

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-835-1D-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-125D-835-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

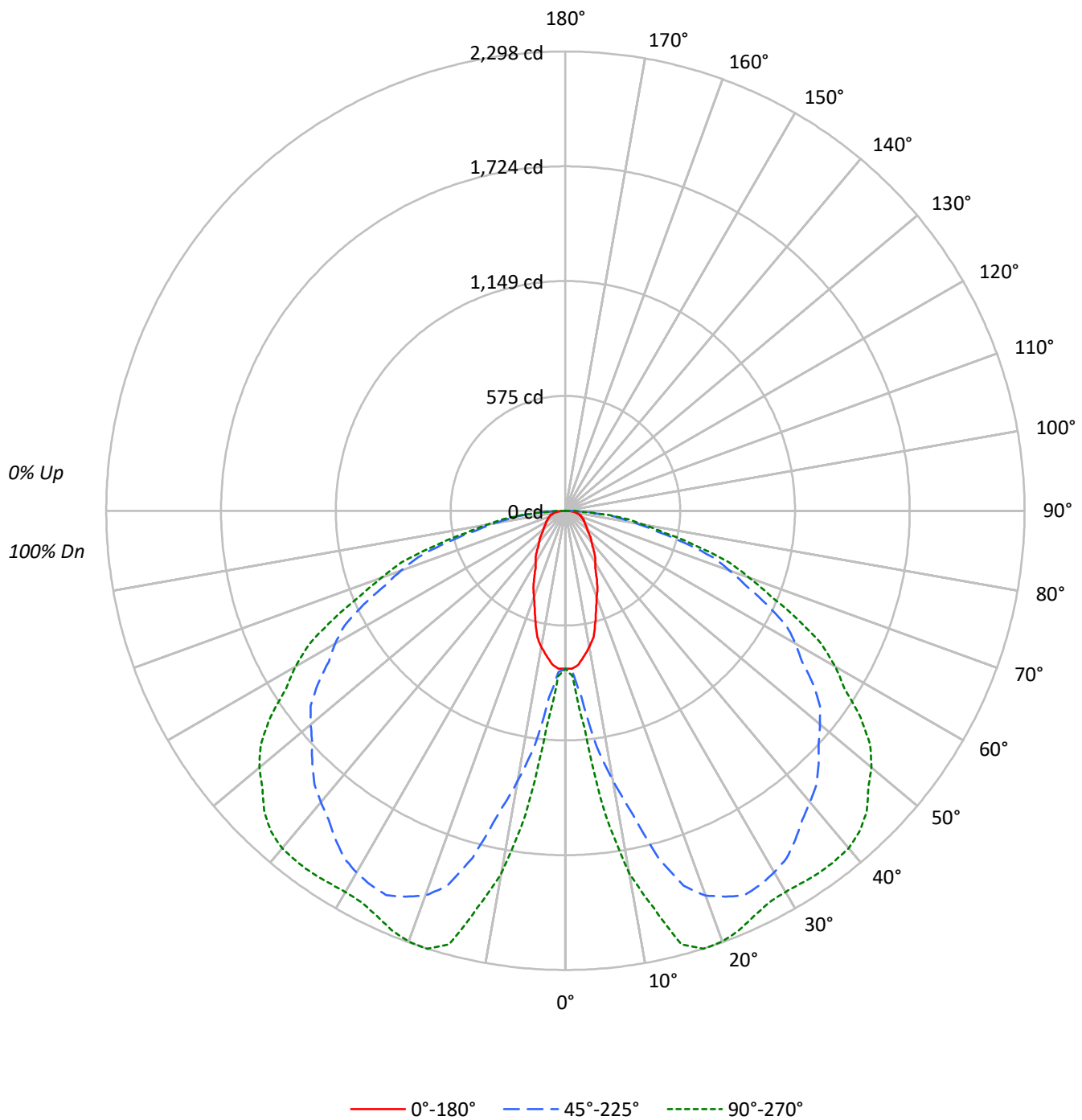
Lumens per Lamp: N/A
Luminaire Lumens: 6121.6 lumens
Efficiency: N/A
Efficacy: 87.8 lumens/watt
Spacing Criteria (0/90/45): 0.7 / 2.7 / 2.32
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

Input Watts (W): 69.7
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
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°	4865	4865	4865
5°	4759	5787	6737
10°	4321	8562	11501
15°	3677	11443	14301
20°	2997	13410	15017
25°	2503	14405	15173
30°	2114	14849	15644
35°	1872	15069	16615
40°	1634	15286	17706
45°	1482	15586	18540
50°	1363	15917	19130
55°	1309	16215	19338
60°	1346	16364	19179
65°	1407	16232	18620
70°	1509	15735	17610
75°	1692	14598	16139
80°	1891	12612	14055
85°	1793	10501	12026

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 52.5°

Luminance: 19417 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.8	1.7
10°-20°	451.9	7.4
20°-30°	791.9	12.9
30°-40°	1019.7	16.7
40°-50°	1138.5	18.6
50°-60°	1091.7	17.8
60°-70°	868.8	14.2
70°-80°	511.9	8.4
80°-90°	143.5	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°	1347.5	22.0
0°-40°	2367.2	38.7
0°-60°	4597.4	75.1
0°-90°	6121.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6121.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	791	791	791	791	791	
5°	771	826	937	1057	1091	71
15°	577	1061	1797	2173	2246	160
25°	369	1203	2122	2232	2236	170
35°	249	1129	2007	2129	2213	156
45°	170	886	1792	2036	2131	132
55°	122	591	1512	1749	1803	111
65°	97	387	1115	1259	1279	96
75°	71	244	614	670	679	74
85°	25	66	149	167	170	29
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
0°	791.0	791.0	791.0	791.0	791.0	791.0	791.0	791.0	791.0	791.0
2.5°	791.0	791.0	795.1	801.2	803.2	811.4	823.6	829.7	833.7	829.7
5°	770.7	780.8	813.9	862.2	910.6	964.0	1032.6	1065.7	1086.1	1091.1
7.5°	730.5	758.5	852.6	978.7	1119.1	1258.5	1379.1	1476.7	1533.7	1536.2
10°	691.8	740.1	885.1	1078.4	1271.7	1470.1	1635.4	1737.2	1818.6	1841.5
12.5°	649.1	721.8	919.7	1178.1	1442.6	1665.5	1849.1	1961.0	2026.1	2034.8
15°	577.4	684.2	969.1	1335.3	1663.4	1930.5	2106.0	2195.0	2235.7	2245.9
17.5°	510.7	650.6	1012.3	1458.4	1847.1	2087.7	2220.9	2276.9	2297.2	2298.3
20°	457.8	618.1	1032.6	1543.9	1940.7	2156.8	2253.5	2289.1	2299.3	2294.2
22.5°	419.2	583.5	1044.8	1600.8	1997.6	2183.3	2255.5	2272.8	2276.9	2271.8
25°	368.8	526.5	1045.4	1676.1	2055.1	2189.9	2228.1	2233.1	2238.2	2235.7
27.5°	324.0	462.9	1030.1	1726.0	2063.2	2158.9	2176.7	2189.4	2205.2	2208.7
30°	297.6	422.2	1009.7	1742.3	2055.1	2126.3	2144.1	2167.0	2195.0	2202.6
32.5°	277.2	383.6	979.2	1744.3	2034.8	2087.7	2111.6	2154.8	2195.0	2206.7
35°	249.3	325.6	928.4	1729.5	1989.0	2024.6	2075.5	2146.7	2200.1	2212.8
37.5°	221.8	283.8	859.2	1699.5	1929.0	1966.1	2050.0	2136.0	2195.5	2211.3
40°	203.5	259.4	806.3	1671.0	1882.2	1925.4	2029.7	2123.8	2187.4	2205.2
42.5°	189.2	239.1	749.3	1634.4	1829.2	1888.8	2005.3	2105.5	2165.0	2178.7
45°	170.4	208.6	658.8	1566.8	1747.3	1836.4	1963.5	2060.2	2116.1	2131.4
47.5°	152.6	187.2	564.1	1489.4	1663.9	1772.8	1903.0	1994.6	2046.0	2056.1
50°	142.4	173.0	501.1	1434.5	1604.9	1721.9	1854.2	1945.7	1989.0	1999.2
52.5°	134.3	160.7	442.1	1371.4	1543.9	1669.0	1795.2	1878.6	1917.8	1921.8
55°	122.1	145.0	363.7	1274.3	1447.2	1576.9	1699.0	1765.2	1793.1	1803.3
57.5°	115.5	133.3	302.2	1169.0	1338.4	1468.6	1579.5	1630.9	1653.2	1656.8
60°	109.4	127.2	269.6	1093.7	1269.2	1391.3	1487.9	1531.2	1551.5	1559.1
62.5°	103.3	123.1	245.2	1016.4	1187.8	1305.8	1390.2	1427.4	1443.7	1445.2
65°	96.7	117.0	216.2	897.8	1060.6	1170.0	1236.1	1266.6	1274.3	1279.4
67.5°	90.0	110.9	195.3	778.3	929.4	1019.9	1068.8	1095.2	1096.7	1107.4
70°	83.9	106.8	183.1	696.9	831.7	918.2	958.9	979.2	976.7	979.2
72.5°	79.9	100.7	175.0	613.5	738.1	806.3	842.9	857.1	858.7	859.2
75°	71.2	89.0	162.8	485.8	585.0	643.5	671.5	668.9	676.6	679.1
77.5°	61.6	76.8	133.8	358.1	438.5	477.2	499.5	506.7	504.1	504.6
80°	53.4	68.7	109.4	274.7	340.8	371.3	391.7	396.8	394.2	396.8
82.5°	43.2	56.5	85.0	203.5	255.4	279.8	294.0	295.0	296.6	301.1
85°	25.4	33.1	50.9	111.9	142.4	155.2	165.3	167.9	170.4	170.4
87.5°	10.2	14.2	26.5	46.8	59.0	63.1	63.1	59.0	63.1	57.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)