

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-4

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-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

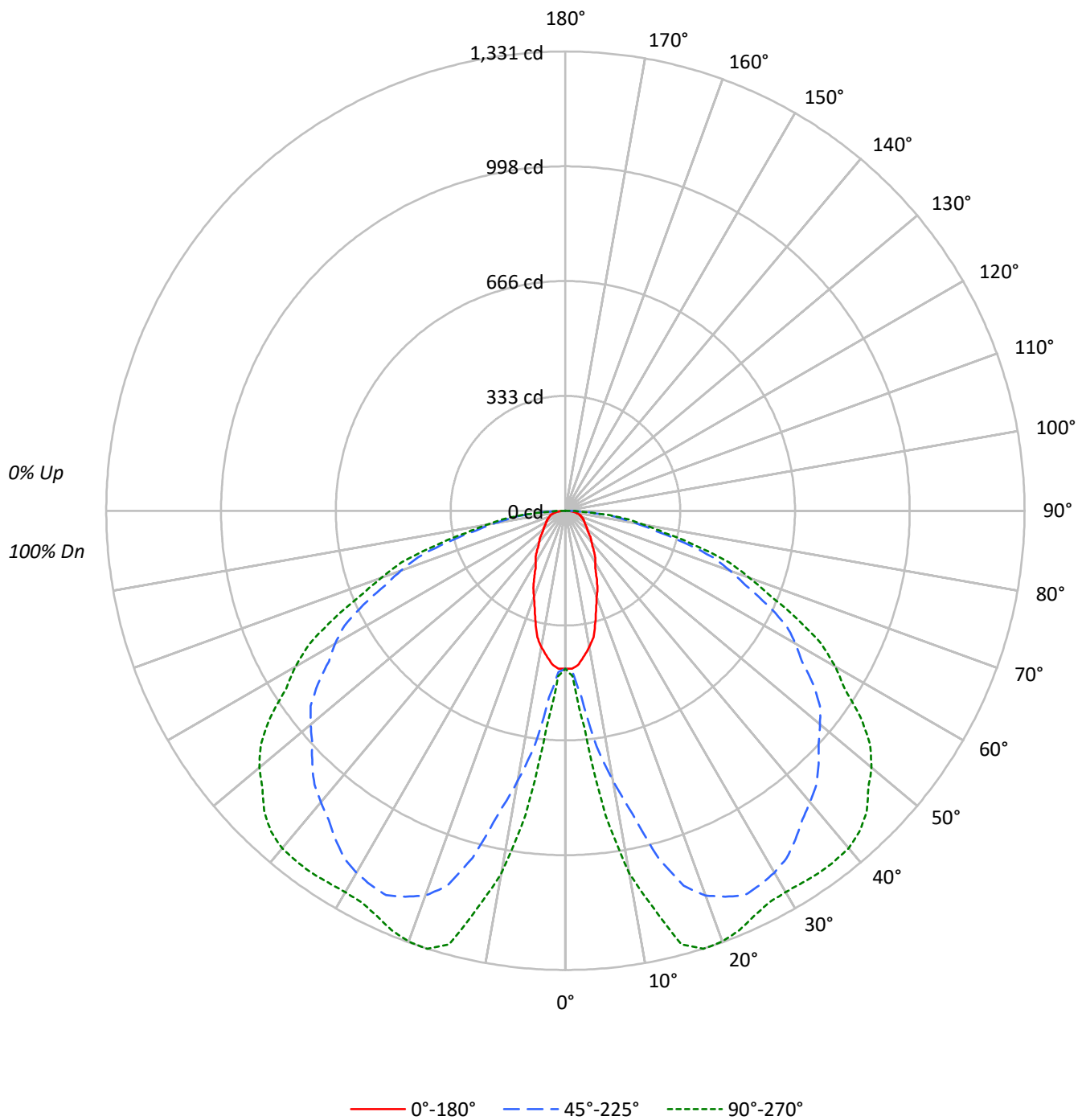
Lumens per Lamp: N/A
Luminaire Lumens: 3546.0 lumens
Efficiency: N/A
Efficacy: 81.3 lumens/watt
Spacing Criteria (0/90/45): 0.7 / 2.7 / 2.32
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 43.6
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

TEST NUMBER:

CATALOG NUMBER: SQ4-FB-0U-125D-935-1D-UNV-STD-W-4

Luminous Intensity Polar Plot



TEST NUMBER:

CATALOG NUMBER: SQ4-FB-0U-125D-935-1D-UNV-STD-W-4

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°	3194	9943	12426
20°	2604	11652	13048
25°	2174	12516	13184
30°	1837	12902	13593
35°	1626	13093	14437
40°	1420	13282	15385
45°	1288	13543	16109
50°	1184	13830	16621
55°	1137	14089	16803
60°	1170	14219	16664
65°	1223	14104	16179
70°	1311	13673	15301
75°	1472	12685	14024
80°	1642	10958	12210
85°	1556	9125	10448

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 52.5°

Luminance: 16871 cd/sqm

TEST NUMBER:

CATALOG NUMBER: SQ4-FB-0U-125D-935-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.1	1.7
10°-20°	261.8	7.4
20°-30°	458.7	12.9
30°-40°	590.7	16.7
40°-50°	659.5	18.6
50°-60°	632.4	17.8
60°-70°	503.3	14.2
70°-80°	296.5	8.4
80°-90°	83.1	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°	780.6	22.0
0°-40°	1371.2	38.7
0°-60°	2663.1	75.1
0°-90°	3546.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3546.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	458	458	458	458	458	
5°	446	478	543	613	632	41
15°	334	614	1041	1259	1301	93
25°	214	697	1229	1293	1295	98
35°	144	654	1162	1233	1282	90
45°	99	513	1038	1179	1235	76
55°	71	343	876	1013	1045	65
65°	56	224	646	729	741	55
75°	41	141	356	388	393	43
85°	15	38	86	97	99	17
90°	0	0	0	0	0	

TEST NUMBER:

CATALOG NUMBER: SQ4-FB-0U-125D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
0°	458.2	458.2	458.2	458.2	458.2	458.2	458.2	458.2	458.2	458.2
2.5°	458.2	458.2	460.6	464.1	465.3	470.0	477.1	480.6	483.0	480.6
5°	446.4	452.3	471.5	499.5	527.4	558.4	598.2	617.3	629.1	632.1
7.5°	423.1	439.3	493.9	566.9	648.3	729.0	798.8	855.4	888.4	889.9
10°	400.7	428.7	512.7	624.7	736.7	851.6	947.3	1006.3	1053.4	1066.7
12.5°	376.0	418.1	532.8	682.4	835.7	964.7	1071.1	1135.9	1173.6	1178.7
15°	334.4	396.3	561.3	773.5	963.6	1118.3	1219.9	1271.5	1295.1	1300.9
17.5°	295.8	376.9	586.4	844.8	1069.9	1209.3	1286.5	1318.9	1330.7	1331.3
20°	265.2	358.0	598.2	894.3	1124.1	1249.4	1305.4	1326.0	1331.9	1328.9
22.5°	242.8	338.0	605.2	927.3	1157.1	1264.7	1306.5	1316.6	1318.9	1316.0
25°	213.6	305.0	605.5	970.9	1190.4	1268.5	1290.6	1293.6	1296.5	1295.1
27.5°	187.7	268.1	596.7	999.8	1195.2	1250.6	1260.9	1268.2	1277.4	1279.4
30°	172.4	244.6	584.9	1009.2	1190.4	1231.7	1242.0	1255.3	1271.5	1275.9
32.5°	160.6	222.2	567.2	1010.4	1178.7	1209.3	1223.2	1248.2	1271.5	1278.3
35°	144.4	188.6	537.8	1001.9	1152.1	1172.8	1202.2	1243.5	1274.4	1281.8
37.5°	128.5	164.4	497.7	984.5	1117.4	1138.9	1187.5	1237.3	1271.8	1280.9
40°	117.9	150.3	467.0	968.0	1090.3	1115.3	1175.7	1230.2	1267.1	1277.4
42.5°	109.6	138.5	434.0	946.8	1059.6	1094.1	1161.6	1219.6	1254.1	1262.0
45°	98.7	120.8	381.6	907.6	1012.2	1063.7	1137.4	1193.4	1225.8	1234.6
47.5°	88.4	108.4	326.8	862.8	963.8	1026.9	1102.3	1155.4	1185.1	1191.0
50°	82.5	100.2	290.2	831.0	929.7	997.4	1074.1	1127.1	1152.1	1158.0
52.5°	77.8	93.1	256.1	794.4	894.3	966.8	1039.9	1088.2	1110.9	1113.2
55°	70.7	84.0	210.7	738.1	838.3	913.5	984.2	1022.5	1038.7	1044.6
57.5°	66.9	77.2	175.0	677.1	775.3	850.7	914.9	944.7	957.7	959.7
60°	63.4	73.7	156.2	633.5	735.2	805.9	861.9	886.9	898.7	903.1
62.5°	59.8	71.3	142.0	588.7	688.0	756.4	805.3	826.8	836.3	837.1
65°	56.0	67.8	125.2	520.1	614.4	677.7	716.0	733.7	738.1	741.1
67.5°	52.2	64.2	113.2	450.8	538.4	590.8	619.1	634.4	635.3	641.5
70°	48.6	61.9	106.1	403.7	481.8	531.9	555.4	567.2	565.8	567.2
72.5°	46.3	58.3	101.4	355.4	427.6	467.0	488.3	496.5	497.4	497.7
75°	41.3	51.6	94.3	281.4	338.9	372.8	389.0	387.5	391.9	393.4
77.5°	35.7	44.5	77.5	207.4	254.0	276.4	289.4	293.5	292.0	292.3
80°	30.9	39.8	63.4	159.1	197.4	215.1	226.9	229.8	228.4	229.8
82.5°	25.0	32.7	49.2	117.9	147.9	162.1	170.3	170.9	171.8	174.4
85°	14.7	19.2	29.5	64.8	82.5	89.9	95.8	97.2	98.7	98.7
87.5°	5.9	8.3	15.3	27.1	34.2	36.5	36.5	34.2	36.5	33.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)