

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: P688801

Luminaire Tested: SQ4R-PP3-050D-92765-1-UNV-STD-W-4_3000K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688801
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-92765-1-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: 1814.0 lumens
Efficiency: N/A
Efficacy: 86.0 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

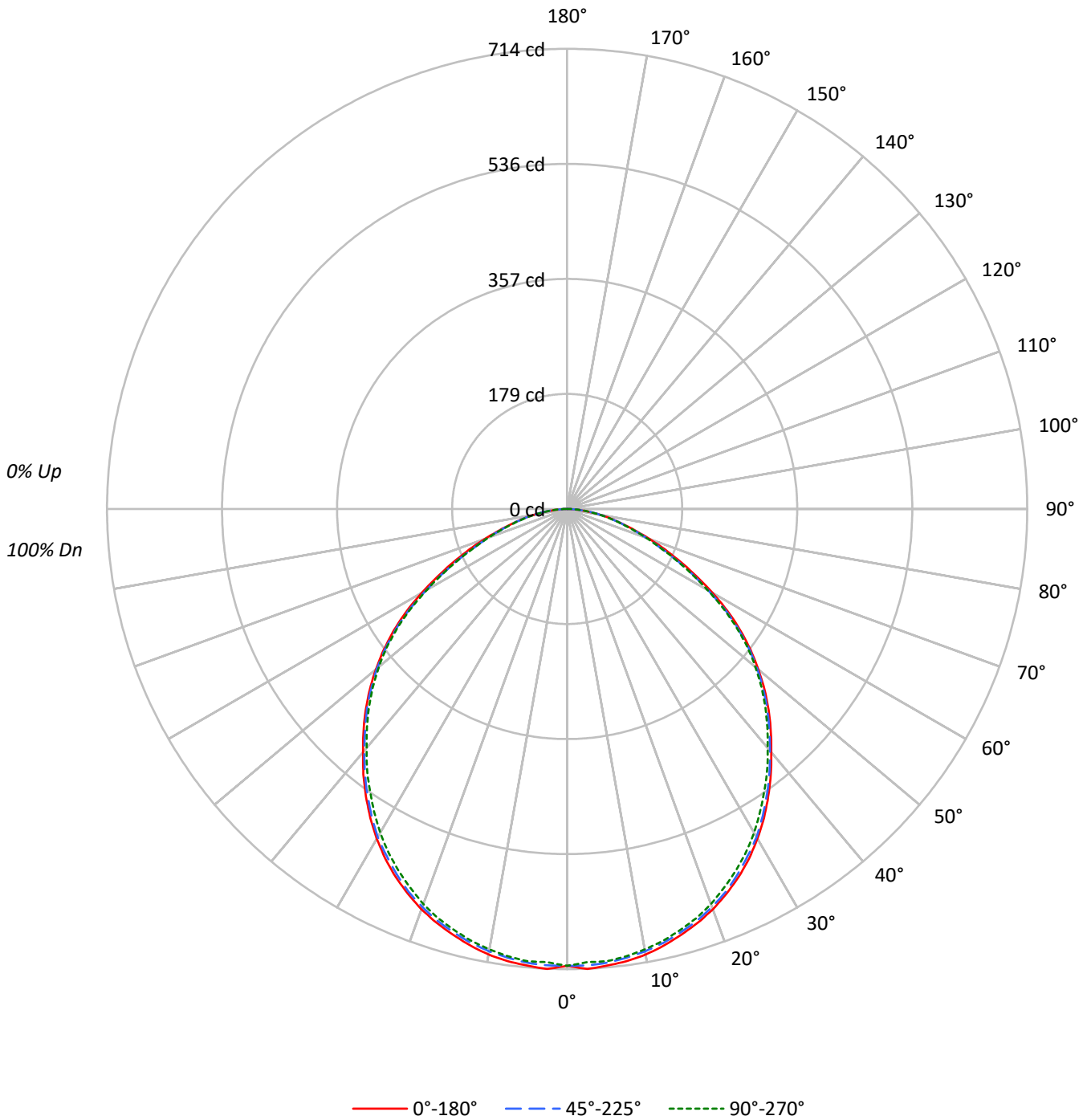
Input Watts (W): 21.1
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	6824	6824	6824
5°	6874	6832	6808
10°	6863	6814	6783
15°	6817	6780	6743
20°	6772	6733	6683
25°	6691	6645	6579
30°	6568	6533	6450
35°	6396	6352	6271
40°	6191	6152	6081
45°	6022	5980	5920
50°	5805	5768	5712
55°	5505	5433	5391
60°	5012	4868	4844
65°	4415	4230	4217
70°	3811	3654	3654
75°	3281	3236	3188
80°	2894	2927	2861
85°	2264	2474	2474

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6022 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.1	3.7
10°-20°	191.5	10.6
20°-30°	286.8	15.8
30°-40°	336.4	18.5
40°-50°	337.4	18.6
50°-60°	288.1	15.9
60°-70°	187.3	10.3
70°-80°	93.8	5.2
80°-90°	25.7	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°	545.4	30.1
0°-40°	881.8	48.6
0°-60°	1507.3	83.1
0°-90°	1814.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1814.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	709	709	709	709	709	
5°	711	704	707	704	704	68
15°	684	677	680	678	676	193
25°	630	622	626	620	619	290
35°	544	539	540	534	534	340
45°	442	439	439	435	435	341
55°	328	327	324	322	321	292
65°	194	190	186	184	185	193
75°	88	88	87	86	86	95
85°	20	22	22	22	22	24
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	708.8	708.8	708.8	708.8	708.8
2.5°	714.4	706.9	708.8	707.6	703.8
5°	711.3	704.5	706.9	704.5	704.5
7.5°	707.6	700.1	702.6	700.1	700.1
10°	702.0	694.5	697.0	694.5	693.9
12.5°	693.9	686.4	689.5	686.4	686.4
15°	684.0	677.1	680.2	677.7	676.5
17.5°	673.4	665.9	669.7	666.6	665.9
20°	661.0	653.5	657.2	652.3	652.3
22.5°	646.1	638.6	643.0	636.1	636.1
25°	629.9	622.5	625.6	620.0	619.3
27.5°	611.3	603.8	606.9	600.7	600.7
30°	590.8	583.9	587.7	580.8	580.2
32.5°	568.4	562.2	564.7	557.8	557.2
35°	544.2	538.6	540.5	534.2	533.6
37.5°	519.3	513.1	515.6	510.0	510.0
40°	492.6	488.9	489.5	485.2	483.9
42.5°	467.8	463.4	464.0	459.7	459.7
45°	442.3	439.2	439.2	434.8	434.8
47.5°	415.6	413.1	412.5	408.8	408.8
50°	387.6	385.8	385.1	382.0	381.4
52.5°	358.4	357.8	355.3	352.8	352.8
55°	328.0	326.8	323.7	321.8	321.2
57.5°	295.7	293.2	290.1	287.0	287.6
60°	260.3	257.8	252.8	251.6	251.6
62.5°	226.1	223.0	218.0	216.2	217.4
65°	193.8	190.1	185.7	184.5	185.1
67.5°	164.0	160.3	155.3	155.3	154.7
70°	135.4	133.6	129.8	129.8	129.8
72.5°	110.0	109.3	106.8	106.8	106.2
75°	88.2	88.2	87.0	86.3	85.7
77.5°	69.6	69.6	69.0	68.3	67.1
80°	52.2	53.4	52.8	52.2	51.6
82.5°	36.0	37.3	37.3	36.0	36.0
85°	20.5	22.4	22.4	22.4	22.4
87.5°	6.8	9.3	9.9	9.9	10.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)