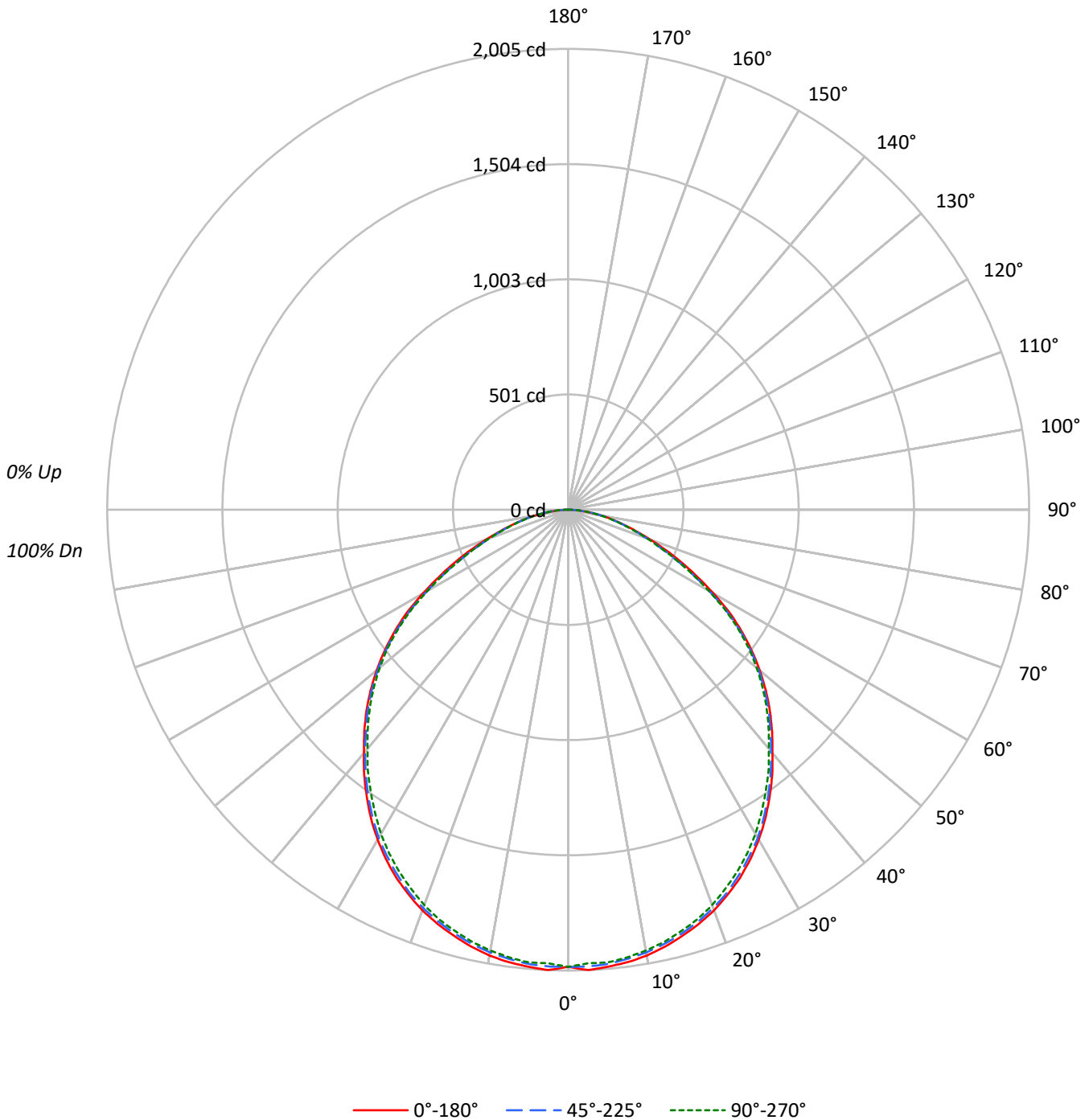
Input Watts (W): 61.4  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	109	105	101	97	107	103	99	96	98	95	93		95	92	90		91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77		84	79	76		81	77	74	72
3	92	81	74	67	89	80	73	67	77	71	66		74	69	64		72	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56		66	60	56		64	59	55	53
5	77	65	56	50	75	64	56	50	62	55	49		60	53	48		58	52	48	46
6	72	59	50	44	70	58	49	43	56	49	43		54	48	43		53	47	42	40
7	66	53	45	39	65	52	44	39	51	44	38		49	43	38		48	42	38	36
8	62	49	40	35	60	48	40	34	47	39	34		45	39	34		44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31		42	35	31		41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28		39	33	28		38	32	28	26

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

	0°	45°	90°
0°	19149	19149	19149
5°	19290	19172	19104
10°	19256	19121	19036
15°	19130	19025	18920
20°	19003	18895	18753
25°	18777	18647	18462
30°	18429	18333	18100
35°	17947	17824	17599
40°	17373	17263	17067
45°	16899	16779	16613
50°	16293	16188	16030
55°	15449	15244	15126
60°	14064	13661	13594
65°	12390	11873	11834
70°	10696	10254	10254
75°	9206	9076	8950
80°	8117	8216	8022
85°	6352	6937	6937

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 16899 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	188.2	3.7
10°-20°	537.3	10.6
20°-30°	804.9	15.8
30°-40°	944.0	18.5
40°-50°	946.9	18.6
50°-60°	808.5	15.9
60°-70°	525.5	10.3
70°-80°	263.1	5.2
80°-90°	72.2	1.4
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°	1530.4	30.1
0°-40°	2474.4	48.6
0°-60°	4229.8	83.1
0°-90°	5090.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5090.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1989	1989	1989	1989	1989	
5°	1996	1977	1984	1977	1977	190
15°	1919	1900	1909	1902	1898	542
25°	1768	1747	1755	1740	1738	813
35°	1527	1511	1517	1499	1497	955
45°	1241	1232	1232	1220	1220	956
55°	920	917	908	903	901	819
65°	544	533	521	518	520	542
75°	248	248	244	242	241	267
85°	58	63	63	63	63	68
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1989.0	1989.0	1989.0	1989.0	1989.0
2.5°	2004.7	1983.8	1989.0	1985.5	1975.0
5°	1996.0	1976.8	1983.8	1976.8	1976.8
7.5°	1985.5	1964.6	1971.6	1964.6	1964.6
10°	1969.8	1948.9	1955.9	1948.9	1947.2
12.5°	1947.2	1926.2	1935.0	1926.2	1926.2
15°	1919.3	1900.1	1908.8	1901.8	1898.3
17.5°	1889.6	1868.7	1879.2	1870.5	1868.7
20°	1854.8	1833.8	1844.3	1830.4	1830.4
22.5°	1812.9	1792.0	1804.2	1785.0	1785.0
25°	1767.6	1746.7	1755.4	1739.7	1738.0
27.5°	1715.3	1694.4	1703.1	1685.7	1685.7
30°	1657.8	1638.6	1649.1	1629.9	1628.2
32.5°	1595.0	1577.6	1584.6	1565.4	1563.7
35°	1527.0	1511.4	1516.6	1499.2	1497.4
37.5°	1457.3	1439.9	1446.9	1431.2	1431.2
40°	1382.4	1371.9	1373.6	1361.4	1358.0
42.5°	1312.6	1300.4	1302.2	1290.0	1290.0
45°	1241.2	1232.4	1232.4	1220.2	1220.2
47.5°	1166.2	1159.2	1157.5	1147.0	1147.0
50°	1087.8	1082.5	1080.8	1072.1	1070.3
52.5°	1005.8	1004.1	997.1	990.1	990.1
55°	920.4	916.9	908.2	903.0	901.2
57.5°	829.8	822.8	814.1	805.4	807.1
60°	730.4	723.4	709.5	706.0	706.0
62.5°	634.5	625.8	611.9	606.6	610.1
65°	543.9	533.4	521.2	517.7	519.5
67.5°	460.2	449.7	435.8	435.8	434.1
70°	380.0	374.8	364.3	364.3	364.3
72.5°	308.5	306.8	299.8	299.8	298.1
75°	247.5	247.5	244.0	242.3	240.6
77.5°	195.2	195.2	193.5	191.8	188.3
80°	146.4	149.9	148.2	146.4	144.7
82.5°	101.1	104.6	104.6	101.1	101.1
85°	57.5	62.8	62.8	62.8	62.8
87.5°	19.2	26.1	27.9	27.9	29.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)