

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: P688540

Luminaire Tested: SQ4R-PP3-050D-935-1-UNV-STD-W-4

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688540
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-935-1-UNV-STD-W-4
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PRISM 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: 1707.0 lumens
Efficiency: N/A
Efficacy: 90.3 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

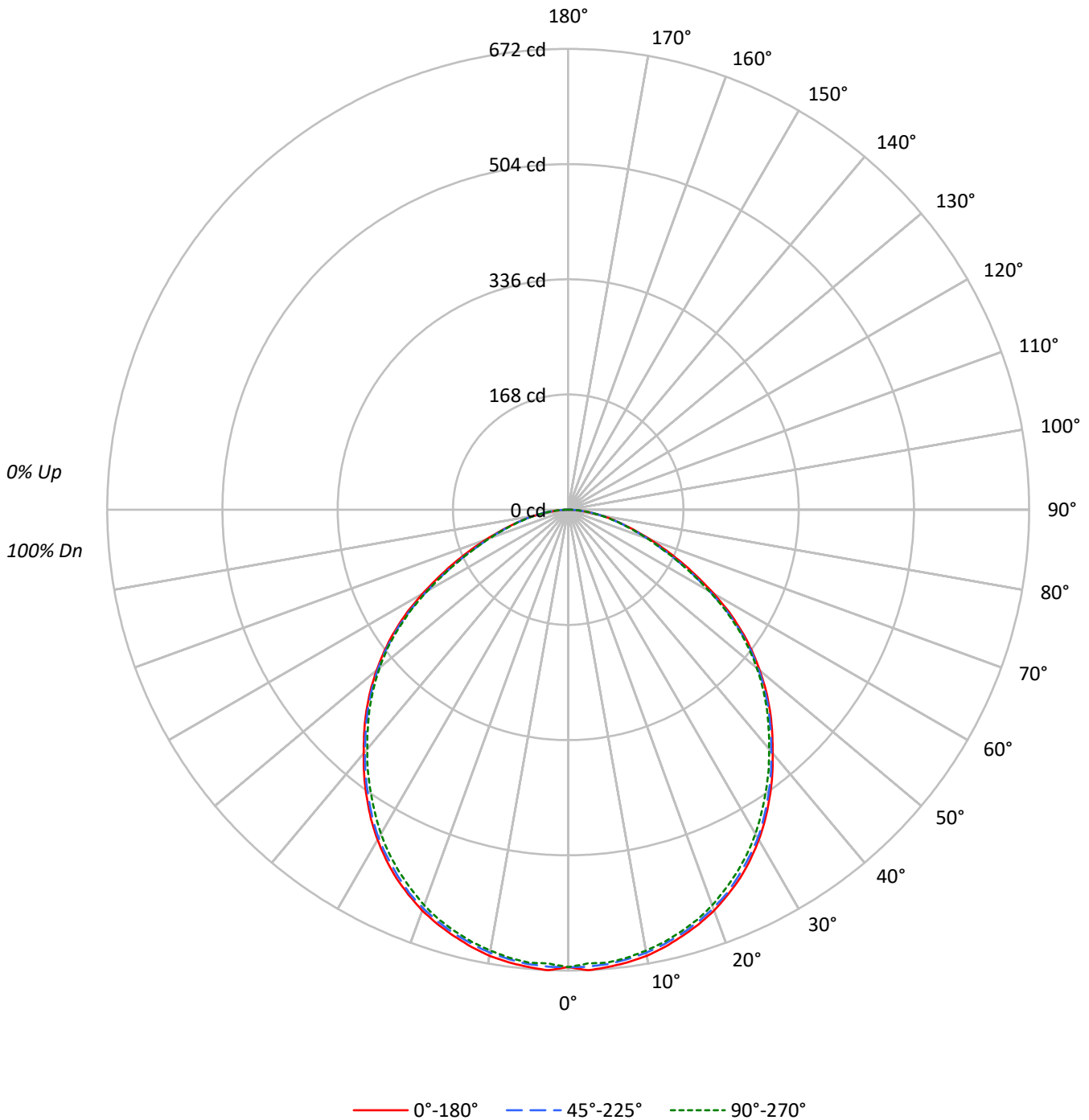
Input Watts (W): 18.9
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20				20			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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85	85	
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72	72	
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61	61	
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55	53	53	
5	77	65	56	50	75	64	56	50	62	55	49	60	53	48	58	52	48	46	46	
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40	40	
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36	36	
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32	32	
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29	29	
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26	26	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6421	6421	6421
5°	6468	6429	6406
10°	6457	6412	6383
15°	6415	6380	6345
20°	6373	6337	6289
25°	6296	6252	6191
30°	6180	6148	6070
35°	6019	5977	5901
40°	5825	5789	5723
45°	5667	5627	5571
50°	5464	5428	5375
55°	5180	5113	5072
60°	4715	4581	4558
65°	4155	3982	3968
70°	3586	3440	3440
75°	3087	3043	3002
80°	2722	2755	2689
85°	2132	2320	2320

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5667 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.1	3.7
10°-20°	180.2	10.6
20°-30°	269.9	15.8
30°-40°	316.5	18.5
40°-50°	317.5	18.6
50°-60°	271.1	15.9
60°-70°	176.2	10.3
70°-80°	88.2	5.2
80°-90°	24.2	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°	513.2	30.1
0°-40°	829.7	48.6
0°-60°	1418.4	83.1
0°-90°	1707.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1707.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	667	667	667	667	667	
5°	669	663	665	663	663	64
15°	644	637	640	638	637	182
25°	593	586	589	583	583	273
35°	512	507	509	503	502	320
45°	416	413	413	409	409	321
55°	309	308	305	303	302	275
65°	182	179	175	174	174	182
75°	83	83	82	81	81	90
85°	19	21	21	21	21	23
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	667.0	667.0	667.0	667.0	667.0
2.5°	672.2	665.2	667.0	665.8	662.3
5°	669.3	662.9	665.2	662.9	662.9
7.5°	665.8	658.8	661.1	658.8	658.8
10°	660.5	653.5	655.9	653.5	652.9
12.5°	652.9	645.9	648.8	645.9	645.9
15°	643.6	637.2	640.1	637.7	636.6
17.5°	633.7	626.6	630.1	627.2	626.6
20°	622.0	614.9	618.5	613.8	613.8
22.5°	607.9	600.9	605.0	598.6	598.6
25°	592.7	585.7	588.6	583.4	582.8
27.5°	575.2	568.2	571.1	565.3	565.3
30°	555.9	549.5	553.0	546.6	546.0
32.5°	534.9	529.0	531.4	524.9	524.3
35°	512.1	506.8	508.6	502.7	502.1
37.5°	488.7	482.8	485.2	479.9	479.9
40°	463.5	460.0	460.6	456.5	455.4
42.5°	440.2	436.1	436.7	432.6	432.6
45°	416.2	413.3	413.3	409.2	409.2
47.5°	391.1	388.7	388.1	384.6	384.6
50°	364.8	363.0	362.4	359.5	358.9
52.5°	337.3	336.7	334.4	332.0	332.0
55°	308.6	307.5	304.6	302.8	302.2
57.5°	278.2	275.9	273.0	270.1	270.6
60°	244.9	242.6	237.9	236.7	236.7
62.5°	212.8	209.9	205.2	203.4	204.6
65°	182.4	178.9	174.8	173.6	174.2
67.5°	154.3	150.8	146.1	146.1	145.6
70°	127.4	125.7	122.2	122.2	122.2
72.5°	103.5	102.9	100.5	100.5	100.0
75°	83.0	83.0	81.8	81.3	80.7
77.5°	65.5	65.5	64.9	64.3	63.1
80°	49.1	50.3	49.7	49.1	48.5
82.5°	33.9	35.1	35.1	33.9	33.9
85°	19.3	21.0	21.0	21.0	21.0
87.5°	6.4	8.8	9.4	9.4	9.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)