

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: P688885

Luminaire Tested: SQ4R-PR1-050D-92765-1-UNV-STD-W-4_6500K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688885
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_6500K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
500 LUMENS PER FOOT
Light Source: 6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1996.6 lumens
Efficiency: N/A
Efficacy: 94.2 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

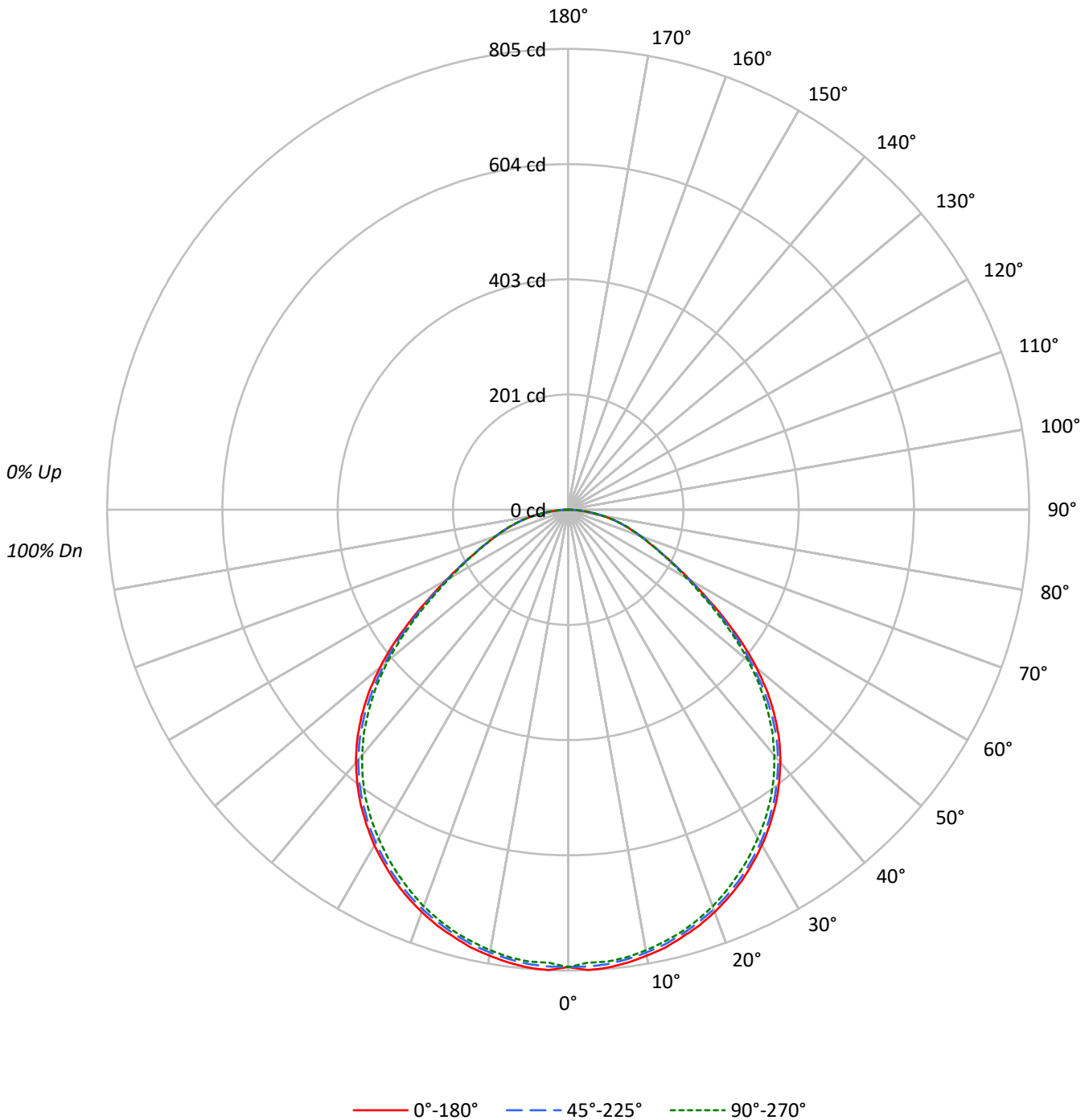
Input Watts (W): 21.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	7689	7689	7689
5°	7758	7698	7659
10°	7734	7680	7640
15°	7699	7652	7611
20°	7661	7611	7555
25°	7607	7556	7468
30°	7525	7472	7365
35°	7414	7349	7244
40°	7245	7167	7038
45°	6949	6828	6688
50°	6430	6274	6151
55°	5611	5485	5369
60°	4729	4689	4596
65°	4089	4105	4075
70°	3758	3775	3775
75°	3608	3608	3634
80°	3393	3432	3393
85°	2739	3038	3038

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6949 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.6	3.8
10°-20°	216.2	10.8
20°-30°	326.1	16.3
30°-40°	388.6	19.5
40°-50°	383.4	19.2
50°-60°	292.4	14.6
60°-70°	180.5	9.0
70°-80°	102.9	5.2
80°-90°	31.0	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°	617.9	30.9
0°-40°	1006.5	50.4
0°-60°	1682.3	84.3
0°-90°	1996.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1996.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	799	799	799	799	799	
5°	803	794	797	794	792	76
15°	772	764	768	765	764	218
25°	716	707	711	704	703	330
35°	631	623	625	617	616	394
45°	510	504	502	492	491	392
55°	334	329	327	321	320	299
65°	180	178	180	179	179	181
75°	97	97	97	98	98	102
85°	25	26	28	28	28	29
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	798.7	798.7	798.7	798.7	798.7
2.5°	804.9	795.9	798.7	796.6	791.8
5°	802.8	793.8	796.6	793.8	792.5
7.5°	798.0	789.0	791.8	789.0	788.3
10°	791.1	782.8	785.6	782.8	781.5
12.5°	783.5	774.6	778.0	774.6	773.2
15°	772.5	764.3	767.7	765.0	763.6
17.5°	761.5	752.6	756.0	753.3	751.2
20°	747.8	739.5	742.9	738.1	737.4
22.5°	732.6	724.4	727.8	720.9	720.9
25°	716.1	707.2	711.3	703.7	703.0
27.5°	696.9	688.6	692.0	684.5	683.8
30°	676.9	668.6	672.1	663.8	662.5
32.5°	654.2	646.6	649.4	641.1	640.4
35°	630.8	623.2	625.3	617.1	616.4
37.5°	604.7	597.8	599.2	590.2	589.5
40°	576.5	569.6	570.3	560.6	560.0
42.5°	545.5	538.6	537.9	528.3	527.6
45°	510.4	503.6	501.5	492.5	491.2
47.5°	471.9	465.0	460.9	453.3	452.6
50°	429.3	422.4	418.9	412.7	410.7
52.5°	383.2	376.3	373.5	368.0	366.0
55°	334.3	328.8	326.8	321.3	319.9
57.5°	287.5	283.4	282.7	277.2	276.5
60°	245.6	243.5	243.5	238.7	238.7
62.5°	209.8	208.4	209.8	207.1	206.4
65°	179.5	178.2	180.2	178.9	178.9
67.5°	154.1	154.1	155.5	154.8	154.8
70°	133.5	133.5	134.1	134.1	134.1
72.5°	114.9	114.2	116.3	116.3	115.6
75°	97.0	97.0	97.0	97.7	97.7
77.5°	79.1	79.1	79.8	79.8	79.1
80°	61.2	61.9	61.9	61.2	61.2
82.5°	43.3	44.0	44.0	44.0	43.3
85°	24.8	26.1	27.5	27.5	27.5
87.5°	8.9	11.7	13.8	13.8	13.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)