

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: P688881

Luminaire Tested: SQ4R-PR1-050D-92765-1-UNV-STD-W-4_4000K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688881
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_4000K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE RIPPLE 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: 1836.8 lumens
Efficiency: N/A
Efficacy: 86.6 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

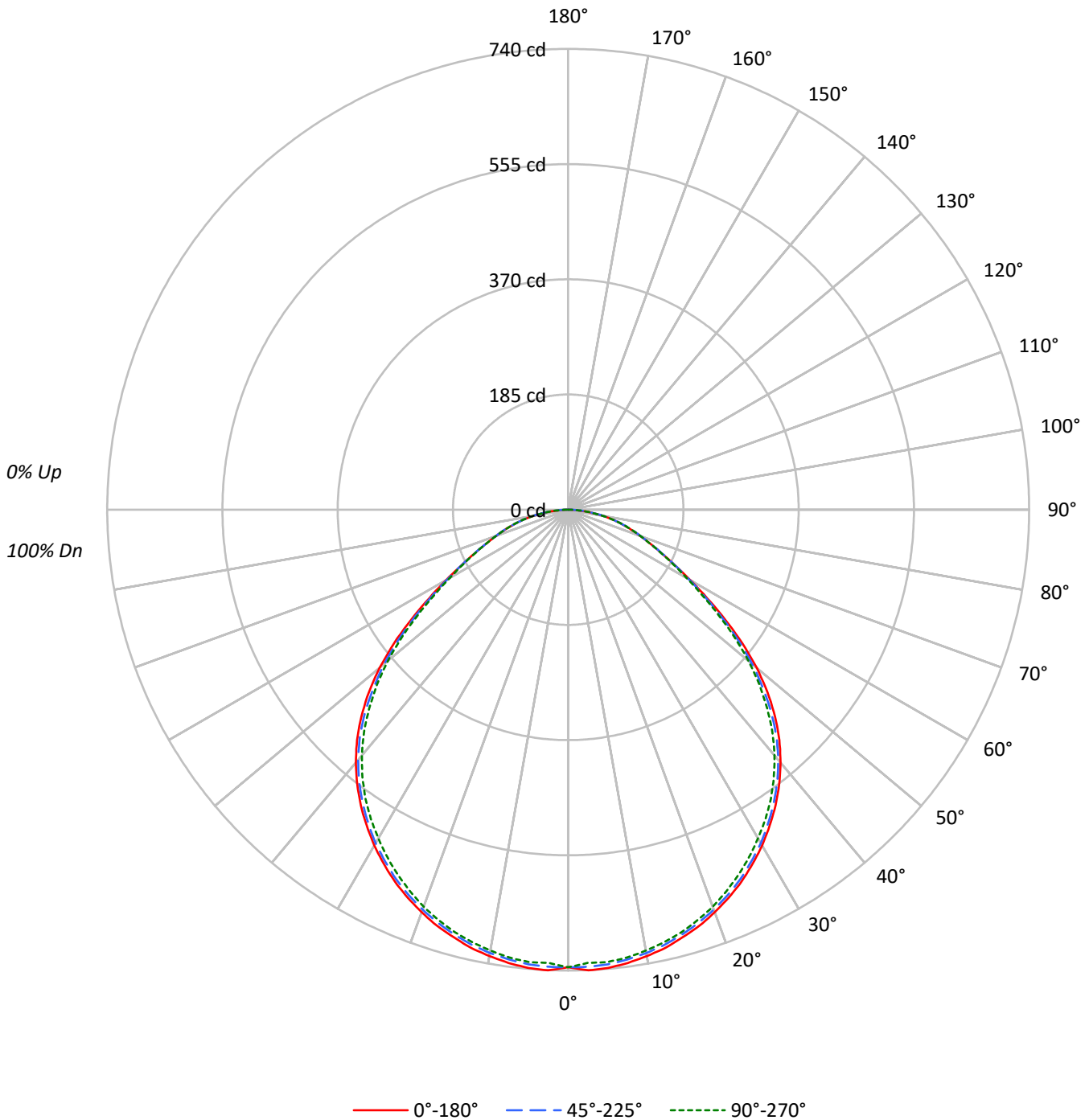
Input Watts (W): 21.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	7073	7073	7073
5°	7137	7082	7045
10°	7115	7065	7028
15°	7084	7040	7002
20°	7048	7003	6950
25°	6998	6951	6871
30°	6922	6873	6775
35°	6820	6761	6664
40°	6665	6593	6474
45°	6394	6281	6151
50°	5915	5772	5658
55°	5163	5045	4940
60°	4350	4313	4228
65°	3763	3777	3747
70°	3457	3474	3474
75°	3318	3318	3344
80°	3121	3160	3121
85°	2519	2795	2795

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6394 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.5	3.8
10°-20°	198.9	10.8
20°-30°	300.0	16.3
30°-40°	357.5	19.5
40°-50°	352.7	19.2
50°-60°	269.0	14.6
60°-70°	166.0	9.0
70°-80°	94.6	5.2
80°-90°	28.5	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°	568.4	30.9
0°-40°	925.9	50.4
0°-60°	1547.6	84.3
0°-90°	1836.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1836.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	735	735	735	735	735	
5°	738	730	733	730	729	70
15°	711	703	706	704	702	201
25°	659	651	654	647	647	303
35°	580	573	575	568	567	362
45°	470	463	461	453	452	360
55°	308	302	301	296	294	276
65°	165	164	166	164	164	167
75°	89	89	89	90	90	94
85°	23	24	25	25	25	27
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	734.7	734.7	734.7	734.7	734.7
2.5°	740.4	732.2	734.7	732.8	728.4
5°	738.5	730.3	732.8	730.3	729.0
7.5°	734.1	725.9	728.4	725.9	725.2
10°	727.8	720.2	722.7	720.2	718.9
12.5°	720.8	712.6	715.7	712.6	711.3
15°	710.7	703.1	706.3	703.7	702.5
17.5°	700.6	692.3	695.5	693.0	691.1
20°	687.9	680.3	683.5	679.0	678.4
22.5°	674.0	666.4	669.5	663.2	663.2
25°	658.8	650.6	654.4	647.4	646.8
27.5°	641.1	633.5	636.6	629.7	629.0
30°	622.7	615.1	618.3	610.7	609.4
32.5°	601.8	594.9	597.4	589.8	589.2
35°	580.3	573.4	575.3	567.7	567.0
37.5°	556.3	549.9	551.2	543.0	542.3
40°	530.3	524.0	524.6	515.8	515.1
42.5°	501.8	495.5	494.9	486.0	485.4
45°	469.6	463.2	461.3	453.1	451.8
47.5°	434.1	427.8	424.0	417.0	416.4
50°	394.9	388.6	385.4	379.7	377.8
52.5°	352.5	346.2	343.6	338.6	336.7
55°	307.6	302.5	300.6	295.5	294.3
57.5°	264.5	260.7	260.1	255.0	254.4
60°	225.9	224.0	224.0	219.6	219.6
62.5°	193.0	191.8	193.0	190.5	189.9
65°	165.2	163.9	165.8	164.5	164.5
67.5°	141.8	141.8	143.0	142.4	142.4
70°	122.8	122.8	123.4	123.4	123.4
72.5°	105.7	105.1	107.0	107.0	106.3
75°	89.2	89.2	89.2	89.9	89.9
77.5°	72.8	72.8	73.4	73.4	72.8
80°	56.3	57.0	57.0	56.3	56.3
82.5°	39.9	40.5	40.5	40.5	39.9
85°	22.8	24.0	25.3	25.3	25.3
87.5°	8.2	10.8	12.7	12.7	12.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)