

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-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-935-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

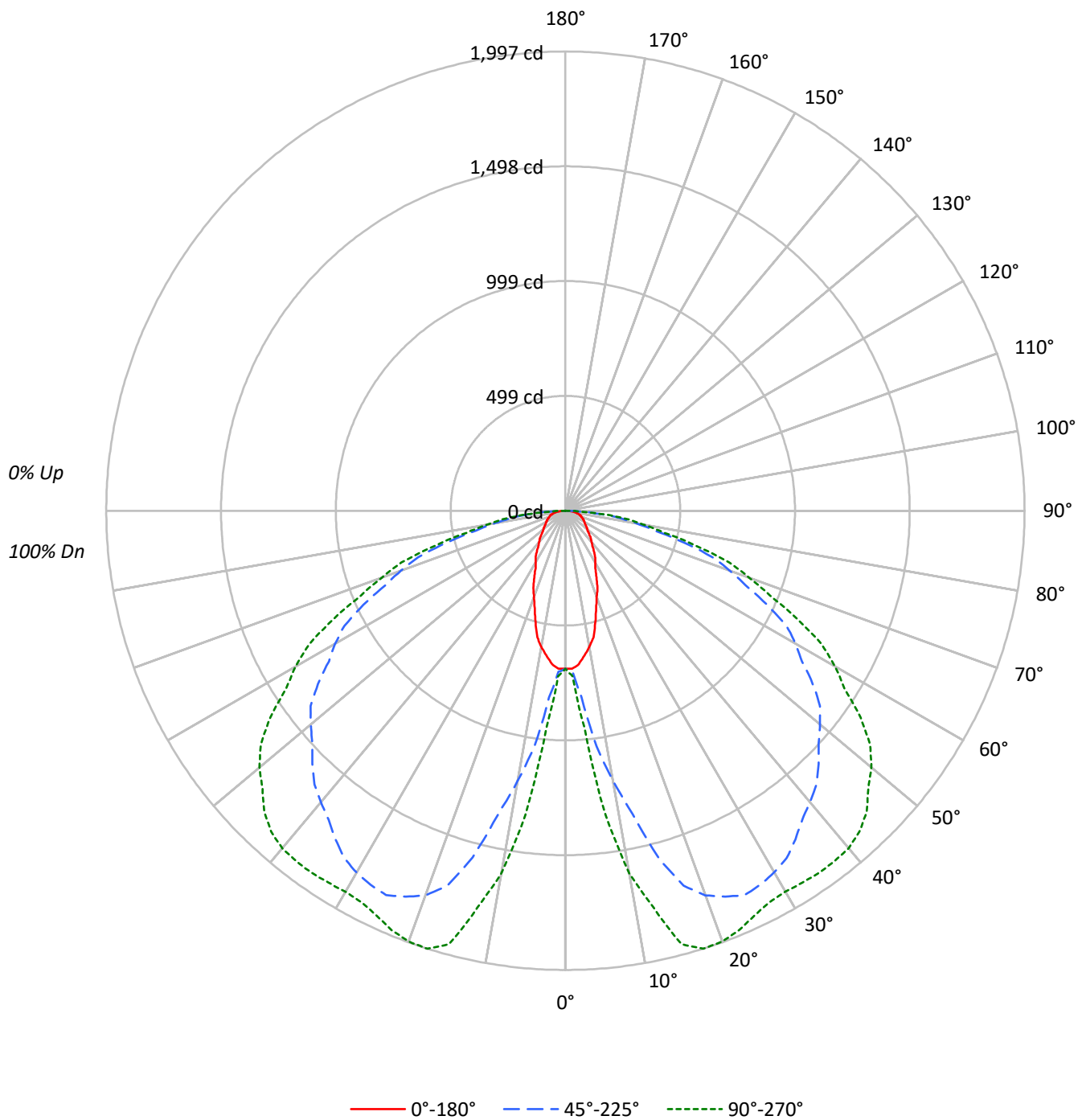
Lumens per Lamp: N/A
Luminaire Lumens: 5319.0 lumens
Efficiency: N/A
Efficacy: 76.3 lumens/watt
Spacing Criteria (0/90/45): 0.7 / 2.7 / 2.32
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

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°	4227	4227	4227
5°	4134	5028	5854
10°	3754	7440	9993
15°	3195	9942	12426
20°	2604	11652	13048
25°	2174	12516	13184
30°	1837	12902	13592
35°	1626	13093	14437
40°	1420	13282	15385
45°	1288	13543	16110
50°	1185	13830	16621
55°	1138	14089	16803
60°	1169	14219	16665
65°	1223	14104	16178
70°	1311	13672	15301
75°	1471	12683	14024
80°	1644	10959	12213
85°	1560	9125	10452

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°	90.2	1.7
10°-20°	392.7	7.4
20°-30°	688.1	12.9
30°-40°	886.0	16.7
40°-50°	989.2	18.6
50°-60°	948.6	17.8
60°-70°	754.9	14.2
70°-80°	444.7	8.4
80°-90°	124.7	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°	1170.9	22.0
0°-40°	2056.9	38.7
0°-60°	3994.7	75.1
0°-90°	5319.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5319.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	687	687	687	687	687	
5°	670	718	814	919	948	62
15°	502	922	1561	1888	1951	139
25°	320	1045	1844	1939	1943	148
35°	217	981	1744	1850	1923	135
45°	148	770	1557	1769	1852	115
55°	106	514	1314	1519	1567	97
65°	84	336	969	1094	1112	83
75°	62	212	534	582	590	65
85°	22	57	129	145	148	25
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
0°	687.3	687.3	687.3	687.3	687.3	687.3	687.3	687.3	687.3	687.3
2.5°	687.3	687.3	690.8	696.1	697.9	705.0	715.6	720.9	724.4	720.9
5°	669.6	678.5	707.2	749.2	791.2	837.6	897.3	926.0	943.7	948.1
7.5°	634.7	659.0	740.8	850.4	972.4	1093.5	1198.3	1283.1	1332.6	1334.8
10°	601.1	643.1	769.1	937.0	1105.0	1277.4	1421.0	1509.4	1580.1	1600.0
12.5°	564.0	627.2	799.1	1023.7	1253.5	1447.1	1606.7	1703.9	1760.5	1768.0
15°	501.7	594.5	842.0	1160.2	1445.3	1677.4	1829.9	1907.2	1942.6	1951.4
17.5°	443.8	565.3	879.6	1267.2	1604.9	1814.0	1929.8	1978.4	1996.1	1996.9
20°	397.8	537.0	897.3	1341.5	1686.2	1874.1	1958.0	1989.0	1997.8	1993.4
22.5°	364.2	507.0	907.9	1391.0	1735.7	1897.1	1959.8	1974.8	1978.4	1974.0
25°	320.4	457.5	908.3	1456.4	1785.7	1902.8	1935.9	1940.4	1944.8	1942.6
27.5°	281.6	402.2	895.0	1499.7	1792.7	1875.8	1891.3	1902.4	1916.1	1919.2
30°	258.6	366.9	877.4	1513.8	1785.7	1847.5	1863.0	1882.9	1907.2	1913.8
32.5°	240.9	333.3	850.8	1515.6	1768.0	1814.0	1834.7	1872.3	1907.2	1917.4
35°	216.6	282.9	806.6	1502.8	1728.2	1759.1	1803.3	1865.2	1911.6	1922.7
37.5°	192.7	246.6	746.5	1476.7	1676.1	1708.3	1781.2	1855.9	1907.7	1921.4
40°	176.8	225.4	700.6	1452.0	1635.4	1673.0	1763.6	1845.3	1900.6	1916.1
42.5°	164.4	207.7	651.1	1420.1	1589.4	1641.1	1742.4	1829.4	1881.1	1893.1
45°	148.1	181.2	572.4	1361.4	1518.3	1595.6	1706.1	1790.1	1838.7	1852.0
47.5°	132.6	162.7	490.2	1294.2	1445.8	1540.4	1653.5	1733.1	1777.7	1786.6
50°	123.8	150.3	435.4	1246.4	1394.5	1496.2	1611.1	1690.6	1728.2	1737.0
52.5°	116.7	139.7	384.1	1191.6	1341.5	1450.2	1559.8	1632.3	1666.3	1669.9
55°	106.1	126.0	316.0	1107.2	1257.5	1370.2	1476.3	1533.7	1558.0	1566.9
57.5°	100.3	115.8	262.5	1015.7	1162.9	1276.0	1372.4	1417.0	1436.5	1439.6
60°	95.0	110.5	234.3	950.3	1102.8	1208.9	1292.8	1330.4	1348.1	1354.7
62.5°	89.7	107.0	213.0	883.1	1032.1	1134.6	1208.0	1240.2	1254.4	1255.7
65°	84.0	101.7	187.8	780.1	921.6	1016.6	1074.1	1100.6	1107.2	1111.6
67.5°	78.2	96.4	169.7	676.3	807.5	886.2	928.6	951.6	952.9	962.2
70°	72.9	92.8	159.1	605.5	722.7	797.8	833.2	850.8	848.6	850.8
72.5°	69.4	87.5	152.0	533.0	641.3	700.6	732.4	744.8	746.1	746.5
75°	61.9	77.3	141.4	422.1	508.3	559.1	583.4	581.2	587.9	590.1
77.5°	53.5	66.7	116.2	311.2	381.0	414.6	434.0	440.2	438.0	438.5
80°	46.4	59.7	95.0	238.7	296.1	322.7	340.3	344.8	342.5	344.8
82.5°	37.6	49.1	73.8	176.8	221.9	243.1	255.5	256.4	257.7	261.7
85°	22.1	28.7	44.2	97.2	123.8	134.8	143.6	145.9	148.1	148.1
87.5°	8.8	12.4	23.0	40.7	51.3	54.8	54.8	51.3	54.8	49.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)