

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: P688883

Luminaire Tested: SQ4R-PR1-050D-92765-1-UNV-STD-W-4_5000K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688883
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_5000K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
500 LUMENS PER FOOT
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1912.2 lumens
Efficiency: N/A
Efficacy: 90.2 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

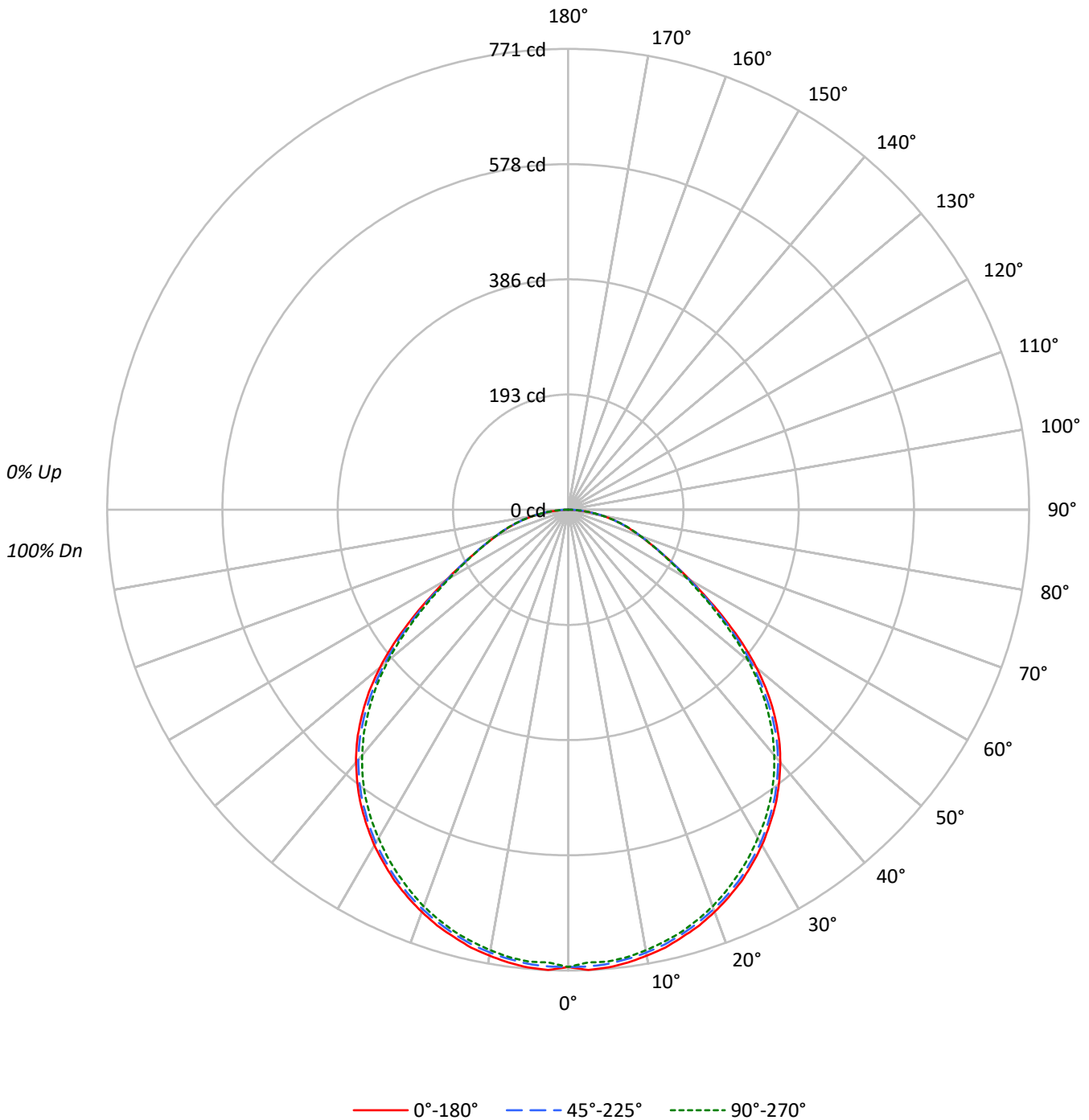
Input Watts (W): 21.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	7364	7364	7364
5°	7430	7373	7335
10°	7406	7355	7316
15°	7375	7328	7289
20°	7337	7289	7236
25°	7285	7236	7152
30°	7207	7156	7052
35°	7100	7039	6938
40°	6939	6864	6740
45°	6655	6539	6405
50°	6157	6009	5891
55°	5374	5252	5141
60°	4529	4490	4402
65°	3918	3932	3902
70°	3597	3617	3617
75°	3456	3456	3482
80°	3249	3288	3249
85°	2618	2916	2916

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6655 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.4	3.8
10°-20°	207.1	10.8
20°-30°	312.3	16.3
30°-40°	372.2	19.5
40°-50°	367.2	19.2
50°-60°	280.1	14.6
60°-70°	172.9	9.0
70°-80°	98.5	5.2
80°-90°	29.7	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°	591.7	30.9
0°-40°	963.9	50.4
0°-60°	1611.1	84.3
0°-90°	1912.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1912.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	765	765	765	765	765	
5°	769	760	763	760	759	73
15°	740	732	735	733	731	209
25°	686	677	681	674	673	316
35°	604	597	599	591	590	377
45°	489	482	480	472	470	375
55°	320	315	313	308	306	287
65°	172	171	173	171	171	174
75°	93	93	93	94	94	98
85°	24	25	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°	764.9	764.9	764.9	764.9	764.9
2.5°	770.8	762.3	764.9	762.9	758.3
5°	768.8	760.3	762.9	760.3	759.0
7.5°	764.2	755.7	758.3	755.7	755.0
10°	757.6	749.7	752.4	749.7	748.4
12.5°	750.4	741.8	745.1	741.8	740.5
15°	739.9	731.9	735.2	732.6	731.3
17.5°	729.3	720.7	724.0	721.4	719.4
20°	716.1	708.2	711.5	706.9	706.3
22.5°	701.6	693.7	697.0	690.4	690.4
25°	685.8	677.3	681.2	674.0	673.3
27.5°	667.4	659.5	662.8	655.5	654.9
30°	648.3	640.4	643.7	635.8	634.4
32.5°	626.5	619.3	621.9	614.0	613.4
35°	604.1	596.9	598.9	591.0	590.3
37.5°	579.1	572.5	573.8	565.3	564.6
40°	552.1	545.5	546.2	536.9	536.3
42.5°	522.4	515.9	515.2	506.0	505.3
45°	488.8	482.3	480.3	471.7	470.4
47.5°	451.9	445.4	441.4	434.2	433.5
50°	411.1	404.5	401.2	395.3	393.3
52.5°	367.0	360.4	357.7	352.5	350.5
55°	320.2	314.9	312.9	307.7	306.3
57.5°	275.4	271.4	270.8	265.5	264.8
60°	235.2	233.2	233.2	228.6	228.6
62.5°	200.9	199.6	200.9	198.3	197.6
65°	172.0	170.6	172.6	171.3	171.3
67.5°	147.6	147.6	148.9	148.2	148.2
70°	127.8	127.8	128.5	128.5	128.5
72.5°	110.0	109.4	111.3	111.3	110.7
75°	92.9	92.9	92.9	93.6	93.6
77.5°	75.8	75.8	76.4	76.4	75.8
80°	58.6	59.3	59.3	58.6	58.6
82.5°	41.5	42.2	42.2	42.2	41.5
85°	23.7	25.0	26.4	26.4	26.4
87.5°	8.6	11.2	13.2	13.2	12.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)