

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-125D-935-1D-UNV-STD-W-12

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-125D-935-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

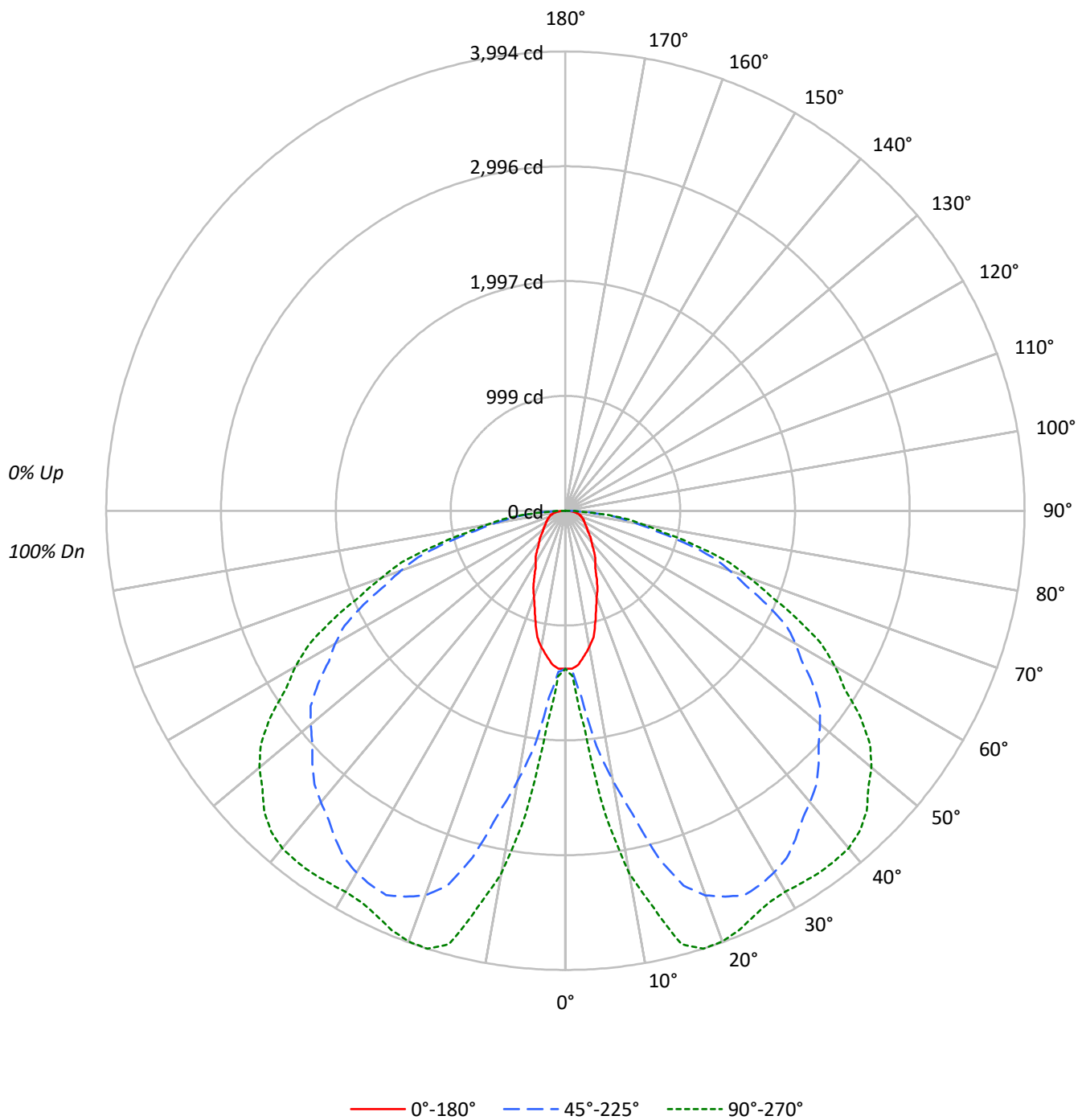
Lumens per Lamp: N/A
Luminaire Lumens: 10638.0 lumens
Efficiency: N/A
Efficacy: 75.6 lumens/watt
Spacing Criteria (0/90/45): 0.7 / 2.7 / 2.32
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Direct

Input Watts (W): 140.8
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	103	98	94	105	100	96	92	96	93	89		92	89	87		89
2	97	88	81	75	95	87	80	74	83	77	72		80	75	71		77
3	88	77	68	61	86	75	67	61	72	65	59		69	63	58		67
4	80	67	58	51	78	66	57	51	63	56	50		61	54	49		59
5	73	60	50	43	71	58	50	43	56	48	42		54	47	42		52
6	67	53	44	37	65	52	43	37	50	42	36		49	42	36		47
7	62	48	39	32	60	47	38	32	45	38	32		44	37	32		43
8	58	43	34	28	56	43	34	28	41	34	28		40	33	28		39
9	54	40	31	25	52	39	31	25	38	30	25		37	30	25		36
10	50	36	28	23	49	36	28	22	35	27	22		34	27	22		33

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4227	4227	4227
5°	4135	5028	5854
10°	3754	7440	9993
15°	3194	9942	12426
20°	2604	11652	13048
25°	2175	12516	13184
30°	1836	12902	13593
35°	1626	13093	14437
40°	1420	13282	15385
45°	1288	13543	16109
50°	1184	13830	16622
55°	1138	14089	16803
60°	1169	14219	16665
65°	1223	14104	16178
70°	1312	13672	15301
75°	1471	12684	14022
80°	1644	10959	12211
85°	1560	9123	10448

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 52.5°

Luminance: 16872 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.3	1.7
10°-20°	785.3	7.4
20°-30°	1376.1	12.9
30°-40°	1772.0	16.7
40°-50°	1978.4	18.6
50°-60°	1897.2	17.8
60°-70°	1509.8	14.2
70°-80°	889.5	8.4
80°-90°	249.3	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°	2341.7	22.0
0°-40°	4113.7	38.7
0°-60°	7989.3	75.1
0°-90°	10638.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10638.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1375	1375	1375	1375	1375	
5°	1339	1435	1629	1838	1896	123
15°	1003	1843	3123	3776	3903	278
25°	641	2091	3688	3878	3885	296
35°	433	1961	3487	3700	3845	270
45°	296	1539	3114	3538	3704	229
55°	212	1028	2628	3039	3134	194
65°	168	672	1938	2188	2223	166
75°	124	423	1067	1164	1180	129
85°	44	115	259	291	296	50
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
0°	1374.6	1374.6	1374.6	1374.6	1374.6	1374.6	1374.6	1374.6	1374.6	1374.6
2.5°	1374.6	1374.6	1381.7	1392.3	1395.8	1410.0	1431.2	1441.8	1448.9	1441.8
5°	1339.3	1356.9	1414.4	1498.4	1582.3	1675.2	1794.5	1852.0	1887.3	1896.2
7.5°	1269.4	1318.0	1481.6	1700.8	1944.8	2187.0	2396.5	2566.2	2665.2	2669.7
10°	1202.2	1286.2	1538.1	1874.1	2210.0	2554.7	2842.0	3018.8	3160.3	3200.1
12.5°	1128.0	1254.4	1598.3	2047.3	2507.0	2894.2	3213.3	3407.8	3520.9	3536.0
15°	1003.3	1189.0	1684.0	2320.5	2890.7	3354.8	3659.7	3814.4	3885.2	3902.8
17.5°	887.5	1130.6	1759.1	2534.4	3209.8	3627.9	3859.5	3956.8	3992.1	3993.9
20°	795.6	1074.1	1794.5	2682.9	3372.4	3748.1	3916.1	3978.0	3995.7	3986.8
22.5°	728.4	1013.9	1815.7	2781.9	3471.4	3794.1	3919.6	3949.7	3956.8	3947.9
25°	640.9	914.9	1816.6	2912.8	3571.3	3805.6	3871.9	3880.7	3889.6	3885.2
27.5°	563.1	804.4	1790.1	2999.4	3585.5	3751.7	3782.6	3804.7	3832.1	3838.3
30°	517.1	733.7	1754.7	3027.7	3571.3	3695.1	3726.0	3765.8	3814.4	3827.7
32.5°	481.8	666.5	1701.7	3031.2	3536.0	3627.9	3669.5	3744.6	3814.4	3834.8
35°	433.2	565.8	1613.3	3005.6	3456.4	3518.3	3606.7	3730.5	3823.3	3845.4
37.5°	385.4	493.3	1493.1	2953.4	3352.1	3416.6	3562.5	3711.9	3815.3	3842.7
40°	353.6	450.8	1401.1	2903.9	3270.8	3345.9	3527.1	3690.7	3801.2	3832.1
42.5°	328.8	415.5	1302.1	2840.3	3178.8	3282.3	3484.7	3658.8	3762.3	3786.1
45°	296.1	362.4	1144.8	2722.7	3036.5	3191.2	3412.2	3580.2	3677.4	3703.9
47.5°	265.2	325.3	980.3	2588.3	2891.5	3080.7	3307.0	3466.1	3555.4	3573.1
50°	247.5	300.6	870.7	2492.9	2789.0	2992.3	3222.2	3381.3	3456.4	3474.1
52.5°	233.4	279.3	768.2	2383.2	2682.9	2900.4	3119.6	3264.6	3332.7	3339.7
55°	212.2	251.9	632.1	2214.4	2515.0	2740.4	2952.5	3067.5	3116.1	3133.8
57.5°	200.7	231.6	525.1	2031.4	2325.8	2552.1	2744.8	2834.1	2873.0	2879.2
60°	190.1	221.0	468.5	1900.6	2205.6	2417.7	2585.7	2660.8	2696.2	2709.4
62.5°	179.5	213.9	426.1	1766.2	2064.1	2269.2	2416.0	2480.5	2508.8	2511.4
65°	168.0	203.3	375.7	1560.2	1843.1	2033.2	2148.1	2201.1	2214.4	2223.2
67.5°	156.5	192.7	339.5	1352.5	1615.1	1772.4	1857.3	1903.2	1905.9	1924.5
70°	145.9	185.6	318.2	1211.1	1445.3	1595.6	1666.3	1701.7	1697.3	1701.7
72.5°	138.8	175.0	304.1	1066.1	1282.7	1401.1	1464.8	1489.5	1492.2	1493.1
75°	123.8	154.7	282.9	844.2	1016.6	1118.3	1166.9	1162.5	1175.7	1180.1
77.5°	107.0	133.5	232.5	622.3	762.0	829.2	868.1	880.5	876.0	876.9
80°	92.8	119.3	190.1	477.4	592.3	645.3	680.7	689.5	685.1	689.5
82.5°	75.1	98.1	147.6	353.6	443.8	486.2	510.9	512.7	515.4	523.3
85°	44.2	57.5	88.4	194.5	247.5	269.6	287.3	291.7	296.1	296.1
87.5°	17.7	24.8	46.0	81.3	102.5	109.6	109.6	102.5	109.6	99.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)