

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: P688803

Luminaire Tested: SQ4R-PP3-050D-92765-1-UNV-STD-W-4_4000K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688803
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_4000K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
500 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1939.5 lumens
Efficiency: N/A
Efficacy: 91.5 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

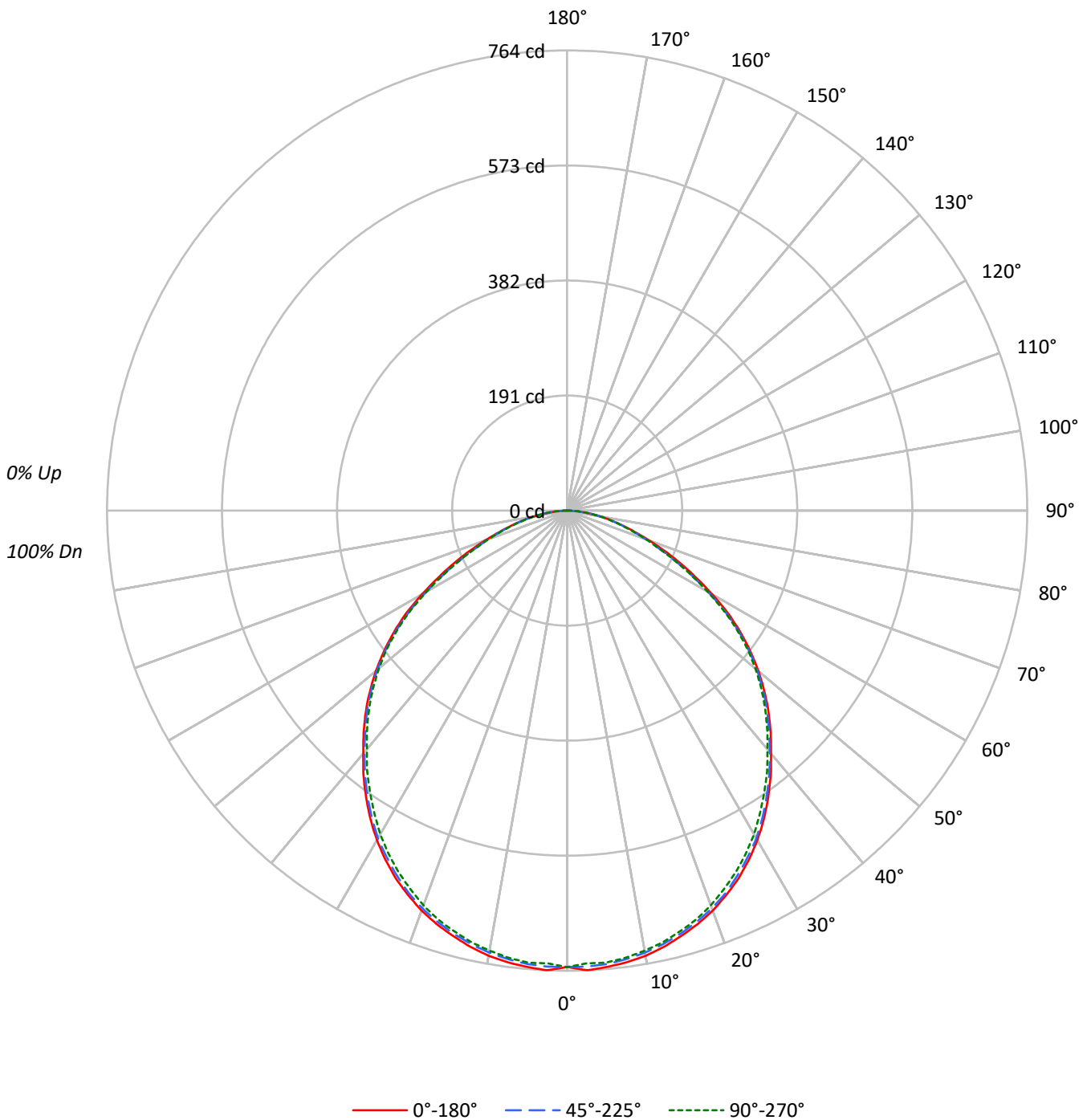
Input Watts (W): 21.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93		95	92	90		91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77		84	79	76		81	77	74	72
3	92	81	74	67	89	80	73	67	77	71	66		74	69	64		72	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56		66	60	56		64	59	55	53
5	77	65	56	50	75	64	56	50	62	55	49		60	53	48		58	52	48	46
6	72	59	50	44	70	58	49	43	56	49	43		54	48	43		53	47	42	40
7	66	53	45	39	65	52	44	39	51	44	38		49	43	38		48	42	38	36
8	62	49	40	35	60	48	40	34	47	39	34		45	39	34		44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31		42	35	31		41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28		39	33	28		38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7296	7296	7296
5°	7350	7304	7278
10°	7337	7285	7253
15°	7288	7248	7209
20°	7240	7199	7145
25°	7154	7104	7034
30°	7021	6985	6896
35°	6838	6791	6705
40°	6619	6578	6502
45°	6439	6394	6330
50°	6207	6168	6108
55°	5886	5808	5764
60°	5359	5205	5180
65°	4720	4524	4508
70°	4076	3907	3907
75°	3508	3459	3411
80°	3094	3132	3055
85°	2419	2640	2640

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6439 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.7	3.7
10°-20°	204.7	10.6
20°-30°	306.6	15.8
30°-40°	359.7	18.5
40°-50°	360.8	18.6
50°-60°	308.0	15.9
60°-70°	200.2	10.3
70°-80°	100.3	5.2
80°-90°	27.5	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°	583.1	30.1
0°-40°	942.7	48.6
0°-60°	1611.5	83.1
0°-90°	1939.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1939.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	758	758	758	758	758	
5°	760	753	756	753	753	72
15°	731	724	727	725	723	206
25°	674	666	669	663	662	310
35°	582	576	578	571	570	364
45°	473	470	470	465	465	364
55°	351	349	346	344	343	312
65°	207	203	199	197	198	207
75°	94	94	93	92	92	102
85°	22	24	24	24	24	26
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	757.8	757.8	757.8	757.8	757.8
2.5°	763.8	755.8	757.8	756.5	752.5
5°	760.5	753.1	755.8	753.1	753.1
7.5°	756.5	748.5	751.2	748.5	748.5
10°	750.5	742.5	745.2	742.5	741.9
12.5°	741.9	733.9	737.2	733.9	733.9
15°	731.2	723.9	727.2	724.6	723.3
17.5°	719.9	712.0	716.0	712.6	712.0
20°	706.7	698.7	702.7	697.4	697.4
22.5°	690.7	682.7	687.4	680.1	680.1
25°	673.5	665.5	668.8	662.8	662.2
27.5°	653.5	645.6	648.9	642.2	642.2
30°	631.6	624.3	628.3	621.0	620.3
32.5°	607.7	601.1	603.7	596.4	595.7
35°	581.8	575.8	577.8	571.2	570.5
37.5°	555.2	548.6	551.2	545.3	545.3
40°	526.7	522.7	523.4	518.7	517.4
42.5°	500.1	495.5	496.1	491.5	491.5
45°	472.9	469.6	469.6	464.9	464.9
47.5°	444.3	441.7	441.0	437.0	437.0
50°	414.4	412.4	411.8	408.5	407.8
52.5°	383.2	382.6	379.9	377.2	377.2
55°	350.7	349.3	346.0	344.0	343.4
57.5°	316.1	313.5	310.2	306.8	307.5
60°	278.3	275.6	270.3	269.0	269.0
62.5°	241.8	238.4	233.1	231.1	232.5
65°	207.2	203.2	198.6	197.3	197.9
67.5°	175.3	171.4	166.0	166.0	165.4
70°	144.8	142.8	138.8	138.8	138.8
72.5°	117.6	116.9	114.2	114.2	113.6
75°	94.3	94.3	93.0	92.3	91.7
77.5°	74.4	74.4	73.7	73.1	71.7
80°	55.8	57.1	56.5	55.8	55.1
82.5°	38.5	39.8	39.8	38.5	38.5
85°	21.9	23.9	23.9	23.9	23.9
87.5°	7.3	10.0	10.6	10.6	11.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)