

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: P688895

Luminaire Tested: SQ4R-PR1-075D-92765-1-UNV-STD-W-4\_4500K

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688895  
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\_4500K  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
750 LUMENS PER FOOT  
Light Source: 4500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2817.4 lumens  
Efficiency: N/A  
Efficacy: 85.6 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

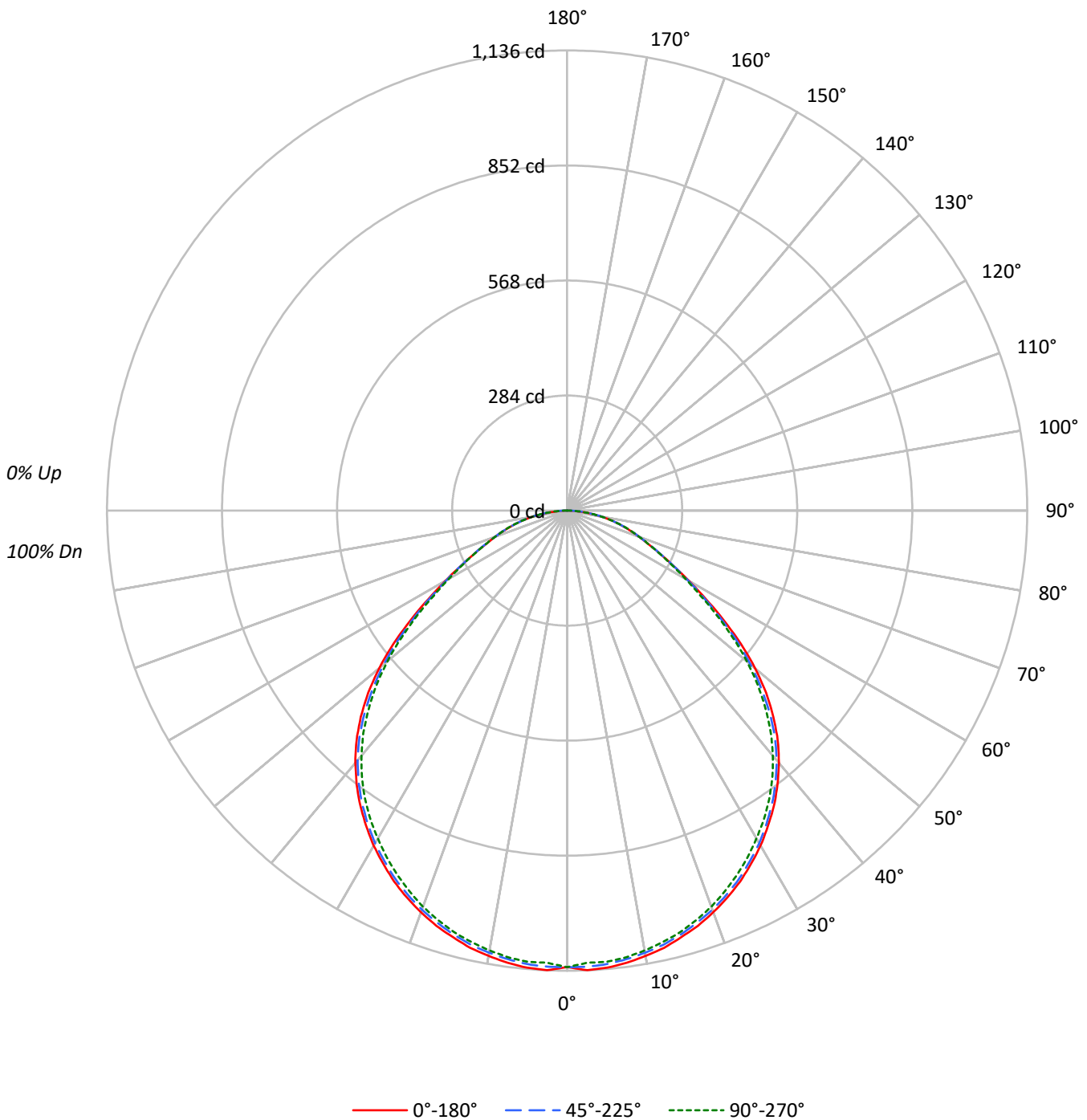
Input Watts (W): 32.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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			85	
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72			72	
3	92	82	74	68	90	80	73	68	78	71	66	75	70	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	58	50	44	57	49	44	55	49	44	53	48	43	41			41	
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37			37	
8	63	49	41	36	61	49	41	35	47	40	35	46	40	35	45	39	35	33			33	
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30			30	
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27			27	

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

	0°	45°	90°
0°	10850	10850	10850
5°	10948	10863	10807
10°	10913	10837	10780
15°	10865	10797	10739
20°	10811	10741	10661
25°	10734	10662	10539
30°	10619	10543	10392
35°	10461	10371	10223
40°	10224	10113	9931
45°	9807	9634	9437
50°	9072	8855	8679
55°	7919	7739	7577
60°	6672	6616	6485
65°	5773	5793	5750
70°	5300	5329	5329
75°	5092	5092	5126
80°	4790	4846	4790
85°	3855	4286	4286

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 9807 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.6	3.8
10°-20°	305.1	10.8
20°-30°	460.1	16.3
30°-40°	548.4	19.5
40°-50°	541.0	19.2
50°-60°	412.7	14.6
60°-70°	254.7	9.0
70°-80°	145.1	5.2
80°-90°	43.8	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°	871.9	30.9
0°-40°	1420.2	50.4
0°-60°	2373.9	84.3
0°-90°	2817.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2817.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1127	1127	1127	1127	1127	
5°	1133	1120	1124	1120	1118	108
15°	1090	1078	1083	1079	1078	308
25°	1010	998	1004	993	992	465
35°	890	880	882	871	870	556
45°	720	711	708	695	693	553
55°	472	464	461	453	451	423
65°	253	251	254	252	252	256
75°	137	137	137	138	138	145
85°	35	37	39	39	39	41
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1127.0	1127.0	1127.0	1127.0	1127.0
2.5°	1135.7	1123.1	1127.0	1124.1	1117.3
5°	1132.8	1120.2	1124.1	1120.2	1118.3
7.5°	1126.0	1113.4	1117.3	1113.4	1112.4
10°	1116.3	1104.7	1108.5	1104.7	1102.7
12.5°	1105.6	1093.0	1097.9	1093.0	1091.1
15°	1090.1	1078.5	1083.3	1079.4	1077.5
17.5°	1074.6	1062.0	1066.8	1062.9	1060.0
20°	1055.2	1043.5	1048.4	1041.6	1040.6
22.5°	1033.8	1022.2	1027.0	1017.3	1017.3
25°	1010.5	997.9	1003.7	993.0	992.1
27.5°	983.3	971.7	976.5	965.9	964.9
30°	955.2	943.5	948.4	936.7	934.8
32.5°	923.1	912.5	916.3	904.7	903.7
35°	890.1	879.5	882.4	870.7	869.8
37.5°	853.3	843.5	845.5	832.9	831.9
40°	813.5	803.7	804.7	791.1	790.2
42.5°	769.8	760.1	759.1	745.5	744.5
45°	720.3	710.6	707.6	695.0	693.1
47.5°	665.9	656.2	650.4	639.7	638.7
50°	605.7	596.0	591.2	582.4	579.5
52.5°	540.7	531.0	527.1	519.3	516.4
55°	471.8	464.0	461.1	453.3	451.4
57.5°	405.8	399.9	399.0	391.2	390.2
60°	346.5	343.6	343.6	336.8	336.8
62.5°	296.1	294.1	296.1	292.2	291.2
65°	253.4	251.4	254.3	252.4	252.4
67.5°	217.4	217.4	219.4	218.4	218.4
70°	188.3	188.3	189.3	189.3	189.3
72.5°	162.1	161.1	164.0	164.0	163.1
75°	136.9	136.9	136.9	137.8	137.8
77.5°	111.6	111.6	112.6	112.6	111.6
80°	86.4	87.4	87.4	86.4	86.4
82.5°	61.2	62.1	62.1	62.1	61.2
85°	34.9	36.9	38.8	38.8	38.8
87.5°	12.6	16.5	19.4	19.4	18.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)