

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: P521497

Luminaire Tested: SQ4-F-0U-050D-92765-1D-UNV-STD-W-4_3000K

Issue Date: 5-5-2021

Test Information

Test Method: LM-79-2019
Report Number: P521497
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-36)
Test Lab: INNOVATION CENTER
Issue Date: 5-5-2021
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-F-0U-050D-92765-1D-UNV-STD-W-4_3000K
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K-6500K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2036.4 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.26 / 1.38
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

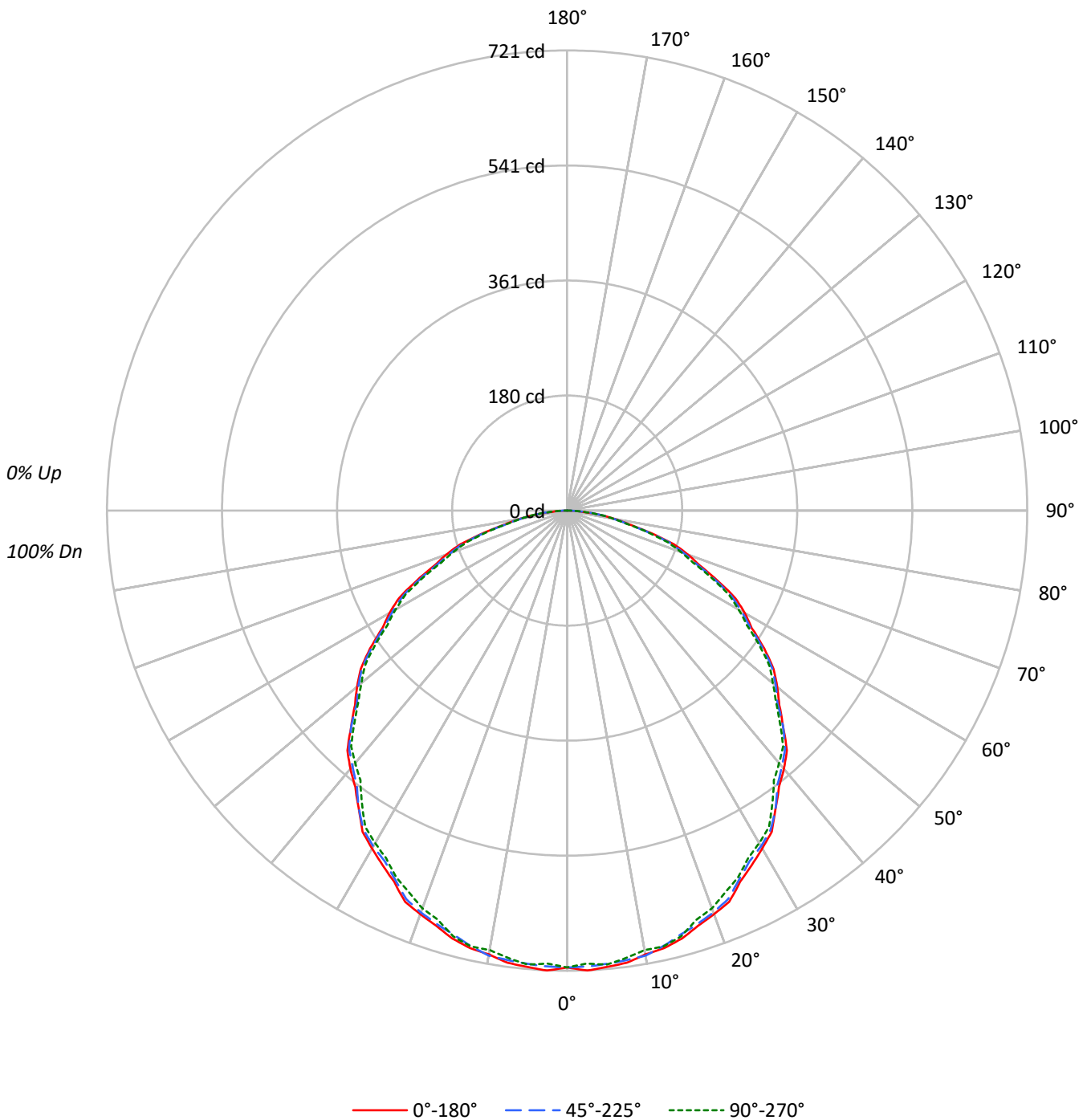
Input Watts (W): 20.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P521497

CATALOG NUMBER: SQ4-F-0U-050D-92765-1D-UNV-STD-W-4_3000K

Luminous Intensity Polar Plot



TEST NUMBER: P521497

CATALOG NUMBER: SQ4-F-0U-050D-92765-1D-UNV-STD-W-4_3000K

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	104	100	96	106	102	98	94	97	94	91		94	91	88		90	88	86	84
2	99	91	84	78	96	89	82	77	85	80	75		82	77	73		79	75	72	70
3	90	79	71	65	88	78	70	64	75	68	63		72	66	62		69	65	61	59
4	82	70	61	55	80	69	61	54	66	59	54		64	58	53		62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	46		58	51	46		56	50	45	43
6	70	56	47	41	68	56	47	41	54	46	40		52	45	40		50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36		47	41	36		46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32		43	37	32		42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29		40	33	29		39	33	28	27
10	53	40	32	26	52	39	31	26	38	31	26		37	31	26		36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6604	6604	6604
5°	6648	6602	6612
10°	6615	6633	6550
15°	6632	6567	6594
20°	6607	6577	6511
25°	6531	6492	6452
30°	6512	6471	6409
35°	6412	6412	6313
40°	6363	6304	6222
45°	6243	6243	6155
50°	6168	6126	6041
55°	6064	6000	5907
60°	5929	5820	5729
65°	5691	5565	5458
70°	5427	5241	5112
75°	4837	4698	4631
80°	3995	3942	3889
85°	2890	3208	3208

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6243 cd/sqm

TEST NUMBER: P521497

CATALOG NUMBER: SQ4-F-0U-050D-92765-1D-UNV-STD-W-4_3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.8	3.3
10°-20°	194.2	9.5
20°-30°	293.4	14.4
30°-40°	353.3	17.4
40°-50°	366.3	18.0
50°-60°	332.1	16.3
60°-70°	252.5	12.4
70°-80°	140.6	6.9
80°-90°	36.2	1.8
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°	555.3	27.3
0°-40°	908.6	44.6
0°-60°	1607.1	78.9
0°-90°	2036.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2036.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	716	716	716	716	716	
5°	718	709	713	714	714	68
15°	694	688	688	688	690	196
25°	642	637	638	634	634	297
35°	569	564	569	562	560	357
45°	478	476	478	470	472	370
55°	377	376	373	369	367	336
65°	261	260	255	252	250	258
75°	136	134	132	130	130	144
85°	27	29	30	31	30	34
90°	0	0	0	0	0	

TEST NUMBER: P521497

CATALOG NUMBER: SQ4-F-0U-050D-92765-1D-UNV-STD-W-4_3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	715.8	715.8	715.8	715.8	715.8
2.5°	721.3	713.7	715.0	715.7	710.4
5°	717.8	709.2	712.9	713.9	713.9
7.5°	714.6	708.0	710.4	707.4	707.0
10°	706.1	703.2	708.0	701.1	699.2
12.5°	702.1	697.8	698.6	697.3	699.2
15°	694.3	687.7	687.5	687.6	690.4
17.5°	682.2	673.6	679.3	673.2	672.5
20°	672.9	664.3	669.9	663.1	663.1
22.5°	663.5	653.4	659.0	649.8	647.5
25°	641.6	636.8	637.7	633.8	633.8
27.5°	626.2	615.7	619.1	613.7	614.1
30°	611.3	600.8	607.4	599.7	601.6
32.5°	596.5	589.8	593.4	584.8	588.3
35°	569.3	563.6	569.3	562.5	560.5
37.5°	545.5	539.6	541.4	537.0	532.2
40°	528.3	521.6	523.4	517.6	516.6
42.5°	509.6	505.2	505.5	500.4	501.0
45°	478.5	475.7	478.5	469.8	471.7
47.5°	450.8	447.3	447.1	441.3	443.6
50°	429.7	427.8	426.8	420.9	420.9
52.5°	407.8	405.9	404.9	400.6	399.8
55°	377.0	376.0	373.0	369.1	367.2
57.5°	343.2	341.3	339.6	335.5	334.0
60°	321.3	319.4	315.4	310.5	310.5
62.5°	297.1	295.2	290.4	288.6	285.5
65°	260.7	259.8	254.9	251.9	250.0
67.5°	224.6	221.6	219.3	215.6	213.7
70°	201.2	197.4	194.3	191.4	189.5
72.5°	175.4	172.3	169.3	167.9	165.2
75°	135.7	133.8	131.8	129.9	129.9
77.5°	98.6	98.1	96.1	96.1	95.1
80°	75.2	76.2	74.2	74.2	73.2
82.5°	54.1	55.1	54.7	55.4	54.5
85°	27.3	29.3	30.3	31.2	30.3
87.5°	7.8	10.1	11.7	12.5	12.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)