

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: P688851

Luminaire Tested: SQ4R-PP3-125D-93050-1-UNV-STD-W-4\_5000K

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688851  
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\_5000K  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
1250 LUMENS PER FOOT  
Light Source: 5000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5134.5 lumens  
Efficiency: N/A  
Efficacy: 83.9 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

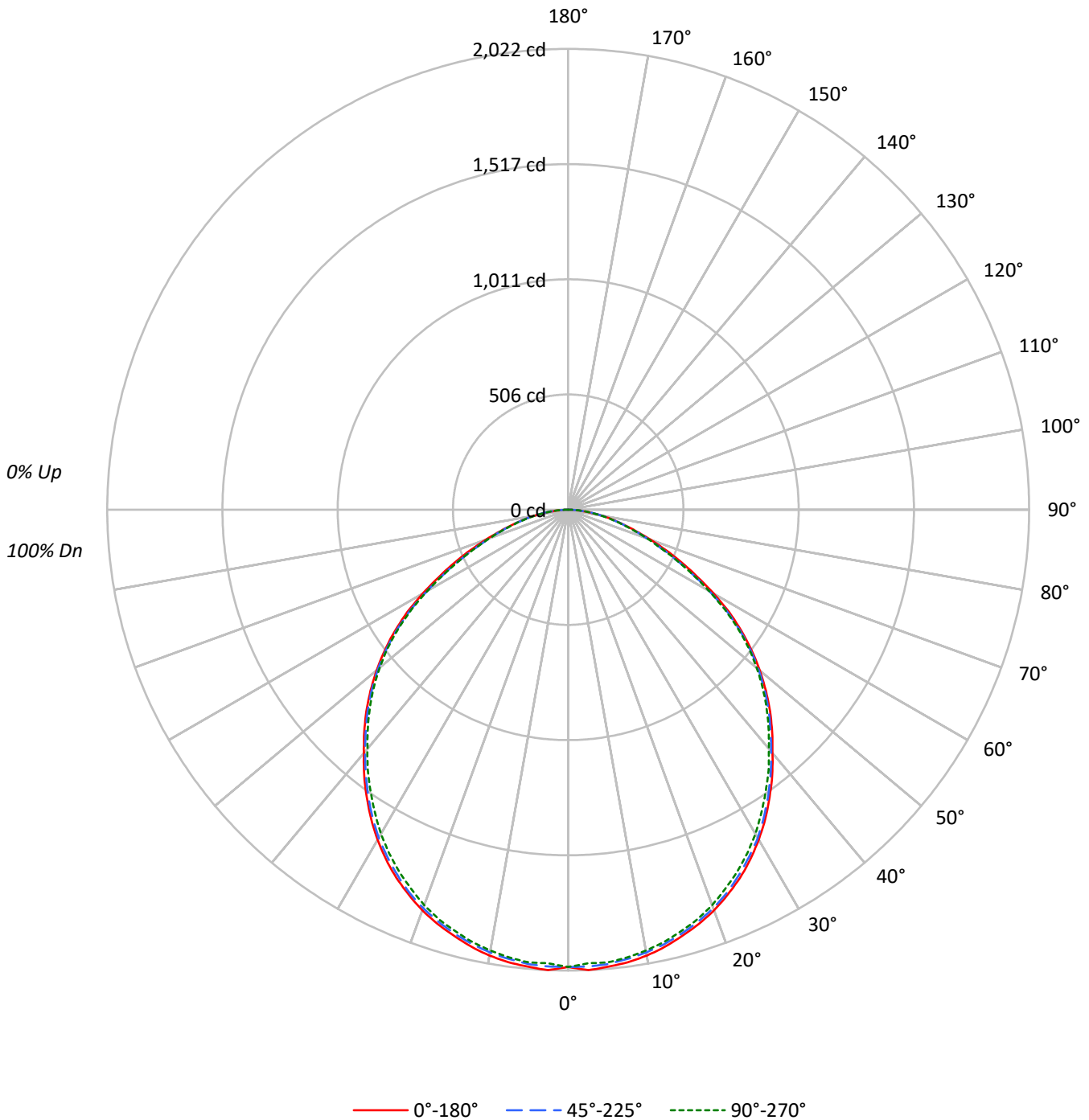
Input Watts (W): 61.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	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°	19314	19314	19314
5°	19456	19337	19269
10°	19423	19286	19200
15°	19294	19189	19084
20°	19167	19058	18915
25°	18939	18808	18621
30°	18588	18490	18256
35°	18102	17978	17750
40°	17523	17412	17214
45°	17045	16925	16757
50°	16433	16327	16170
55°	15583	15377	15257
60°	14185	13779	13711
65°	12497	11976	11937
70°	10789	10345	10345
75°	9288	9158	9024
80°	8189	8289	8089
85°	6407	6992	6992

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 17045 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	189.8	3.7
10°-20°	542.0	10.6
20°-30°	811.8	15.8
30°-40°	952.1	18.5
40°-50°	955.1	18.6
50°-60°	815.5	15.9
60°-70°	530.0	10.3
70°-80°	265.4	5.2
80°-90°	72.8	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°	1543.6	30.1
0°-40°	2495.7	48.6
0°-60°	4266.3	83.1
0°-90°	5134.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5134.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2006	2006	2006	2006	2006	
5°	2013	1994	2001	1994	1994	191
15°	1936	1916	1925	1918	1915	546
25°	1783	1762	1771	1755	1753	820
35°	1540	1524	1530	1512	1510	963
45°	1252	1243	1243	1231	1231	965
55°	928	925	916	911	909	826
65°	549	538	526	522	524	547
75°	250	250	246	244	243	270
85°	58	63	63	63	63	69
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2006.2	2006.2	2006.2	2006.2	2006.2
2.5°	2022.0	2000.9	2006.2	2002.7	1992.1
5°	2013.2	1993.9	2000.9	1993.9	1993.9
7.5°	2002.7	1981.6	1988.6	1981.6	1981.6
10°	1986.8	1965.7	1972.8	1965.7	1964.0
12.5°	1964.0	1942.9	1951.7	1942.9	1942.9
15°	1935.8	1916.5	1925.3	1918.3	1914.7
17.5°	1905.9	1884.8	1895.4	1886.6	1884.8
20°	1870.8	1849.7	1860.2	1846.2	1846.2
22.5°	1828.6	1807.5	1819.8	1800.5	1800.5
25°	1782.9	1761.8	1770.6	1754.7	1753.0
27.5°	1730.1	1709.0	1717.8	1700.2	1700.2
30°	1672.1	1652.8	1663.3	1644.0	1642.2
32.5°	1608.8	1591.2	1598.3	1578.9	1577.2
35°	1540.2	1524.4	1529.7	1512.1	1510.3
37.5°	1469.9	1452.3	1459.4	1443.5	1443.5
40°	1394.3	1383.7	1385.5	1373.2	1369.7
42.5°	1324.0	1311.7	1313.4	1301.1	1301.1
45°	1251.9	1243.1	1243.1	1230.8	1230.8
47.5°	1176.3	1169.2	1167.5	1156.9	1156.9
50°	1097.2	1091.9	1090.1	1081.3	1079.6
52.5°	1014.5	1012.8	1005.7	998.7	998.7
55°	928.4	924.8	916.1	910.8	909.0
57.5°	836.9	829.9	821.1	812.3	814.1
60°	736.7	729.7	715.6	712.1	712.1
62.5°	640.0	631.2	617.1	611.9	615.4
65°	548.6	538.0	525.7	522.2	524.0
67.5°	464.2	453.6	439.6	439.6	437.8
70°	383.3	378.0	367.5	367.5	367.5
72.5°	311.2	309.5	302.4	302.4	300.7
75°	249.7	249.7	246.2	244.4	242.6
77.5°	196.9	196.9	195.2	193.4	189.9
80°	147.7	151.2	149.5	147.7	145.9
82.5°	102.0	105.5	105.5	102.0	102.0
85°	58.0	63.3	63.3	63.3	63.3
87.5°	19.3	26.4	28.1	28.1	29.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)