

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: P688541

Luminaire Tested: SQ4R-PP3-050D-940-1-UNV-STD-W-4

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688541
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-940-1-UNV-STD-W-4
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
500 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1699.5 lumens
Efficiency: N/A
Efficacy: 89.9 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

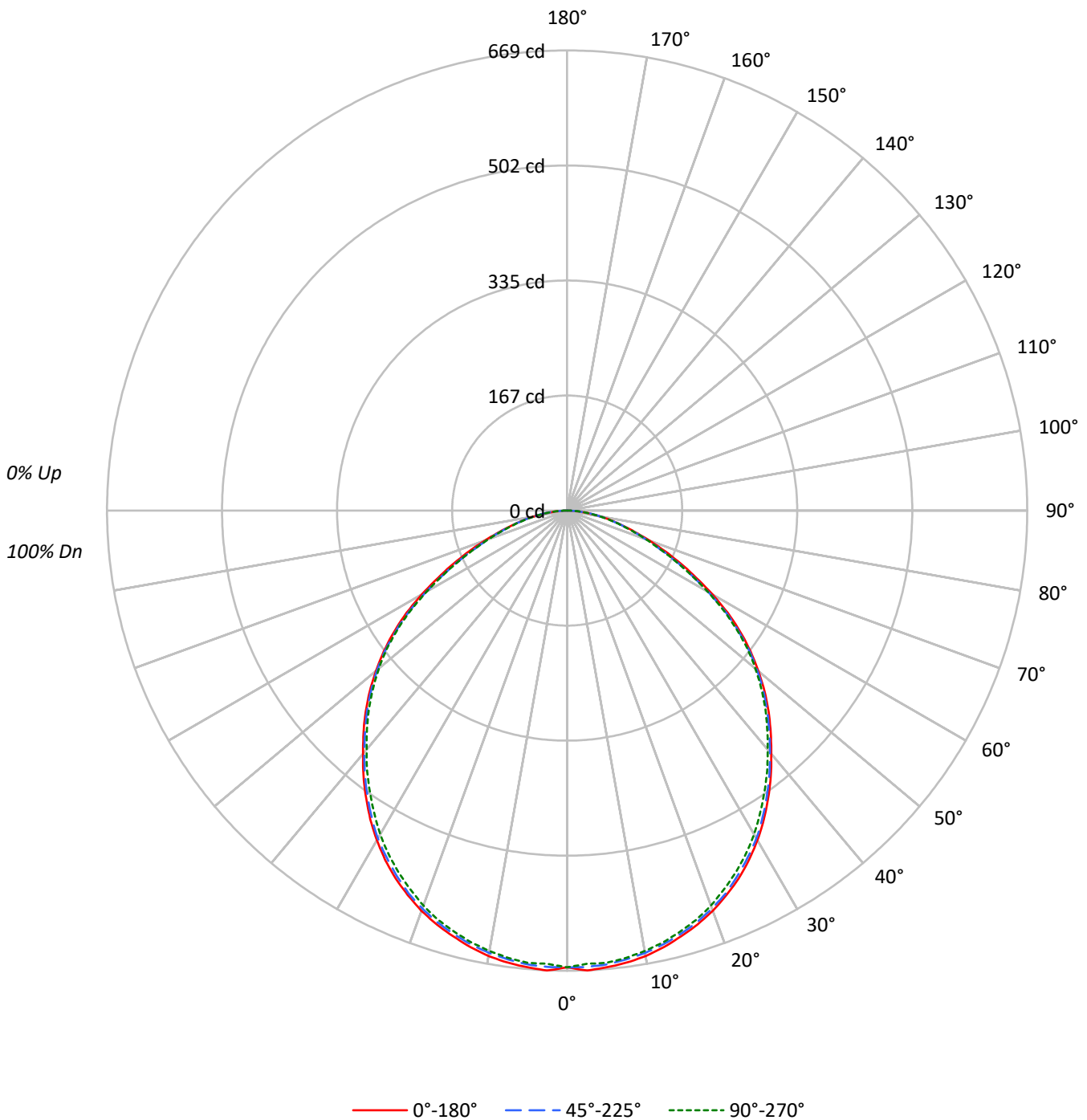
Input Watts (W): 18.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	6393	6393	6393
5°	6440	6401	6377
10°	6429	6384	6355
15°	6386	6352	6317
20°	6344	6308	6261
25°	6268	6225	6163
30°	6152	6120	6043
35°	5992	5950	5875
40°	5800	5764	5698
45°	5642	5601	5547
50°	5438	5404	5351
55°	5158	5089	5051
60°	4694	4561	4538
65°	4137	3964	3950
70°	3572	3423	3423
75°	3072	3032	2987
80°	2711	2744	2678
85°	2121	2320	2320

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5642 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.8	3.7
10°-20°	179.4	10.6
20°-30°	268.7	15.8
30°-40°	315.1	18.5
40°-50°	316.1	18.6
50°-60°	269.9	15.9
60°-70°	175.4	10.3
70°-80°	87.8	5.2
80°-90°	24.1	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°	510.9	30.1
0°-40°	826.1	48.6
0°-60°	1412.1	83.1
0°-90°	1699.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1699.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	664	664	664	664	664	
5°	666	660	662	660	660	63
15°	641	634	637	635	634	181
25°	590	583	586	581	580	272
35°	510	505	506	500	500	319
45°	414	411	411	407	407	319
55°	307	306	303	302	301	273
65°	182	178	174	173	173	181
75°	83	83	82	81	80	89
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°	664.0	664.0	664.0	664.0	664.0
2.5°	669.3	662.3	664.0	662.9	659.4
5°	666.4	659.9	662.3	659.9	659.9
7.5°	662.9	655.9	658.2	655.9	655.9
10°	657.6	650.6	653.0	650.6	650.1
12.5°	650.1	643.1	646.0	643.1	643.1
15°	640.7	634.3	637.3	634.9	633.8
17.5°	630.9	623.9	627.4	624.4	623.9
20°	619.2	612.2	615.7	611.1	611.1
22.5°	605.2	598.3	602.3	595.9	595.9
25°	590.1	583.1	586.0	580.8	580.2
27.5°	572.7	565.7	568.6	562.8	562.8
30°	553.4	547.0	550.5	544.1	543.6
32.5°	532.5	526.7	529.0	522.6	522.0
35°	509.8	504.6	506.3	500.5	499.9
37.5°	486.5	480.7	483.0	477.8	477.8
40°	461.5	458.0	458.6	454.5	453.4
42.5°	438.2	434.1	434.7	430.7	430.7
45°	414.4	411.4	411.4	407.4	407.4
47.5°	389.3	387.0	386.4	382.9	382.9
50°	363.1	361.4	360.8	357.9	357.3
52.5°	335.8	335.2	332.9	330.6	330.6
55°	307.3	306.1	303.2	301.5	300.9
57.5°	277.0	274.7	271.8	268.9	269.5
60°	243.8	241.5	236.9	235.7	235.7
62.5°	211.8	208.9	204.3	202.5	203.7
65°	181.6	178.1	174.0	172.8	173.4
67.5°	153.6	150.1	145.5	145.5	144.9
70°	126.9	125.1	121.6	121.6	121.6
72.5°	103.0	102.4	100.1	100.1	99.5
75°	82.6	82.6	81.5	80.9	80.3
77.5°	65.2	65.2	64.6	64.0	62.9
80°	48.9	50.0	49.5	48.9	48.3
82.5°	33.8	34.9	34.9	33.8	33.8
85°	19.2	21.0	21.0	21.0	21.0
87.5°	6.4	8.7	9.3	9.3	9.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)