

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: P688998

Luminaire Tested: SQ4R-PW1-125D-92765-1-UNV-STD-W-4\_4000K

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688998  
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\_4000K  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
1250 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4782.3 lumens  
Efficiency: N/A  
Efficacy: 78.1 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

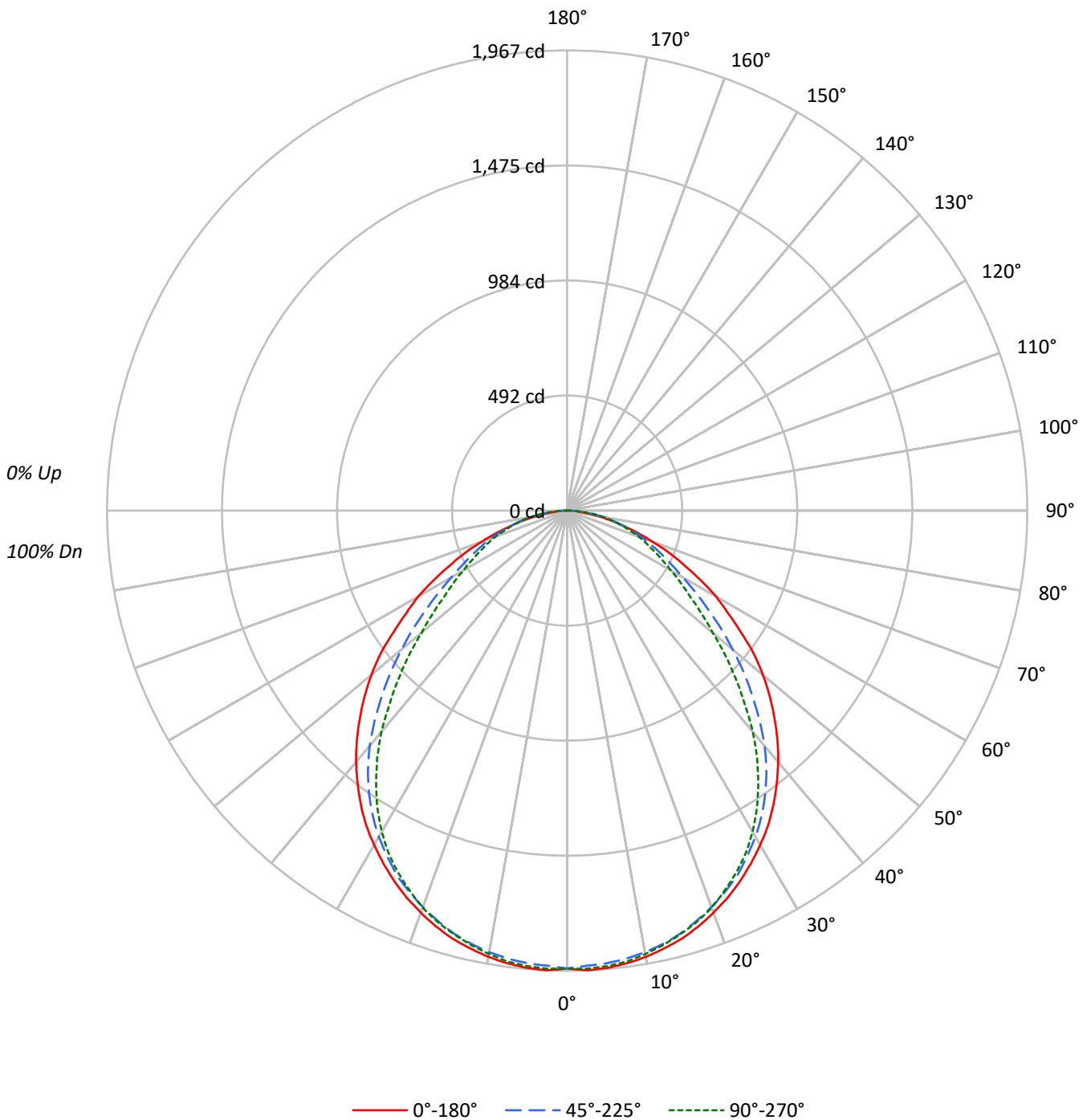
Input Watts (W): 61.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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°	18844	18844	18844
5°	18964	18770	18891
10°	18938	18740	18815
15°	18881	18656	18681
20°	18738	18480	18506
25°	18574	18279	18146
30°	18347	17899	17620
35°	18066	17357	16735
40°	17642	16504	15525
45°	17058	15242	13906
50°	16354	13829	12171
55°	15202	12288	10767
60°	14144	10996	9882
65°	12552	10201	9342
70°	10905	9703	9207
75°	8983	9169	8797
80°	7113	8649	8649
85°	5280	7776	8064

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 17058 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	185.7	3.9
10°-20°	530.4	11.1
20°-30°	794.5	16.6
30°-40°	923.1	19.3
40°-50°	870.9	18.2
50°-60°	679.5	14.2
60°-70°	461.3	9.6
70°-80°	259.8	5.4
80°-90°	77.1	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°	1510.6	31.6
0°-40°	2433.7	50.9
0°-60°	3984.2	83.3
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°	1957	1957	1957	1957	1957	
5°	1962	1957	1942	1957	1955	186
15°	1894	1887	1872	1882	1874	534
25°	1748	1741	1721	1716	1708	805
35°	1537	1522	1477	1444	1424	960
45°	1253	1215	1120	1049	1021	966
55°	906	853	732	662	642	813
65°	551	501	448	420	410	550
75°	242	252	246	236	236	263
85°	48	68	70	70	73	58
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1957.3	1957.3	1957.3	1957.3	1957.3
2.5°	1967.4	1962.3	1947.2	1962.3	1959.8
5°	1962.3	1957.3	1942.2	1957.3	1954.8
7.5°	1952.3	1949.7	1932.1	1947.2	1944.7
10°	1937.2	1934.7	1917.0	1929.6	1924.6
12.5°	1917.0	1914.5	1896.9	1907.0	1901.9
15°	1894.4	1886.9	1871.8	1881.8	1874.3
17.5°	1864.2	1856.7	1839.1	1846.6	1844.1
20°	1829.0	1821.4	1803.8	1811.4	1806.3
22.5°	1791.3	1783.7	1763.6	1766.1	1758.5
25°	1748.5	1740.9	1720.8	1715.8	1708.2
27.5°	1700.7	1695.7	1665.5	1660.4	1652.9
30°	1650.4	1642.8	1610.1	1600.1	1585.0
32.5°	1597.5	1582.4	1547.2	1527.1	1509.5
35°	1537.2	1522.1	1476.8	1444.1	1423.9
37.5°	1471.7	1449.1	1398.8	1353.5	1333.4
40°	1403.8	1378.7	1313.2	1252.9	1235.3
42.5°	1330.9	1300.7	1217.6	1154.8	1124.6
45°	1252.9	1215.1	1119.5	1049.1	1021.4
47.5°	1174.9	1127.1	1023.9	948.5	918.3
50°	1091.9	1034.0	923.3	842.8	812.6
52.5°	1006.3	943.4	830.2	747.2	724.6
55°	905.7	852.9	732.1	661.7	641.5
57.5°	815.1	757.3	651.6	591.2	576.1
60°	734.6	664.2	571.1	525.8	513.2
62.5°	641.5	578.6	505.7	470.5	457.9
65°	551.0	500.6	447.8	420.1	410.1
67.5°	473.0	430.2	395.0	372.3	367.3
70°	387.4	364.8	344.7	327.1	327.1
72.5°	314.5	306.9	294.3	284.3	276.7
75°	241.5	251.6	246.5	236.5	236.5
77.5°	183.7	198.7	201.3	196.2	198.7
80°	128.3	150.9	156.0	153.5	156.0
82.5°	80.5	108.2	113.2	113.2	115.7
85°	47.8	67.9	70.4	70.4	73.0
87.5°	20.1	32.7	35.2	35.2	35.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)