

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: P688804

Luminaire Tested: SQ4R-PP3-050D-92765-1-UNV-STD-W-4_4500K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688804
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_4500K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
500 LUMENS PER FOOT
Light Source: 4500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1980.2 lumens
Efficiency: N/A
Efficacy: 93.4 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

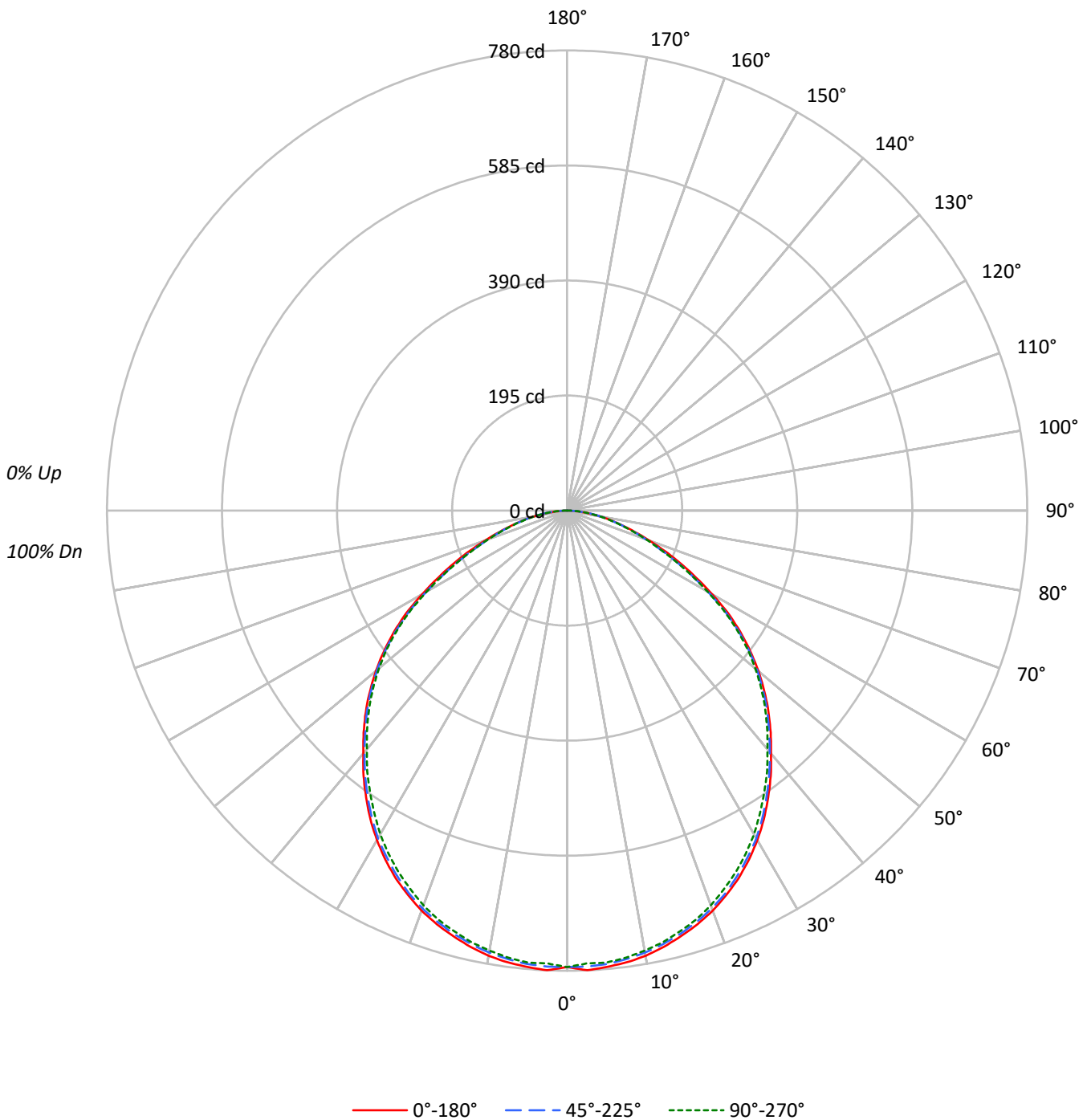
Input Watts (W): 21.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	7449	7449	7449
5°	7503	7458	7432
10°	7491	7437	7404
15°	7441	7400	7361
20°	7392	7350	7295
25°	7304	7253	7182
30°	7169	7131	7040
35°	6981	6933	6846
40°	6758	6715	6638
45°	6573	6527	6463
50°	6337	6297	6237
55°	6009	5930	5885
60°	5470	5314	5287
65°	4820	4620	4604
70°	4160	3989	3989
75°	3582	3530	3482
80°	3160	3193	3121
85°	2474	2695	2695

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6573 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.2	3.7
10°-20°	209.0	10.6
20°-30°	313.1	15.8
30°-40°	367.2	18.5
40°-50°	368.3	18.6
50°-60°	314.5	15.9
60°-70°	204.4	10.3
70°-80°	102.4	5.2
80°-90°	28.1	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°	595.3	30.1
0°-40°	962.5	48.6
0°-60°	1645.4	83.1
0°-90°	1980.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1980.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	774	774	774	774	774	
5°	776	769	772	769	769	74
15°	747	739	742	740	738	211
25°	688	680	683	677	676	316
35°	594	588	590	583	582	371
45°	483	479	479	475	475	372
55°	358	357	353	351	351	319
65°	212	208	203	201	202	211
75°	96	96	95	94	94	104
85°	22	24	24	24	24	27
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	773.7	773.7	773.7	773.7	773.7
2.5°	779.8	771.7	773.7	772.4	768.3
5°	776.4	769.0	771.7	769.0	769.0
7.5°	772.4	764.2	766.9	764.2	764.2
10°	766.3	758.1	760.8	758.1	757.4
12.5°	757.4	749.3	752.7	749.3	749.3
15°	746.6	739.1	742.5	739.8	738.5
17.5°	735.1	726.9	731.0	727.6	726.9
20°	721.5	713.4	717.4	712.0	712.0
22.5°	705.2	697.1	701.8	694.4	694.4
25°	687.6	679.5	682.8	676.7	676.1
27.5°	667.3	659.1	662.5	655.7	655.7
30°	644.9	637.4	641.5	634.0	633.3
32.5°	620.5	613.7	616.4	608.9	608.3
35°	594.0	587.9	589.9	583.2	582.5
37.5°	566.9	560.1	562.8	556.7	556.7
40°	537.7	533.7	534.3	529.6	528.2
42.5°	510.6	505.9	506.5	501.8	501.8
45°	482.8	479.4	479.4	474.7	474.7
47.5°	453.6	450.9	450.3	446.2	446.2
50°	423.1	421.1	420.4	417.0	416.4
52.5°	391.3	390.6	387.9	385.2	385.2
55°	358.0	356.7	353.3	351.3	350.6
57.5°	322.8	320.1	316.7	313.3	314.0
60°	284.1	281.4	276.0	274.6	274.6
62.5°	246.8	243.4	238.0	236.0	237.3
65°	211.6	207.5	202.8	201.4	202.1
67.5°	179.0	174.9	169.5	169.5	168.8
70°	147.8	145.8	141.7	141.7	141.7
72.5°	120.0	119.3	116.6	116.6	116.0
75°	96.3	96.3	94.9	94.3	93.6
77.5°	75.9	75.9	75.3	74.6	73.2
80°	57.0	58.3	57.6	57.0	56.3
82.5°	39.3	40.7	40.7	39.3	39.3
85°	22.4	24.4	24.4	24.4	24.4
87.5°	7.5	10.2	10.8	10.8	11.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)