

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: P688832

Luminaire Tested: SQ4R-PP3-100D-92765-1-UNV-STD-W-4_5700K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688832
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_5700K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
1000 LUMENS PER FOOT
Light Source: 5700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4110.5 lumens
Efficiency: N/A
Efficacy: 88.6 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

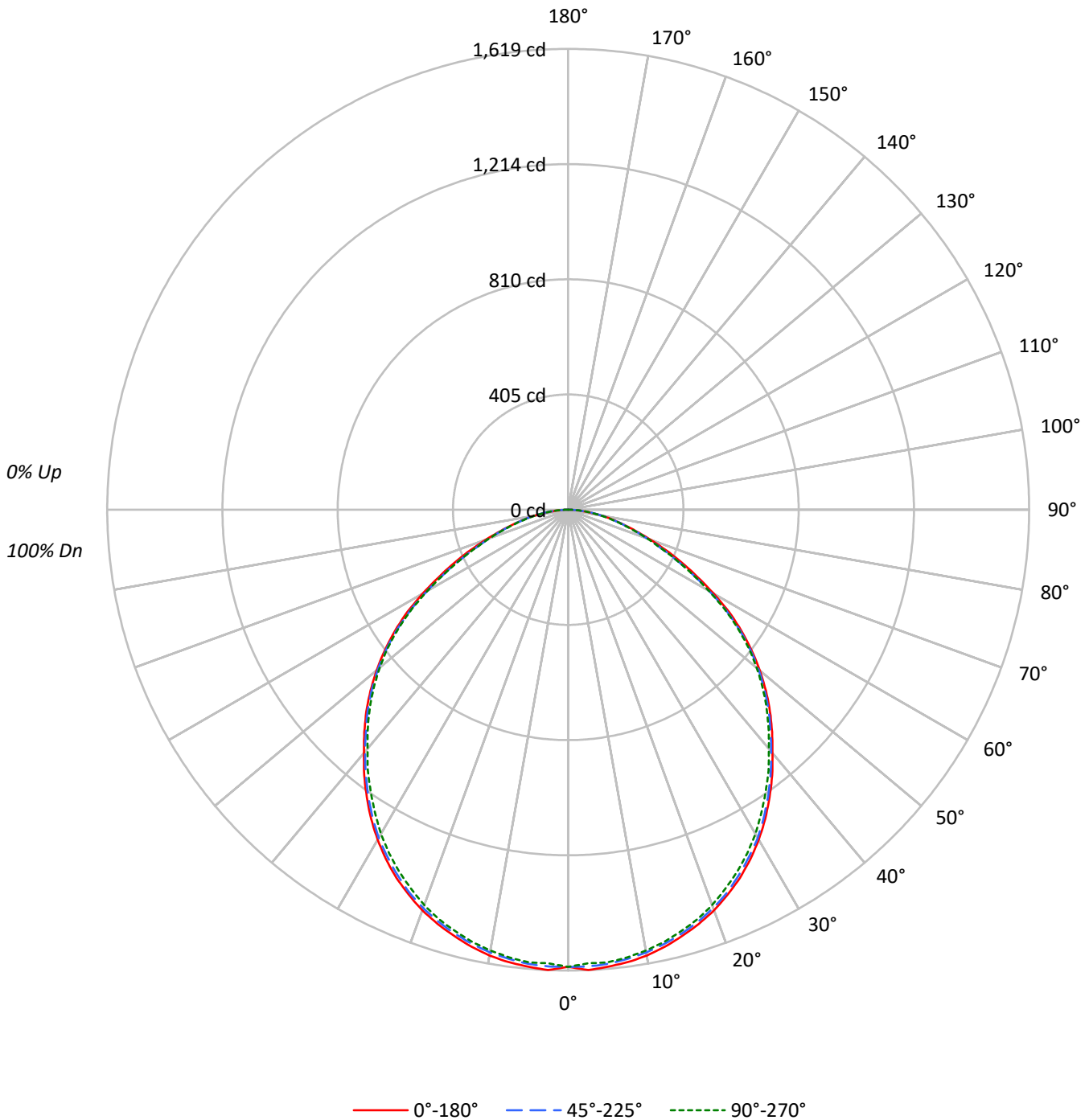
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	15462	15462	15462
5°	15576	15480	15426
10°	15549	15439	15371
15°	15447	15362	15278
20°	15344	15257	15142
25°	15162	15056	14908
30°	14881	14803	14615
35°	14491	14392	14210
40°	14028	13940	13780
45°	13645	13550	13415
50°	13155	13071	12945
55°	12474	12310	12214
60°	11356	11031	10977
65°	10005	9588	9556
70°	8639	8281	8281
75°	7436	7332	7224
80°	6553	6631	6476
85°	5136	5600	5600

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13645 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.9	3.7
10°-20°	433.9	10.6
20°-30°	649.9	15.8
30°-40°	762.2	18.5
40°-50°	764.6	18.6
50°-60°	652.9	15.9
60°-70°	424.3	10.3
70°-80°	212.5	5.2
80°-90°	58.3	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°	1235.7	30.1
0°-40°	1998.0	48.6
0°-60°	3415.4	83.1
0°-90°	4110.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4110.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1606	1606	1606	1606	1606	
5°	1612	1596	1602	1596	1596	153
15°	1550	1534	1541	1536	1533	437
25°	1427	1410	1417	1405	1403	657
35°	1233	1220	1225	1210	1209	771
45°	1002	995	995	985	985	772
55°	743	740	733	729	728	661
65°	439	431	421	418	420	438
75°	200	200	197	196	194	216
85°	46	51	51	51	51	55
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1606.1	1606.1	1606.1	1606.1	1606.1
2.5°	1618.7	1601.8	1606.1	1603.2	1594.8
5°	1611.7	1596.2	1601.8	1596.2	1596.2
7.5°	1603.2	1586.4	1592.0	1586.4	1586.4
10°	1590.6	1573.7	1579.3	1573.7	1572.3
12.5°	1572.3	1555.4	1562.4	1555.4	1555.4
15°	1549.8	1534.3	1541.3	1535.7	1532.9
17.5°	1525.8	1508.9	1517.4	1510.3	1508.9
20°	1497.7	1480.8	1489.2	1478.0	1478.0
22.5°	1463.9	1447.0	1456.9	1441.4	1441.4
25°	1427.3	1410.4	1417.4	1404.8	1403.4
27.5°	1385.1	1368.2	1375.2	1361.1	1361.1
30°	1338.6	1323.1	1331.6	1316.1	1314.7
32.5°	1287.9	1273.9	1279.5	1264.0	1262.6
35°	1233.0	1220.4	1224.6	1210.5	1209.1
37.5°	1176.7	1162.7	1168.3	1155.6	1155.6
40°	1116.2	1107.8	1109.2	1099.3	1096.5
42.5°	1059.9	1050.1	1051.5	1041.6	1041.6
45°	1002.2	995.2	995.2	985.3	985.3
47.5°	941.7	936.0	934.6	926.2	926.2
50°	878.3	874.1	872.7	865.7	864.3
52.5°	812.2	810.8	805.1	799.5	799.5
55°	743.2	740.4	733.4	729.1	727.7
57.5°	670.0	664.4	657.3	650.3	651.7
60°	589.8	584.1	572.9	570.1	570.1
62.5°	512.4	505.3	494.1	489.8	492.7
65°	439.2	430.7	420.9	418.1	419.5
67.5°	371.6	363.2	351.9	351.9	350.5
70°	306.9	302.6	294.2	294.2	294.2
72.5°	249.1	247.7	242.1	242.1	240.7
75°	199.9	199.9	197.1	195.7	194.2
77.5°	157.7	157.7	156.2	154.8	152.0
80°	118.2	121.1	119.6	118.2	116.8
82.5°	81.6	84.5	84.5	81.6	81.6
85°	46.5	50.7	50.7	50.7	50.7
87.5°	15.5	21.1	22.5	22.5	23.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)