

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: P688576

Luminaire Tested: SQ4R-PR1-050D-935-1-UNV-STD-W-4

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688576
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/22/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4R-PR1-050D-935-1-UNV-STD-W-4
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
500 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1688.4 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.23 / 1.34
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')
CIE Type: Direct

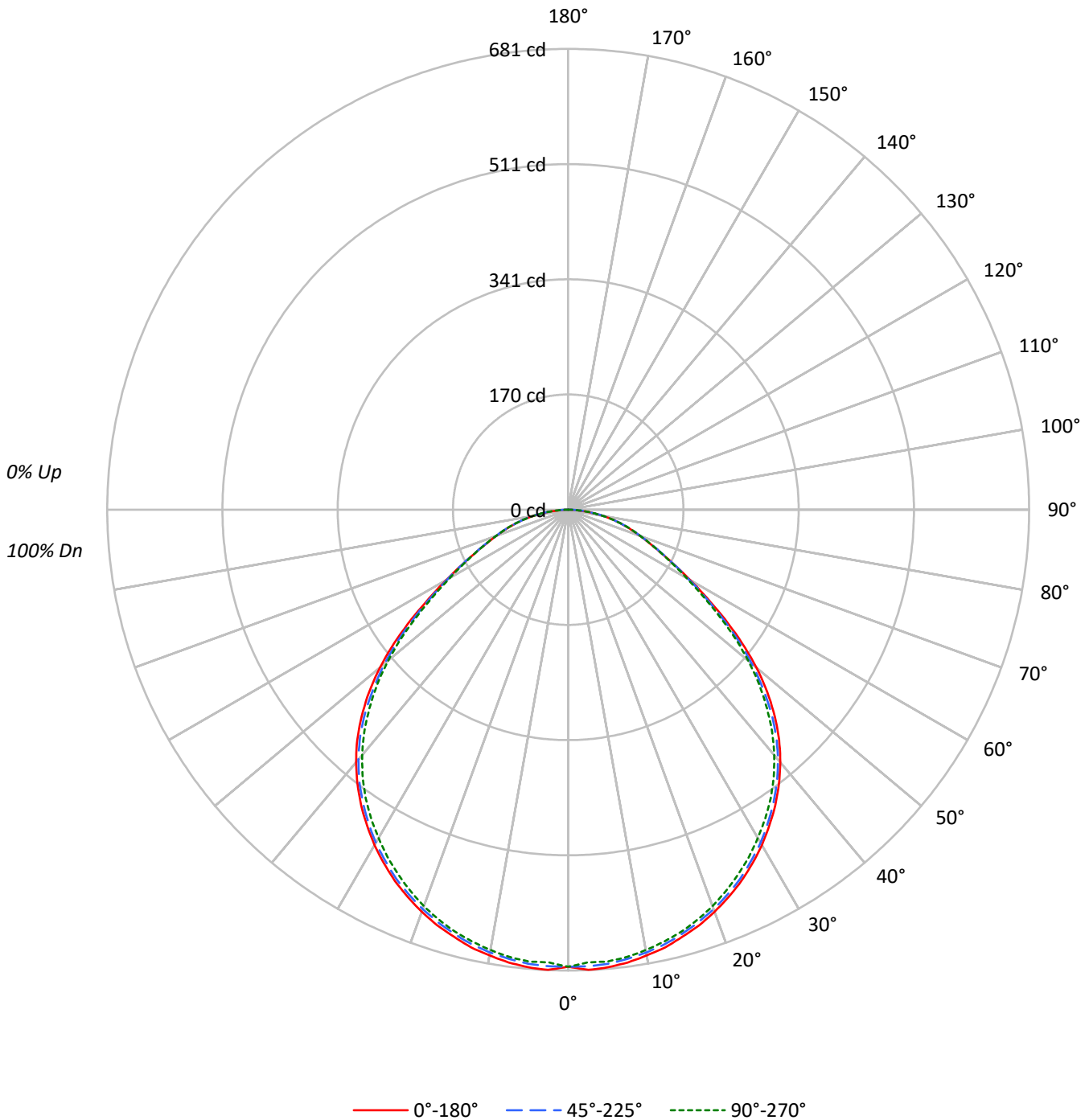
Input Watts (W): 18.9
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	110	105	101	98	107	103	99	96	99	96	93		95	92	90		91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78		84	80	76		81	78	75	72
3	92	82	74	68	90	80	73	68	78	71	66		75	70	65		72	68	64	62
4	85	73	65	58	82	72	64	58	69	63	57		67	61	56		65	60	56	54
5	78	66	57	51	76	65	57	50	63	55	50		61	54	49		59	53	49	47
6	72	59	51	45	70	58	50	44	57	49	44		55	49	44		53	48	43	41
7	67	54	46	40	65	53	45	39	52	44	39		50	44	39		49	43	39	37
8	63	49	41	36	61	49	41	35	47	40	35		46	40	35		45	39	35	33
9	58	45	37	32	57	45	37	32	44	37	32		43	36	32		42	36	31	30
10	55	42	34	29	54	41	34	29	40	34	29		40	33	29		39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6501	6501	6501
5°	6560	6510	6476
10°	6539	6494	6460
15°	6510	6471	6436
20°	6478	6436	6389
25°	6432	6389	6315
30°	6363	6318	6228
35°	6269	6215	6126
40°	6127	6060	5951
45°	5876	5774	5654
50°	5437	5307	5202
55°	4745	4638	4540
60°	3999	3965	3886
65°	3458	3472	3444
70°	3175	3192	3192
75°	3050	3050	3072
80°	2872	2905	2872
85°	2309	2574	2574

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5876 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.9	3.8
10°-20°	182.8	10.8
20°-30°	275.7	16.3
30°-40°	328.6	19.5
40°-50°	324.2	19.2
50°-60°	247.3	14.6
60°-70°	152.6	9.0
70°-80°	87.0	5.2
80°-90°	26.2	1.6
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°	522.5	30.9
0°-40°	851.1	50.4
0°-60°	1422.5	84.3
0°-90°	1688.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1688.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	675	675	675	675	675	
5°	679	671	674	671	670	64
15°	653	646	649	647	646	184
25°	606	598	602	595	594	279
35°	533	527	529	522	521	333
45°	432	426	424	416	415	331
55°	283	278	276	272	270	253
65°	152	151	152	151	151	153
75°	82	82	82	83	83	87
85°	21	22	23	23	23	25
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	675.3	675.3	675.3	675.3	675.3
2.5°	680.6	673.0	675.3	673.6	669.5
5°	678.8	671.3	673.6	671.3	670.1
7.5°	674.8	667.2	669.5	667.2	666.6
10°	668.9	662.0	664.3	662.0	660.8
12.5°	662.6	655.0	657.9	655.0	653.8
15°	653.2	646.3	649.2	646.8	645.7
17.5°	643.9	636.4	639.3	637.0	635.2
20°	632.3	625.3	628.2	624.2	623.6
22.5°	619.5	612.5	615.4	609.6	609.6
25°	605.5	598.0	601.5	595.1	594.5
27.5°	589.3	582.3	585.2	578.8	578.2
30°	572.4	565.4	568.3	561.3	560.2
32.5°	553.2	546.8	549.1	542.1	541.6
35°	533.4	527.0	528.8	521.8	521.2
37.5°	511.3	505.5	506.7	499.1	498.5
40°	487.5	481.6	482.2	474.1	473.5
42.5°	461.3	455.5	454.9	446.7	446.2
45°	431.6	425.8	424.1	416.5	415.3
47.5°	399.0	393.2	389.7	383.3	382.8
50°	363.0	357.2	354.3	349.0	347.3
52.5°	324.0	318.2	315.9	311.2	309.5
55°	282.7	278.1	276.3	271.7	270.5
57.5°	243.1	239.7	239.1	234.4	233.8
60°	207.7	205.9	205.9	201.8	201.8
62.5°	177.4	176.3	177.4	175.1	174.5
65°	151.8	150.7	152.4	151.2	151.2
67.5°	130.3	130.3	131.5	130.9	130.9
70°	112.8	112.8	113.4	113.4	113.4
72.5°	97.1	96.6	98.3	98.3	97.7
75°	82.0	82.0	82.0	82.6	82.6
77.5°	66.9	66.9	67.5	67.5	66.9
80°	51.8	52.4	52.4	51.8	51.8
82.5°	36.6	37.2	37.2	37.2	36.6
85°	20.9	22.1	23.3	23.3	23.3
87.5°	7.6	9.9	11.6	11.6	11.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)