

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: P688977

Luminaire Tested: SQ4R-PW1-075D-93050-1-UNV-STD-W-4\_3000K

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688977  
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-PW1-075D-93050-1-UNV-STD-W-4\_3000K  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
750 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2884.3 lumens  
Efficiency: N/A  
Efficacy: 87.7 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

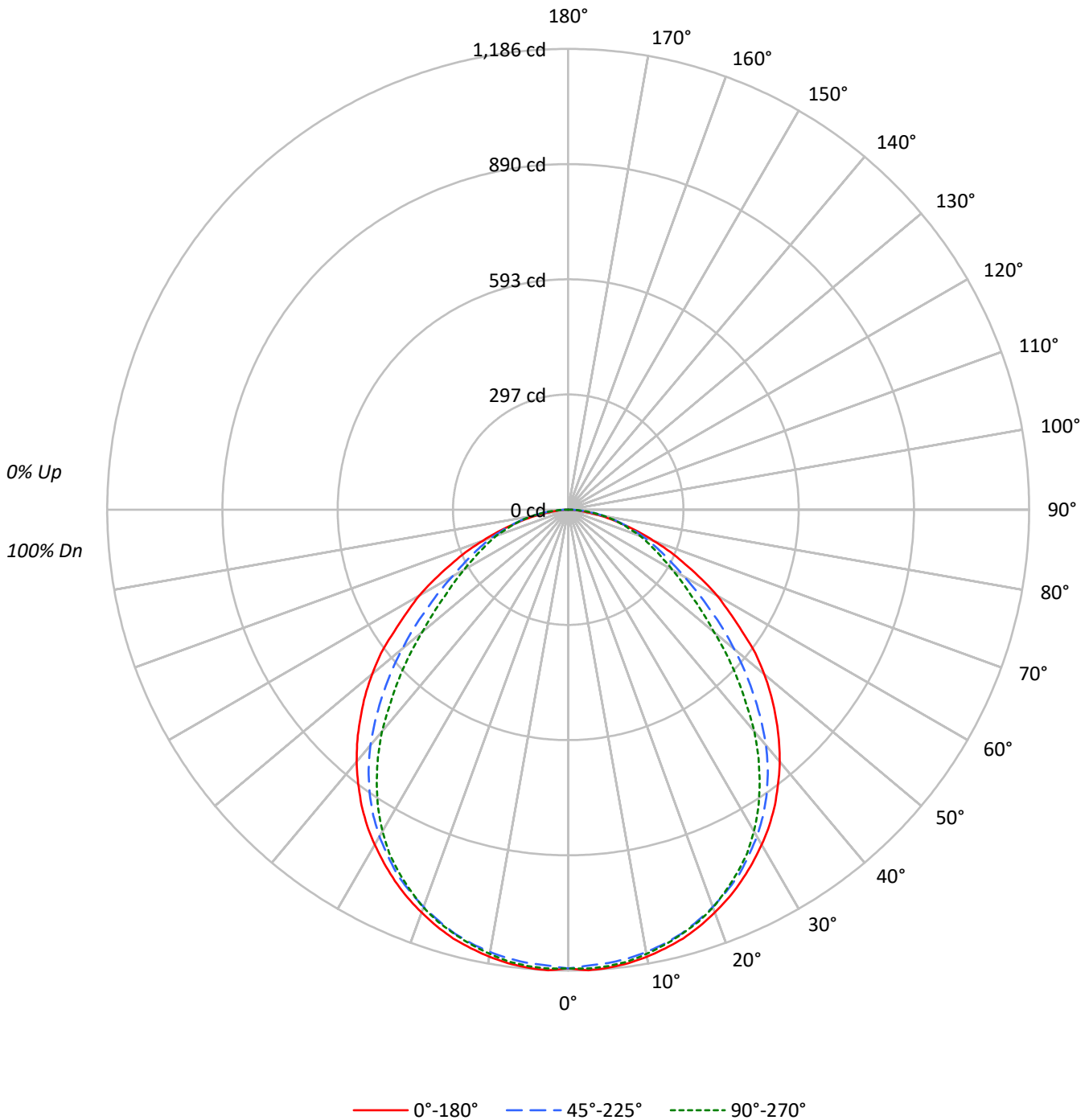
Input Watts (W): 32.9  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	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	99	96	93	95	92	90	91	89	87	85				85
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72				72
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62				62
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54				54
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49	47				47
6	72	59	51	45	70	59	50	44	57	49	44	55	49	44	54	48	43	41				41
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37				37
8	63	50	41	36	61	49	41	36	48	40	35	46	40	35	45	39	35	33				33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30				30
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27				27

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

	0°	45°	90°
0°	11365	11365	11365
5°	11437	11321	11394
10°	11421	11303	11348
15°	11387	11252	11267
20°	11301	11146	11161
25°	11202	11025	10944
30°	11066	10795	10626
35°	10896	10468	10093
40°	10641	9954	9363
45°	10288	9193	8387
50°	9863	8341	7340
55°	9168	7410	6494
60°	8532	6631	5959
65°	7570	6153	5634
70°	6578	5852	5554
75°	5420	5531	5304
80°	4291	5217	5217
85°	3181	4695	4860

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 10288 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.0	3.9
10°-20°	319.9	11.1
20°-30°	479.2	16.6
30°-40°	556.7	19.3
40°-50°	525.3	18.2
50°-60°	409.8	14.2
60°-70°	278.2	9.6
70°-80°	156.7	5.4
80°-90°	46.5	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°	911.1	31.6
0°-40°	1467.8	50.9
0°-60°	2402.9	83.3
0°-90°	2884.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2884.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1180	1180	1180	1180	1180	
5°	1184	1180	1171	1180	1179	112
15°	1142	1138	1129	1135	1130	322
25°	1054	1050	1038	1035	1030	486
35°	927	918	891	871	859	579
45°	756	733	675	633	616	583
55°	546	514	442	399	387	491
65°	332	302	270	253	247	332
75°	146	152	149	143	143	159
85°	29	41	42	42	44	35
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1180.5	1180.5	1180.5	1180.5	1180.5
2.5°	1186.5	1183.5	1174.4	1183.5	1182.0
5°	1183.5	1180.5	1171.4	1180.5	1179.0
7.5°	1177.4	1175.9	1165.3	1174.4	1172.9
10°	1168.3	1166.8	1156.2	1163.8	1160.8
12.5°	1156.2	1154.7	1144.1	1150.1	1147.1
15°	1142.5	1138.0	1128.9	1135.0	1130.4
17.5°	1124.3	1119.8	1109.2	1113.7	1112.2
20°	1103.1	1098.5	1087.9	1092.5	1089.4
22.5°	1080.3	1075.8	1063.6	1065.2	1060.6
25°	1054.5	1050.0	1037.9	1034.8	1030.3
27.5°	1025.7	1022.7	1004.5	1001.4	996.9
30°	995.4	990.8	971.1	965.0	955.9
32.5°	963.5	954.4	933.2	921.0	910.4
35°	927.1	918.0	890.7	870.9	858.8
37.5°	887.6	874.0	843.6	816.3	804.2
40°	846.7	831.5	792.0	755.6	745.0
42.5°	802.7	784.5	734.4	696.5	678.2
45°	755.6	732.9	675.2	632.7	616.0
47.5°	708.6	679.8	617.6	572.0	553.8
50°	658.5	623.6	556.9	508.3	490.1
52.5°	606.9	569.0	500.7	450.6	437.0
55°	546.2	514.4	441.5	399.1	386.9
57.5°	491.6	456.7	393.0	356.6	347.5
60°	443.1	400.6	344.4	317.1	309.5
62.5°	386.9	349.0	305.0	283.7	276.2
65°	332.3	301.9	270.1	253.4	247.3
67.5°	285.3	259.5	238.2	224.6	221.5
70°	233.7	220.0	207.9	197.3	197.3
72.5°	189.7	185.1	177.5	171.5	166.9
75°	145.7	151.7	148.7	142.6	142.6
77.5°	110.8	119.9	121.4	118.4	119.9
80°	77.4	91.0	94.1	92.6	94.1
82.5°	48.6	65.2	68.3	68.3	69.8
85°	28.8	41.0	42.5	42.5	44.0
87.5°	12.1	19.7	21.2	21.2	21.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)