

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: P688891

Luminaire Tested: SQ4R-PR1-075D-92765-1-UNV-STD-W-4\_2700K

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688891  
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-92765-1-UNV-STD-W-4\_2700K  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
750 LUMENS PER FOOT  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2515.1 lumens  
Efficiency: N/A  
Efficacy: 77.2 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

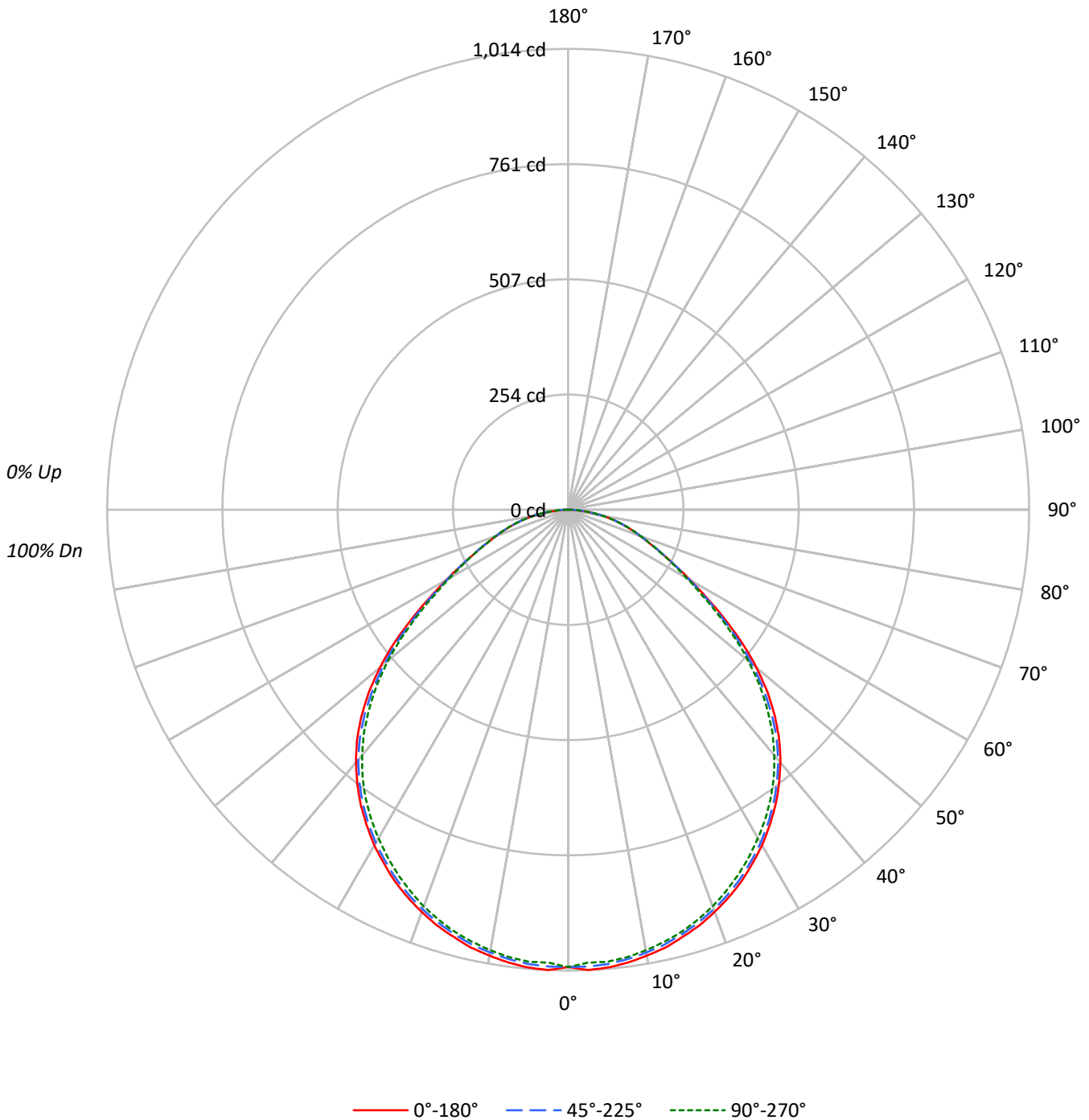
Input Watts (W): 32.6  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	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°	9685	9685	9685
5°	9772	9697	9648
10°	9742	9674	9623
15°	9699	9639	9587
20°	9650	9588	9517
25°	9583	9518	9407
30°	9479	9411	9277
35°	9339	9258	9125
40°	9127	9029	8865
45°	8755	8601	8424
50°	8098	7904	7748
55°	7068	6909	6763
60°	5957	5907	5790
65°	5153	5171	5132
70°	4732	4757	4757
75°	4545	4545	4575
80°	4275	4324	4275
85°	3446	3833	3833

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 8755 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	95.2	3.8
10°-20°	272.4	10.8
20°-30°	410.8	16.3
30°-40°	489.5	19.5
40°-50°	482.9	19.2
50°-60°	368.4	14.6
60°-70°	227.4	9.0
70°-80°	129.5	5.2
80°-90°	39.1	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°	778.3	30.9
0°-40°	1267.8	50.4
0°-60°	2119.1	84.3
0°-90°	2515.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2515.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1006	1006	1006	1006	1006	
5°	1011	1000	1003	1000	998	96
15°	973	963	967	964	962	275
25°	902	891	896	886	886	415
35°	795	785	788	777	776	496
45°	643	634	632	620	619	493
55°	421	414	412	405	403	377
65°	226	224	227	225	225	228
75°	122	122	122	123	123	129
85°	31	33	35	35	35	37
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1006.0	1006.0	1006.0	1006.0	1006.0
2.5°	1013.8	1002.6	1006.0	1003.4	997.4
5°	1011.2	1000.0	1003.4	1000.0	998.3
7.5°	1005.2	993.9	997.4	993.9	993.1
10°	996.5	986.1	989.6	986.1	984.4
12.5°	987.0	975.7	980.1	975.7	974.0
15°	973.1	962.7	967.1	963.6	961.9
17.5°	959.3	948.0	952.3	948.9	946.3
20°	941.9	931.5	935.9	929.8	928.9
22.5°	922.9	912.5	916.8	908.1	908.1
25°	902.1	890.8	896.0	886.5	885.6
27.5°	877.8	867.4	871.7	862.2	861.3
30°	852.7	842.3	846.6	836.2	834.5
32.5°	824.1	814.5	818.0	807.6	806.7
35°	794.6	785.1	787.7	777.3	776.4
37.5°	761.7	753.0	754.8	743.5	742.6
40°	726.2	717.5	718.4	706.2	705.4
42.5°	687.2	678.5	677.6	665.5	664.6
45°	643.0	634.3	631.7	620.4	618.7
47.5°	594.4	585.8	580.6	571.0	570.2
50°	540.7	532.1	527.7	519.9	517.3
52.5°	482.7	474.0	470.5	463.6	461.0
55°	421.1	414.2	411.6	404.7	402.9
57.5°	362.2	357.0	356.1	349.2	348.3
60°	309.4	306.8	306.8	300.7	300.7
62.5°	264.3	262.6	264.3	260.8	260.0
65°	226.2	224.4	227.0	225.3	225.3
67.5°	194.1	194.1	195.8	195.0	195.0
70°	168.1	168.1	169.0	169.0	169.0
72.5°	144.7	143.8	146.4	146.4	145.6
75°	122.2	122.2	122.2	123.0	123.0
77.5°	99.7	99.7	100.5	100.5	99.7
80°	77.1	78.0	78.0	77.1	77.1
82.5°	54.6	55.5	55.5	55.5	54.6
85°	31.2	32.9	34.7	34.7	34.7
87.5°	11.3	14.7	17.3	17.3	16.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)