

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: P688879

Luminaire Tested: SQ4R-PR1-050D-92765-1-UNV-STD-W-4_3000K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688879
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-92765-1-UNV-STD-W-4_3000K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE RIPPLE 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: 1718.1 lumens
Efficiency: N/A
Efficacy: 81.4 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

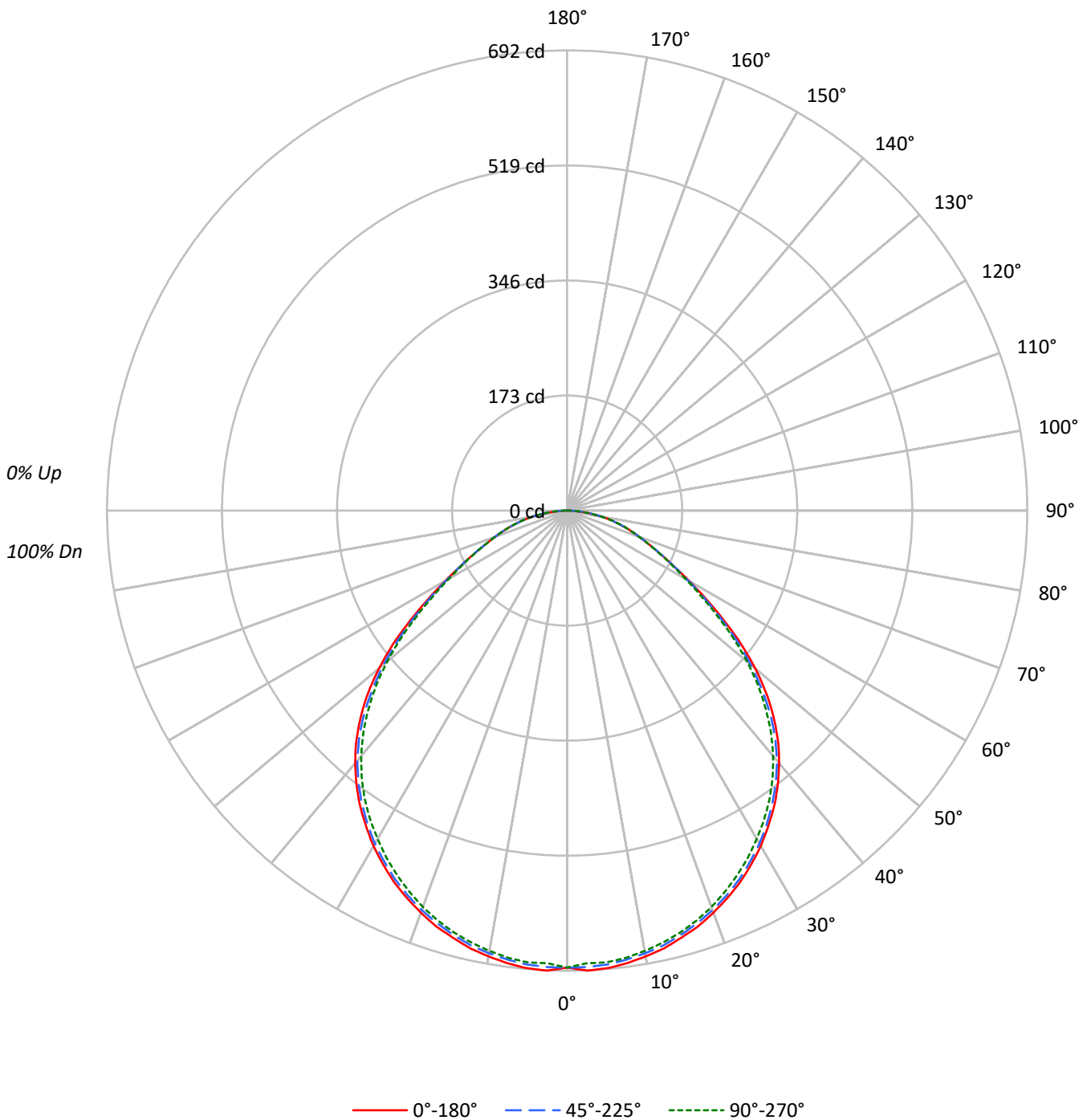
Input Watts (W): 21.1
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				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°	6616	6616	6616
5°	6676	6624	6590
10°	6654	6608	6573
15°	6625	6584	6548
20°	6592	6550	6501
25°	6546	6501	6426
30°	6475	6429	6337
35°	6379	6324	6234
40°	6234	6167	6055
45°	5980	5875	5754
50°	5533	5399	5293
55°	4829	4720	4619
60°	4069	4034	3955
65°	3520	3533	3506
70°	3231	3248	3248
75°	3106	3106	3128
80°	2922	2955	2922
85°	2353	2618	2618

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5980 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.0	3.8
10°-20°	186.0	10.8
20°-30°	280.6	16.3
30°-40°	334.4	19.5
40°-50°	329.9	19.2
50°-60°	251.6	14.6
60°-70°	155.3	9.0
70°-80°	88.5	5.2
80°-90°	26.7	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°	531.6	30.9
0°-40°	866.0	50.4
0°-60°	1447.5	84.3
0°-90°	1718.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1718.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	687	687	687	687	687	
5°	691	683	685	683	682	66
15°	665	658	661	658	657	188
25°	616	608	612	606	605	284
35°	543	536	538	531	530	339
45°	439	433	432	424	423	337
55°	288	283	281	276	275	258
65°	154	153	155	154	154	156
75°	84	84	84	84	84	88
85°	21	22	24	24	24	25
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	687.2	687.2	687.2	687.2	687.2
2.5°	692.5	684.9	687.2	685.4	681.3
5°	690.8	683.1	685.4	683.1	681.9
7.5°	686.6	678.9	681.3	678.9	678.3
10°	680.7	673.6	676.0	673.6	672.4
12.5°	674.2	666.5	669.5	666.5	665.3
15°	664.7	657.6	660.6	658.2	657.0
17.5°	655.3	647.6	650.5	648.2	646.4
20°	643.4	636.3	639.3	635.1	634.5
22.5°	630.4	623.3	626.3	620.3	620.3
25°	616.2	608.5	612.0	605.5	604.9
27.5°	599.6	592.5	595.5	589.0	588.4
30°	582.5	575.3	578.3	571.2	570.0
32.5°	562.9	556.4	558.8	551.7	551.1
35°	542.8	536.3	538.1	531.0	530.4
37.5°	520.3	514.4	515.6	507.9	507.3
40°	496.0	490.1	490.7	482.4	481.8
42.5°	469.4	463.5	462.9	454.6	454.0
45°	439.2	433.3	431.5	423.8	422.6
47.5°	406.1	400.1	396.6	390.1	389.5
50°	369.4	363.4	360.5	355.2	353.4
52.5°	329.7	323.8	321.4	316.7	314.9
55°	287.7	282.9	281.2	276.4	275.2
57.5°	247.4	243.9	243.3	238.5	238.0
60°	211.3	209.5	209.5	205.4	205.4
62.5°	180.5	179.4	180.5	178.2	177.6
65°	154.5	153.3	155.1	153.9	153.9
67.5°	132.6	132.6	133.8	133.2	133.2
70°	114.8	114.8	115.4	115.4	115.4
72.5°	98.9	98.3	100.0	100.0	99.4
75°	83.5	83.5	83.5	84.1	84.1
77.5°	68.1	68.1	68.7	68.7	68.1
80°	52.7	53.3	53.3	52.7	52.7
82.5°	37.3	37.9	37.9	37.9	37.3
85°	21.3	22.5	23.7	23.7	23.7
87.5°	7.7	10.1	11.8	11.8	11.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)