

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: P688554

Luminaire Tested: SQ4R-PP3-125D-830-1-UNV-STD-W-4

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688554  
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-830-1-UNV-STD-W-4  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
1250 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4782.3 lumens  
Efficiency: N/A  
Efficacy: 96.6 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

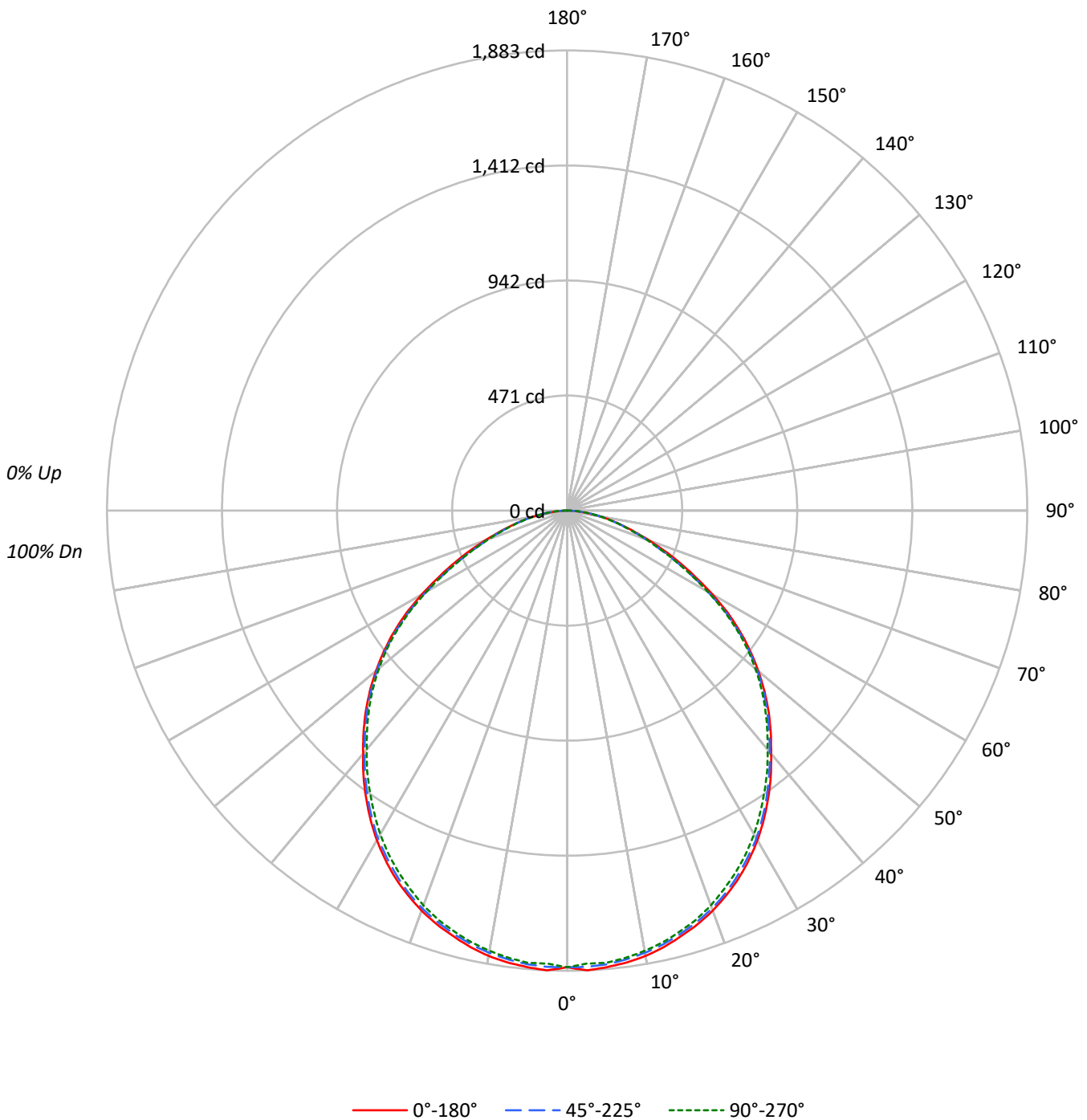
Input Watts (W): 49.5  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	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°	17989	17989	17989
5°	18121	18010	17947
10°	18090	17962	17882
15°	17970	17873	17775
20°	17851	17751	17617
25°	17640	17518	17344
30°	17313	17222	17003
35°	16861	16744	16533
40°	16320	16217	16032
45°	15875	15764	15607
50°	15305	15207	15060
55°	14514	14321	14212
60°	13213	12833	12770
65°	11638	11153	11117
70°	10049	9635	9635
75°	8648	8529	8407
80°	7629	7717	7535
85°	5965	6517	6517

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 15875 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	176.8	3.7
10°-20°	504.8	10.6
20°-30°	756.1	15.8
30°-40°	886.8	18.5
40°-50°	889.5	18.6
50°-60°	759.6	15.9
60°-70°	493.6	10.3
70°-80°	247.2	5.2
80°-90°	67.8	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°	1437.7	30.1
0°-40°	2324.5	48.6
0°-60°	3973.6	83.1
0°-90°	4782.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4782.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1868	1868	1868	1868	1868	
5°	1875	1857	1864	1857	1857	178
15°	1803	1785	1793	1787	1783	509
25°	1661	1641	1649	1634	1633	764
35°	1435	1420	1425	1408	1407	897
45°	1166	1158	1158	1146	1146	898
55°	865	861	853	848	847	769
65°	511	501	490	486	488	509
75°	232	232	229	228	226	251
85°	54	59	59	59	59	64
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1868.5	1868.5	1868.5	1868.5	1868.5
2.5°	1883.3	1863.6	1868.5	1865.3	1855.4
5°	1875.1	1857.1	1863.6	1857.1	1857.1
7.5°	1865.3	1845.6	1852.2	1845.6	1845.6
10°	1850.5	1830.9	1837.4	1830.9	1829.2
12.5°	1829.2	1809.6	1817.8	1809.6	1809.6
15°	1803.0	1785.0	1793.2	1786.6	1783.4
17.5°	1775.2	1755.5	1765.4	1757.2	1755.5
20°	1742.4	1722.8	1732.6	1719.5	1719.5
22.5°	1703.1	1683.5	1694.9	1676.9	1676.9
25°	1660.6	1640.9	1649.1	1634.3	1632.7
27.5°	1611.4	1591.8	1600.0	1583.6	1583.6
30°	1557.4	1539.4	1549.2	1531.2	1529.5
32.5°	1498.4	1482.0	1488.6	1470.6	1468.9
35°	1434.6	1419.8	1424.7	1408.4	1406.7
37.5°	1369.1	1352.7	1359.2	1344.5	1344.5
40°	1298.6	1288.8	1290.4	1279.0	1275.7
42.5°	1233.1	1221.7	1223.3	1211.8	1211.8
45°	1166.0	1157.8	1157.8	1146.3	1146.3
47.5°	1095.6	1089.0	1087.4	1077.6	1077.6
50°	1021.9	1017.0	1015.3	1007.1	1005.5
52.5°	944.9	943.3	936.7	930.2	930.2
55°	864.7	861.4	853.2	848.3	846.7
57.5°	779.5	773.0	764.8	756.6	758.2
60°	686.2	679.6	666.5	663.2	663.2
62.5°	596.1	587.9	574.8	569.9	573.2
65°	510.9	501.1	489.6	486.4	488.0
67.5°	432.3	422.5	409.4	409.4	407.8
70°	357.0	352.1	342.3	342.3	342.3
72.5°	289.9	288.2	281.7	281.7	280.0
75°	232.5	232.5	229.3	227.6	226.0
77.5°	183.4	183.4	181.8	180.1	176.9
80°	137.6	140.8	139.2	137.6	135.9
82.5°	95.0	98.3	98.3	95.0	95.0
85°	54.0	59.0	59.0	59.0	59.0
87.5°	18.0	24.6	26.2	26.2	27.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)