

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: P688971

Luminaire Tested: SQ4R-PW1-075D-92765-1-UNV-STD-W-4\_3500K

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688971  
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\_3500K  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
750 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2800.8 lumens  
Efficiency: N/A  
Efficacy: 85.4 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

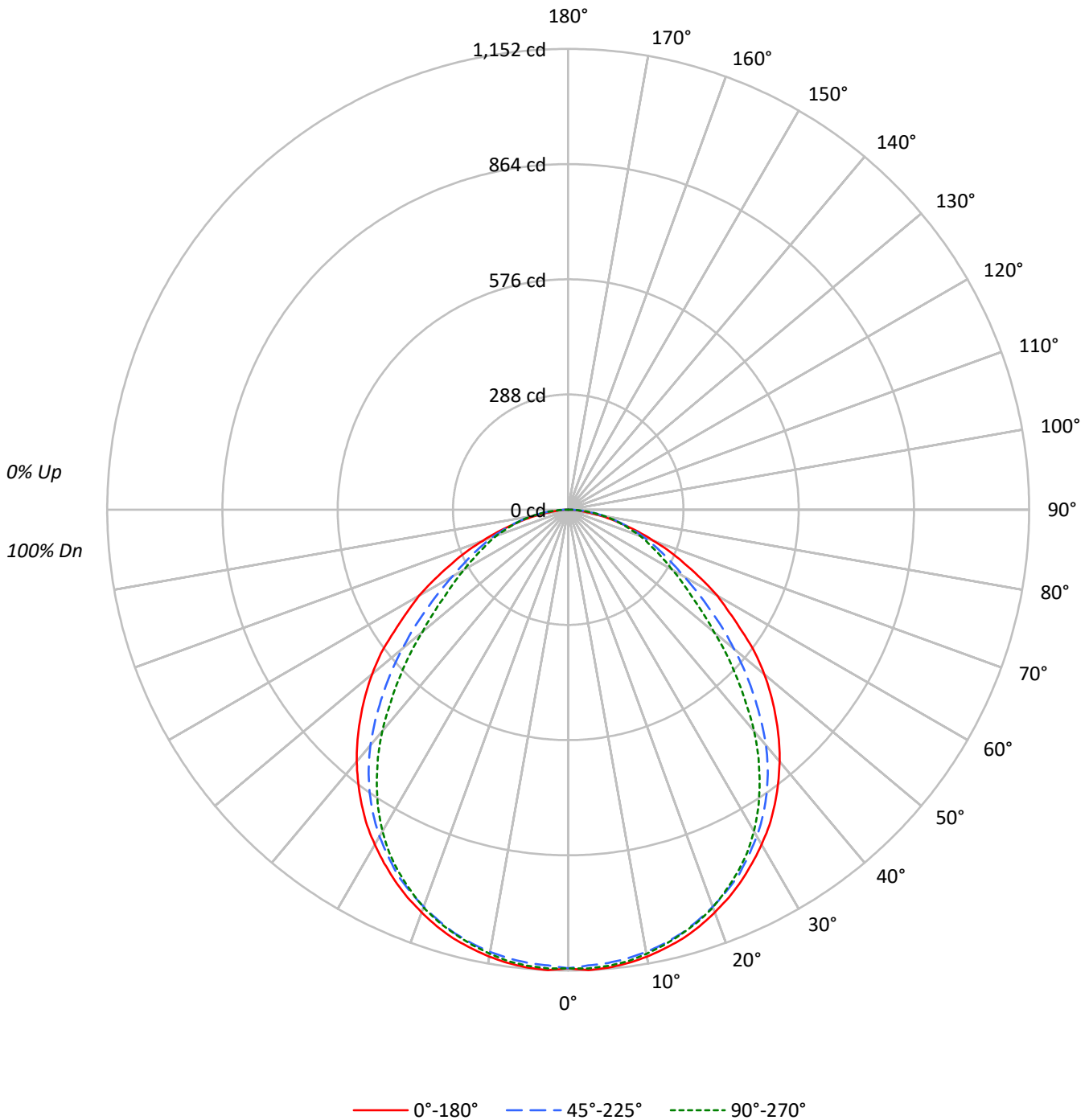
Input Watts (W): 32.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	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°	11036	11036	11036
5°	11106	10993	11063
10°	11091	10975	11018
15°	11058	10926	10941
20°	10975	10823	10838
25°	10878	10705	10627
30°	10744	10483	10319
35°	10580	10165	9801
40°	10333	9666	9091
45°	9989	8927	8145
50°	9578	8098	7128
55°	8903	7197	6306
60°	8283	6441	5788
65°	7351	5975	5472
70°	6387	5683	5390
75°	5260	5371	5152
80°	4164	5067	5067
85°	3093	4562	4717

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 9989 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	108.8	3.9
10°-20°	310.6	11.1
20°-30°	465.3	16.6
30°-40°	540.6	19.3
40°-50°	510.1	18.2
50°-60°	398.0	14.2
60°-70°	270.2	9.6
70°-80°	152.1	5.4
80°-90°	45.2	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°	884.7	31.6
0°-40°	1425.3	50.9
0°-60°	2333.3	83.3
0°-90°	2800.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2800.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1146	1146	1146	1146	1146	
5°	1149	1146	1138	1146	1145	109
15°	1110	1105	1096	1102	1098	313
25°	1024	1020	1008	1005	1000	472
35°	900	891	865	846	834	562
45°	734	712	656	614	598	566
55°	530	500	429	388	376	476
65°	323	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°	1146.3	1146.3	1146.3	1146.3	1146.3
2.5°	1152.2	1149.2	1140.4	1149.2	1147.8
5°	1149.2	1146.3	1137.5	1146.3	1144.8
7.5°	1143.4	1141.9	1131.6	1140.4	1138.9
10°	1134.5	1133.0	1122.7	1130.1	1127.1
12.5°	1122.7	1121.3	1110.9	1116.8	1113.9
15°	1109.5	1105.0	1096.2	1102.1	1097.7
17.5°	1091.8	1087.4	1077.0	1081.5	1080.0
20°	1071.2	1066.7	1056.4	1060.8	1057.9
22.5°	1049.1	1044.6	1032.8	1034.3	1029.9
25°	1024.0	1019.6	1007.8	1004.9	1000.4
27.5°	996.0	993.1	975.4	972.4	968.0
30°	966.5	962.1	943.0	937.1	928.2
32.5°	935.6	926.8	906.1	894.3	884.0
35°	900.2	891.4	864.9	845.7	833.9
37.5°	861.9	848.7	819.2	792.7	780.9
40°	822.2	807.4	769.1	733.7	723.4
42.5°	779.4	761.7	713.1	676.3	658.6
45°	733.7	711.6	655.7	614.4	598.2
47.5°	688.1	660.1	599.7	555.5	537.8
50°	639.5	605.6	540.7	493.6	475.9
52.5°	589.4	552.5	486.2	437.6	424.3
55°	530.4	499.5	428.8	387.5	375.7
57.5°	477.4	443.5	381.6	346.2	337.4
60°	430.2	389.0	334.5	307.9	300.6
62.5°	375.7	338.9	296.2	275.5	268.2
65°	322.7	293.2	262.3	246.1	240.2
67.5°	277.0	251.9	231.3	218.1	215.1
70°	226.9	213.6	201.9	191.5	191.5
72.5°	184.2	179.8	172.4	166.5	162.1
75°	141.4	147.3	144.4	138.5	138.5
77.5°	107.6	116.4	117.9	114.9	116.4
80°	75.1	88.4	91.4	89.9	91.4
82.5°	47.1	63.4	66.3	66.3	67.8
85°	28.0	39.8	41.3	41.3	42.7
87.5°	11.8	19.2	20.6	20.6	20.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)