

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:

Luminaire Tested: SQ4-FB-0U-050D-935-1D-UNV-STD-W-6

Issue Date: 8/1/2024

Test Information

Test Method: LM-79-2019
Report Number:
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2301-892-3)
Test Lab: INNOVATION CENTER
Issue Date: 8/1/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-0U-050D-935-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

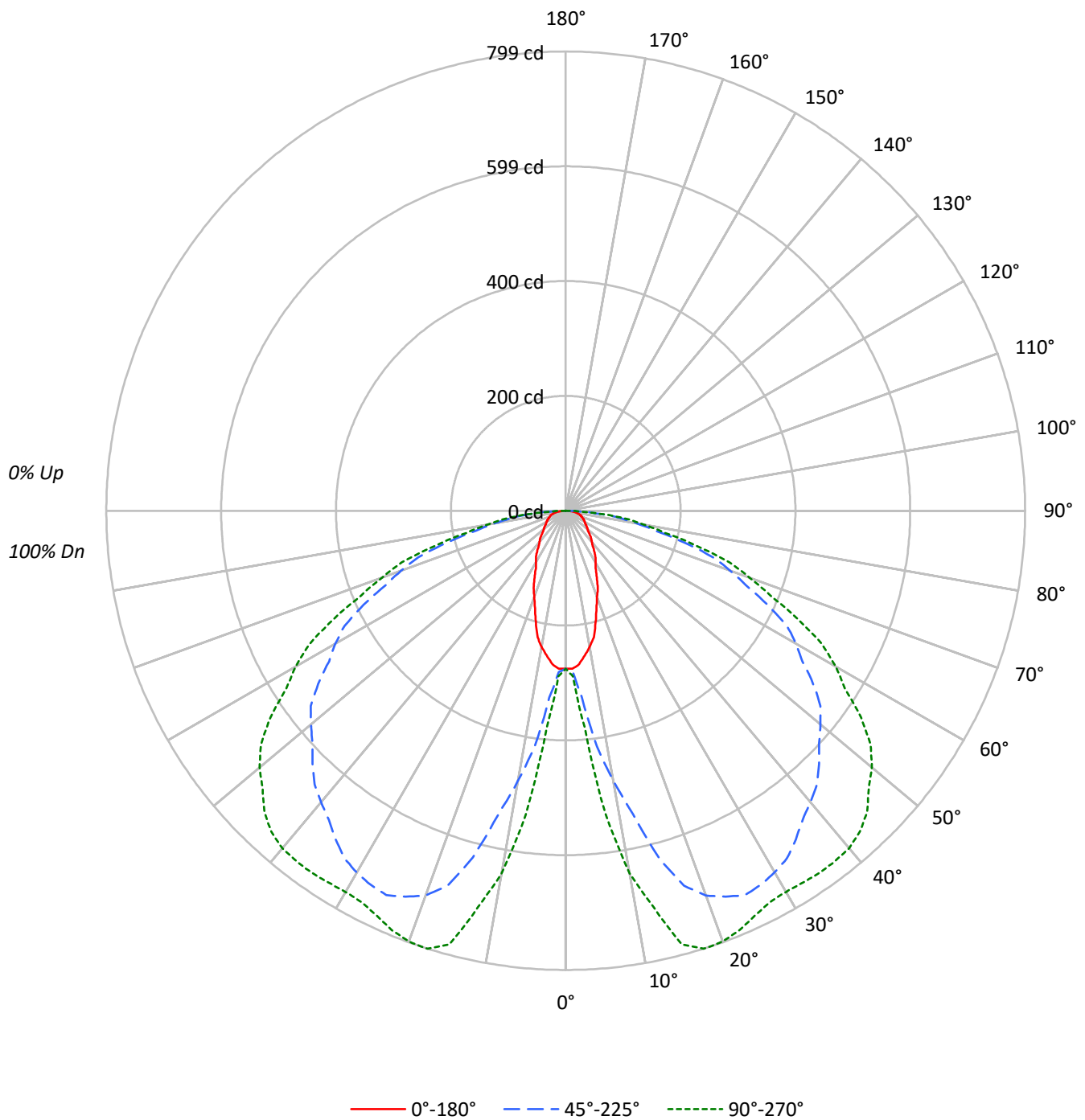
Lumens per Lamp: N/A
Luminaire Lumens: 2128.2 lumens
Efficiency: N/A
Efficacy: 79.7 lumens/watt
Spacing Criteria (0/90/45): 0.7 / 2.7 / 2.32
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

Input Watts (W): 26.7
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

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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	103	98	94	105	100	96	92	96	93	89	92	89	87	89	86	84
2	97	88	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69
3	88	77	68	61	86	75	67	61	72	65	59	69	63	58	67	62	57
4	80	67	58	51	78	66	57	51	63	56	50	61	54	49	59	53	48
5	73	60	50	43	71	58	50	43	56	48	42	54	47	42	52	46	41
6	67	53	44	37	65	52	43	37	50	42	36	49	42	36	47	41	36
7	62	48	39	32	60	47	38	32	45	38	32	44	37	32	43	36	31
8	58	43	34	28	56	43	34	28	41	34	28	40	33	28	39	32	28
9	54	40	31	25	52	39	31	25	38	30	25	37	30	25	36	29	25
10	50	36	28	23	49	36	28	22	35	27	22	34	27	22	33	27	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1691	1691	1691
5°	1654	2012	2342
10°	1502	2977	3998
15°	1278	3978	4972
20°	1042	4662	5221
25°	870	5008	5275
30°	735	5162	5439
35°	651	5239	5776
40°	568	5315	6156
45°	515	5419	6446
50°	474	5534	6650
55°	455	5637	6723
60°	467	5689	6669
65°	489	5643	6474
70°	525	5471	6122
75°	589	5075	5611
80°	659	4385	4885
85°	621	3649	4178

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 52.5°

Luminance: 6750 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.1	1.7
10°-20°	157.1	7.4
20°-30°	275.3	12.9
30°-40°	354.5	16.7
40°-50°	395.8	18.6
50°-60°	379.5	17.8
60°-70°	302.1	14.2
70°-80°	178.0	8.4
80°-90°	49.9	2.3
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°	468.5	22.0
0°-40°	823.0	38.7
0°-60°	1598.3	75.1
0°-90°	2128.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2128.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	275	275	275	275	275	
5°	268	287	326	368	379	25
15°	201	369	625	755	781	56
25°	128	418	738	776	777	59
35°	87	392	698	740	769	54
45°	59	308	623	708	741	46
55°	42	206	526	608	627	39
65°	34	134	388	438	445	33
75°	25	85	214	233	236	26
85°	9	23	52	58	59	10
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
0°	275.0	275.0	275.0	275.0	275.0	275.0	275.0	275.0	275.0	275.0
2.5°	275.0	275.0	276.4	278.5	279.3	282.1	286.3	288.4	289.9	288.4
5°	267.9	271.5	283.0	299.8	316.6	335.1	359.0	370.5	377.6	379.3
7.5°	254.0	263.7	296.4	340.3	389.1	437.5	479.4	513.4	533.2	534.1
10°	240.5	257.3	307.7	374.9	442.1	511.1	568.6	604.0	632.2	640.2
12.5°	225.7	251.0	319.7	409.6	501.6	579.0	642.9	681.8	704.4	707.4
15°	200.7	237.9	336.9	464.2	578.3	671.2	732.2	763.1	777.3	780.8
17.5°	177.6	226.2	351.9	507.0	642.2	725.8	772.1	791.6	798.7	799.0
20°	159.2	214.9	359.0	536.7	674.7	749.9	783.5	795.8	799.4	797.6
22.5°	145.7	202.8	363.3	556.6	694.5	759.1	784.2	790.2	791.6	789.8
25°	128.2	183.0	363.4	582.7	714.5	761.4	774.6	776.4	778.2	777.3
27.5°	112.7	160.9	358.1	600.1	717.3	750.6	756.8	761.2	766.7	767.9
30°	103.5	146.8	351.1	605.7	714.5	739.2	745.4	753.4	763.1	765.8
32.5°	96.4	133.3	340.4	606.4	707.4	725.8	734.1	749.1	763.1	767.2
35°	86.7	113.2	322.8	601.3	691.5	703.9	721.6	746.3	764.9	769.3
37.5°	77.1	98.7	298.7	590.9	670.6	683.5	712.7	742.6	763.3	768.8
40°	70.7	90.2	280.3	581.0	654.4	669.4	705.6	738.4	760.5	766.7
42.5°	65.8	83.1	260.5	568.2	636.0	656.7	697.2	732.0	752.7	757.5
45°	59.2	72.5	229.0	544.7	607.5	638.4	682.7	716.3	735.7	741.0
47.5°	53.1	65.1	196.1	517.8	578.5	616.3	661.6	693.4	711.3	714.8
50°	49.5	60.1	174.2	498.7	558.0	598.6	644.6	676.5	691.5	695.0
52.5°	46.7	55.9	153.7	476.8	536.7	580.3	624.1	653.1	666.7	668.1
55°	42.4	50.4	126.4	443.0	503.1	548.2	590.7	613.7	623.4	626.9
57.5°	40.1	46.3	105.1	406.4	465.3	510.6	549.1	567.0	574.8	576.0
60°	38.0	44.2	93.7	380.2	441.2	483.7	517.3	532.3	539.4	542.1
62.5°	35.9	42.8	85.2	353.4	413.0	454.0	483.3	496.2	501.9	502.4
65°	33.6	40.7	75.2	312.1	368.7	406.8	429.8	440.4	443.0	444.8
67.5°	31.3	38.6	67.9	270.6	323.1	354.6	371.6	380.8	381.3	385.0
70°	29.2	37.1	63.7	242.3	289.2	319.2	333.4	340.4	339.6	340.4
72.5°	27.8	35.0	60.8	213.3	256.6	280.3	293.0	298.0	298.5	298.7
75°	24.8	30.9	56.6	168.9	203.4	223.7	233.4	232.6	235.2	236.1
77.5°	21.4	26.7	46.5	124.5	152.4	165.9	173.7	176.1	175.3	175.4
80°	18.6	23.9	38.0	95.5	118.5	129.1	136.2	137.9	137.1	137.9
82.5°	15.0	19.6	29.5	70.7	88.8	97.3	102.2	102.6	103.1	104.7
85°	8.8	11.5	17.7	38.9	49.5	53.9	57.5	58.4	59.2	59.2
87.5°	3.5	5.0	9.2	16.3	20.5	21.9	21.9	20.5	21.9	19.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)