

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: P688880

Luminaire Tested: SQ4R-PR1-050D-92765-1-UNV-STD-W-4_3500K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688880
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_3500K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
500 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1782.5 lumens
Efficiency: N/A
Efficacy: 84.1 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

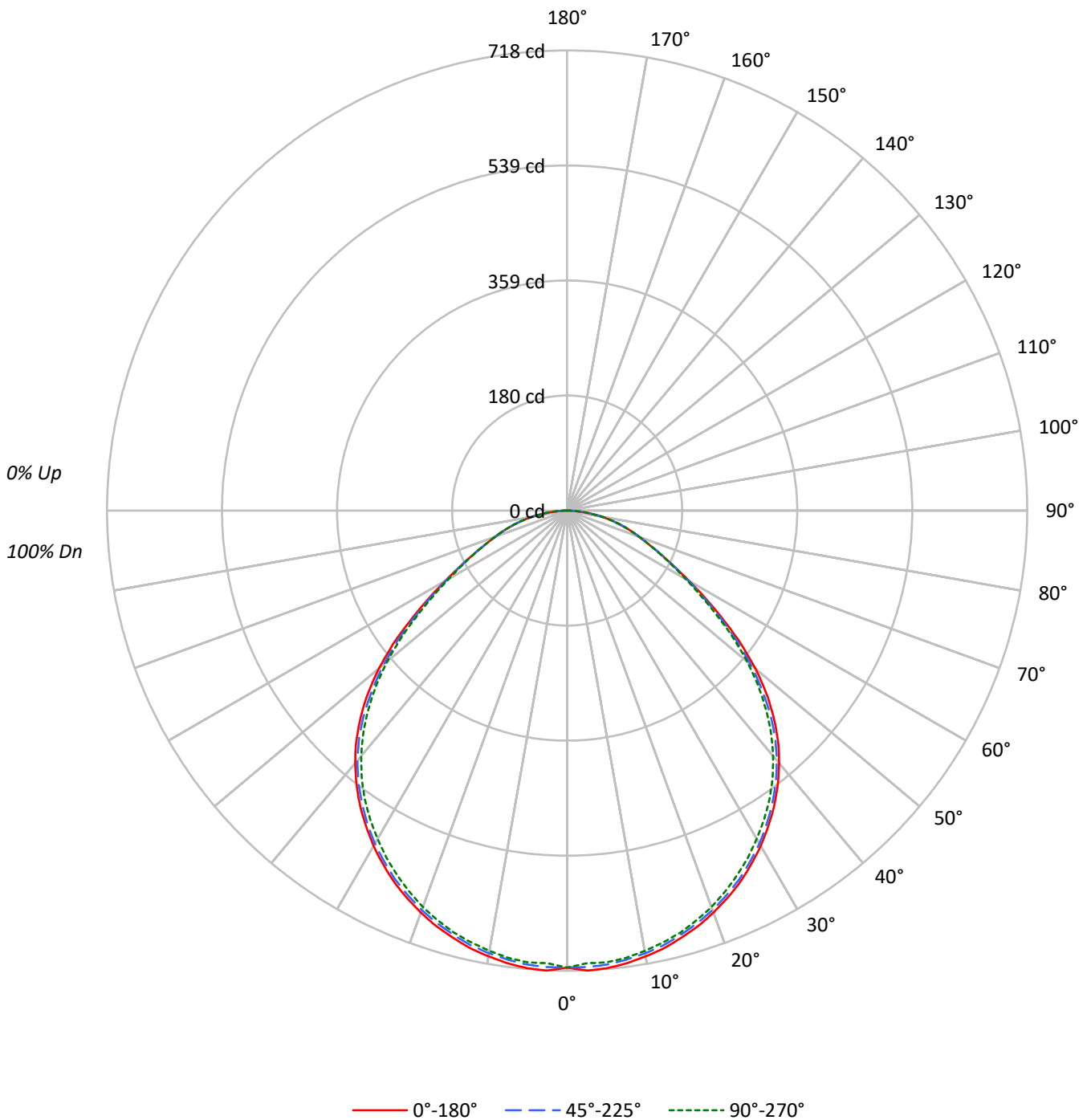
Input Watts (W): 21.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
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	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°	6864	6864	6864
5°	6926	6873	6837
10°	6904	6856	6820
15°	6874	6831	6794
20°	6839	6796	6744
25°	6791	6745	6667
30°	6718	6670	6574
35°	6618	6560	6468
40°	6467	6398	6283
45°	6204	6095	5970
50°	5739	5602	5491
55°	5010	4896	4794
60°	4221	4186	4103
65°	3652	3665	3638
70°	3352	3372	3372
75°	3221	3221	3244
80°	3033	3066	3033
85°	2441	2717	2717

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6204 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.5	3.8
10°-20°	193.0	10.8
20°-30°	291.1	16.3
30°-40°	346.9	19.5
40°-50°	342.2	19.2
50°-60°	261.1	14.6
60°-70°	161.1	9.0
70°-80°	91.8	5.2
80°-90°	27.7	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°	551.6	30.9
0°-40°	898.5	50.4
0°-60°	1501.8	84.3
0°-90°	1782.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1782.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	713	713	713	713	713	
5°	717	709	711	709	708	68
15°	690	682	685	683	682	195
25°	639	631	635	628	628	294
35°	563	556	558	551	550	352
45°	456	450	448	440	438	350
55°	298	294	292	287	286	267
65°	160	159	161	160	160	162
75°	87	87	87	87	87	91
85°	22	23	25	25	25	26
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	713.0	713.0	713.0	713.0	713.0
2.5°	718.5	710.5	713.0	711.2	706.9
5°	716.7	708.7	711.2	708.7	707.5
7.5°	712.4	704.4	706.9	704.4	703.8
10°	706.2	698.9	701.3	698.9	697.6
12.5°	699.5	691.5	694.6	691.5	690.3
15°	689.7	682.3	685.4	682.9	681.7
17.5°	679.8	671.8	674.9	672.5	670.6
20°	667.5	660.2	663.3	659.0	658.3
22.5°	654.0	646.7	649.7	643.6	643.6
25°	639.3	631.3	635.0	628.2	627.6
27.5°	622.1	614.7	617.8	611.1	610.4
30°	604.3	596.9	600.0	592.6	591.4
32.5°	584.0	577.3	579.7	572.4	571.7
35°	563.1	556.4	558.2	550.9	550.3
37.5°	539.8	533.7	534.9	526.9	526.3
40°	514.6	508.5	509.1	500.5	499.9
42.5°	487.0	480.9	480.2	471.6	471.0
45°	455.7	449.5	447.7	439.7	438.5
47.5°	421.3	415.1	411.5	404.7	404.1
50°	383.2	377.1	374.0	368.5	366.6
52.5°	342.1	335.9	333.5	328.6	326.7
55°	298.5	293.5	291.7	286.8	285.6
57.5°	256.7	253.0	252.4	247.5	246.9
60°	219.2	217.4	217.4	213.1	213.1
62.5°	187.3	186.1	187.3	184.9	184.2
65°	160.3	159.1	160.9	159.7	159.7
67.5°	137.6	137.6	138.8	138.2	138.2
70°	119.1	119.1	119.8	119.8	119.8
72.5°	102.6	101.9	103.8	103.8	103.2
75°	86.6	86.6	86.6	87.2	87.2
77.5°	70.6	70.6	71.2	71.2	70.6
80°	54.7	55.3	55.3	54.7	54.7
82.5°	38.7	39.3	39.3	39.3	38.7
85°	22.1	23.3	24.6	24.6	24.6
87.5°	8.0	10.4	12.3	12.3	11.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)