

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: P688808

Luminaire Tested: SQ4R-PP3-050D-93050-1-UNV-STD-W-4_3000K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688808
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-PP3-050D-93050-1-UNV-STD-W-4_3000K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1938.2 lumens
Efficiency: N/A
Efficacy: 91.4 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

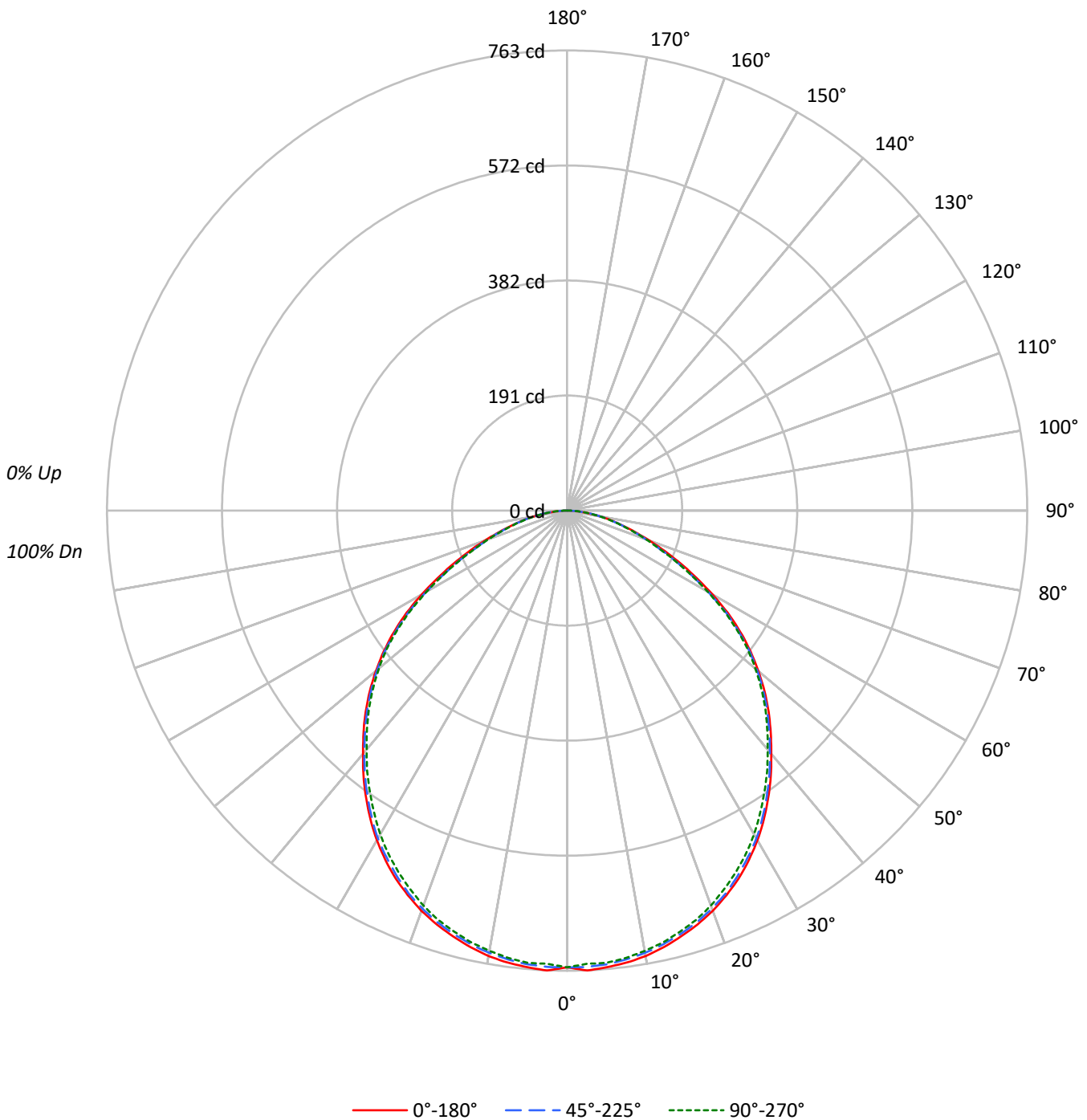
Input Watts (W): 21.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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°	7291	7291	7291
5°	7345	7299	7274
10°	7332	7280	7248
15°	7284	7244	7204
20°	7235	7194	7140
25°	7149	7100	7029
30°	7017	6980	6891
35°	6833	6786	6700
40°	6614	6573	6497
45°	6435	6390	6326
50°	6204	6163	6103
55°	5881	5804	5759
60°	5355	5201	5176
65°	4718	4522	4506
70°	4073	3904	3904
75°	3504	3456	3407
80°	3094	3127	3055
85°	2419	2640	2640

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6435 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.6	3.7
10°-20°	204.6	10.6
20°-30°	306.5	15.8
30°-40°	359.4	18.5
40°-50°	360.5	18.6
50°-60°	307.8	15.9
60°-70°	200.1	10.3
70°-80°	100.2	5.2
80°-90°	27.5	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°	582.7	30.1
0°-40°	942.1	48.6
0°-60°	1610.5	83.1
0°-90°	1938.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1938.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	757	757	757	757	757	
5°	760	753	755	753	753	72
15°	731	724	727	724	723	206
25°	673	665	668	662	662	310
35°	581	575	577	571	570	363
45°	473	469	469	465	465	364
55°	350	349	346	344	343	312
65°	207	203	198	197	198	206
75°	94	94	93	92	92	102
85°	22	24	24	24	24	26
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	757.3	757.3	757.3	757.3	757.3
2.5°	763.3	755.3	757.3	756.0	752.0
5°	760.0	752.7	755.3	752.7	752.7
7.5°	756.0	748.0	750.7	748.0	748.0
10°	750.0	742.0	744.7	742.0	741.4
12.5°	741.4	733.4	736.7	733.4	733.4
15°	730.8	723.5	726.8	724.1	722.8
17.5°	719.5	711.5	715.5	712.2	711.5
20°	706.2	698.2	702.2	696.9	696.9
22.5°	690.3	682.3	687.0	679.7	679.7
25°	673.0	665.1	668.4	662.4	661.7
27.5°	653.1	645.1	648.5	641.8	641.8
30°	631.2	623.9	627.9	620.6	619.9
32.5°	607.3	600.7	603.3	596.0	595.4
35°	581.4	575.4	577.4	570.8	570.1
37.5°	554.9	548.2	550.9	544.9	544.9
40°	526.3	522.4	523.0	518.4	517.0
42.5°	499.8	495.1	495.8	491.2	491.2
45°	472.6	469.3	469.3	464.6	464.6
47.5°	444.0	441.4	440.7	436.7	436.7
50°	414.2	412.2	411.5	408.2	407.5
52.5°	383.0	382.3	379.7	377.0	377.0
55°	350.4	349.1	345.8	343.8	343.1
57.5°	315.9	313.3	310.0	306.6	307.3
60°	278.1	275.4	270.1	268.8	268.8
62.5°	241.6	238.3	233.0	231.0	232.3
65°	207.1	203.1	198.5	197.1	197.8
67.5°	175.2	171.2	165.9	165.9	165.3
70°	144.7	142.7	138.7	138.7	138.7
72.5°	117.5	116.8	114.2	114.2	113.5
75°	94.2	94.2	92.9	92.3	91.6
77.5°	74.3	74.3	73.7	73.0	71.7
80°	55.8	57.1	56.4	55.8	55.1
82.5°	38.5	39.8	39.8	38.5	38.5
85°	21.9	23.9	23.9	23.9	23.9
87.5°	7.3	10.0	10.6	10.6	11.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)