

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: P688807

Luminaire Tested: SQ4R-PP3-050D-92765-1-UNV-STD-W-4_6500K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688807
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_6500K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
500 LUMENS PER FOOT
Light Source: 6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2108.3 lumens
Efficiency: N/A
Efficacy: 99.4 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

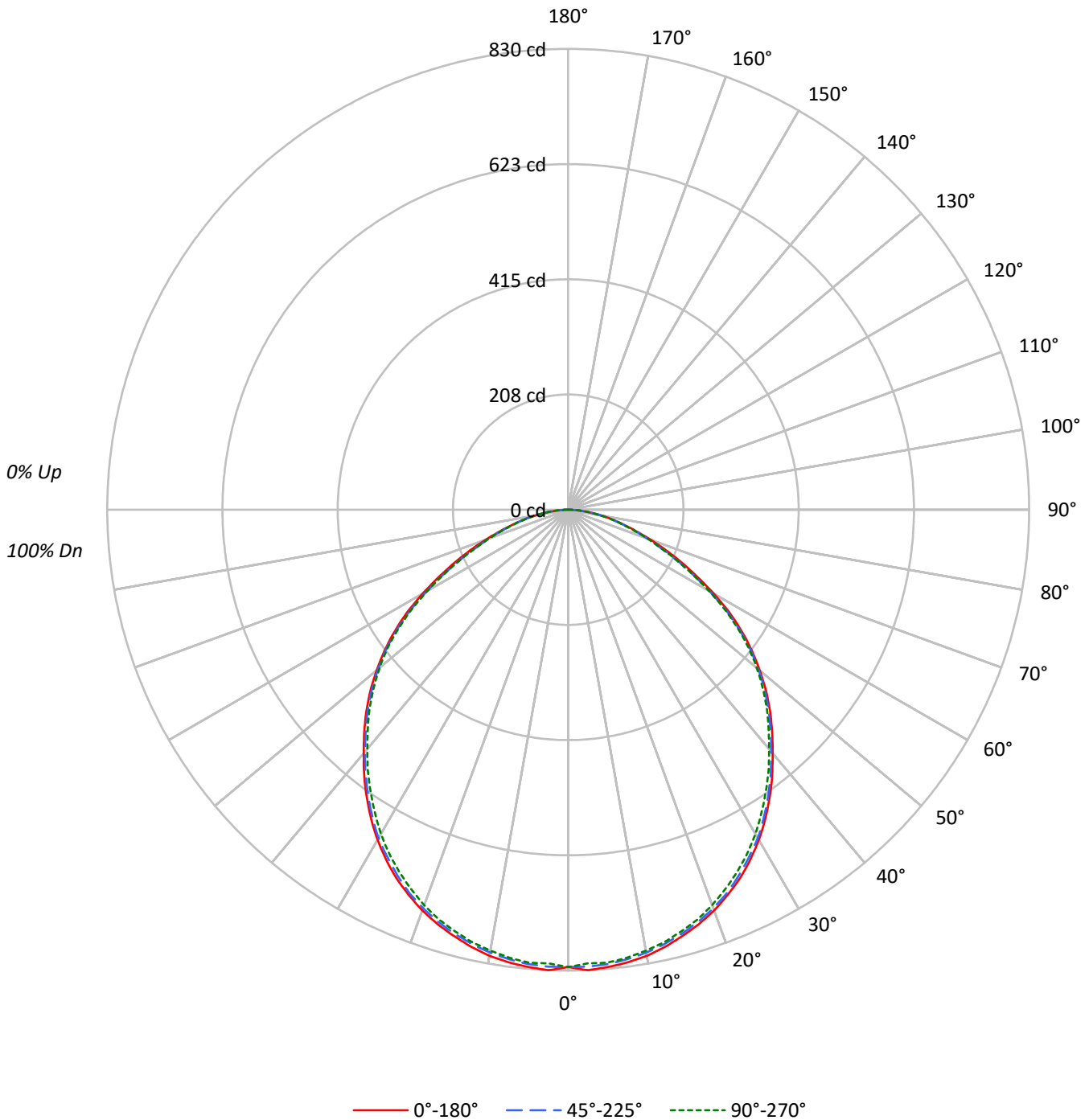
Input Watts (W): 21.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7930	7930	7930
5°	7988	7940	7912
10°	7975	7918	7883
15°	7923	7879	7836
20°	7870	7825	7766
25°	7777	7723	7646
30°	7633	7593	7496
35°	7432	7382	7289
40°	7195	7150	7068
45°	6998	6949	6881
50°	6747	6704	6640
55°	6398	6313	6264
60°	5825	5657	5630
65°	5130	4918	4900
70°	4431	4248	4248
75°	3813	3761	3705
80°	3360	3404	3321
85°	2629	2872	2872

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6998 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.9	3.7
10°-20°	222.5	10.6
20°-30°	333.3	15.8
30°-40°	390.9	18.5
40°-50°	392.2	18.6
50°-60°	334.8	15.9
60°-70°	217.6	10.3
70°-80°	109.0	5.2
80°-90°	29.9	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°	633.8	30.1
0°-40°	1024.7	48.6
0°-60°	1751.7	83.1
0°-90°	2108.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2108.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	824	824	824	824	824	
5°	827	819	822	819	819	79
15°	795	787	790	788	786	224
25°	732	723	727	720	720	337
35°	632	626	628	621	620	395
45°	514	510	510	505	505	396
55°	381	380	376	374	373	339
65°	225	221	216	214	215	225
75°	102	102	101	100	100	111
85°	24	26	26	26	26	28
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	823.7	823.7	823.7	823.7	823.7
2.5°	830.2	821.6	823.7	822.3	818.0
5°	826.6	818.7	821.6	818.7	818.7
7.5°	822.3	813.6	816.5	813.6	813.6
10°	815.8	807.1	810.0	807.1	806.4
12.5°	806.4	797.8	801.4	797.8	797.8
15°	794.9	786.9	790.5	787.6	786.2
17.5°	782.6	773.9	778.3	774.6	773.9
20°	768.2	759.5	763.8	758.0	758.0
22.5°	750.8	742.2	747.2	739.3	739.3
25°	732.1	723.4	727.0	720.5	719.8
27.5°	710.4	701.7	705.3	698.1	698.1
30°	686.6	678.6	683.0	675.0	674.3
32.5°	660.6	653.4	656.3	648.3	647.6
35°	632.4	625.9	628.1	620.9	620.2
37.5°	603.5	596.3	599.2	592.7	592.7
40°	572.5	568.2	568.9	563.8	562.4
42.5°	543.6	538.6	539.3	534.2	534.2
45°	514.0	510.4	510.4	505.4	505.4
47.5°	483.0	480.1	479.4	475.0	475.0
50°	450.5	448.3	447.6	444.0	443.3
52.5°	416.6	415.8	413.0	410.1	410.1
55°	381.2	379.7	376.1	374.0	373.2
57.5°	343.6	340.8	337.1	333.5	334.3
60°	302.5	299.6	293.8	292.4	292.4
62.5°	262.8	259.2	253.4	251.2	252.7
65°	225.2	220.9	215.9	214.4	215.1
67.5°	190.6	186.3	180.5	180.5	179.8
70°	157.4	155.2	150.9	150.9	150.9
72.5°	127.8	127.1	124.2	124.2	123.5
75°	102.5	102.5	101.1	100.4	99.6
77.5°	80.9	80.9	80.1	79.4	78.0
80°	60.6	62.1	61.4	60.6	59.9
82.5°	41.9	43.3	43.3	41.9	41.9
85°	23.8	26.0	26.0	26.0	26.0
87.5°	7.9	10.8	11.6	11.6	12.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)