

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: P688762

Luminaire Tested: SQ4R-PH1-125D-92765-1-UNV-STD-W-4\_3000K

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688762  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2203-586-36)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/22/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4R-PH1-125D-92765-1-UNV-STD-W-4\_3000K  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE HEX CONTINUOUS LENS.  
1250 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4424.2 lumens  
Efficiency: N/A  
Efficacy: 72.5 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.22 / 1.28  
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')  
CIE Type: Direct

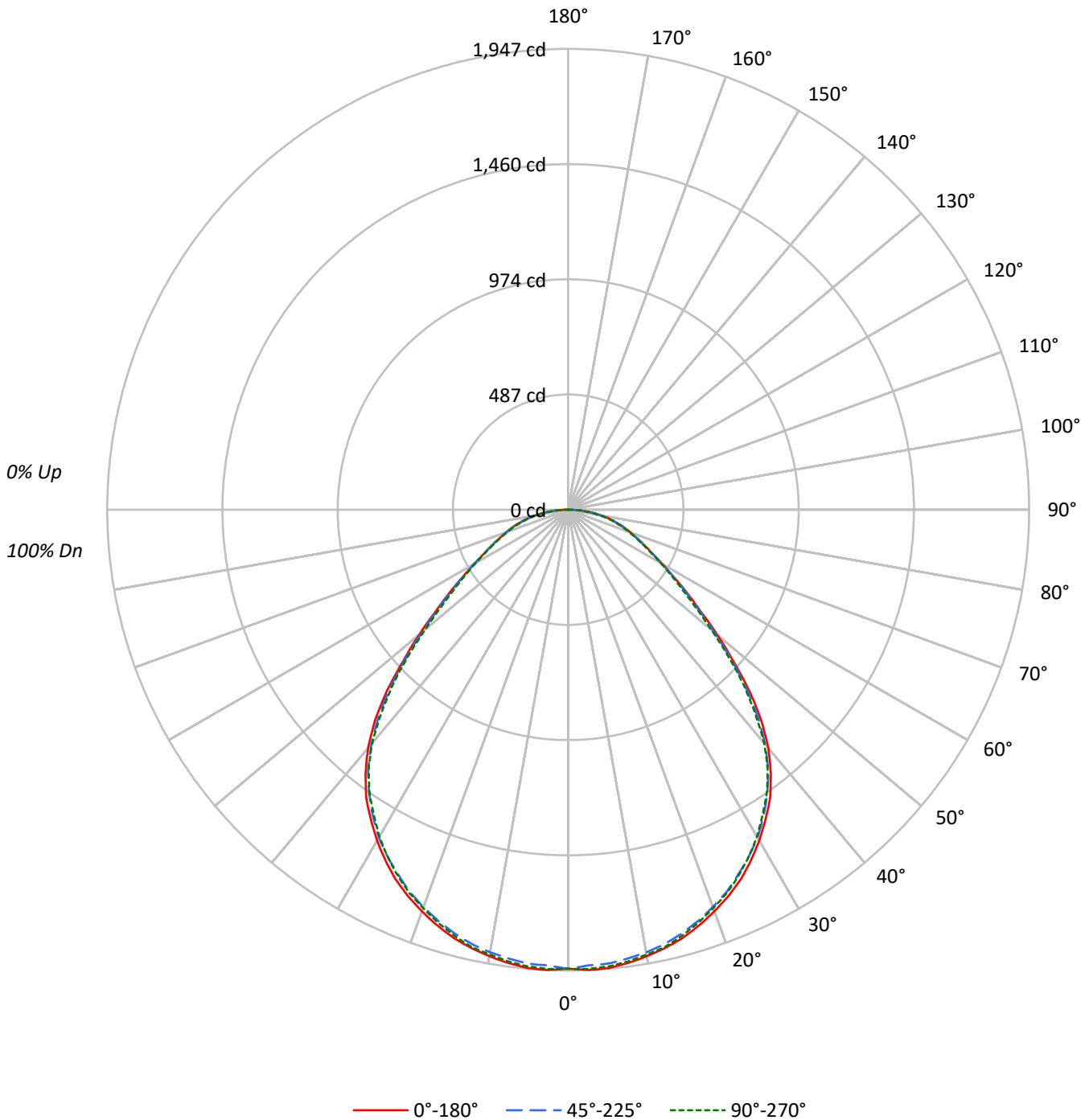
Input Watts (W): 61  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64
4	86	75	66	60	83	73	66	60	71	64	59	69	63	58	66	62	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	42	37	47	41	37	35
9	60	47	39	34	58	47	39	34	45	39	34	44	38	34	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	31	29

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

	0°	45°	90°
0°	18672	18672	18672
5°	18790	18605	18720
10°	18727	18562	18656
15°	18663	18472	18567
20°	18497	18301	18350
25°	18313	18059	18110
30°	17941	17781	17728
35°	17476	17223	17194
40°	16521	16250	16190
45°	14736	14443	14280
50°	12301	12049	11799
55°	10249	10128	9886
60°	8805	8851	8668
65°	8073	8019	7909
70°	7820	7752	7617
75°	7927	7748	7570
80°	7967	7834	7568
85°	7666	7666	7147

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 14736 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	183.9	4.2
10°-20°	525.5	11.9
20°-30°	787.3	17.8
30°-40°	916.1	20.7
40°-50°	814.7	18.4
50°-60°	547.1	12.4
60°-70°	353.6	8.0
70°-80°	220.4	5.0
80°-90°	75.5	1.7
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°	1496.8	33.8
0°-40°	2412.8	54.5
0°-60°	3774.6	85.3
0°-90°	4424.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4424.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1940	1940	1940	1940	1940	
5°	1944	1940	1925	1940	1937	185
15°	1872	1868	1853	1865	1863	528
25°	1724	1717	1700	1710	1705	793
35°	1487	1480	1465	1465	1463	924
45°	1082	1078	1061	1046	1049	827
55°	611	611	603	594	589	553
65°	354	357	352	350	347	355
75°	213	211	208	208	204	224
85°	69	72	69	67	65	77
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1939.5	1939.5	1939.5	1939.5	1939.5
2.5°	1946.7	1941.9	1927.6	1944.3	1941.9
5°	1944.3	1939.5	1925.2	1939.5	1937.1
7.5°	1932.4	1930.0	1913.2	1930.0	1925.2
10°	1915.6	1915.6	1898.8	1913.2	1908.4
12.5°	1896.4	1894.0	1879.7	1894.0	1891.6
15°	1872.5	1867.7	1853.3	1865.3	1862.9
17.5°	1841.4	1839.0	1822.2	1834.2	1829.4
20°	1805.4	1800.7	1786.3	1795.9	1791.1
22.5°	1767.1	1762.3	1748.0	1755.2	1752.8
25°	1724.0	1716.8	1700.1	1709.7	1704.9
27.5°	1671.4	1669.0	1652.2	1657.0	1652.2
30°	1613.9	1611.5	1599.5	1599.5	1594.7
32.5°	1551.6	1554.0	1534.9	1537.3	1527.7
35°	1487.0	1479.8	1465.4	1465.4	1463.0
37.5°	1405.6	1400.8	1388.8	1386.4	1384.0
40°	1314.6	1309.8	1293.0	1288.2	1288.2
42.5°	1206.8	1202.0	1185.3	1178.1	1168.5
45°	1082.3	1077.5	1060.8	1046.4	1048.8
47.5°	943.4	948.2	931.5	919.5	917.1
50°	821.3	818.9	804.5	797.4	787.8
52.5°	704.0	706.4	694.4	689.6	677.6
55°	610.6	610.6	603.4	593.8	589.0
57.5°	526.8	531.6	524.4	519.6	514.8
60°	457.3	459.7	459.7	450.2	450.2
62.5°	399.9	402.3	399.9	395.1	395.1
65°	354.4	356.8	352.0	349.6	347.2
67.5°	313.7	316.1	313.7	311.3	306.5
70°	277.8	277.8	275.4	275.4	270.6
72.5°	246.6	244.2	241.8	241.8	239.4
75°	213.1	210.7	208.3	208.3	203.5
77.5°	179.6	177.2	177.2	172.4	170.0
80°	143.7	143.7	141.3	138.9	136.5
82.5°	110.1	107.8	105.4	103.0	100.6
85°	69.4	71.8	69.4	67.0	64.7
87.5°	31.1	33.5	33.5	33.5	31.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)