

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: P686082

Luminaire Tested: SQ4R-F-125D-930-1-UNV-STD-W-4

Issue Date: 11/18/2022

Test Information

Test Method: LM-79-2019
Report Number: P686082
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2203-586-2)
Test Lab: INNOVATION CENTER
Issue Date: 11/18/2022
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4R-F-125D-930-1-UNV-STD-W-4
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH FROSTED LENS.
1250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4054.8 lumens
Efficiency: N/A
Efficacy: 81.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.23 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')
CIE Type: Direct

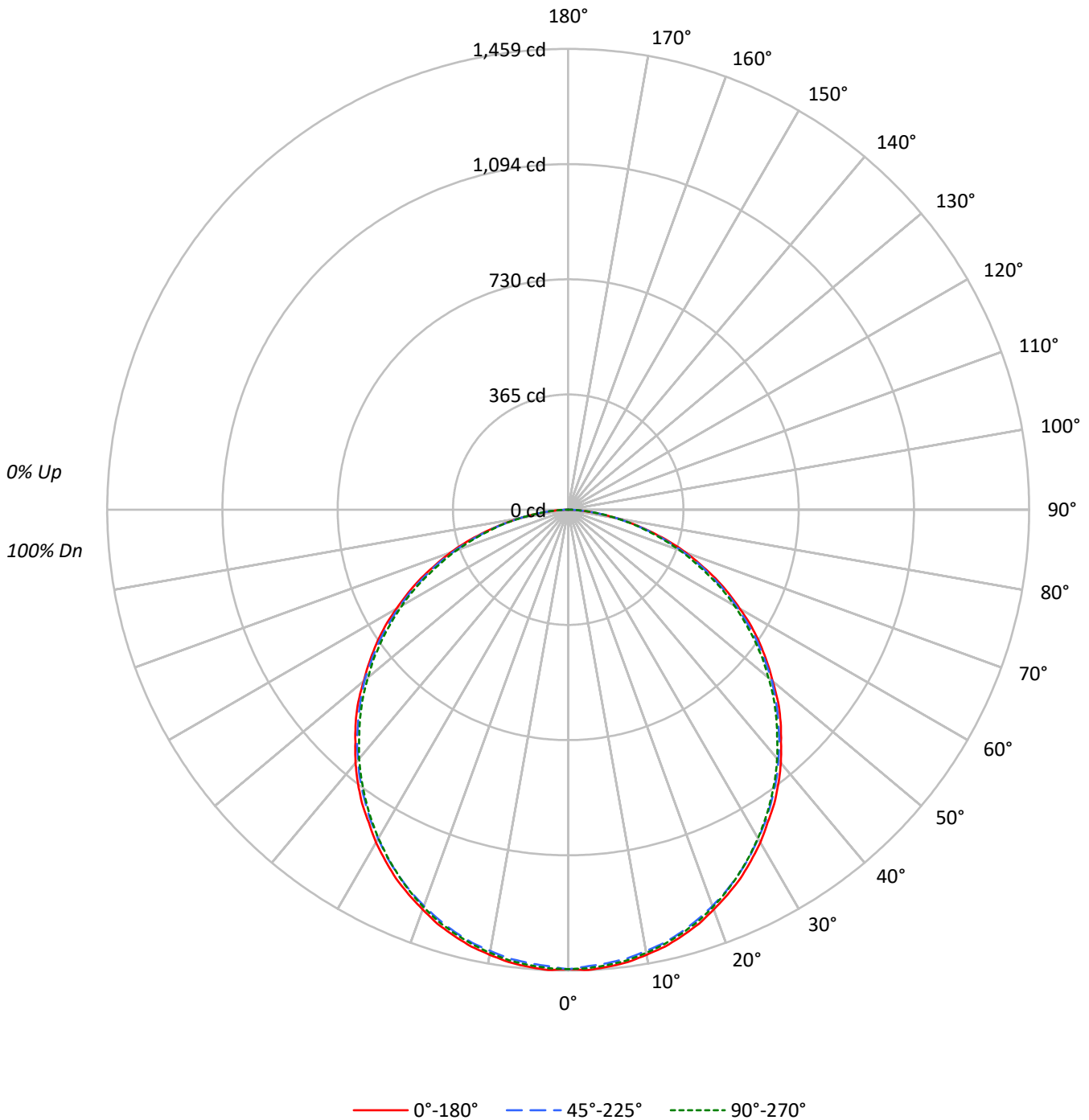
Input Watts (W): 49.5
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	104	100	96	106	102	98	94	97	94	91	94	91	88	90	88	86	84				84
2	99	91	84	78	96	89	82	77	85	80	75	82	77	74	79	75	72	70				70
3	90	80	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59				59
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50				50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43				43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38				38
7	65	51	43	36	63	51	42	36	49	41	36	48	41	36	46	40	35	33				33
8	60	47	38	32	59	46	38	32	45	37	32	44	37	32	42	36	32	30				30
9	56	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27				27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24				24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14005	14005	14005
5°	14039	13923	13981
10°	13986	13869	13928
15°	13921	13801	13841
20°	13798	13675	13716
25°	13690	13542	13542
30°	13528	13372	13350
35°	13363	13198	13151
40°	13158	13009	12933
45°	12949	12786	12678
50°	12659	12599	12389
55°	12443	12275	12073
60°	12080	11888	11695
65°	11698	11424	11153
70°	11136	10801	10575
75°	10110	9887	9664
80°	8643	8643	8532
85°	6175	6617	6617

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12949 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.6	3.4
10°-20°	392.4	9.7
20°-30°	589.7	14.5
30°-40°	704.8	17.4
40°-50°	726.3	17.9
50°-60°	653.5	16.1
60°-70°	496.8	12.3
70°-80°	282.4	7.0
80°-90°	71.4	1.8
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°	1119.7	27.6
0°-40°	1824.5	45.0
0°-60°	3204.2	79.0
0°-90°	4054.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4054.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1455	1455	1455	1455	1455	
5°	1453	1451	1441	1453	1447	138
15°	1397	1395	1385	1393	1389	394
25°	1289	1285	1275	1279	1275	593
35°	1137	1133	1123	1123	1119	710
45°	951	951	939	933	931	733
55°	741	739	731	725	719	662
65°	514	512	502	496	490	507
75°	272	270	266	264	260	289
85°	56	58	60	60	60	69
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1454.7	1454.7	1454.7	1454.7	1454.7
2.5°	1458.7	1454.7	1446.7	1456.7	1452.7
5°	1452.7	1450.7	1440.7	1452.7	1446.7
7.5°	1444.7	1442.7	1432.7	1442.7	1438.7
10°	1430.7	1428.7	1418.7	1428.7	1424.7
12.5°	1416.7	1414.7	1404.7	1412.7	1408.7
15°	1396.7	1394.7	1384.7	1392.7	1388.7
17.5°	1374.8	1372.8	1360.8	1368.8	1366.8
20°	1346.8	1344.8	1334.8	1340.8	1338.8
22.5°	1318.8	1316.8	1306.8	1312.8	1308.8
25°	1288.8	1284.8	1274.8	1278.8	1274.8
27.5°	1252.9	1250.9	1240.9	1242.9	1238.9
30°	1216.9	1214.9	1202.9	1204.9	1200.9
32.5°	1174.9	1174.9	1164.9	1164.9	1160.9
35°	1137.0	1133.0	1123.0	1123.0	1119.0
37.5°	1093.0	1089.0	1081.0	1079.0	1075.0
40°	1047.0	1045.1	1035.1	1033.1	1029.1
42.5°	997.1	999.1	989.1	983.1	979.1
45°	951.1	951.1	939.1	933.2	931.2
47.5°	901.2	901.2	891.2	885.2	881.2
50°	845.2	849.2	841.2	831.2	827.2
52.5°	793.3	795.3	785.3	779.3	775.3
55°	741.3	739.3	731.3	725.3	719.3
57.5°	687.4	685.4	673.4	667.4	663.4
60°	627.4	627.4	617.4	611.4	607.4
62.5°	571.5	569.5	561.5	553.5	551.5
65°	513.5	511.5	501.5	495.5	489.6
67.5°	451.6	449.6	443.6	435.6	431.6
70°	395.6	389.6	383.7	377.7	375.7
72.5°	335.7	329.7	323.7	319.7	315.7
75°	271.8	269.8	265.8	263.8	259.8
77.5°	213.8	213.8	209.8	207.8	207.8
80°	155.9	155.9	155.9	153.9	153.9
82.5°	101.9	103.9	103.9	101.9	103.9
85°	55.9	57.9	59.9	59.9	59.9
87.5°	18.0	24.0	22.0	24.0	24.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)