

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: P688984

Luminaire Tested: SQ4R-PW1-100D-92765-1-UNV-STD-W-4_3500K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688984
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-PW1-100D-92765-1-UNV-STD-W-4_3500K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
1000 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3711.0 lumens
Efficiency: N/A
Efficacy: 80.3 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

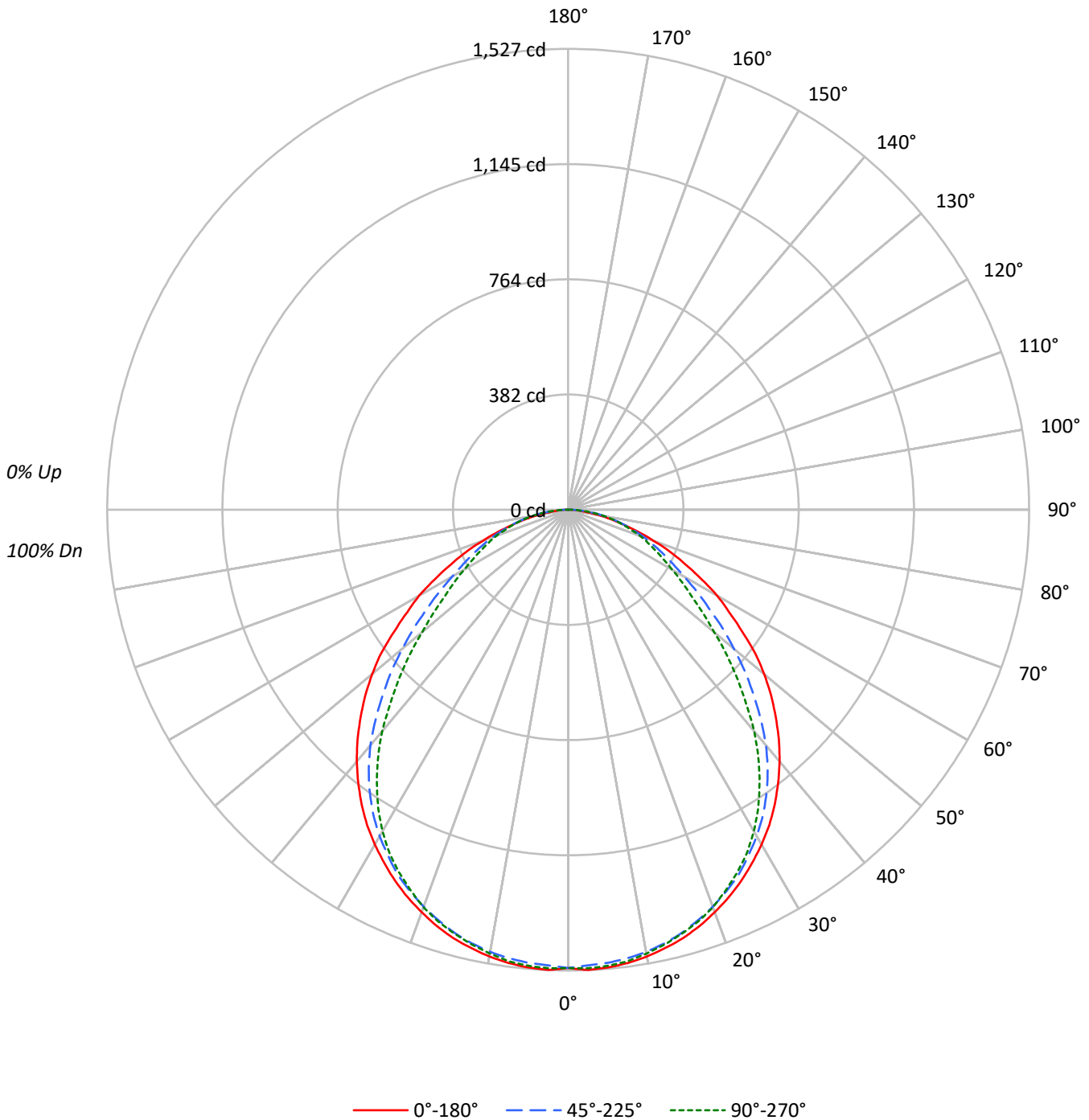
Input Watts (W): 46.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20				
RC	80					70					50					30				
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°	14622	14622	14622
5°	14716	14565	14659
10°	14695	14543	14599
15°	14651	14476	14496
20°	14541	14340	14361
25°	14413	14184	14081
30°	14237	13889	13672
35°	14019	13468	12987
40°	13690	12808	12046
45°	13237	11827	10791
50°	12690	10731	9445
55°	11796	9535	8355
60°	10975	8534	7669
65°	9739	7916	7249
70°	8461	7530	7144
75°	6971	7116	6826
80°	5522	6708	6708
85°	4098	6042	6252

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13237 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.1	3.9
10°-20°	411.6	11.1
20°-30°	616.5	16.6
30°-40°	716.3	19.3
40°-50°	675.8	18.2
50°-60°	527.3	14.2
60°-70°	358.0	9.6
70°-80°	201.6	5.4
80°-90°	59.8	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°	1172.2	31.6
0°-40°	1888.5	50.9
0°-60°	3091.6	83.3
0°-90°	3711.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3711.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1519	1519	1519	1519	1519	
5°	1523	1519	1507	1519	1517	145
15°	1470	1464	1452	1460	1454	414
25°	1357	1351	1335	1331	1326	625
35°	1193	1181	1146	1121	1105	745
45°	972	943	869	814	793	750
55°	703	662	568	513	498	631
65°	428	388	348	326	318	427
75°	187	195	191	184	184	204
85°	37	53	55	55	57	45
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1518.8	1518.8	1518.8	1518.8	1518.8
2.5°	1526.6	1522.7	1511.0	1522.7	1520.8
5°	1522.7	1518.8	1507.1	1518.8	1516.9
7.5°	1514.9	1513.0	1499.3	1511.0	1509.1
10°	1503.2	1501.3	1487.6	1497.3	1493.4
12.5°	1487.6	1485.6	1472.0	1479.8	1475.9
15°	1470.0	1464.2	1452.4	1460.3	1454.4
17.5°	1446.6	1440.7	1427.1	1432.9	1431.0
20°	1419.3	1413.4	1399.7	1405.6	1401.7
22.5°	1390.0	1384.1	1368.5	1370.5	1364.6
25°	1356.8	1350.9	1335.3	1331.4	1325.6
27.5°	1319.7	1315.8	1292.4	1288.5	1282.6
30°	1280.7	1274.8	1249.4	1241.6	1229.9
32.5°	1239.7	1227.9	1200.6	1185.0	1171.3
35°	1192.8	1181.1	1145.9	1120.6	1105.0
37.5°	1142.0	1124.5	1085.4	1050.3	1034.7
40°	1089.3	1069.8	1019.1	972.2	958.5
42.5°	1032.7	1009.3	944.9	896.1	872.6
45°	972.2	942.9	868.7	814.1	792.6
47.5°	911.7	874.6	794.6	736.0	712.6
50°	847.3	802.4	716.5	654.0	630.6
52.5°	780.9	732.1	644.2	579.8	562.2
55°	702.8	661.8	568.1	513.4	497.8
57.5°	632.5	587.6	505.6	458.8	447.1
60°	570.0	515.4	443.2	408.0	398.3
62.5°	497.8	449.0	392.4	365.1	355.3
65°	427.5	388.5	347.5	326.0	318.2
67.5°	367.0	333.8	306.5	288.9	285.0
70°	300.6	283.1	267.5	253.8	253.8
72.5°	244.0	238.2	228.4	220.6	214.7
75°	187.4	195.2	191.3	183.5	183.5
77.5°	142.5	154.2	156.2	152.3	154.2
80°	99.6	117.1	121.0	119.1	121.0
82.5°	62.5	83.9	87.8	87.8	89.8
85°	37.1	52.7	54.7	54.7	56.6
87.5°	15.6	25.4	27.3	27.3	27.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)