

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: P688970

Luminaire Tested: SQ4R-PW1-075D-92765-1-UNV-STD-W-4\_3000K

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688970  
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-92765-1-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: 2699.6 lumens  
Efficiency: N/A  
Efficacy: 82.6 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

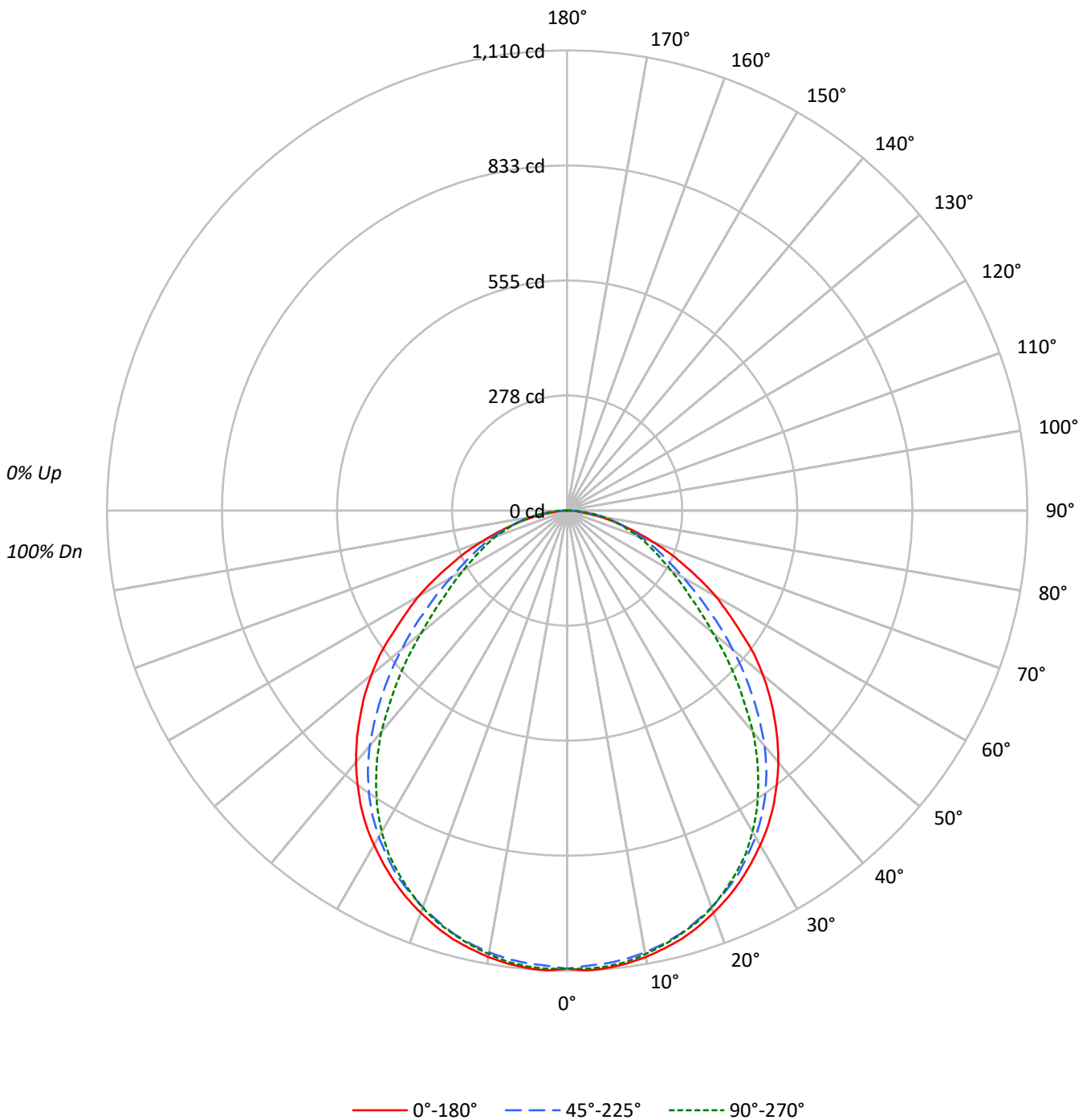
Input Watts (W): 32.7  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	75	69	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	59	50	44	57	49	44	55	49	44	54	48	43	41
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37
8	63	50	41	36	61	49	41	36	48	40	35	46	40	35	45	39	35	33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27

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

	0°	45°	90°
0°	10637	10637	10637
5°	10705	10595	10663
10°	10690	10578	10620
15°	10659	10531	10545
20°	10577	10432	10447
25°	10485	10319	10243
30°	10356	10104	9946
35°	10198	9797	9447
40°	9959	9316	8763
45°	9629	8605	7850
50°	9231	7806	6870
55°	8580	6937	6078
60°	7985	6208	5578
65°	7085	5759	5274
70°	6156	5478	5196
75°	5070	5178	4966
80°	4014	4879	4879
85°	2982	4396	4551

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 9629 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.8	3.9
10°-20°	299.4	11.1
20°-30°	448.5	16.6
30°-40°	521.1	19.3
40°-50°	491.6	18.2
50°-60°	383.6	14.2
60°-70°	260.4	9.6
70°-80°	146.6	5.4
80°-90°	43.5	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°	852.7	31.6
0°-40°	1373.8	50.9
0°-60°	2249.0	83.3
0°-90°	2699.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2699.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1105	1105	1105	1105	1105	
5°	1108	1105	1096	1105	1103	105
15°	1069	1065	1057	1062	1058	301
25°	987	983	971	968	964	455
35°	868	859	834	815	804	542
45°	707	686	632	592	577	545
55°	511	481	413	374	362	459
65°	311	283	253	237	232	311
75°	136	142	139	134	134	148
85°	27	38	40	40	41	33
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1104.9	1104.9	1104.9	1104.9	1104.9
2.5°	1110.5	1107.7	1099.2	1107.7	1106.3
5°	1107.7	1104.9	1096.3	1104.9	1103.4
7.5°	1102.0	1100.6	1090.7	1099.2	1097.8
10°	1093.5	1092.1	1082.1	1089.2	1086.4
12.5°	1082.1	1080.7	1070.8	1076.5	1073.6
15°	1069.4	1065.1	1056.6	1062.3	1058.0
17.5°	1052.3	1048.1	1038.1	1042.4	1041.0
20°	1032.4	1028.2	1018.2	1022.5	1019.7
22.5°	1011.1	1006.9	995.5	996.9	992.7
25°	987.0	982.7	971.4	968.5	964.3
27.5°	960.0	957.2	940.1	937.3	933.0
30°	931.6	927.3	908.9	903.2	894.7
32.5°	901.8	893.3	873.4	862.0	852.1
35°	867.7	859.2	833.6	815.2	803.8
37.5°	830.8	818.0	789.6	764.0	752.7
40°	792.4	778.2	741.3	707.2	697.3
42.5°	751.2	734.2	687.3	651.8	634.8
45°	707.2	685.9	632.0	592.2	576.6
47.5°	663.2	636.2	578.0	535.4	518.3
50°	616.3	583.7	521.2	475.7	458.7
52.5°	568.1	532.5	468.6	421.8	409.0
55°	511.2	481.4	413.3	373.5	362.1
57.5°	460.1	427.5	367.8	333.7	325.2
60°	414.7	374.9	322.4	296.8	289.7
62.5°	362.1	326.6	285.4	265.6	258.5
65°	311.0	282.6	252.8	237.2	231.5
67.5°	267.0	242.8	223.0	210.2	207.3
70°	218.7	205.9	194.6	184.6	184.6
72.5°	177.5	173.3	166.2	160.5	156.2
75°	136.3	142.0	139.2	133.5	133.5
77.5°	103.7	112.2	113.6	110.8	112.2
80°	72.4	85.2	88.0	86.6	88.0
82.5°	45.4	61.1	63.9	63.9	65.3
85°	27.0	38.3	39.8	39.8	41.2
87.5°	11.4	18.5	19.9	19.9	19.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)