

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: P688958

Luminaire Tested: SQ4R-PW1-050D-92765-1-UNV-STD-W-4_3500K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688958
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_3500K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
500 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1864.3 lumens
Efficiency: N/A
Efficacy: 87.9 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

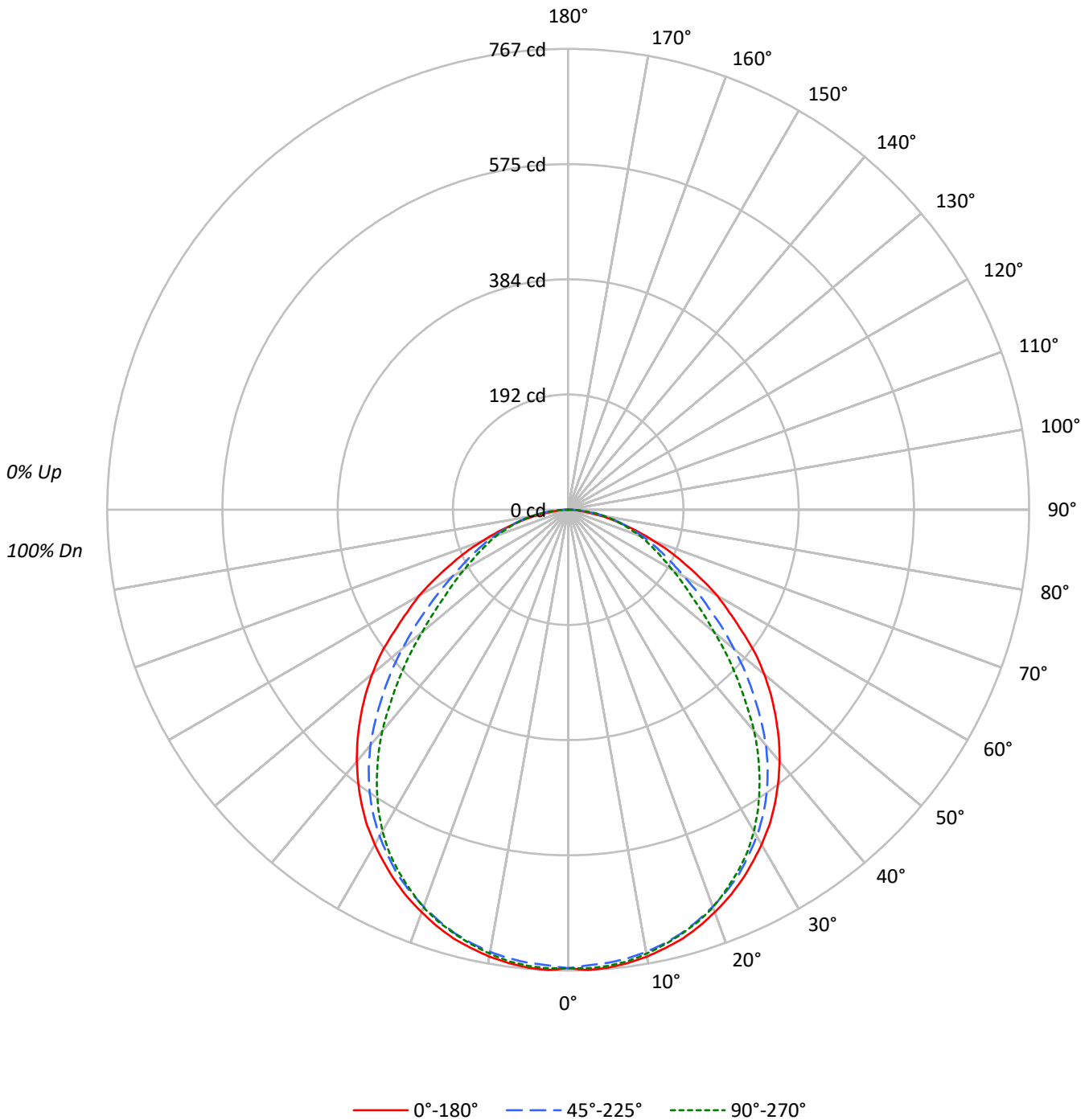
Input Watts (W): 21.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85				85
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72				72
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62				62
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54				54
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49	47				47
6	72	59	51	45	70	59	50	44	57	49	44	55	49	44	54	48	43	41				41
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37				37
8	63	50	41	36	61	49	41	36	48	40	35	46	40	35	45	39	35	33				33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30				30
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27				27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7346	7346	7346
5°	7393	7317	7364
10°	7383	7305	7335
15°	7361	7273	7282
20°	7305	7204	7215
25°	7240	7126	7074
30°	7152	6978	6869
35°	7042	6766	6524
40°	6877	6433	6051
45°	6650	5942	5422
50°	6374	5390	4745
55°	5927	4790	4198
60°	5515	4286	3853
65°	4893	3977	3643
70°	4250	3783	3589
75°	3504	3575	3430
80°	2772	3371	3371
85°	2055	3038	3137

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6650 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.4	3.9
10°-20°	206.8	11.1
20°-30°	309.7	16.6
30°-40°	359.8	19.3
40°-50°	339.5	18.2
50°-60°	264.9	14.2
60°-70°	179.8	9.6
70°-80°	101.3	5.4
80°-90°	30.1	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°	588.9	31.6
0°-40°	948.7	50.9
0°-60°	1553.1	83.3
0°-90°	1864.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1864.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	763	763	763	763	763	
5°	765	763	757	763	762	73
15°	738	736	730	734	731	208
25°	682	679	671	669	666	314
35°	599	593	576	563	555	374
45°	488	474	436	409	398	377
55°	353	332	285	258	250	317
65°	215	195	175	164	160	215
75°	94	98	96	92	92	102
85°	19	26	28	28	28	23
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	763.0	763.0	763.0	763.0	763.0
2.5°	766.9	765.0	759.1	765.0	764.0
5°	765.0	763.0	757.1	763.0	762.0
7.5°	761.0	760.1	753.2	759.1	758.1
10°	755.2	754.2	747.3	752.2	750.3
12.5°	747.3	746.3	739.5	743.4	741.4
15°	738.5	735.5	729.7	733.6	730.6
17.5°	726.7	723.8	716.9	719.9	718.9
20°	713.0	710.1	703.2	706.1	704.2
22.5°	698.3	695.3	687.5	688.5	685.5
25°	681.6	678.7	670.8	668.9	665.9
27.5°	663.0	661.0	649.2	647.3	644.3
30°	643.4	640.4	627.7	623.7	617.9
32.5°	622.8	616.9	603.2	595.3	588.4
35°	599.2	593.3	575.7	562.9	555.1
37.5°	573.7	564.9	545.3	527.6	519.8
40°	547.2	537.4	511.9	488.4	481.5
42.5°	518.8	507.0	474.7	450.2	438.4
45°	488.4	473.7	436.4	409.0	398.2
47.5°	458.0	439.4	399.2	369.7	358.0
50°	425.6	403.1	359.9	328.5	316.8
52.5°	392.3	367.8	323.6	291.3	282.5
55°	353.1	332.5	285.4	257.9	250.1
57.5°	317.8	295.2	254.0	230.5	224.6
60°	286.4	258.9	222.6	205.0	200.1
62.5°	250.1	225.6	197.1	183.4	178.5
65°	214.8	195.2	174.6	163.8	159.9
67.5°	184.4	167.7	154.0	145.1	143.2
70°	151.0	142.2	134.4	127.5	127.5
72.5°	122.6	119.6	114.7	110.8	107.9
75°	94.2	98.1	96.1	92.2	92.2
77.5°	71.6	77.5	78.5	76.5	77.5
80°	50.0	58.8	60.8	59.8	60.8
82.5°	31.4	42.2	44.1	44.1	45.1
85°	18.6	26.5	27.5	27.5	28.4
87.5°	7.8	12.7	13.7	13.7	13.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)