

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: P688553

Luminaire Tested: SQ4R-PP3-100D-940-1-UNV-STD-W-4

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688553  
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-940-1-UNV-STD-W-4  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
1000 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3308.9 lumens  
Efficiency: N/A  
Efficacy: 89.4 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

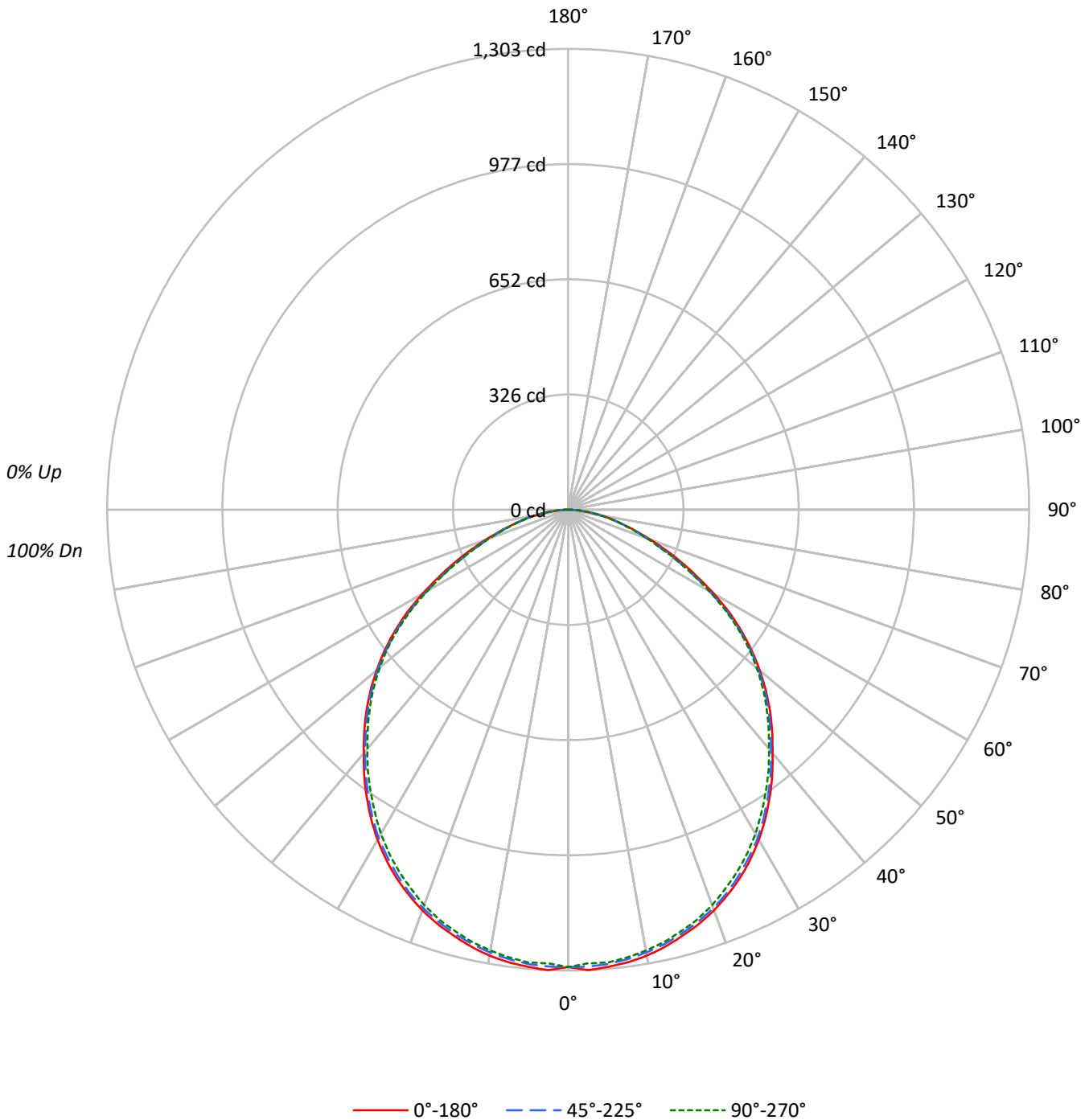
Input Watts (W): 37  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	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	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°	12447	12447	12447
5°	12538	12462	12418
10°	12517	12429	12373
15°	12435	12367	12299
20°	12352	12282	12190
25°	12205	12121	12000
30°	11979	11916	11765
35°	11666	11586	11440
40°	11293	11222	11093
45°	10985	10907	10800
50°	10591	10522	10420
55°	10042	9910	9833
60°	9142	8880	8836
65°	8053	7718	7693
70°	6953	6666	6666
75°	5985	5899	5818
80°	5278	5339	5212
85°	4131	4507	4507

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 10985 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	122.3	3.7
10°-20°	349.3	10.6
20°-30°	523.2	15.8
30°-40°	613.6	18.5
40°-50°	615.5	18.6
50°-60°	525.6	15.9
60°-70°	341.6	10.3
70°-80°	171.0	5.2
80°-90°	46.9	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°	994.8	30.1
0°-40°	1608.4	48.6
0°-60°	2749.4	83.1
0°-90°	3308.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3308.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1293	1293	1293	1293	1293	
5°	1297	1285	1290	1285	1285	123
15°	1248	1235	1241	1236	1234	352
25°	1149	1135	1141	1131	1130	529
35°	993	982	986	974	973	620
45°	807	801	801	793	793	622
55°	598	596	590	587	586	532
65°	354	347	339	336	338	352
75°	161	161	159	158	156	174
85°	37	41	41	41	41	44
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1292.9	1292.9	1292.9	1292.9	1292.9
2.5°	1303.1	1289.5	1292.9	1290.6	1283.8
5°	1297.4	1285.0	1289.5	1285.0	1285.0
7.5°	1290.6	1277.0	1281.6	1277.0	1277.0
10°	1280.4	1266.8	1271.4	1266.8	1265.7
12.5°	1265.7	1252.1	1257.8	1252.1	1252.1
15°	1247.6	1235.1	1240.8	1236.2	1234.0
17.5°	1228.3	1214.7	1221.5	1215.8	1214.7
20°	1205.6	1192.0	1198.8	1189.8	1189.8
22.5°	1178.4	1164.9	1172.8	1160.3	1160.3
25°	1149.0	1135.4	1141.1	1130.9	1129.7
27.5°	1115.0	1101.4	1107.1	1095.7	1095.7
30°	1077.6	1065.1	1071.9	1059.5	1058.3
32.5°	1036.8	1025.5	1030.0	1017.5	1016.4
35°	992.6	982.4	985.8	974.5	973.4
37.5°	947.3	936.0	940.5	930.3	930.3
40°	898.6	891.8	892.9	885.0	882.7
42.5°	853.2	845.3	846.4	838.5	838.5
45°	806.8	801.1	801.1	793.2	793.2
47.5°	758.1	753.5	752.4	745.6	745.6
50°	707.1	703.7	702.5	696.9	695.7
52.5°	653.8	652.7	648.1	643.6	643.6
55°	598.3	596.0	590.4	587.0	585.8
57.5°	539.4	534.8	529.2	523.5	524.6
60°	474.8	470.2	461.2	458.9	458.9
62.5°	412.5	406.8	397.7	394.3	396.6
65°	353.5	346.7	338.8	336.5	337.7
67.5°	299.1	292.3	283.3	283.3	282.1
70°	247.0	243.6	236.8	236.8	236.8
72.5°	200.6	199.4	194.9	194.9	193.8
75°	160.9	160.9	158.6	157.5	156.4
77.5°	126.9	126.9	125.8	124.6	122.4
80°	95.2	97.4	96.3	95.2	94.0
82.5°	65.7	68.0	68.0	65.7	65.7
85°	37.4	40.8	40.8	40.8	40.8
87.5°	12.5	17.0	18.1	18.1	19.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)