

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: P688583

Luminaire Tested: SQ4R-PR1-075D-940-1-UNV-STD-W-4

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688583  
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-940-1-UNV-STD-W-4  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE RIPPLE 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: 2471.1 lumens  
Efficiency: N/A  
Efficacy: 92.2 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

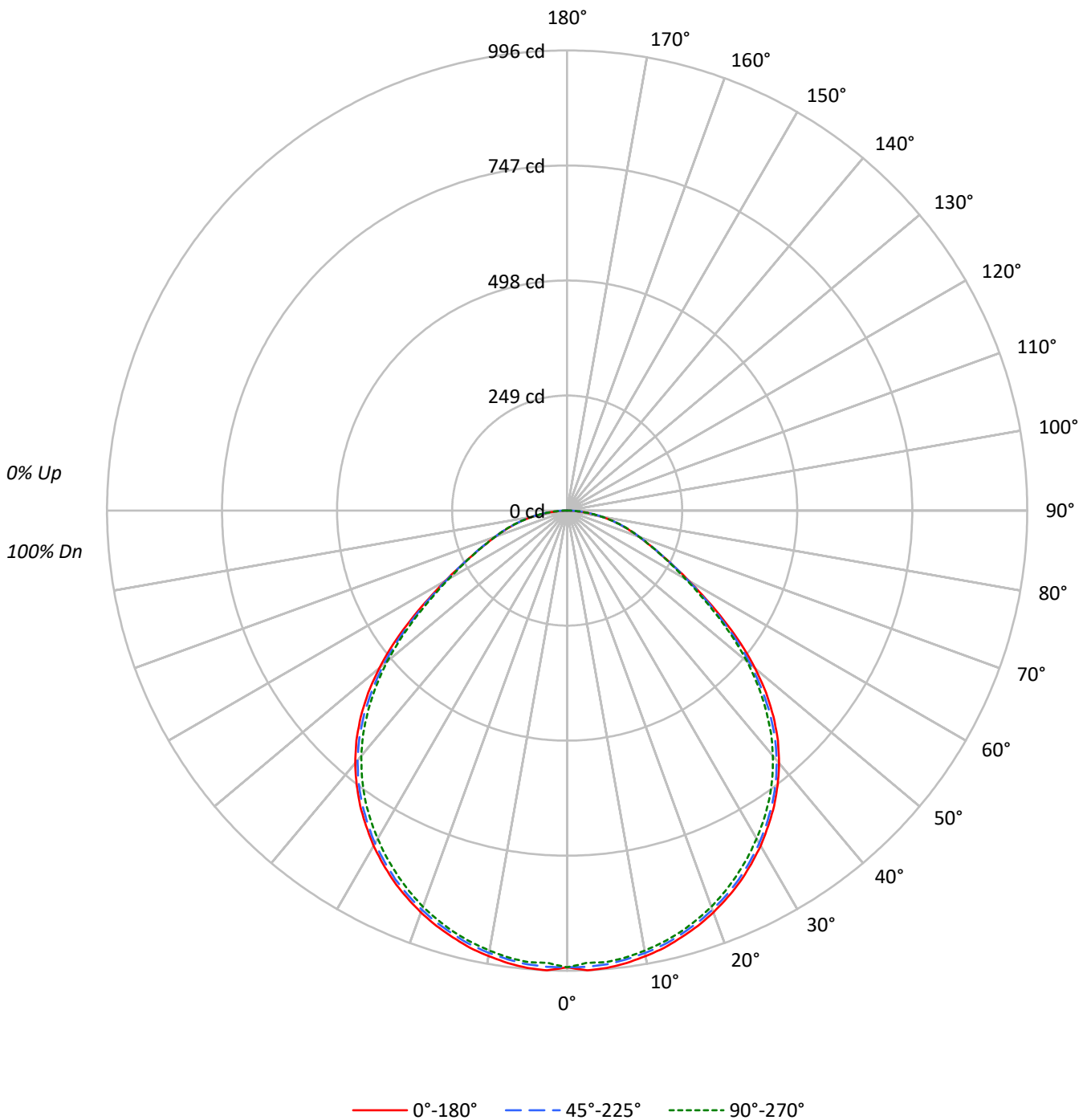
Input Watts (W): 26.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	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°	9517	9517	9517
5°	9602	9528	9479
10°	9572	9505	9455
15°	9529	9470	9419
20°	9482	9420	9351
25°	9415	9351	9243
30°	9314	9247	9115
35°	9175	9096	8965
40°	8967	8870	8709
45°	8601	8451	8277
50°	7958	7766	7613
55°	6946	6788	6645
60°	5851	5803	5688
65°	5062	5082	5044
70°	4650	4673	4673
75°	4464	4464	4497
80°	4202	4247	4202
85°	3380	3767	3767

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 8601 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.5	3.8
10°-20°	267.6	10.8
20°-30°	403.6	16.3
30°-40°	481.0	19.5
40°-50°	474.5	19.2
50°-60°	361.9	14.6
60°-70°	223.4	9.0
70°-80°	127.3	5.2
80°-90°	38.4	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°	764.7	30.9
0°-40°	1245.7	50.4
0°-60°	2082.1	84.3
0°-90°	2471.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2471.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	988	988	988	988	988	
5°	994	982	986	982	981	94
15°	956	946	950	947	945	270
25°	886	875	880	871	870	408
35°	781	771	774	764	763	488
45°	632	623	621	610	608	485
55°	414	407	404	398	396	371
65°	222	220	223	221	221	224
75°	120	120	120	121	121	127
85°	31	32	34	34	34	36
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	988.5	988.5	988.5	988.5	988.5
2.5°	996.1	985.1	988.5	985.9	979.9
5°	993.6	982.5	985.9	982.5	980.8
7.5°	987.6	976.5	979.9	976.5	975.7
10°	979.1	968.9	972.3	968.9	967.2
12.5°	969.7	958.7	962.9	958.7	957.0
15°	956.1	945.9	950.1	946.7	945.0
17.5°	942.5	931.4	935.7	932.3	929.7
20°	925.5	915.2	919.5	913.5	912.7
22.5°	906.7	896.5	900.8	892.3	892.3
25°	886.3	875.2	880.3	871.0	870.1
27.5°	862.5	852.2	856.5	847.1	846.3
30°	837.8	827.5	831.8	821.6	819.9
32.5°	809.7	800.3	803.7	793.5	792.6
35°	780.7	771.4	773.9	763.7	762.8
37.5°	748.4	739.9	741.6	730.5	729.6
40°	713.5	704.9	705.8	693.9	693.0
42.5°	675.1	666.6	665.8	653.9	653.0
45°	631.7	623.2	620.7	609.6	607.9
47.5°	584.0	575.5	570.4	561.1	560.2
50°	531.3	522.8	518.5	510.8	508.3
52.5°	474.2	465.7	462.3	455.5	452.9
55°	413.8	407.0	404.4	397.6	395.9
57.5°	355.9	350.8	349.9	343.1	342.3
60°	303.9	301.4	301.4	295.4	295.4
62.5°	259.7	258.0	259.7	256.3	255.4
65°	222.2	220.5	223.1	221.4	221.4
67.5°	190.7	190.7	192.4	191.6	191.6
70°	165.2	165.2	166.0	166.0	166.0
72.5°	142.2	141.3	143.9	143.9	143.0
75°	120.0	120.0	120.0	120.9	120.9
77.5°	97.9	97.9	98.8	98.8	97.9
80°	75.8	76.6	76.6	75.8	75.8
82.5°	53.6	54.5	54.5	54.5	53.6
85°	30.6	32.4	34.1	34.1	34.1
87.5°	11.1	14.5	17.0	17.0	16.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)