

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-840-1D-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-840-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

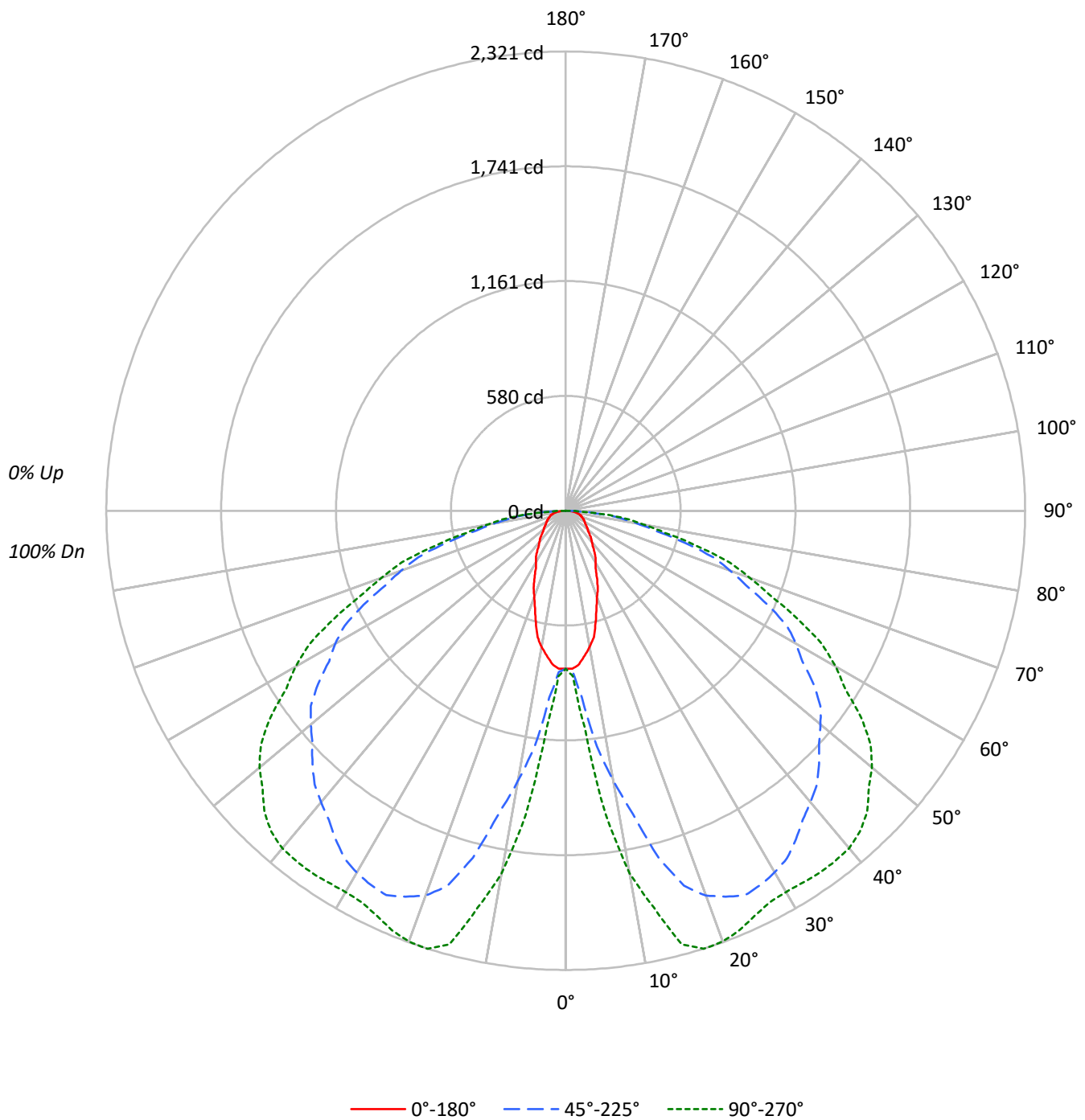
Lumens per Lamp: N/A
Luminaire Lumens: 6183.2 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Spacing Criteria (0/90/45): 0.7 / 2.7 / 2.32
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	4914	4914	4914
5°	4806	5845	6805
10°	4364	8648	11617
15°	3714	11558	14445
20°	3027	13545	15168
25°	2528	14550	15326
30°	2135	14998	15801
35°	1891	15220	16783
40°	1650	15440	17884
45°	1497	15743	18727
50°	1377	16077	19323
55°	1322	16378	19533
60°	1359	16529	19373
65°	1420	16396	18807
70°	1525	15893	17788
75°	1709	14745	16300
80°	1909	12741	14197
85°	1814	10607	12146

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 52.5°

Luminance: 19613 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.8	1.7
10°-20°	456.4	7.4
20°-30°	799.9	12.9
30°-40°	1029.9	16.7
40°-50°	1149.9	18.6
50°-60°	1102.7	17.8
60°-70°	877.6	14.2
70°-80°	517.0	8.4
80°-90°	144.9	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°	1361.1	22.0
0°-40°	2391.1	38.7
0°-60°	4643.7	75.1
0°-90°	6183.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6183.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	799	799	799	799	799	
5°	778	834	947	1068	1102	71
15°	583	1071	1815	2195	2268	162
25°	372	1215	2144	2254	2258	172
35°	252	1140	2027	2150	2235	157
45°	172	895	1810	2056	2153	133
55°	123	597	1527	1766	1822	112
65°	98	391	1127	1272	1292	97
75°	72	246	620	676	686	75
85°	26	67	150	169	172	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°	799.0	799.0	799.0	799.0	799.0	799.0	799.0	799.0	799.0	799.0
2.5°	799.0	799.0	803.1	809.2	811.3	819.5	831.9	838.0	842.1	838.0
5°	778.4	788.7	822.1	870.9	919.7	973.7	1043.0	1076.4	1097.0	1102.1
7.5°	737.8	766.1	861.1	988.6	1130.4	1271.2	1392.9	1491.6	1549.1	1551.7
10°	698.8	747.6	894.0	1089.3	1284.5	1484.9	1651.9	1754.7	1836.9	1860.0
12.5°	655.6	729.1	929.0	1190.0	1457.2	1682.2	1867.7	1980.7	2046.5	2055.2
15°	583.2	691.1	978.8	1348.7	1680.2	1949.9	2127.2	2217.1	2258.2	2268.5
17.5°	515.9	657.2	1022.5	1473.1	1865.6	2108.7	2243.3	2299.8	2320.4	2321.4
20°	462.4	624.3	1043.0	1559.4	1960.2	2178.5	2276.2	2312.1	2322.4	2317.3
22.5°	423.4	589.3	1055.4	1617.0	2017.7	2205.3	2278.2	2295.7	2299.8	2294.7
25°	372.5	531.8	1055.9	1693.0	2075.8	2211.9	2250.5	2255.6	2260.8	2258.2
27.5°	327.3	467.6	1040.5	1743.4	2084.0	2180.6	2198.6	2211.4	2227.4	2231.0
30°	300.6	426.5	1019.9	1759.8	2075.8	2147.7	2165.7	2188.8	2217.1	2224.8
32.5°	280.0	387.4	989.1	1761.8	2055.2	2108.7	2132.8	2176.5	2217.1	2228.9
35°	251.8	328.8	937.7	1746.9	2009.0	2045.0	2096.3	2168.3	2222.2	2235.1
37.5°	224.0	286.7	867.8	1716.6	1948.4	1985.9	2070.6	2157.5	2217.6	2233.5
40°	205.5	262.0	814.4	1687.9	1901.1	1944.8	2050.1	2145.2	2209.4	2227.4
42.5°	191.1	241.5	756.8	1650.9	1847.7	1907.8	2025.4	2126.7	2186.8	2200.6
45°	172.1	210.7	665.4	1582.5	1764.9	1854.8	1983.3	2080.9	2137.4	2152.9
47.5°	154.1	189.1	569.8	1504.4	1680.7	1790.6	1922.2	2014.6	2066.5	2076.8
50°	143.9	174.7	506.1	1448.9	1621.1	1739.2	1872.8	1965.3	2009.0	2019.3
52.5°	135.6	162.4	446.5	1385.2	1559.4	1685.8	1813.2	1897.5	1937.1	1941.2
55°	123.3	146.4	367.4	1287.1	1461.8	1592.8	1716.1	1782.9	1811.2	1821.5
57.5°	116.6	134.6	305.2	1180.7	1351.8	1483.4	1595.4	1647.3	1669.9	1673.5
60°	110.5	128.5	272.3	1104.7	1282.0	1405.3	1502.9	1546.6	1567.1	1574.8
62.5°	104.3	124.3	247.7	1026.6	1199.7	1318.9	1404.2	1441.7	1458.2	1459.7
65°	97.6	118.2	218.4	906.9	1071.3	1181.8	1248.6	1279.4	1287.1	1292.2
67.5°	90.9	112.0	197.3	786.1	938.7	1030.2	1079.5	1106.2	1107.8	1118.6
70°	84.8	107.9	185.0	703.9	840.1	927.4	968.5	989.1	986.5	989.1
72.5°	80.7	101.7	176.8	619.7	745.5	814.4	851.4	865.8	867.3	867.8
75°	71.9	89.9	164.4	490.7	590.9	650.0	678.2	675.7	683.4	685.9
77.5°	62.2	77.6	135.1	361.7	442.9	482.0	504.6	511.8	509.2	509.7
80°	53.9	69.4	110.5	277.5	344.3	375.1	395.6	400.8	398.2	400.8
82.5°	43.7	57.0	85.8	205.5	257.9	282.6	297.0	298.0	299.6	304.2
85°	25.7	33.4	51.4	113.0	143.9	156.7	167.0	169.6	172.1	172.1
87.5°	10.3	14.4	26.7	47.3	59.6	63.7	63.7	59.6	63.7	57.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)