

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: P688624

Luminaire Tested: SQ4R-PW1-100D-935-1-UNV-STD-W-4

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688624  
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-PW1-100D-935-1-UNV-STD-W-4  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
1000 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3177.8 lumens  
Efficiency: N/A  
Efficacy: 85.9 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

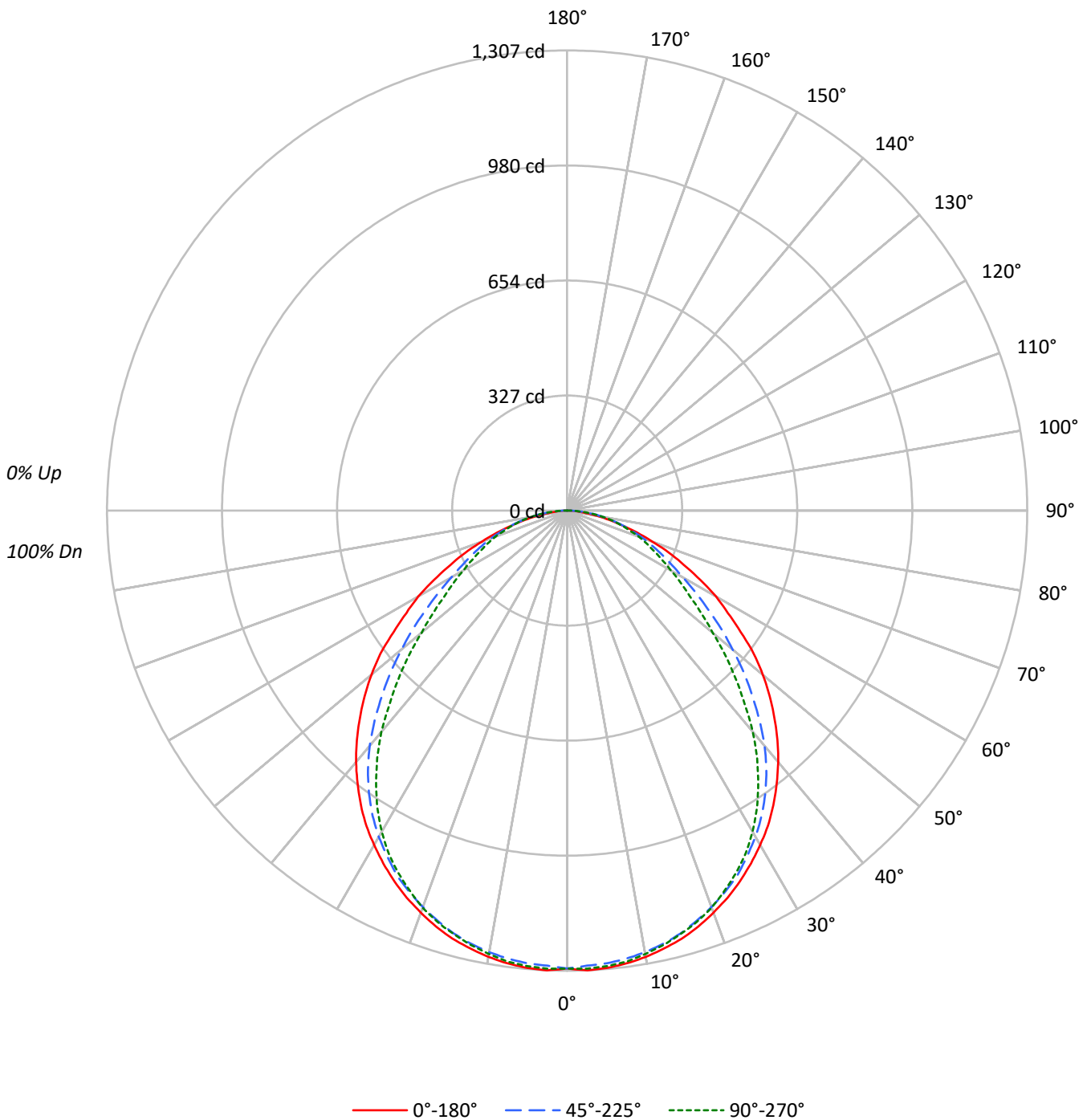
Input Watts (W): 37  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot



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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20				
RC	80					70					50					30				
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°	12521	12521	12521
5°	12601	12473	12553
10°	12583	12452	12502
15°	12546	12396	12413
20°	12451	12280	12297
25°	12341	12146	12058
30°	12191	11894	11708
35°	12004	11533	11121
40°	11723	10966	10315
45°	11335	10128	9241
50°	10866	9189	8088
55°	10101	8166	7155
60°	9398	7307	6566
65°	8340	6779	6208
70°	7245	6446	6117
75°	5970	6093	5844
80°	4729	5744	5744
85°	3513	5170	5357

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 11335 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	123.4	3.9
10°-20°	352.4	11.1
20°-30°	527.9	16.6
30°-40°	613.4	19.3
40°-50°	578.7	18.2
50°-60°	451.5	14.2
60°-70°	306.5	9.6
70°-80°	172.6	5.4
80°-90°	51.2	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°	1003.8	31.6
0°-40°	1617.1	50.9
0°-60°	2647.4	83.3
0°-90°	3177.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3177.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1301	1301	1301	1301	1301	
5°	1304	1301	1291	1301	1299	124
15°	1259	1254	1244	1250	1245	355
25°	1162	1157	1143	1140	1135	535
35°	1021	1011	981	960	946	638
45°	832	807	744	697	679	642
55°	602	567	486	440	426	540
65°	366	333	298	279	272	366
75°	160	167	164	157	157	175
85°	32	45	47	47	48	38
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1300.6	1300.6	1300.6	1300.6	1300.6
2.5°	1307.3	1303.9	1293.9	1303.9	1302.3
5°	1303.9	1300.6	1290.6	1300.6	1298.9
7.5°	1297.2	1295.6	1283.9	1293.9	1292.2
10°	1287.2	1285.5	1273.8	1282.2	1278.9
12.5°	1273.8	1272.2	1260.5	1267.2	1263.8
15°	1258.8	1253.8	1243.7	1250.4	1245.4
17.5°	1238.7	1233.7	1222.0	1227.0	1225.4
20°	1215.3	1210.3	1198.6	1203.6	1200.3
22.5°	1190.3	1185.2	1171.9	1173.5	1168.5
25°	1161.8	1156.8	1143.4	1140.1	1135.1
27.5°	1130.1	1126.7	1106.7	1103.3	1098.3
30°	1096.6	1091.6	1069.9	1063.2	1053.2
32.5°	1061.5	1051.5	1028.1	1014.7	1003.0
35°	1021.4	1011.4	981.3	959.6	946.2
37.5°	977.9	962.9	929.5	899.4	886.0
40°	932.8	916.1	872.6	832.5	820.8
42.5°	884.3	864.3	809.1	767.3	747.3
45°	832.5	807.4	743.9	697.1	678.7
47.5°	780.7	748.9	680.4	630.2	610.2
50°	725.5	687.1	613.5	560.0	540.0
52.5°	668.7	626.9	551.7	496.5	481.5
55°	601.8	566.7	486.5	439.7	426.3
57.5°	541.6	503.2	433.0	392.9	382.8
60°	488.1	441.3	379.5	349.4	341.0
62.5°	426.3	384.5	336.0	312.6	304.2
65°	366.1	332.7	297.6	279.2	272.5
67.5°	314.3	285.9	262.5	247.4	244.1
70°	257.4	242.4	229.0	217.3	217.3
72.5°	209.0	203.9	195.6	188.9	183.9
75°	160.5	167.2	163.8	157.1	157.1
77.5°	122.0	132.1	133.7	130.4	132.1
80°	85.3	100.3	103.6	102.0	103.6
82.5°	53.5	71.9	75.2	75.2	76.9
85°	31.8	45.1	46.8	46.8	48.5
87.5°	13.4	21.7	23.4	23.4	23.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)