

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: P688588

Luminaire Tested: SQ4R-PR1-100D-935-1-UNV-STD-W-4

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688588  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/22/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4R-PR1-100D-935-1-UNV-STD-W-4  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE RIPPLE 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: 3287.3 lumens  
Efficiency: N/A  
Efficacy: 88.8 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.23 / 1.34  
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')  
CIE Type: Direct

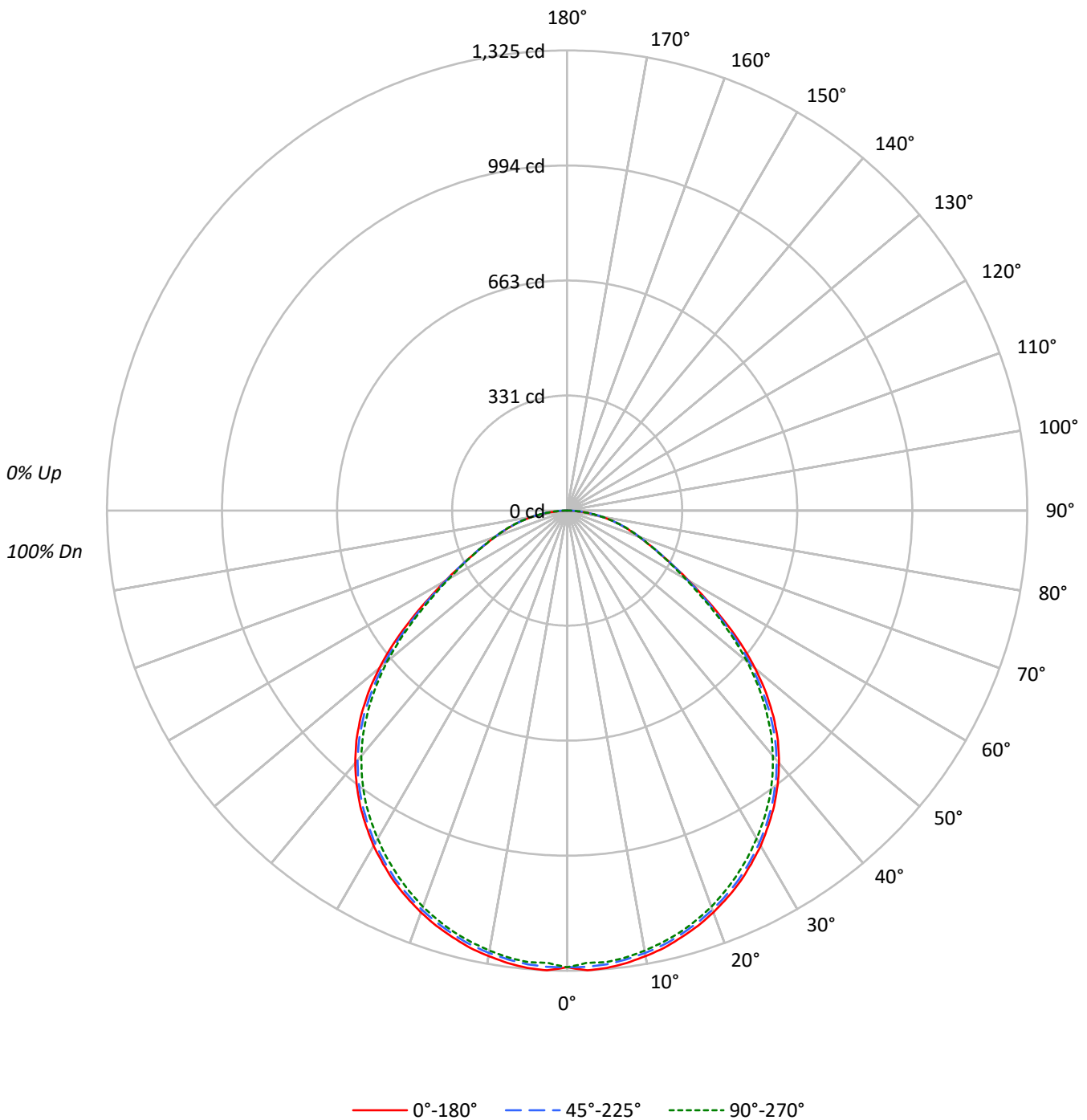
Input Watts (W): 37  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	110	105	101	98	107	103	99	96	99	96	93		95	92	90		91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78		84	80	76		81	78	75	72
3	92	82	74	68	90	80	73	68	78	71	66		75	70	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	58	50	44	57	49	44		55	49	44		53	48	43	41
7	67	54	46	40	65	53	45	39	52	44	39		50	44	39		49	43	39	37
8	63	49	41	36	61	49	41	35	47	40	35		46	40	35		45	39	35	33
9	58	45	37	32	57	45	37	32	44	37	32		43	36	32		42	36	31	30
10	55	42	34	29	54	41	34	29	40	34	29		40	33	29		39	33	29	27

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

	0°	45°	90°
0°	12659	12659	12659
5°	12773	12674	12610
10°	12733	12644	12578
15°	12677	12598	12530
20°	12613	12532	12439
25°	12524	12440	12296
30°	12390	12301	12125
35°	12206	12100	11927
40°	11928	11800	11586
45°	11442	11242	11011
50°	10585	10331	10128
55°	9238	9030	8841
60°	7785	7719	7567
65°	6734	6759	6709
70°	6184	6218	6218
75°	5940	5940	5981
80°	5589	5650	5589
85°	4507	5004	5004

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 11442 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	124.4	3.8
10°-20°	356.0	10.8
20°-30°	536.9	16.3
30°-40°	639.8	19.5
40°-50°	631.2	19.2
50°-60°	481.5	14.6
60°-70°	297.2	9.0
70°-80°	169.3	5.2
80°-90°	51.1	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°	1017.3	30.9
0°-40°	1657.1	50.4
0°-60°	2769.7	84.3
0°-90°	3287.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3287.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1315	1315	1315	1315	1315	
5°	1322	1307	1312	1307	1305	126
15°	1272	1258	1264	1259	1257	359
25°	1179	1164	1171	1159	1158	543
35°	1039	1026	1030	1016	1015	649
45°	840	829	826	811	809	645
55°	550	541	538	529	527	493
65°	296	293	297	294	294	298
75°	160	160	160	161	161	169
85°	41	43	45	45	45	48
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1314.9	1314.9	1314.9	1314.9	1314.9
2.5°	1325.1	1310.4	1314.9	1311.5	1303.6
5°	1321.7	1307.0	1311.5	1307.0	1304.8
7.5°	1313.8	1299.1	1303.6	1299.1	1298.0
10°	1302.5	1288.9	1293.4	1288.9	1286.6
12.5°	1290.0	1275.3	1281.0	1275.3	1273.0
15°	1271.9	1258.3	1264.0	1259.4	1257.2
17.5°	1253.8	1239.1	1244.7	1240.2	1236.8
20°	1231.1	1217.5	1223.2	1215.3	1214.1
22.5°	1206.2	1192.6	1198.3	1187.0	1187.0
25°	1179.0	1164.3	1171.1	1158.6	1157.5
27.5°	1147.3	1133.7	1139.4	1126.9	1125.8
30°	1114.5	1100.9	1106.5	1093.0	1090.7
32.5°	1077.1	1064.6	1069.2	1055.6	1054.4
35°	1038.6	1026.1	1029.5	1015.9	1014.8
37.5°	995.6	984.2	986.5	971.8	970.6
40°	949.1	937.8	938.9	923.1	921.9
42.5°	898.1	886.8	885.7	869.8	868.7
45°	840.4	829.1	825.7	810.9	808.7
47.5°	777.0	765.6	758.8	746.4	745.2
50°	706.7	695.4	689.8	679.6	676.2
52.5°	630.9	619.5	615.0	605.9	602.5
55°	550.4	541.4	538.0	528.9	526.7
57.5°	473.4	466.6	465.5	456.4	455.3
60°	404.3	400.9	400.9	393.0	393.0
62.5°	345.4	343.2	345.4	340.9	339.8
65°	295.6	293.3	296.7	294.5	294.5
67.5°	253.7	253.7	256.0	254.8	254.8
70°	219.7	219.7	220.9	220.9	220.9
72.5°	189.1	188.0	191.4	191.4	190.3
75°	159.7	159.7	159.7	160.8	160.8
77.5°	130.2	130.2	131.4	131.4	130.2
80°	100.8	101.9	101.9	100.8	100.8
82.5°	71.4	72.5	72.5	72.5	71.4
85°	40.8	43.0	45.3	45.3	45.3
87.5°	14.7	19.3	22.7	22.7	21.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)