

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: P688828

Luminaire Tested: SQ4R-PP3-100D-92765-1-UNV-STD-W-4_3500K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688828
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-92765-1-UNV-STD-W-4_3500K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PRISM 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: 3746.5 lumens
Efficiency: N/A
Efficacy: 81.1 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

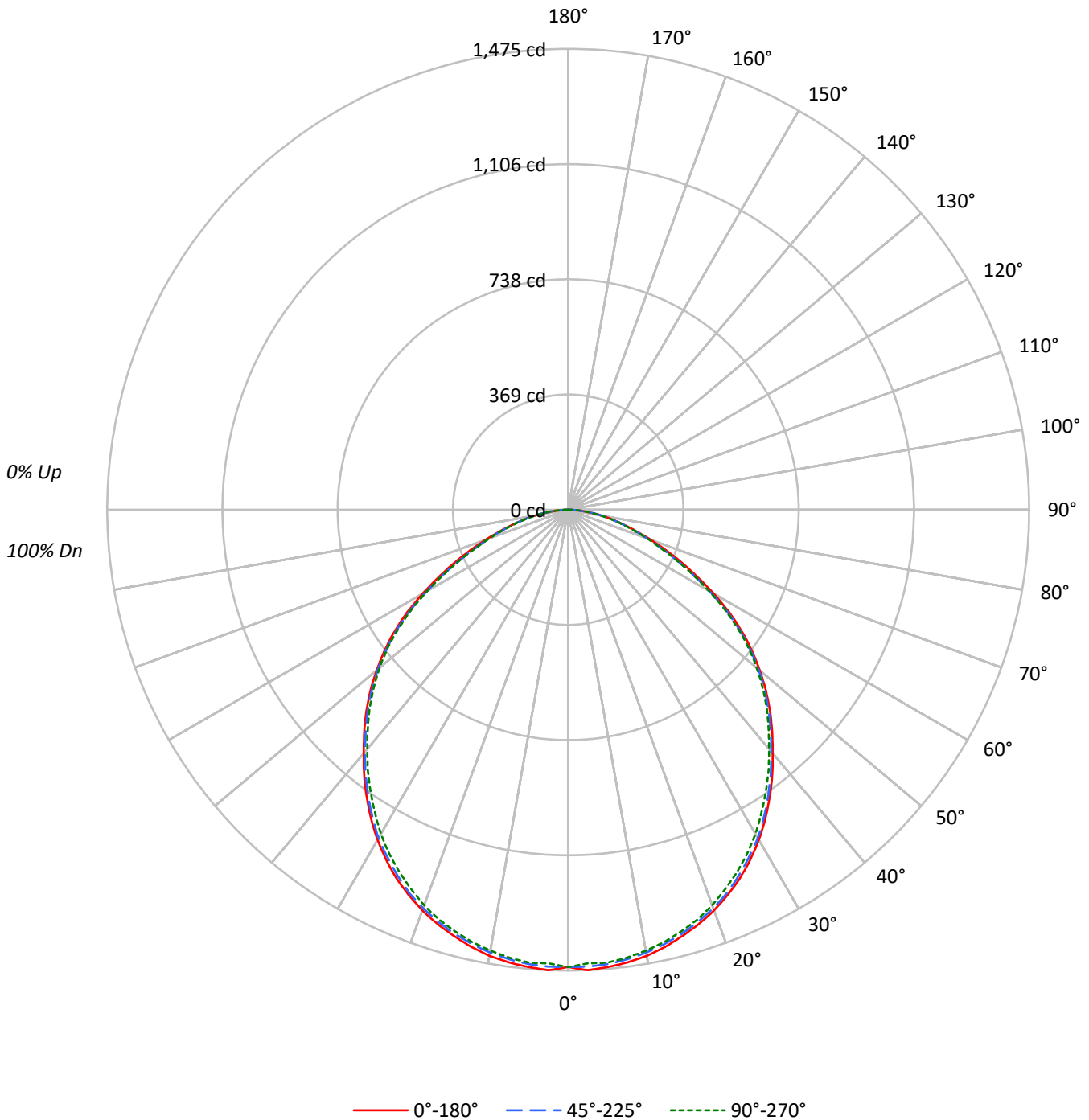
Input Watts (W): 46.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14093	14093	14093
5°	14197	14110	14059
10°	14172	14072	14009
15°	14078	14002	13925
20°	13985	13906	13801
25°	13819	13723	13587
30°	13563	13492	13321
35°	13208	13118	12952
40°	12786	12706	12560
45°	12436	12349	12228
50°	11989	11913	11798
55°	11370	11219	11133
60°	10349	10055	10005
65°	9119	8738	8709
70°	7873	7547	7547
75°	6777	6681	6584
80°	5977	6043	5905
85°	4673	5103	5103

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12436 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.5	3.7
10°-20°	395.5	10.6
20°-30°	592.3	15.8
30°-40°	694.7	18.5
40°-50°	696.9	18.6
50°-60°	595.0	15.9
60°-70°	386.7	10.3
70°-80°	193.7	5.2
80°-90°	53.1	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°	1126.3	30.1
0°-40°	1821.0	48.6
0°-60°	3113.0	83.1
0°-90°	3746.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3746.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1464	1464	1464	1464	1464	
5°	1469	1455	1460	1455	1455	140
15°	1412	1398	1405	1400	1397	399
25°	1301	1286	1292	1280	1279	599
35°	1124	1112	1116	1103	1102	703
45°	913	907	907	898	898	704
55°	677	675	668	665	663	603
65°	400	393	384	381	382	399
75°	182	182	180	178	177	197
85°	42	46	46	46	46	50
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1463.8	1463.8	1463.8	1463.8	1463.8
2.5°	1475.4	1460.0	1463.8	1461.3	1453.6
5°	1469.0	1454.8	1460.0	1454.8	1454.8
7.5°	1461.3	1445.9	1451.0	1445.9	1445.9
10°	1449.7	1434.3	1439.5	1434.3	1433.0
12.5°	1433.0	1417.6	1424.1	1417.6	1417.6
15°	1412.5	1398.4	1404.8	1399.7	1397.1
17.5°	1390.7	1375.3	1383.0	1376.6	1375.3
20°	1365.0	1349.6	1357.3	1347.1	1347.1
22.5°	1334.2	1318.9	1327.8	1313.7	1313.7
25°	1300.9	1285.5	1291.9	1280.4	1279.1
27.5°	1262.4	1247.0	1253.4	1240.6	1240.6
30°	1220.1	1206.0	1213.7	1199.5	1198.3
32.5°	1173.9	1161.1	1166.2	1152.1	1150.8
35°	1123.8	1112.3	1116.2	1103.3	1102.0
37.5°	1072.5	1059.7	1064.8	1053.3	1053.3
40°	1017.4	1009.7	1011.0	1002.0	999.4
42.5°	966.0	957.1	958.4	949.4	949.4
45°	913.4	907.0	907.0	898.1	898.1
47.5°	858.3	853.2	851.9	844.2	844.2
50°	800.5	796.7	795.4	789.0	787.7
52.5°	740.3	739.0	733.8	728.7	728.7
55°	677.4	674.8	668.4	664.6	663.3
57.5°	610.7	605.5	599.1	592.7	594.0
60°	537.5	532.4	522.2	519.6	519.6
62.5°	467.0	460.6	450.3	446.5	449.0
65°	400.3	392.6	383.6	381.0	382.3
67.5°	338.7	331.0	320.7	320.7	319.5
70°	279.7	275.8	268.1	268.1	268.1
72.5°	227.1	225.8	220.7	220.7	219.4
75°	182.2	182.2	179.6	178.3	177.0
77.5°	143.7	143.7	142.4	141.1	138.6
80°	107.8	110.3	109.0	107.8	106.5
82.5°	74.4	77.0	77.0	74.4	74.4
85°	42.3	46.2	46.2	46.2	46.2
87.5°	14.1	19.2	20.5	20.5	21.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)