

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: P688900

Luminaire Tested: SQ4R-PR1-075D-93050-1-UNV-STD-W-4\_3500K

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688900  
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-PR1-075D-93050-1-UNV-STD-W-4\_3500K  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
750 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2827.1 lumens  
Efficiency: N/A  
Efficacy: 85.7 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

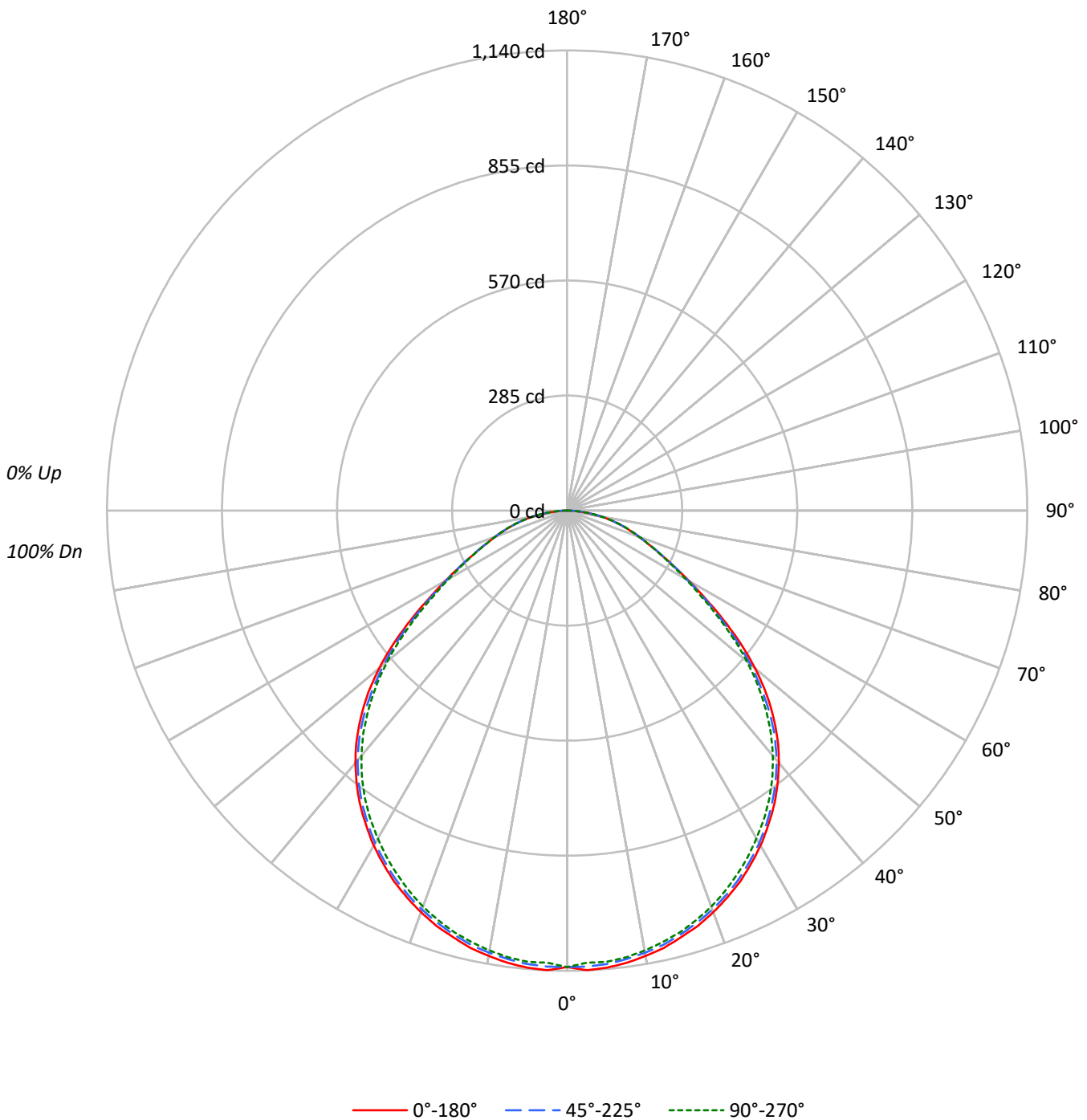
Input Watts (W): 33  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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°	10887	10887	10887
5°	10985	10900	10844
10°	10950	10874	10817
15°	10902	10834	10776
20°	10847	10777	10697
25°	10770	10698	10574
30°	10654	10579	10427
35°	10498	10406	10257
40°	10258	10148	9964
45°	9840	9668	9468
50°	9103	8885	8709
55°	7946	7766	7602
60°	6695	6639	6508
65°	5791	5814	5768
70°	5320	5345	5345
75°	5107	5107	5144
80°	4807	4862	4807
85°	3877	4308	4308

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 9840 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.0	3.8
10°-20°	306.1	10.8
20°-30°	461.7	16.3
30°-40°	550.3	19.5
40°-50°	542.8	19.2
50°-60°	414.1	14.6
60°-70°	255.6	9.0
70°-80°	145.6	5.2
80°-90°	43.9	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°	874.8	30.9
0°-40°	1425.1	50.4
0°-60°	2381.9	84.3
0°-90°	2827.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2827.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1131	1131	1131	1131	1131	
5°	1137	1124	1128	1124	1122	108
15°	1094	1082	1087	1083	1081	309
25°	1014	1001	1007	996	995	467
35°	893	882	885	874	873	558
45°	723	713	710	697	695	554
55°	473	466	463	455	453	424
65°	254	252	255	253	253	257
75°	137	137	137	138	138	145
85°	35	37	39	39	39	41
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1130.8	1130.8	1130.8	1130.8	1130.8
2.5°	1139.6	1126.9	1130.8	1127.9	1121.1
5°	1136.7	1124.0	1127.9	1124.0	1122.1
7.5°	1129.9	1117.2	1121.1	1117.2	1116.2
10°	1120.1	1108.4	1112.3	1108.4	1106.5
12.5°	1109.4	1096.7	1101.6	1096.7	1094.8
15°	1093.8	1082.1	1087.0	1083.1	1081.2
17.5°	1078.2	1065.6	1070.4	1066.5	1063.6
20°	1058.7	1047.1	1051.9	1045.1	1044.1
22.5°	1037.3	1025.6	1030.5	1020.8	1020.8
25°	1013.9	1001.3	1007.1	996.4	995.4
27.5°	986.7	975.0	979.9	969.1	968.2
30°	958.4	946.7	951.6	939.9	938.0
32.5°	926.3	915.6	919.5	907.8	906.8
35°	893.2	882.5	885.4	873.7	872.7
37.5°	856.2	846.4	848.4	835.7	834.7
40°	816.2	806.5	807.5	793.8	792.8
42.5°	772.4	762.6	761.7	748.0	747.1
45°	722.7	713.0	710.1	697.4	695.4
47.5°	668.2	658.4	652.6	641.9	640.9
50°	607.8	598.0	593.2	584.4	581.5
52.5°	542.5	532.8	528.9	521.1	518.2
55°	473.4	465.6	462.7	454.9	452.9
57.5°	407.1	401.3	400.3	392.5	391.6
60°	347.7	344.8	344.8	338.0	338.0
62.5°	297.1	295.1	297.1	293.2	292.2
65°	254.2	252.3	255.2	253.2	253.2
67.5°	218.2	218.2	220.1	219.2	219.2
70°	189.0	189.0	189.9	189.9	189.9
72.5°	162.7	161.7	164.6	164.6	163.6
75°	137.3	137.3	137.3	138.3	138.3
77.5°	112.0	112.0	113.0	113.0	112.0
80°	86.7	87.7	87.7	86.7	86.7
82.5°	61.4	62.3	62.3	62.3	61.4
85°	35.1	37.0	39.0	39.0	39.0
87.5°	12.7	16.6	19.5	19.5	18.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)