

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: P689000

Luminaire Tested: SQ4R-PW1-125D-92765-1-UNV-STD-W-4\_5000K

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P689000  
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\_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: 4978.7 lumens  
Efficiency: N/A  
Efficacy: 81.2 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

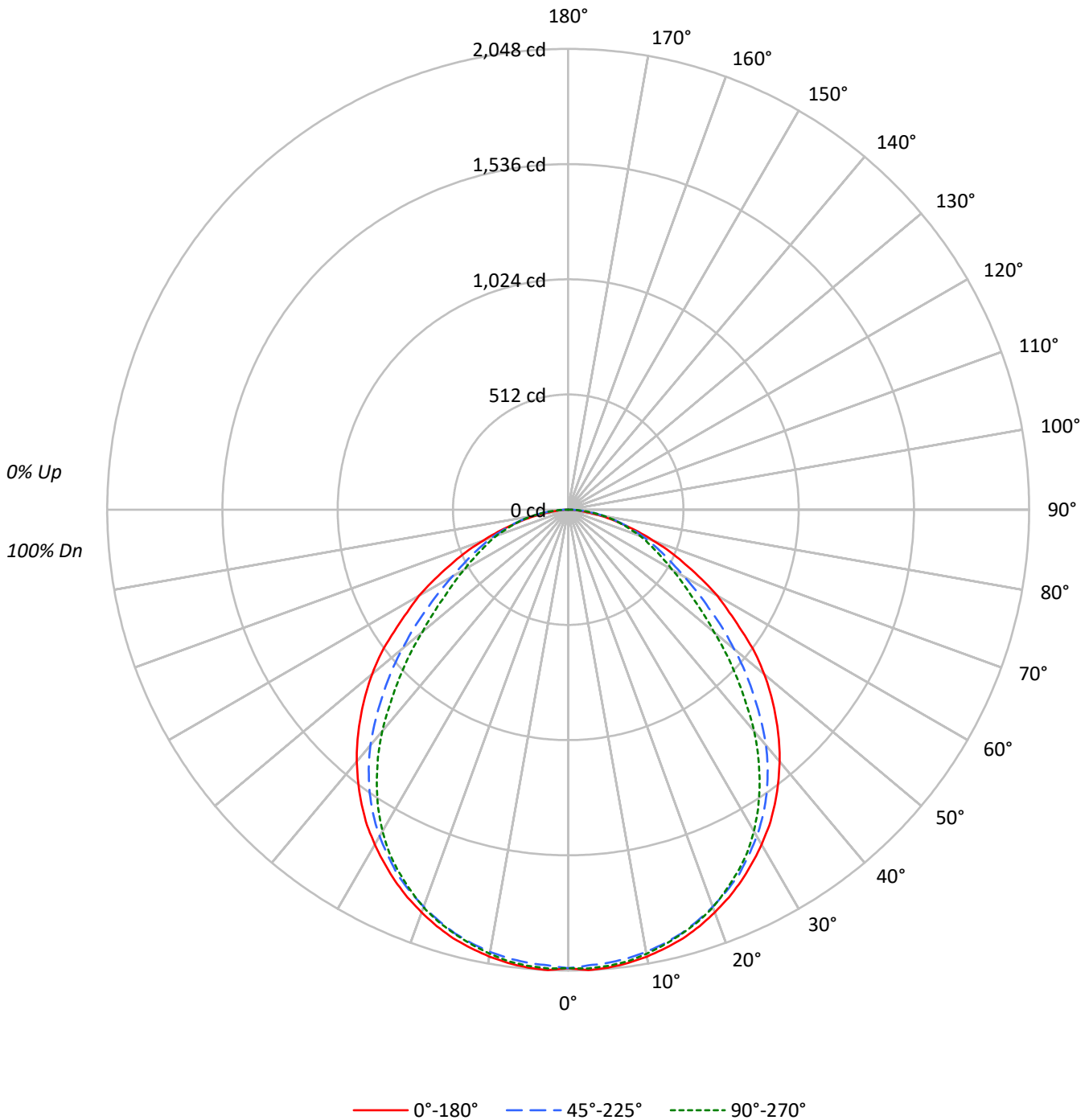
Input Watts (W): 61.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	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°	19617	19617	19617
5°	19743	19540	19666
10°	19715	19510	19587
15°	19657	19422	19448
20°	19508	19239	19266
25°	19335	19029	18890
30°	19100	18634	18343
35°	18807	18069	17422
40°	18366	17182	16162
45°	17758	15868	14477
50°	17025	14396	12671
55°	15826	12792	11211
60°	14726	11447	10288
65°	13067	10620	9725
70°	11352	10100	9585
75°	9351	9549	9158
80°	7407	9004	9004
85°	5501	8097	8395

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 17758 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	193.3	3.9
10°-20°	552.2	11.1
20°-30°	827.1	16.6
30°-40°	961.0	19.3
40°-50°	906.7	18.2
50°-60°	707.4	14.2
60°-70°	480.2	9.6
70°-80°	270.4	5.4
80°-90°	80.3	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°	1572.6	31.6
0°-40°	2533.6	50.9
0°-60°	4147.7	83.3
0°-90°	4978.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4978.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2038	2038	2038	2038	2038	
5°	2043	2038	2022	2038	2035	194
15°	1972	1964	1949	1959	1951	556
25°	1820	1812	1791	1786	1778	838
35°	1600	1584	1537	1503	1482	1000
45°	1304	1265	1166	1092	1063	1006
55°	943	888	762	689	668	847
65°	574	521	466	437	427	573
75°	251	262	257	246	246	274
85°	50	71	73	73	76	60
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2037.6	2037.6	2037.6	2037.6	2037.6
2.5°	2048.1	2042.9	2027.2	2042.9	2040.3
5°	2042.9	2037.6	2021.9	2037.6	2035.0
7.5°	2032.4	2029.8	2011.4	2027.2	2024.5
10°	2016.7	2014.1	1995.7	2008.8	2003.6
12.5°	1995.7	1993.1	1974.8	1985.3	1980.0
15°	1972.2	1964.3	1948.6	1959.1	1951.2
17.5°	1940.7	1932.9	1914.5	1922.4	1919.8
20°	1904.1	1896.2	1877.9	1885.7	1880.5
22.5°	1864.8	1856.9	1836.0	1838.6	1830.7
25°	1820.2	1812.4	1791.4	1786.2	1778.3
27.5°	1770.5	1765.2	1733.8	1728.6	1720.7
30°	1718.1	1710.2	1676.2	1665.7	1650.0
32.5°	1663.1	1647.4	1610.7	1589.8	1571.4
35°	1600.2	1584.5	1537.4	1503.3	1482.4
37.5°	1532.2	1508.6	1456.2	1409.1	1388.1
40°	1461.4	1435.2	1367.2	1304.3	1286.0
42.5°	1385.5	1354.1	1267.6	1202.2	1170.7
45°	1304.3	1265.0	1165.5	1092.1	1063.3
47.5°	1223.1	1173.3	1066.0	987.4	956.0
50°	1136.7	1076.4	961.2	877.4	846.0
52.5°	1047.6	982.1	864.3	777.9	754.3
55°	942.9	887.9	762.1	688.8	667.9
57.5°	848.6	788.3	678.3	615.5	599.8
60°	764.8	691.4	594.5	547.4	534.3
62.5°	667.9	602.4	526.4	489.8	476.7
65°	573.6	521.2	466.2	437.4	426.9
67.5°	492.4	447.9	411.2	387.6	382.4
70°	403.3	379.8	358.8	340.5	340.5
72.5°	327.4	319.5	306.4	296.0	288.1
75°	251.4	261.9	256.7	246.2	246.2
77.5°	191.2	206.9	209.5	204.3	206.9
80°	133.6	157.1	162.4	159.8	162.4
82.5°	83.8	112.6	117.9	117.9	120.5
85°	49.8	70.7	73.3	73.3	76.0
87.5°	21.0	34.0	36.7	36.7	36.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)