

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: P688831

Luminaire Tested: SQ4R-PP3-100D-92765-1-UNV-STD-W-4\_5000K

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688831  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-172-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/22/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4R-PP3-100D-92765-1-UNV-STD-W-4\_5000K  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
1000 LUMENS PER FOOT  
Light Source: 5000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4019.1 lumens  
Efficiency: N/A  
Efficacy: 86.6 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')  
CIE Type: Direct

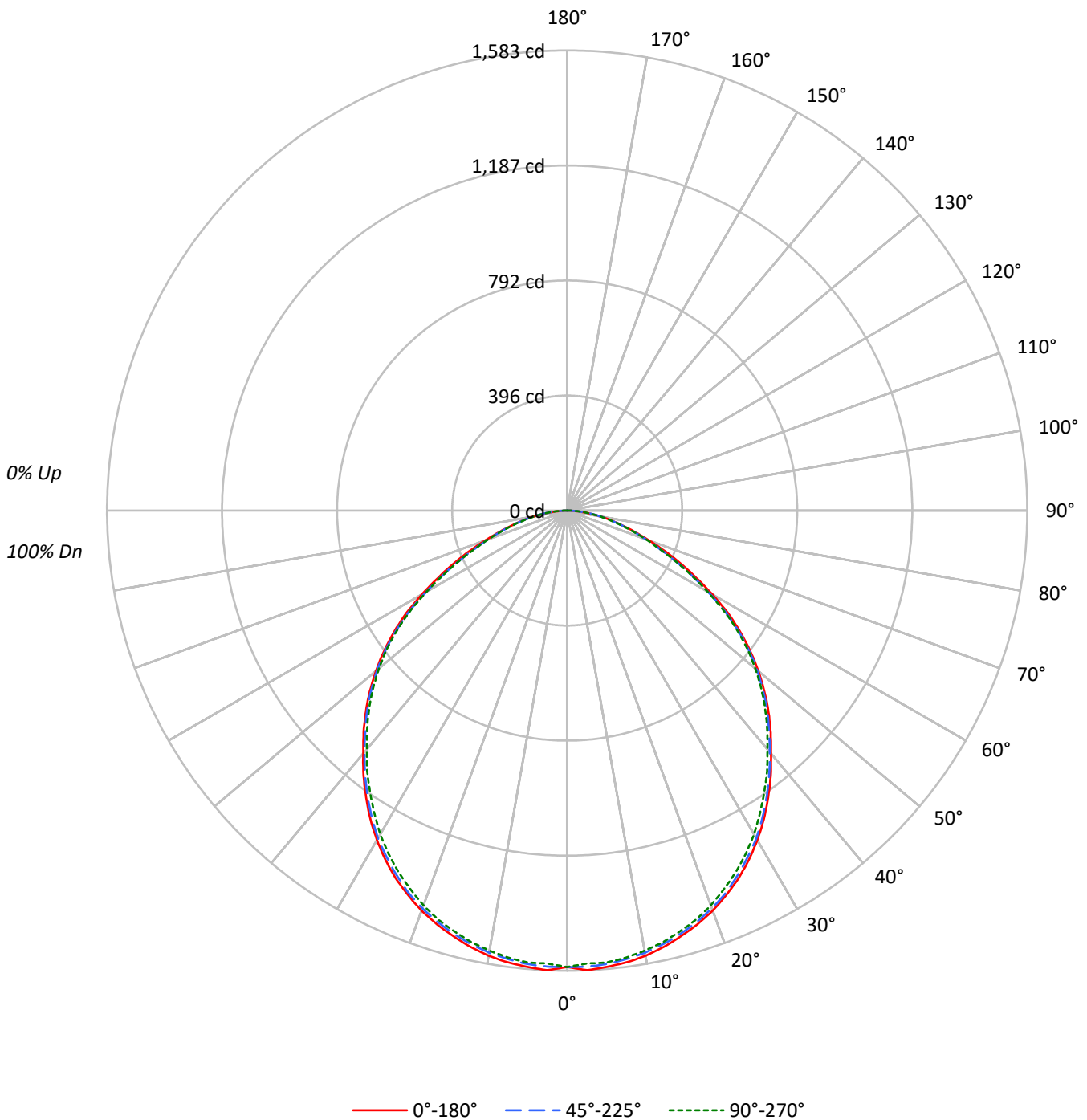
Input Watts (W): 46.4  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	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					100			
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87					85				
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74					72				
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63					61				
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55					53				
5	77	65	56	50	75	64	56	50	62	55	49	60	53	48	58	52	48					46				
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42					40				
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38					36				
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34					32				
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31					29				
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28					26				

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

	0°	45°	90°
0°	15119	15119	15119
5°	15230	15136	15083
10°	15203	15096	15028
15°	15103	15021	14938
20°	15003	14918	14805
25°	14825	14722	14576
30°	14551	14474	14291
35°	14169	14073	13894
40°	13716	13630	13474
45°	13341	13248	13117
50°	12863	12780	12657
55°	12197	12036	11942
60°	11104	10786	10733
65°	9782	9374	9342
70°	8445	8095	8095
75°	7268	7168	7064
80°	6409	6487	6331
85°	5015	5468	5468

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 13341 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	148.6	3.7
10°-20°	424.2	10.6
20°-30°	635.5	15.8
30°-40°	745.3	18.5
40°-50°	747.6	18.6
50°-60°	638.3	15.9
60°-70°	414.9	10.3
70°-80°	207.7	5.2
80°-90°	57.0	1.4
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°	1208.3	30.1
0°-40°	1953.6	48.6
0°-60°	3339.5	83.1
0°-90°	4019.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4019.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1570	1570	1570	1570	1570	
5°	1576	1561	1566	1561	1561	150
15°	1515	1500	1507	1502	1499	428
25°	1396	1379	1386	1374	1372	642
35°	1206	1193	1197	1184	1182	754
45°	980	973	973	963	963	755
55°	727	724	717	713	712	647
65°	429	421	412	409	410	428
75°	195	195	193	191	190	211
85°	45	50	50	50	50	54
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1570.4	1570.4	1570.4	1570.4	1570.4
2.5°	1582.7	1566.2	1570.4	1567.6	1559.4
5°	1575.9	1560.7	1566.2	1560.7	1560.7
7.5°	1567.6	1551.1	1556.6	1551.1	1551.1
10°	1555.2	1538.7	1544.2	1538.7	1537.3
12.5°	1537.3	1520.8	1527.7	1520.8	1520.8
15°	1515.3	1500.2	1507.1	1501.5	1498.8
17.5°	1491.9	1475.4	1483.7	1476.8	1475.4
20°	1464.4	1447.9	1456.1	1445.1	1445.1
22.5°	1431.4	1414.8	1424.5	1409.3	1409.3
25°	1395.6	1379.1	1385.9	1373.6	1372.2
27.5°	1354.3	1337.8	1344.6	1330.9	1330.9
30°	1308.9	1293.7	1302.0	1286.8	1285.5
32.5°	1259.3	1245.6	1251.1	1235.9	1234.5
35°	1205.6	1193.3	1197.4	1183.6	1182.2
37.5°	1150.6	1136.8	1142.3	1129.9	1129.9
40°	1091.4	1083.2	1084.5	1074.9	1072.1
42.5°	1036.4	1026.7	1028.1	1018.5	1018.5
45°	979.9	973.0	973.0	963.4	963.4
47.5°	920.7	915.2	913.9	905.6	905.6
50°	858.8	854.7	853.3	846.4	845.1
52.5°	794.1	792.8	787.2	781.7	781.7
55°	726.7	723.9	717.1	712.9	711.5
57.5°	655.1	649.6	642.7	635.9	637.2
60°	576.7	571.2	560.2	557.4	557.4
62.5°	501.0	494.1	483.1	479.0	481.7
65°	429.4	421.1	411.5	408.8	410.1
67.5°	363.3	355.1	344.1	344.1	342.7
70°	300.0	295.9	287.6	287.6	287.6
72.5°	243.6	242.2	236.7	236.7	235.3
75°	195.4	195.4	192.7	191.3	189.9
77.5°	154.1	154.1	152.8	151.4	148.6
80°	115.6	118.4	117.0	115.6	114.2
82.5°	79.8	82.6	82.6	79.8	79.8
85°	45.4	49.5	49.5	49.5	49.5
87.5°	15.1	20.6	22.0	22.0	23.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)