

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: P688907

Luminaire Tested: SQ4R-PR1-100D-92765-1-UNV-STD-W-4\_4000K

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688907  
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-PR1-100D-92765-1-UNV-STD-W-4\_4000K  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
1000 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3656.3 lumens  
Efficiency: N/A  
Efficacy: 79.1 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

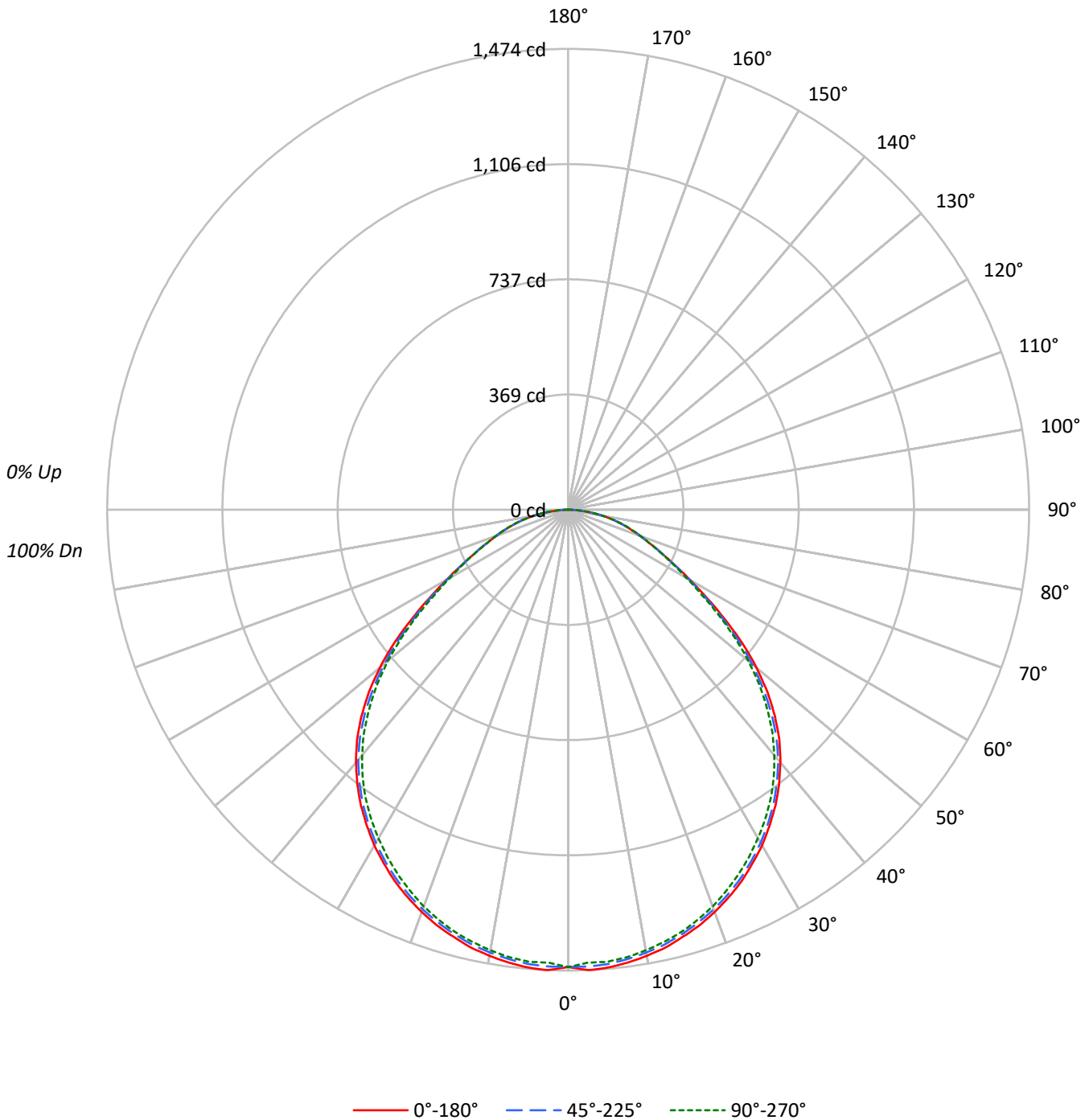
Input Watts (W): 46.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	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°	14080	14080	14080
5°	14207	14097	14025
10°	14162	14064	13989
15°	14100	14012	13937
20°	14029	13939	13835
25°	13930	13836	13676
30°	13780	13681	13486
35°	13577	13458	13265
40°	13266	13124	12887
45°	12726	12503	12245
50°	11774	11491	11263
55°	10276	10044	9833
60°	8659	8586	8416
65°	7490	7517	7461
70°	6879	6913	6913
75°	6606	6606	6655
80°	6215	6287	6215
85°	5004	5567	5567

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 12726 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	138.4	3.8
10°-20°	395.9	10.8
20°-30°	597.1	16.3
30°-40°	711.7	19.5
40°-50°	702.0	19.2
50°-60°	535.5	14.6
60°-70°	330.5	9.0
70°-80°	188.3	5.2
80°-90°	56.8	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°	1131.4	30.9
0°-40°	1843.1	50.4
0°-60°	3080.6	84.3
0°-90°	3656.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3656.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1462	1462	1462	1462	1462	
5°	1470	1454	1459	1454	1451	140
15°	1415	1400	1406	1401	1398	399
25°	1311	1295	1302	1289	1287	604
35°	1155	1141	1145	1130	1129	721
45°	935	922	918	902	899	717
55°	612	602	598	588	586	548
65°	329	326	330	328	328	332
75°	178	178	178	179	179	188
85°	45	48	50	50	50	54
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1462.5	1462.5	1462.5	1462.5	1462.5
2.5°	1473.9	1457.5	1462.5	1458.7	1449.9
5°	1470.1	1453.7	1458.7	1453.7	1451.2
7.5°	1461.3	1444.9	1449.9	1444.9	1443.6
10°	1448.7	1433.6	1438.6	1433.6	1431.0
12.5°	1434.8	1418.4	1424.7	1418.4	1415.9
15°	1414.7	1399.5	1405.8	1400.8	1398.3
17.5°	1394.5	1378.1	1384.4	1379.4	1375.6
20°	1369.3	1354.2	1360.5	1351.7	1350.4
22.5°	1341.6	1326.5	1332.8	1320.2	1320.2
25°	1311.4	1295.0	1302.5	1288.7	1287.4
27.5°	1276.1	1261.0	1267.3	1253.4	1252.2
30°	1239.6	1224.4	1230.7	1215.6	1213.1
32.5°	1198.0	1184.1	1189.2	1174.1	1172.8
35°	1155.2	1141.3	1145.1	1130.0	1128.7
37.5°	1107.3	1094.7	1097.2	1080.8	1079.6
40°	1055.6	1043.0	1044.3	1026.7	1025.4
42.5°	999.0	986.4	985.1	967.5	966.2
45°	934.7	922.1	918.3	902.0	899.4
47.5°	864.2	851.6	844.0	830.2	828.9
50°	786.1	773.5	767.2	755.8	752.0
52.5°	701.7	689.1	684.0	673.9	670.2
55°	612.2	602.1	598.4	588.3	585.8
57.5°	526.6	519.0	517.7	507.7	506.4
60°	449.7	445.9	445.9	437.1	437.1
62.5°	384.2	381.7	384.2	379.2	377.9
65°	328.8	326.3	330.0	327.5	327.5
67.5°	282.2	282.2	284.7	283.4	283.4
70°	244.4	244.4	245.6	245.6	245.6
72.5°	210.4	209.1	212.9	212.9	211.6
75°	177.6	177.6	177.6	178.9	178.9
77.5°	144.9	144.9	146.1	146.1	144.9
80°	112.1	113.4	113.4	112.1	112.1
82.5°	79.4	80.6	80.6	80.6	79.4
85°	45.3	47.9	50.4	50.4	50.4
87.5°	16.4	21.4	25.2	25.2	23.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)