

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: P688684

Luminaire Tested: SQ4R-PC3-125D-92765-1-UNV-STD-W-4\_3000K

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688684  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/22/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4R-PC3-125D-92765-1-UNV-STD-W-4\_3000K  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PYRAMID 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: 4613.0 lumens  
Efficiency: N/A  
Efficacy: 75.6 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')  
CIE Type: Direct

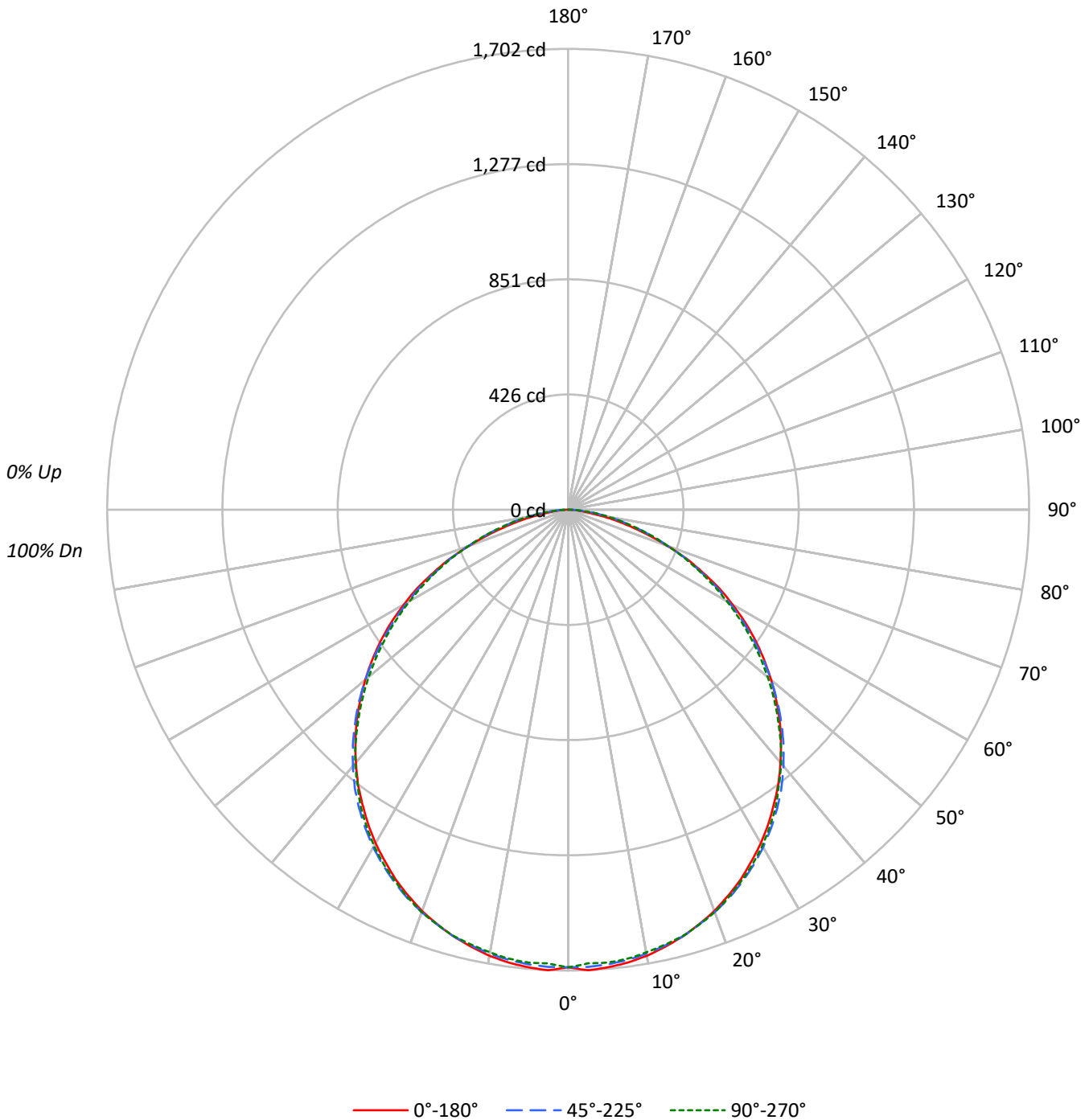
Input Watts (W): 61  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	54	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

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

	0°	45°	90°
0°	16270	16270	16270
5°	16392	16287	16226
10°	16353	16276	16230
15°	16267	16267	16251
20°	16160	16208	16208
25°	16007	16123	16073
30°	15812	16004	15934
35°	15577	15816	15705
40°	15320	15536	15379
45°	15041	15148	14913
50°	14648	14648	14413
55°	14183	13998	13789
60°	13498	13226	13016
65°	12477	12226	12119
70°	10924	11012	10967
75°	8790	9720	9779
80°	6248	8244	8327
85°	3800	6915	6915

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 15148 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	160.0	3.5
10°-20°	459.2	10.0
20°-30°	695.4	15.1
30°-40°	833.8	18.1
40°-50°	850.1	18.4
50°-60°	742.0	16.1
60°-70°	531.3	11.5
70°-80°	272.9	5.9
80°-90°	68.3	1.5
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°	1314.6	28.5
0°-40°	2148.5	46.6
0°-60°	3740.6	81.1
0°-90°	4613.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4613.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1690	1690	1690	1690	1690	
5°	1696	1679	1685	1681	1679	161
15°	1632	1618	1632	1632	1630	460
25°	1507	1496	1518	1513	1513	694
35°	1325	1322	1346	1336	1336	829
45°	1105	1102	1113	1098	1095	851
55°	845	834	834	822	822	754
65°	548	535	537	532	532	542
75°	236	247	261	263	263	254
85°	34	53	63	64	63	46
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1690.0	1690.0	1690.0	1690.0	1690.0
2.5°	1702.5	1683.7	1690.0	1685.3	1677.4
5°	1696.2	1679.0	1685.3	1680.6	1679.0
7.5°	1686.8	1669.6	1677.4	1674.3	1672.8
10°	1672.8	1655.5	1664.9	1661.8	1660.2
12.5°	1654.0	1638.3	1649.3	1646.2	1646.2
15°	1632.1	1618.0	1632.1	1632.1	1630.5
17.5°	1605.5	1592.9	1607.0	1608.6	1607.0
20°	1577.3	1563.2	1582.0	1580.4	1582.0
22.5°	1542.9	1531.9	1552.3	1547.6	1549.1
25°	1506.9	1495.9	1517.8	1513.1	1513.1
27.5°	1464.6	1456.8	1480.3	1475.6	1475.6
30°	1422.4	1414.6	1439.6	1433.3	1433.3
32.5°	1375.4	1370.7	1394.2	1386.4	1386.4
35°	1325.4	1322.2	1345.7	1336.3	1336.3
37.5°	1275.3	1272.2	1294.1	1283.1	1278.4
40°	1219.0	1217.4	1236.2	1223.7	1223.7
42.5°	1162.6	1161.1	1176.7	1161.1	1161.1
45°	1104.7	1101.6	1112.6	1098.5	1095.3
47.5°	1042.1	1039.0	1046.8	1031.2	1029.6
50°	978.0	974.9	978.0	963.9	962.3
52.5°	912.3	906.0	906.0	891.9	891.9
55°	845.0	834.0	834.0	821.5	821.5
57.5°	774.6	760.5	762.0	751.1	749.5
60°	701.0	685.4	686.9	677.6	676.0
62.5°	629.0	610.3	615.0	604.0	604.0
65°	547.7	535.2	536.7	532.0	532.0
67.5°	472.6	460.0	467.9	463.2	463.2
70°	388.1	380.2	391.2	391.2	389.6
72.5°	309.8	311.4	325.5	325.5	327.0
75°	236.3	247.2	261.3	262.9	262.9
77.5°	169.0	187.8	203.4	203.4	203.4
80°	112.7	134.6	148.7	151.8	150.2
82.5°	67.3	90.8	101.7	104.8	103.3
85°	34.4	53.2	62.6	64.2	62.6
87.5°	12.5	26.6	31.3	31.3	28.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)