

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: P689007

Luminaire Tested: SQ4R-PW1-125D-93050-1-UNV-STD-W-4\_5000K

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P689007  
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-93050-1-UNV-STD-W-4\_5000K  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE WAVES 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: 5085.9 lumens  
Efficiency: N/A  
Efficacy: 83.1 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

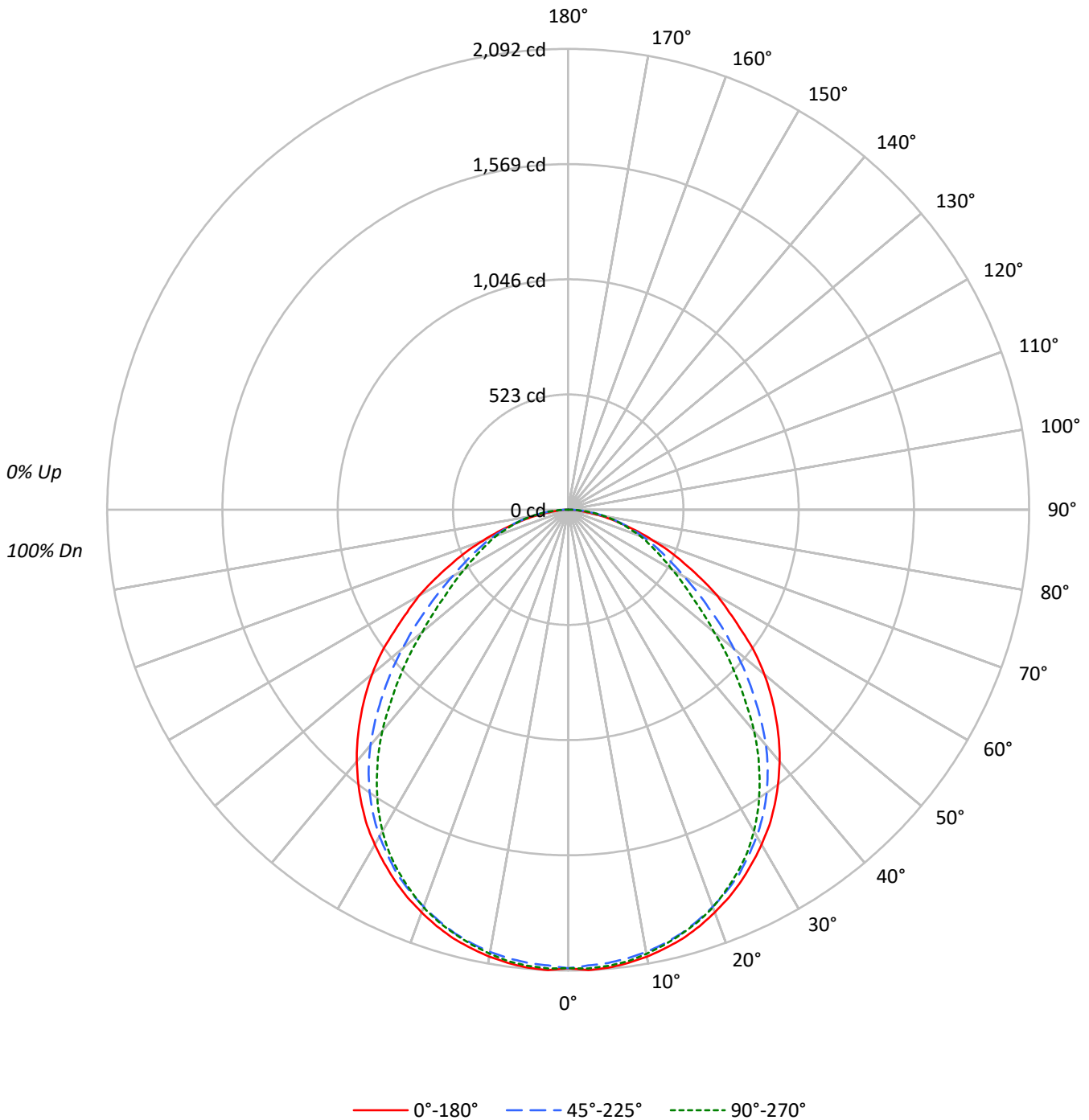
Input Watts (W): 61.2  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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

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

	0°	45°	90°
0°	20039	20039	20039
5°	20168	19961	20091
10°	20139	19930	20009
15°	20080	19840	19866
20°	19928	19653	19681
25°	19753	19439	19298
30°	19511	19035	18738
35°	19212	18458	17797
40°	18762	17552	16510
45°	18141	16210	14790
50°	17392	14706	12944
55°	16167	13069	11452
60°	15042	11693	10509
65°	13347	10848	9934
70°	11597	10316	9790
75°	9552	9753	9355
80°	7568	9198	9198
85°	5611	8274	8572

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 18141 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	197.5	3.9
10°-20°	564.1	11.1
20°-30°	844.9	16.6
30°-40°	981.7	19.3
40°-50°	926.2	18.2
50°-60°	722.6	14.2
60°-70°	490.6	9.6
70°-80°	276.3	5.4
80°-90°	82.0	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°	1606.5	31.6
0°-40°	2588.2	50.9
0°-60°	4237.1	83.3
0°-90°	5085.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5085.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2082	2082	2082	2082	2082	
5°	2087	2082	2066	2082	2079	198
15°	2015	2007	1991	2001	1993	568
25°	1860	1851	1830	1825	1817	856
35°	1635	1619	1570	1536	1514	1021
45°	1332	1292	1191	1116	1086	1027
55°	963	907	779	704	682	865
65°	586	532	476	447	436	585
75°	257	268	262	252	252	279
85°	51	72	75	75	78	61
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2081.5	2081.5	2081.5	2081.5	2081.5
2.5°	2092.2	2086.9	2070.8	2086.9	2084.2
5°	2086.9	2081.5	2065.5	2081.5	2078.9
7.5°	2076.2	2073.5	2054.8	2070.8	2068.2
10°	2060.1	2057.5	2038.7	2052.1	2046.8
12.5°	2038.7	2036.1	2017.3	2028.0	2022.7
15°	2014.7	2006.6	1990.6	2001.3	1993.2
17.5°	1982.5	1974.5	1955.8	1963.8	1961.1
20°	1945.1	1937.1	1918.3	1926.4	1921.0
22.5°	1905.0	1896.9	1875.5	1878.2	1870.2
25°	1859.5	1851.4	1830.0	1824.7	1816.7
27.5°	1808.6	1803.3	1771.2	1765.8	1757.8
30°	1755.1	1747.1	1712.3	1701.6	1685.6
32.5°	1698.9	1682.9	1645.4	1624.0	1605.3
35°	1634.7	1618.7	1570.5	1535.7	1514.3
37.5°	1565.2	1541.1	1487.6	1439.4	1418.0
40°	1492.9	1466.2	1396.6	1332.4	1313.7
42.5°	1415.3	1383.2	1294.9	1228.1	1195.9
45°	1332.4	1292.3	1190.6	1115.7	1086.3
47.5°	1249.5	1198.6	1088.9	1008.7	976.6
50°	1161.2	1099.6	981.9	896.3	864.2
52.5°	1070.2	1003.3	882.9	794.6	770.5
55°	963.2	907.0	778.6	703.7	682.3
57.5°	866.9	805.3	693.0	628.7	612.7
60°	781.2	706.3	607.3	559.2	545.8
62.5°	682.3	615.4	537.8	500.3	486.9
65°	585.9	532.4	476.2	446.8	436.1
67.5°	503.0	457.5	420.1	396.0	390.6
70°	412.0	387.9	366.5	347.8	347.8
72.5°	334.4	326.4	313.0	302.3	294.3
75°	256.8	267.6	262.2	251.5	251.5
77.5°	195.3	211.4	214.0	208.7	211.4
80°	136.5	160.5	165.9	163.2	165.9
82.5°	85.6	115.0	120.4	120.4	123.1
85°	50.8	72.2	74.9	74.9	77.6
87.5°	21.4	34.8	37.5	37.5	37.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)