

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: P688615

Luminaire Tested: SQ4R-PW1-075D-835-1-UNV-STD-W-4

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688615  
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-835-1-UNV-STD-W-4  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
750 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2794.6 lumens  
Efficiency: N/A  
Efficacy: 104.3 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

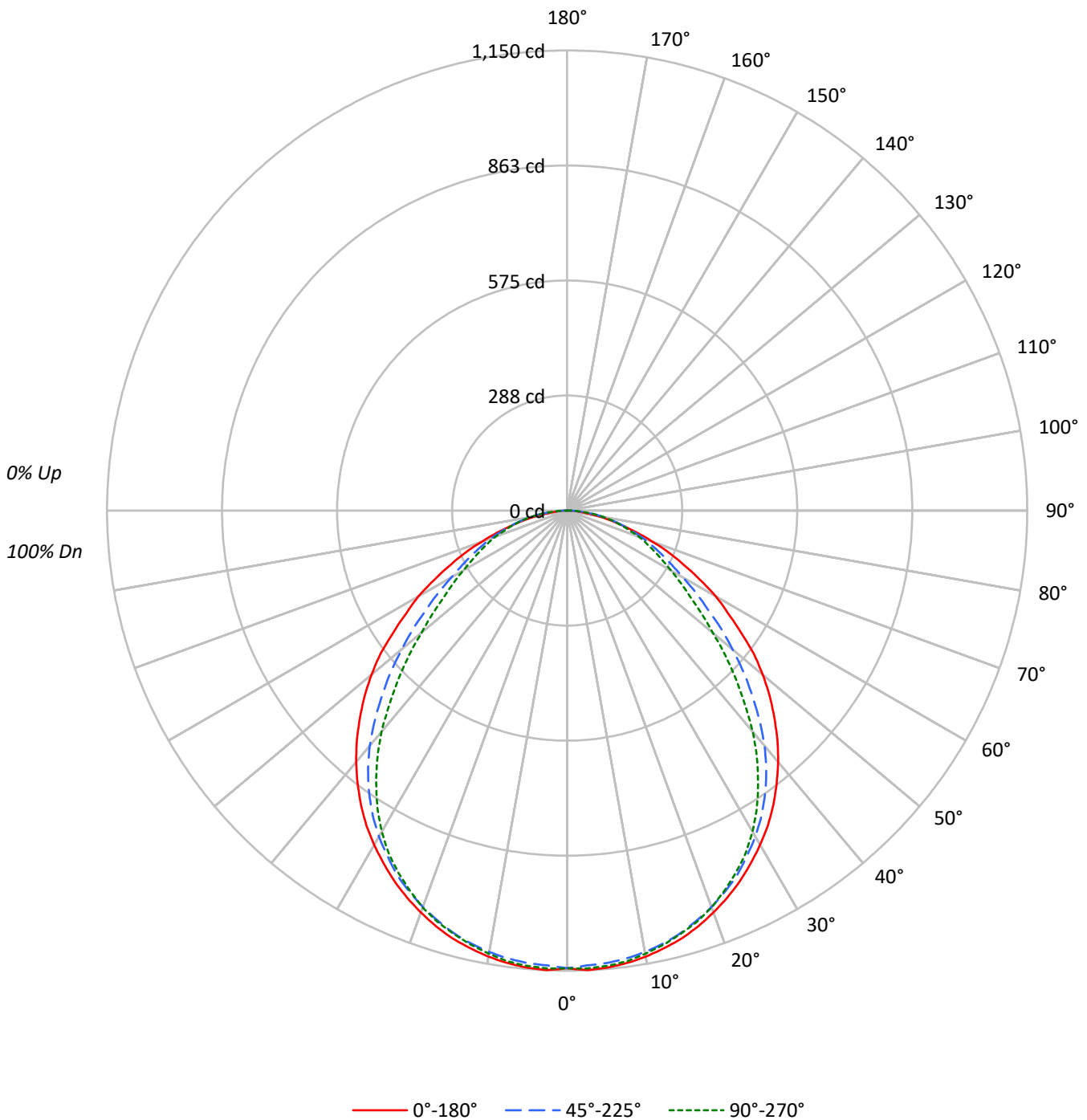
Input Watts (W): 26.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	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°	11012	11012	11012
5°	11082	10968	11039
10°	11066	10951	10994
15°	11033	10902	10916
20°	10950	10799	10814
25°	10853	10682	10603
30°	10721	10460	10296
35°	10556	10143	9780
40°	10309	9644	9071
45°	9968	8907	8127
50°	9556	8080	7111
55°	8882	7181	6293
60°	8266	6425	5774
65°	7335	5962	5458
70°	6373	5669	5379
75°	5249	5360	5141
80°	4158	5051	5051
85°	3082	4551	4706

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 9968 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	108.5	3.9
10°-20°	310.0	11.1
20°-30°	464.3	16.6
30°-40°	539.4	19.3
40°-50°	508.9	18.2
50°-60°	397.1	14.2
60°-70°	269.6	9.6
70°-80°	151.8	5.4
80°-90°	45.1	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°	882.7	31.6
0°-40°	1422.2	50.9
0°-60°	2328.2	83.3
0°-90°	2794.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2794.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1144	1144	1144	1144	1144	
5°	1147	1144	1135	1144	1142	109
15°	1107	1103	1094	1100	1095	312
25°	1022	1017	1006	1003	998	471
35°	898	889	863	844	832	561
45°	732	710	654	613	597	564
55°	529	498	428	387	375	475
65°	322	293	262	246	240	322
75°	141	147	144	138	138	154
85°	28	40	41	41	43	34
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1143.8	1143.8	1143.8	1143.8	1143.8
2.5°	1149.6	1146.7	1137.9	1146.7	1145.2
5°	1146.7	1143.8	1134.9	1143.8	1142.3
7.5°	1140.8	1139.3	1129.1	1137.9	1136.4
10°	1132.0	1130.5	1120.2	1127.6	1124.6
12.5°	1120.2	1118.8	1108.5	1114.4	1111.4
15°	1107.0	1102.6	1093.8	1099.7	1095.2
17.5°	1089.4	1085.0	1074.7	1079.1	1077.6
20°	1068.8	1064.4	1054.1	1058.5	1055.5
22.5°	1046.7	1042.3	1030.6	1032.0	1027.6
25°	1021.7	1017.3	1005.6	1002.6	998.2
27.5°	993.8	990.9	973.2	970.3	965.9
30°	964.4	960.0	940.9	935.0	926.2
32.5°	933.5	924.7	904.1	892.4	882.1
35°	898.2	889.4	863.0	843.9	832.1
37.5°	860.0	846.8	817.4	790.9	779.2
40°	820.3	805.6	767.4	732.1	721.8
42.5°	777.7	760.1	711.5	674.8	657.1
45°	732.1	710.1	654.2	613.0	596.9
47.5°	686.5	658.6	598.3	554.2	536.6
50°	638.0	604.2	539.5	492.5	474.8
52.5°	588.0	551.3	485.1	436.6	423.4
55°	529.2	498.4	427.8	386.6	374.9
57.5°	476.3	442.5	380.8	345.5	336.7
60°	429.3	388.1	333.7	307.3	299.9
62.5°	374.9	338.1	295.5	274.9	267.6
65°	322.0	292.6	261.7	245.5	239.6
67.5°	276.4	251.4	230.8	217.6	214.6
70°	226.4	213.2	201.4	191.1	191.1
72.5°	183.8	179.4	172.0	166.1	161.7
75°	141.1	147.0	144.1	138.2	138.2
77.5°	107.3	116.1	117.6	114.7	116.1
80°	75.0	88.2	91.1	89.7	91.1
82.5°	47.0	63.2	66.2	66.2	67.6
85°	27.9	39.7	41.2	41.2	42.6
87.5°	11.8	19.1	20.6	20.6	20.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)