

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: P689001

Luminaire Tested: SQ4R-PW1-125D-92765-1-UNV-STD-W-4\_5700K

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P689001  
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\_5700K  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
1250 LUMENS PER FOOT  
Light Source: 5700K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5091.8 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

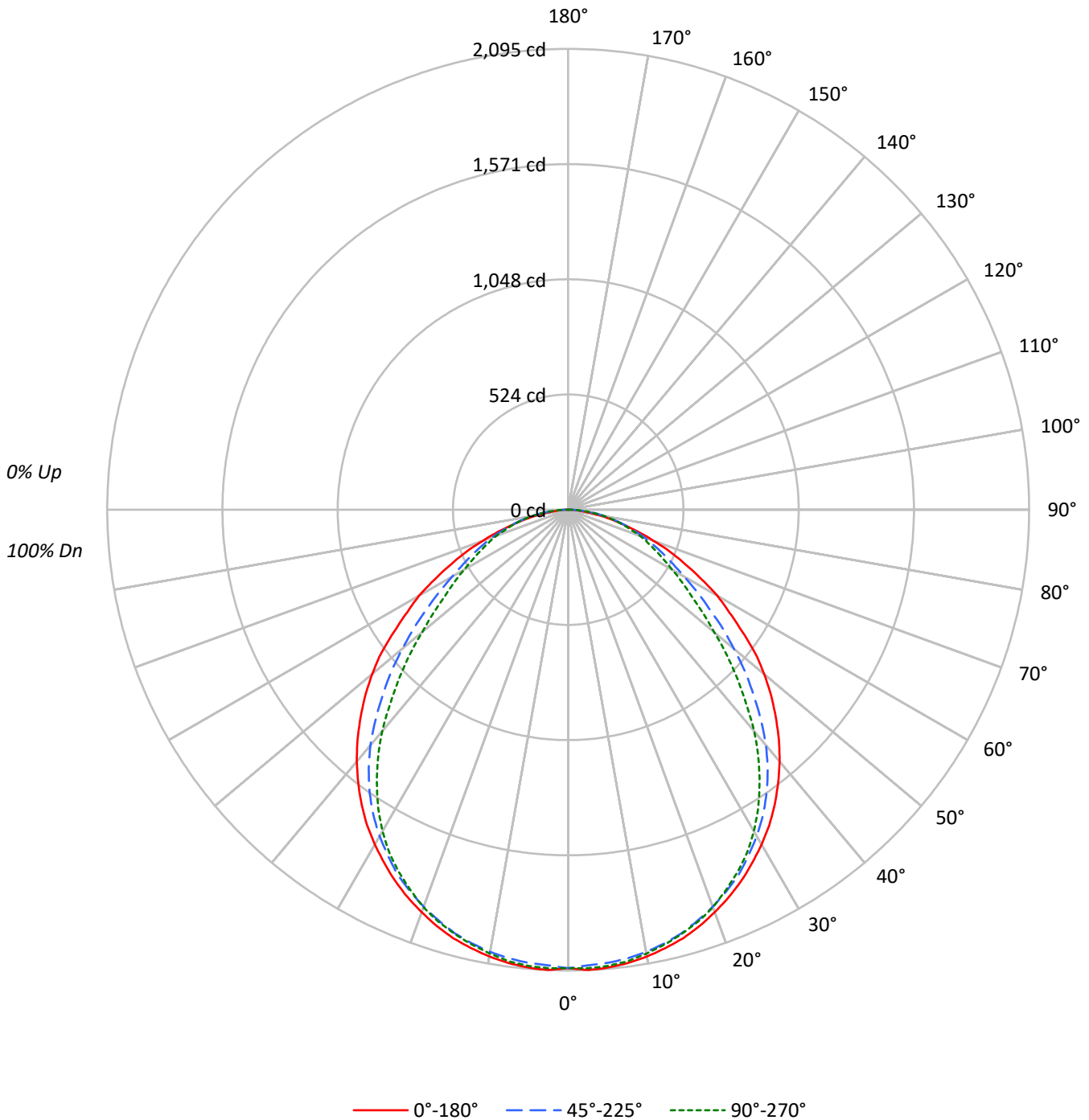
Input Watts (W): 61.3  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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°	20063	20063	20063
5°	20191	19984	20114
10°	20163	19954	20032
15°	20103	19863	19890
20°	19950	19677	19704
25°	19775	19463	19320
30°	19534	19057	18759
35°	19235	18479	17818
40°	18785	17572	16529
45°	18161	16229	14806
50°	17411	14723	12959
55°	16186	13084	11464
60°	15061	11707	10521
65°	13363	10862	9946
70°	11611	10330	9801
75°	9563	9764	9366
80°	7573	9209	9209
85°	5622	8285	8583

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 18161 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	197.7	3.9
10°-20°	564.7	11.1
20°-30°	845.9	16.6
30°-40°	982.8	19.3
40°-50°	927.3	18.2
50°-60°	723.5	14.2
60°-70°	491.1	9.6
70°-80°	276.6	5.4
80°-90°	82.1	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°	1608.4	31.6
0°-40°	2591.2	50.9
0°-60°	4242.0	83.3
0°-90°	5091.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5091.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2084	2084	2084	2084	2084	
5°	2089	2084	2068	2084	2081	199
15°	2017	2009	1993	2004	1996	569
25°	1862	1854	1832	1827	1819	857
35°	1637	1621	1572	1538	1516	1022
45°	1334	1294	1192	1117	1088	1029
55°	964	908	780	704	683	866
65°	587	533	477	447	437	586
75°	257	268	262	252	252	280
85°	51	72	75	75	78	62
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2084.0	2084.0	2084.0	2084.0	2084.0
2.5°	2094.7	2089.3	2073.2	2089.3	2086.6
5°	2089.3	2084.0	2067.9	2084.0	2081.3
7.5°	2078.6	2075.9	2057.2	2073.2	2070.6
10°	2062.5	2059.8	2041.1	2054.5	2049.1
12.5°	2041.1	2038.4	2019.7	2030.4	2025.0
15°	2017.0	2008.9	1992.9	2003.6	1995.6
17.5°	1984.8	1976.8	1958.1	1966.1	1963.4
20°	1947.3	1939.3	1920.6	1928.6	1923.2
22.5°	1907.2	1899.1	1877.7	1880.4	1872.3
25°	1861.6	1853.6	1832.2	1826.8	1818.8
27.5°	1810.7	1805.4	1773.2	1767.9	1759.8
30°	1757.2	1749.1	1714.3	1703.6	1687.5
32.5°	1700.9	1684.8	1647.3	1625.9	1607.2
35°	1636.6	1620.6	1572.3	1537.5	1516.1
37.5°	1567.0	1542.9	1489.3	1441.1	1419.7
40°	1494.7	1467.9	1398.2	1333.9	1315.2
42.5°	1417.0	1384.8	1296.4	1229.5	1197.3
45°	1333.9	1293.8	1192.0	1117.0	1087.5
47.5°	1250.9	1200.0	1090.2	1009.8	977.7
50°	1162.5	1100.9	983.0	897.3	865.2
52.5°	1071.4	1004.5	883.9	795.5	771.4
55°	964.3	908.0	779.5	704.5	683.0
57.5°	867.9	806.3	693.8	629.5	613.4
60°	782.2	707.2	608.0	559.8	546.4
62.5°	683.0	616.1	538.4	500.9	487.5
65°	586.6	533.0	476.8	447.3	436.6
67.5°	503.6	458.0	420.5	396.4	391.1
70°	412.5	388.4	367.0	348.2	348.2
72.5°	334.8	326.8	313.4	302.7	294.6
75°	257.1	267.9	262.5	251.8	251.8
77.5°	195.5	211.6	214.3	208.9	211.6
80°	136.6	160.7	166.1	163.4	166.1
82.5°	85.7	115.2	120.5	120.5	123.2
85°	50.9	72.3	75.0	75.0	77.7
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)