

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: P688823

Luminaire Tested: SQ4R-PP3-075D-93050-1-UNV-STD-W-4\_4000K

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688823  
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-PP3-075D-93050-1-UNV-STD-W-4\_4000K  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
750 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3038.4 lumens  
Efficiency: N/A  
Efficacy: 92.1 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

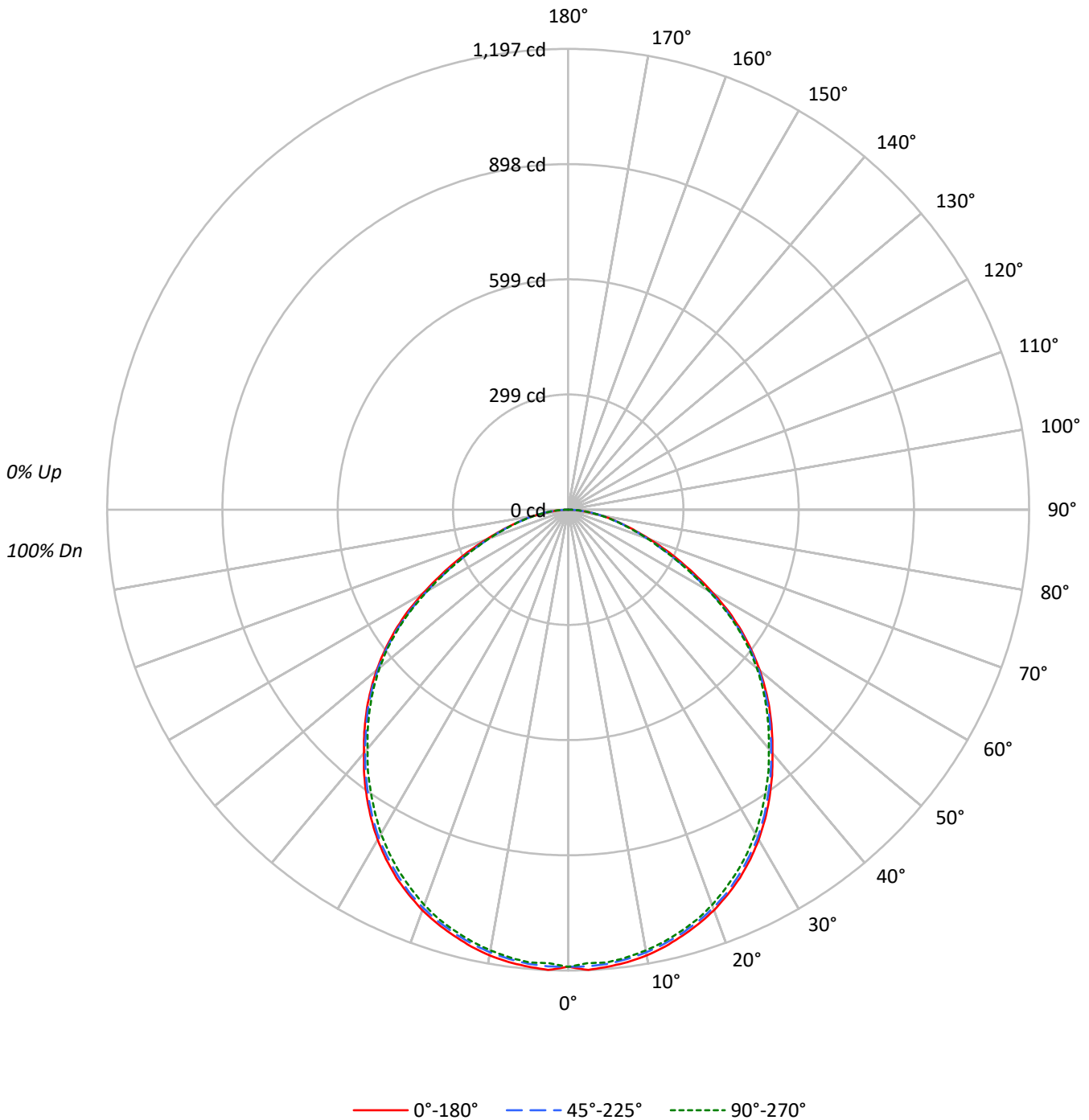
Input Watts (W): 33  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	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°	11430	11430	11430
5°	11514	11443	11403
10°	11493	11412	11362
15°	11418	11355	11294
20°	11342	11278	11193
25°	11208	11130	11020
30°	11000	10942	10803
35°	10713	10639	10505
40°	10370	10304	10186
45°	10086	10015	9916
50°	9725	9662	9569
55°	9222	9099	9029
60°	8395	8154	8114
65°	7394	7087	7064
70°	6384	6122	6122
75°	5494	5420	5342
80°	4846	4901	4790
85°	3789	4142	4142

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 10086 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.3	3.7
10°-20°	320.7	10.6
20°-30°	480.4	15.8
30°-40°	563.4	18.5
40°-50°	565.2	18.6
50°-60°	482.6	15.9
60°-70°	313.6	10.3
70°-80°	157.1	5.2
80°-90°	43.1	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°	913.5	30.1
0°-40°	1476.9	48.6
0°-60°	2524.7	83.1
0°-90°	3038.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3038.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1187	1187	1187	1187	1187	
5°	1191	1180	1184	1180	1180	113
15°	1146	1134	1139	1135	1133	323
25°	1055	1043	1048	1038	1037	485
35°	912	902	905	895	894	570
45°	741	736	736	728	728	571
55°	549	547	542	539	538	489
65°	325	318	311	309	310	324
75°	148	148	146	145	144	160
85°	34	38	38	38	38	41
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1187.2	1187.2	1187.2	1187.2	1187.2
2.5°	1196.6	1184.1	1187.2	1185.1	1178.9
5°	1191.4	1179.9	1184.1	1179.9	1179.9
7.5°	1185.1	1172.6	1176.8	1172.6	1172.6
10°	1175.7	1163.3	1167.4	1163.3	1162.2
12.5°	1162.2	1149.7	1154.9	1149.7	1149.7
15°	1145.6	1134.1	1139.3	1135.2	1133.1
17.5°	1127.9	1115.4	1121.6	1116.4	1115.4
20°	1107.1	1094.6	1100.8	1092.5	1092.5
22.5°	1082.1	1069.6	1076.9	1065.5	1065.5
25°	1055.1	1042.6	1047.8	1038.4	1037.4
27.5°	1023.8	1011.4	1016.6	1006.1	1006.1
30°	989.5	978.1	984.3	972.9	971.8
32.5°	952.0	941.6	945.8	934.4	933.3
35°	911.5	902.1	905.2	894.8	893.8
37.5°	869.8	859.4	863.6	854.2	854.2
40°	825.1	818.9	819.9	812.6	810.5
42.5°	783.5	776.2	777.2	770.0	770.0
45°	740.8	735.6	735.6	728.3	728.3
47.5°	696.1	691.9	690.9	684.6	684.6
50°	649.3	646.1	645.1	639.9	638.9
52.5°	600.4	599.3	595.2	591.0	591.0
55°	549.4	547.3	542.1	539.0	537.9
57.5°	495.3	491.1	485.9	480.7	481.7
60°	436.0	431.8	423.5	421.4	421.4
62.5°	378.7	373.5	365.2	362.1	364.2
65°	324.6	318.4	311.1	309.0	310.1
67.5°	274.7	268.4	260.1	260.1	259.1
70°	226.8	223.7	217.5	217.5	217.5
72.5°	184.2	183.1	179.0	179.0	177.9
75°	147.7	147.7	145.7	144.6	143.6
77.5°	116.5	116.5	115.5	114.5	112.4
80°	87.4	89.5	88.4	87.4	86.4
82.5°	60.3	62.4	62.4	60.3	60.3
85°	34.3	37.5	37.5	37.5	37.5
87.5°	11.4	15.6	16.6	16.6	17.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)