

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: P688611

Luminaire Tested: SQ4R-PW1-050D-930-1-UNV-STD-W-4

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688611
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2203-586-35)
Test Lab: INNOVATION CENTER
Issue Date: 5/22/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4R-PW1-050D-930-1-UNV-STD-W-4
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1543.6 lumens
Efficiency: N/A
Efficacy: 81.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.2 / 1.29
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')
CIE Type: Direct

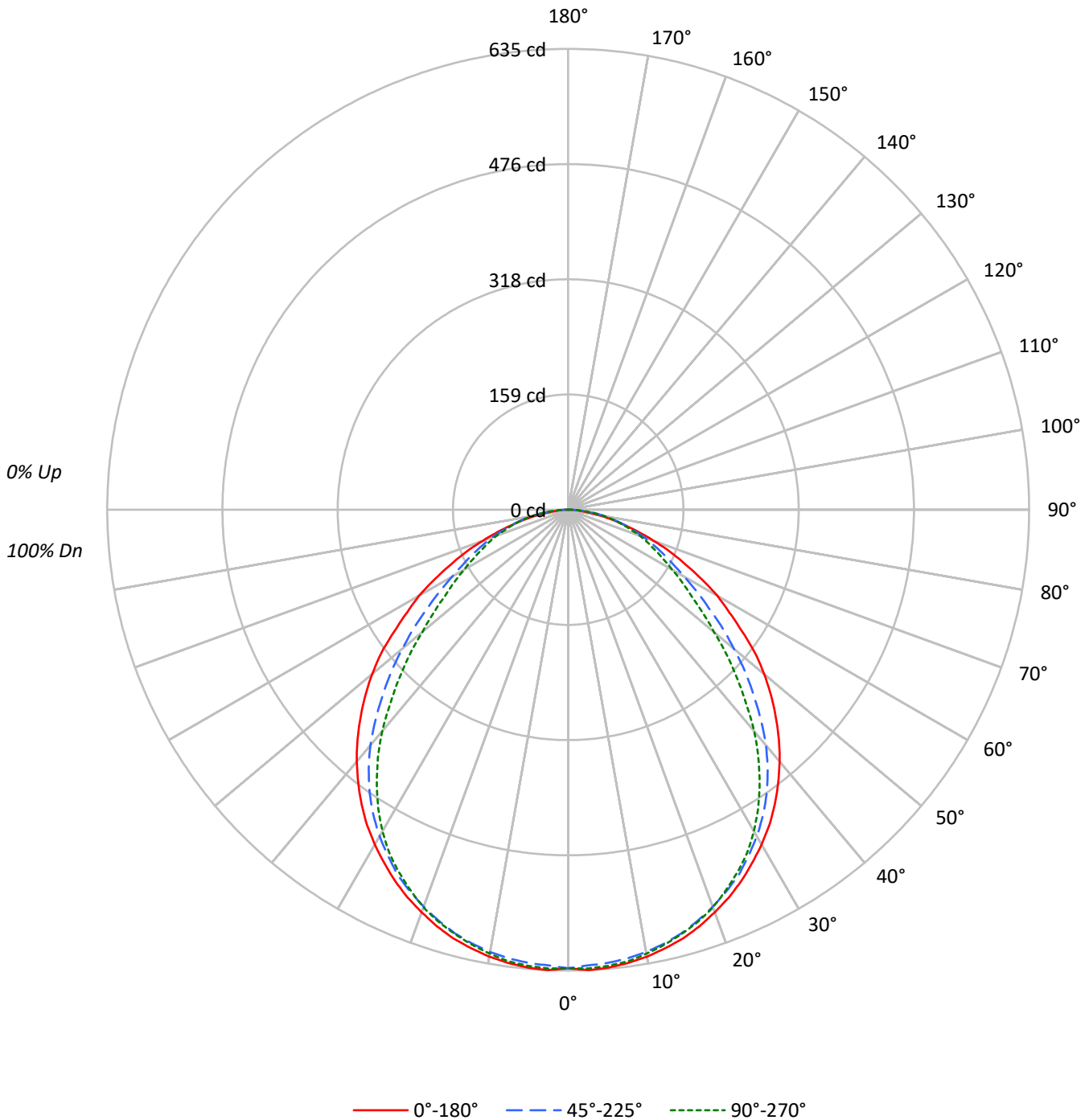
Input Watts (W): 18.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	75	69	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	59	50	44	57	49	44	55	49	44	54	48	43	41
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37
8	63	50	41	36	61	49	41	36	48	40	35	46	40	35	45	39	35	33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6083	6083	6083
5°	6121	6058	6097
10°	6113	6049	6073
15°	6095	6021	6030
20°	6048	5965	5973
25°	5995	5900	5857
30°	5922	5777	5687
35°	5831	5603	5402
40°	5694	5327	5011
45°	5506	4919	4489
50°	5278	4463	3929
55°	4906	3966	3476
60°	4565	3549	3191
65°	4050	3292	3016
70°	3521	3130	2972
75°	2901	2961	2838
80°	2295	2789	2789
85°	1701	2507	2596

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5506 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.9	3.9
10°-20°	171.2	11.1
20°-30°	256.4	16.6
30°-40°	298.0	19.3
40°-50°	281.1	18.2
50°-60°	219.3	14.2
60°-70°	148.9	9.6
70°-80°	83.8	5.4
80°-90°	24.9	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°	487.6	31.6
0°-40°	785.5	50.9
0°-60°	1286.0	83.3
0°-90°	1543.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1543.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	632	632	632	632	632	
5°	633	632	627	632	631	60
15°	612	609	604	607	605	172
25°	564	562	555	554	551	260
35°	496	491	477	466	460	310
45°	404	392	361	339	330	312
55°	292	275	236	214	207	263
65°	178	162	144	136	132	178
75°	78	81	80	76	76	85
85°	15	22	23	23	24	19
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	631.8	631.8	631.8	631.8	631.8
2.5°	635.0	633.4	628.5	633.4	632.6
5°	633.4	631.8	626.9	631.8	630.9
7.5°	630.1	629.3	623.6	628.5	627.7
10°	625.3	624.4	618.8	622.8	621.2
12.5°	618.8	617.9	612.3	615.5	613.9
15°	611.5	609.0	604.1	607.4	605.0
17.5°	601.7	599.3	593.6	596.0	595.2
20°	590.3	587.9	582.2	584.7	583.0
22.5°	578.2	575.7	569.2	570.0	567.6
25°	564.4	561.9	555.4	553.8	551.4
27.5°	548.9	547.3	537.6	535.9	533.5
30°	532.7	530.3	519.7	516.4	511.6
32.5°	515.6	510.8	499.4	492.9	487.2
35°	496.1	491.3	476.7	466.1	459.6
37.5°	475.0	467.7	451.5	436.9	430.4
40°	453.1	445.0	423.9	404.4	398.7
42.5°	429.6	419.8	393.0	372.7	363.0
45°	404.4	392.2	361.3	338.6	329.7
47.5°	379.2	363.8	330.5	306.1	296.4
50°	352.4	333.7	298.0	272.0	262.3
52.5°	324.8	304.5	268.0	241.2	233.9
55°	292.3	275.3	236.3	213.6	207.1
57.5°	263.1	244.4	210.3	190.8	186.0
60°	237.1	214.4	184.3	169.7	165.7
62.5°	207.1	186.8	163.2	151.8	147.8
65°	177.8	161.6	144.5	135.6	132.4
67.5°	152.7	138.9	127.5	120.2	118.6
70°	125.1	117.7	111.2	105.6	105.6
72.5°	101.5	99.1	95.0	91.8	89.3
75°	78.0	81.2	79.6	76.3	76.3
77.5°	59.3	64.1	65.0	63.3	64.1
80°	41.4	48.7	50.3	49.5	50.3
82.5°	26.0	34.9	36.5	36.5	37.4
85°	15.4	21.9	22.7	22.7	23.5
87.5°	6.5	10.6	11.4	11.4	11.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)