

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: P688834

Luminaire Tested: SQ4R-PP3-100D-93050-1-UNV-STD-W-4_3000K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688834
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/22/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4R-PP3-100D-93050-1-UNV-STD-W-4_3000K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
1000 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3858.1 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')
CIE Type: Direct

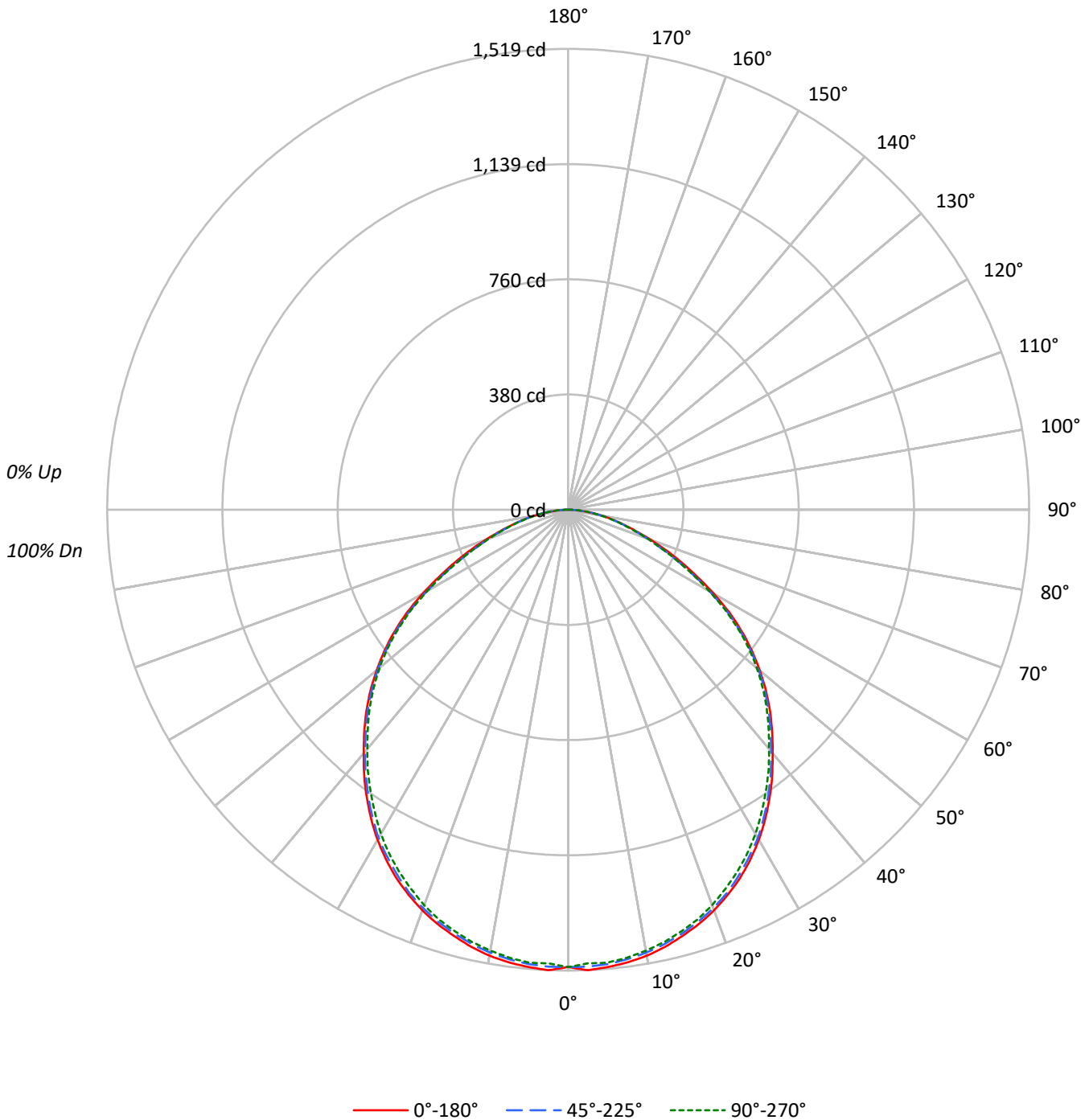
Input Watts (W): 46.3
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	98	95	93	95	92	90	91	89	87	85				85
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72				72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61				61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55	53				53
5	77	65	56	50	75	64	56	50	62	55	49	60	53	48	58	52	48	46				46
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40				40
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36				36
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32				32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29				29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26				26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14513	14513	14513
5°	14620	14530	14479
10°	14594	14492	14427
15°	14498	14419	14340
20°	14402	14321	14212
25°	14231	14132	13992
30°	13967	13894	13718
35°	13603	13509	13338
40°	13167	13084	12935
45°	12808	12718	12591
50°	12347	12268	12150
55°	11709	11553	11466
60°	10659	10353	10303
65°	9390	8998	8969
70°	8107	7772	7772
75°	6978	6881	6781
80°	6154	6226	6082
85°	4816	5258	5258

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12808 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.6	3.7
10°-20°	407.3	10.6
20°-30°	610.0	15.8
30°-40°	715.4	18.5
40°-50°	717.7	18.6
50°-60°	612.8	15.9
60°-70°	398.3	10.3
70°-80°	199.4	5.2
80°-90°	54.7	1.4
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°	1159.9	30.1
0°-40°	1875.3	48.6
0°-60°	3205.7	83.1
0°-90°	3858.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3858.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1508	1508	1508	1508	1508	
5°	1513	1498	1504	1498	1498	144
15°	1455	1440	1447	1441	1439	411
25°	1340	1324	1330	1318	1317	616
35°	1157	1146	1149	1136	1135	723
45°	941	934	934	925	925	725
55°	698	695	688	684	683	621
65°	412	404	395	392	394	411
75°	188	188	185	184	182	203
85°	44	48	48	48	48	52
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1507.5	1507.5	1507.5	1507.5	1507.5
2.5°	1519.4	1503.5	1507.5	1504.8	1496.9
5°	1512.8	1498.2	1503.5	1498.2	1498.2
7.5°	1504.8	1489.0	1494.3	1489.0	1489.0
10°	1492.9	1477.1	1482.4	1477.1	1475.8
12.5°	1475.8	1459.9	1466.5	1459.9	1459.9
15°	1454.6	1440.1	1446.7	1441.4	1438.8
17.5°	1432.2	1416.3	1424.2	1417.6	1416.3
20°	1405.7	1389.9	1397.8	1387.2	1387.2
22.5°	1374.0	1358.2	1367.4	1352.9	1352.9
25°	1339.7	1323.8	1330.4	1318.5	1317.2
27.5°	1300.0	1284.2	1290.8	1277.6	1277.6
30°	1256.4	1241.9	1249.8	1235.3	1234.0
32.5°	1208.9	1195.7	1201.0	1186.4	1185.1
35°	1157.4	1145.5	1149.4	1136.2	1134.9
37.5°	1104.5	1091.3	1096.6	1084.7	1084.7
40°	1047.7	1039.8	1041.1	1031.8	1029.2
42.5°	994.9	985.6	986.9	977.7	977.7
45°	940.7	934.1	934.1	924.8	924.8
47.5°	883.9	878.6	877.3	869.3	869.3
50°	824.4	820.5	819.1	812.5	811.2
52.5°	762.3	761.0	755.7	750.4	750.4
55°	697.6	694.9	688.3	684.4	683.1
57.5°	628.9	623.6	617.0	610.4	611.7
60°	553.6	548.3	537.7	535.1	535.1
62.5°	480.9	474.3	463.7	459.8	462.4
65°	412.2	404.3	395.0	392.4	393.7
67.5°	348.8	340.9	330.3	330.3	329.0
70°	288.0	284.1	276.1	276.1	276.1
72.5°	233.9	232.5	227.2	227.2	225.9
75°	187.6	187.6	185.0	183.6	182.3
77.5°	148.0	148.0	146.7	145.3	142.7
80°	111.0	113.6	112.3	111.0	109.7
82.5°	76.6	79.3	79.3	76.6	76.6
85°	43.6	47.6	47.6	47.6	47.6
87.5°	14.5	19.8	21.1	21.1	22.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)