

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: P688552

Luminaire Tested: SQ4R-PP3-100D-935-1-UNV-STD-W-4

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688552  
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-935-1-UNV-STD-W-4  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
1000 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

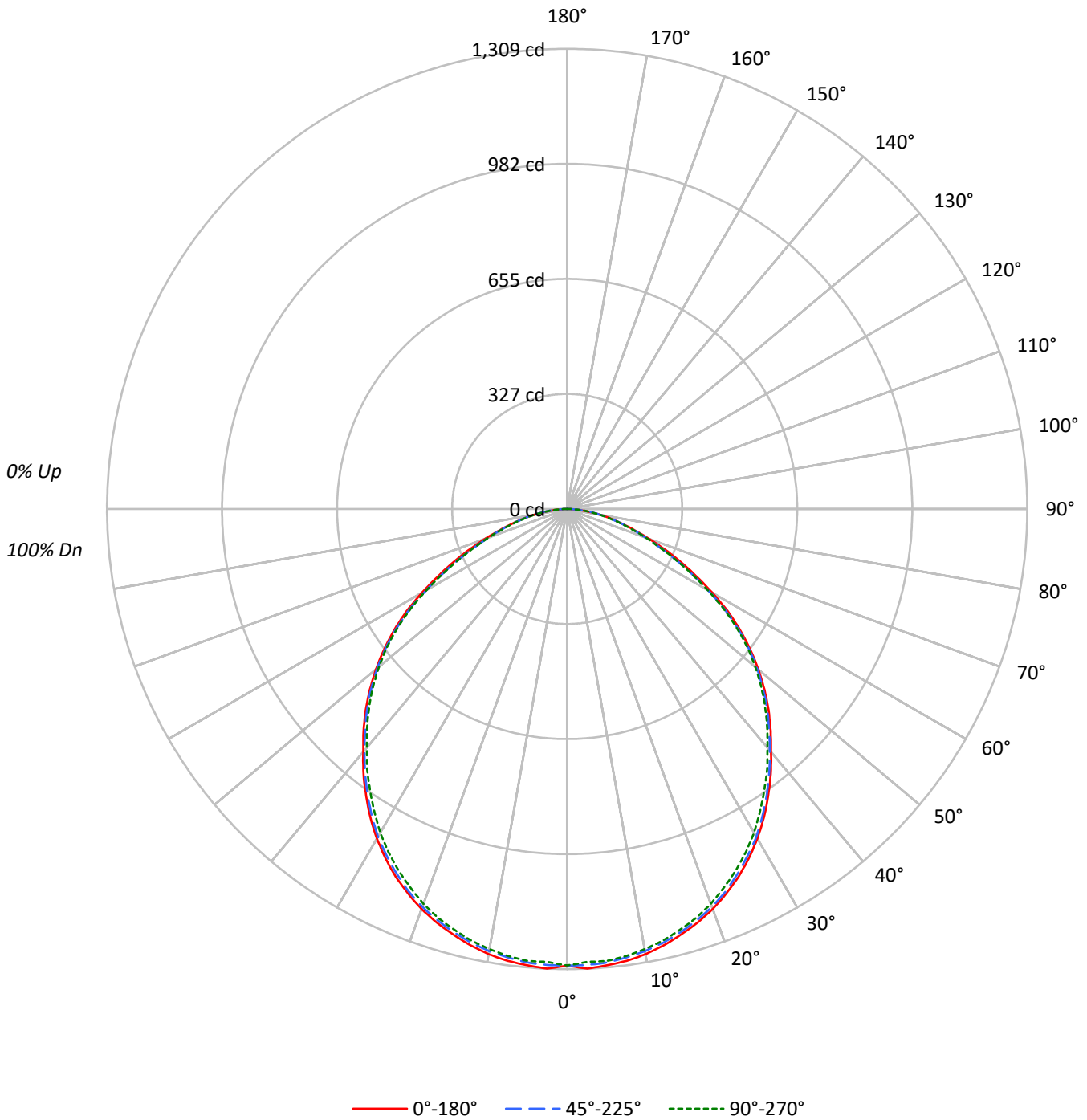
Lumens per Lamp: N/A  
Luminaire Lumens: 3323.7 lumens  
Efficiency: N/A  
Efficacy: 89.8 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')  
CIE Type: Direct

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

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

	0°	45°	90°
0°	12502	12502	12502
5°	12594	12517	12473
10°	12573	12484	12428
15°	12490	12422	12354
20°	12407	12337	12244
25°	12260	12175	12053
30°	12033	11969	11817
35°	11718	11638	11491
40°	11344	11272	11142
45°	11034	10956	10847
50°	10637	10570	10466
55°	10086	9953	9876
60°	9183	8919	8876
65°	8089	7752	7727
70°	6984	6697	6697
75°	6011	5926	5844
80°	5300	5361	5239
85°	4153	4529	4529

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 11034 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	122.9	3.7
10°-20°	350.8	10.6
20°-30°	525.5	15.8
30°-40°	616.3	18.5
40°-50°	618.2	18.6
50°-60°	527.9	15.9
60°-70°	343.1	10.3
70°-80°	171.8	5.2
80°-90°	47.1	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°	999.2	30.1
0°-40°	1615.5	48.6
0°-60°	2761.7	83.1
0°-90°	3323.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3323.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1299	1299	1299	1299	1299	
5°	1303	1291	1295	1291	1291	124
15°	1253	1241	1246	1242	1240	354
25°	1154	1140	1146	1136	1135	531
35°	997	987	990	979	978	623
45°	810	805	805	797	797	624
55°	601	599	593	590	588	535
65°	355	348	340	338	339	354
75°	162	162	159	158	157	175
85°	38	41	41	41	41	45
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1298.6	1298.6	1298.6	1298.6	1298.6
2.5°	1308.9	1295.2	1298.6	1296.4	1289.5
5°	1303.2	1290.7	1295.2	1290.7	1290.7
7.5°	1296.4	1282.7	1287.3	1282.7	1282.7
10°	1286.1	1272.5	1277.0	1272.5	1271.3
12.5°	1271.3	1257.7	1263.4	1257.7	1257.7
15°	1253.1	1240.6	1246.3	1241.7	1239.5
17.5°	1233.8	1220.1	1226.9	1221.2	1220.1
20°	1211.0	1197.3	1204.2	1195.1	1195.1
22.5°	1183.7	1170.0	1178.0	1165.5	1165.5
25°	1154.1	1140.4	1146.1	1135.9	1134.7
27.5°	1119.9	1106.3	1112.0	1100.6	1100.6
30°	1082.4	1069.9	1076.7	1064.2	1063.0
32.5°	1041.4	1030.0	1034.6	1022.1	1020.9
35°	997.0	986.8	990.2	978.8	977.7
37.5°	951.5	940.1	944.7	934.4	934.4
40°	902.6	895.7	896.9	888.9	886.6
42.5°	857.0	849.1	850.2	842.2	842.2
45°	810.4	804.7	804.7	796.7	796.7
47.5°	761.4	756.9	755.7	748.9	748.9
50°	710.2	706.8	705.7	700.0	698.8
52.5°	656.7	655.6	651.0	646.5	646.5
55°	600.9	598.7	593.0	589.6	588.4
57.5°	541.8	537.2	531.5	525.8	527.0
60°	476.9	472.3	463.2	461.0	461.0
62.5°	414.3	408.6	399.5	396.1	398.4
65°	355.1	348.3	340.3	338.0	339.2
67.5°	300.5	293.6	284.5	284.5	283.4
70°	248.1	244.7	237.9	237.9	237.9
72.5°	201.5	200.3	195.8	195.8	194.6
75°	161.6	161.6	159.3	158.2	157.1
77.5°	127.5	127.5	126.3	125.2	122.9
80°	95.6	97.9	96.7	95.6	94.5
82.5°	66.0	68.3	68.3	66.0	66.0
85°	37.6	41.0	41.0	41.0	41.0
87.5°	12.5	17.1	18.2	18.2	19.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)