

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: P688963

Luminaire Tested: SQ4R-PW1-050D-92765-1-UNV-STD-W-4_6500K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688963
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-92765-1-UNV-STD-W-4_6500K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE WAVES 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: 2088.3 lumens
Efficiency: N/A
Efficacy: 98.5 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

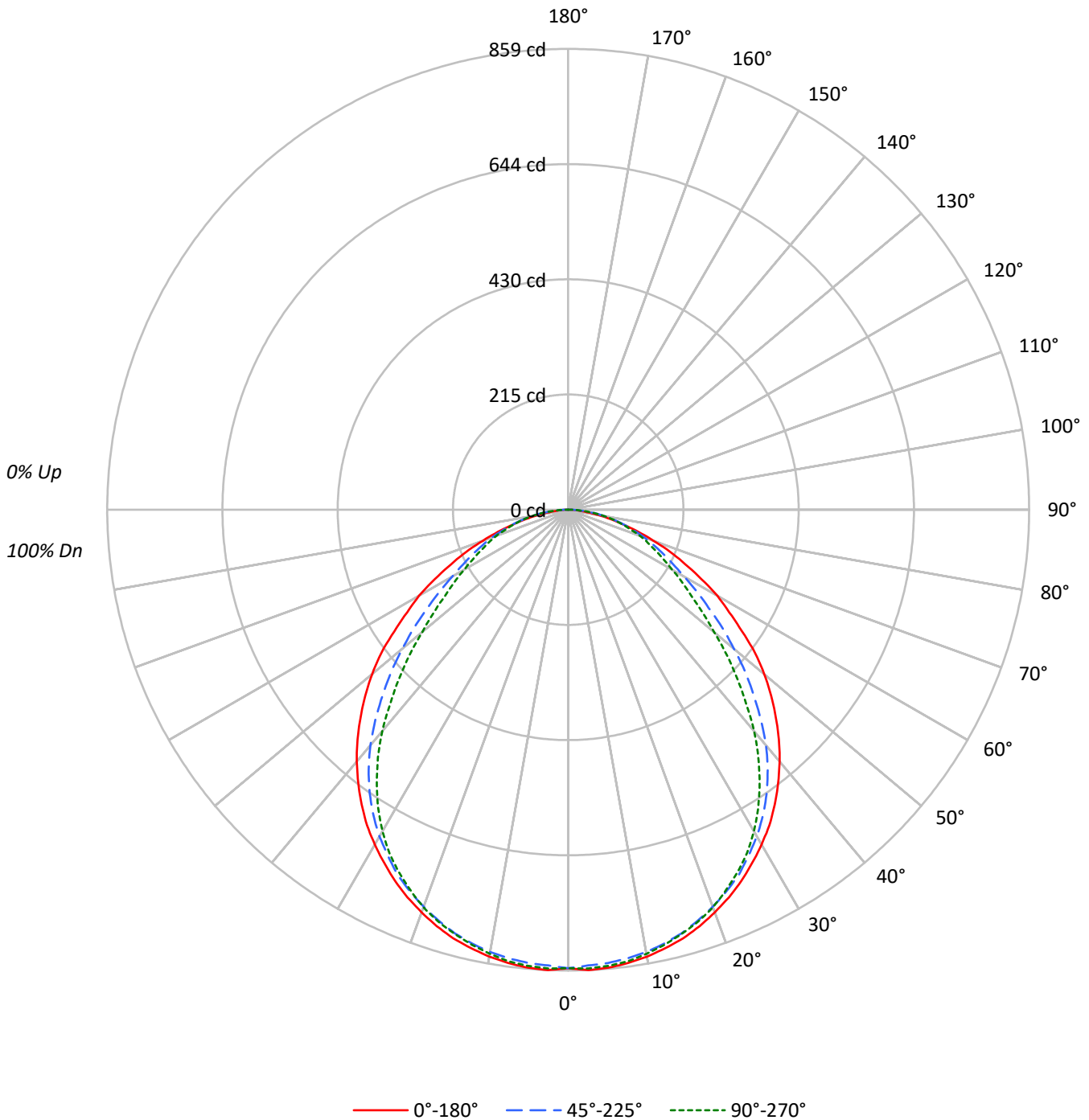
Input Watts (W): 21.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	8228	8228	8228
5°	8281	8196	8249
10°	8269	8183	8216
15°	8245	8146	8157
20°	8183	8070	8081
25°	8110	7982	7923
30°	8012	7816	7694
35°	7888	7579	7308
40°	7704	7208	6779
45°	7449	6656	6072
50°	7141	6039	5314
55°	6638	5366	4701
60°	6177	4802	4315
65°	5481	4454	4080
70°	4763	4236	4020
75°	3924	4006	3842
80°	3105	3776	3776
85°	2309	3402	3524

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7449 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.1	3.9
10°-20°	231.6	11.1
20°-30°	346.9	16.6
30°-40°	403.1	19.3
40°-50°	380.3	18.2
50°-60°	296.7	14.2
60°-70°	201.4	9.6
70°-80°	113.4	5.4
80°-90°	33.7	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°	659.6	31.6
0°-40°	1062.7	50.9
0°-60°	1739.8	83.3
0°-90°	2088.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2088.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	855	855	855	855	855	
5°	857	855	848	855	854	81
15°	827	824	817	822	818	233
25°	764	760	751	749	746	352
35°	671	665	645	631	622	419
45°	547	531	489	458	446	422
55°	396	372	320	289	280	355
65°	241	219	196	184	179	240
75°	106	110	108	103	103	115
85°	21	30	31	31	32	25
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	854.7	854.7	854.7	854.7	854.7
2.5°	859.1	856.9	850.3	856.9	855.8
5°	856.9	854.7	848.1	854.7	853.6
7.5°	852.5	851.4	843.7	850.3	849.2
10°	845.9	844.8	837.1	842.6	840.4
12.5°	837.1	836.0	828.3	832.7	830.5
15°	827.2	823.9	817.3	821.7	818.4
17.5°	814.0	810.7	803.1	806.4	805.3
20°	798.7	795.4	787.7	791.0	788.8
22.5°	782.2	778.9	770.1	771.2	767.9
25°	763.5	760.2	751.4	749.2	745.9
27.5°	742.6	740.4	727.3	725.1	721.8
30°	720.7	717.4	703.1	698.7	692.1
32.5°	697.6	691.0	675.6	666.8	659.1
35°	671.2	664.6	644.9	630.6	621.8
37.5°	642.7	632.8	610.8	591.0	582.2
40°	613.0	602.0	573.5	547.1	539.4
42.5°	581.1	568.0	531.7	504.2	491.1
45°	547.1	530.6	488.9	458.1	446.0
47.5°	513.0	492.2	447.1	414.2	401.0
50°	476.8	451.5	403.2	368.0	354.8
52.5°	439.4	412.0	362.5	326.3	316.4
55°	395.5	372.4	319.7	288.9	280.1
57.5°	355.9	330.7	284.5	258.2	251.6
60°	320.8	290.0	249.4	229.6	224.1
62.5°	280.1	252.7	220.8	205.4	199.9
65°	240.6	218.6	195.5	183.5	179.1
67.5°	206.5	187.9	172.5	162.6	160.4
70°	169.2	159.3	150.5	142.8	142.8
72.5°	137.3	134.0	128.5	124.1	120.8
75°	105.5	109.9	107.7	103.3	103.3
77.5°	80.2	86.8	87.9	85.7	86.8
80°	56.0	65.9	68.1	67.0	68.1
82.5°	35.2	47.2	49.4	49.4	50.5
85°	20.9	29.7	30.8	30.8	31.9
87.5°	8.8	14.3	15.4	15.4	15.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)