

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-930-1D-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-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

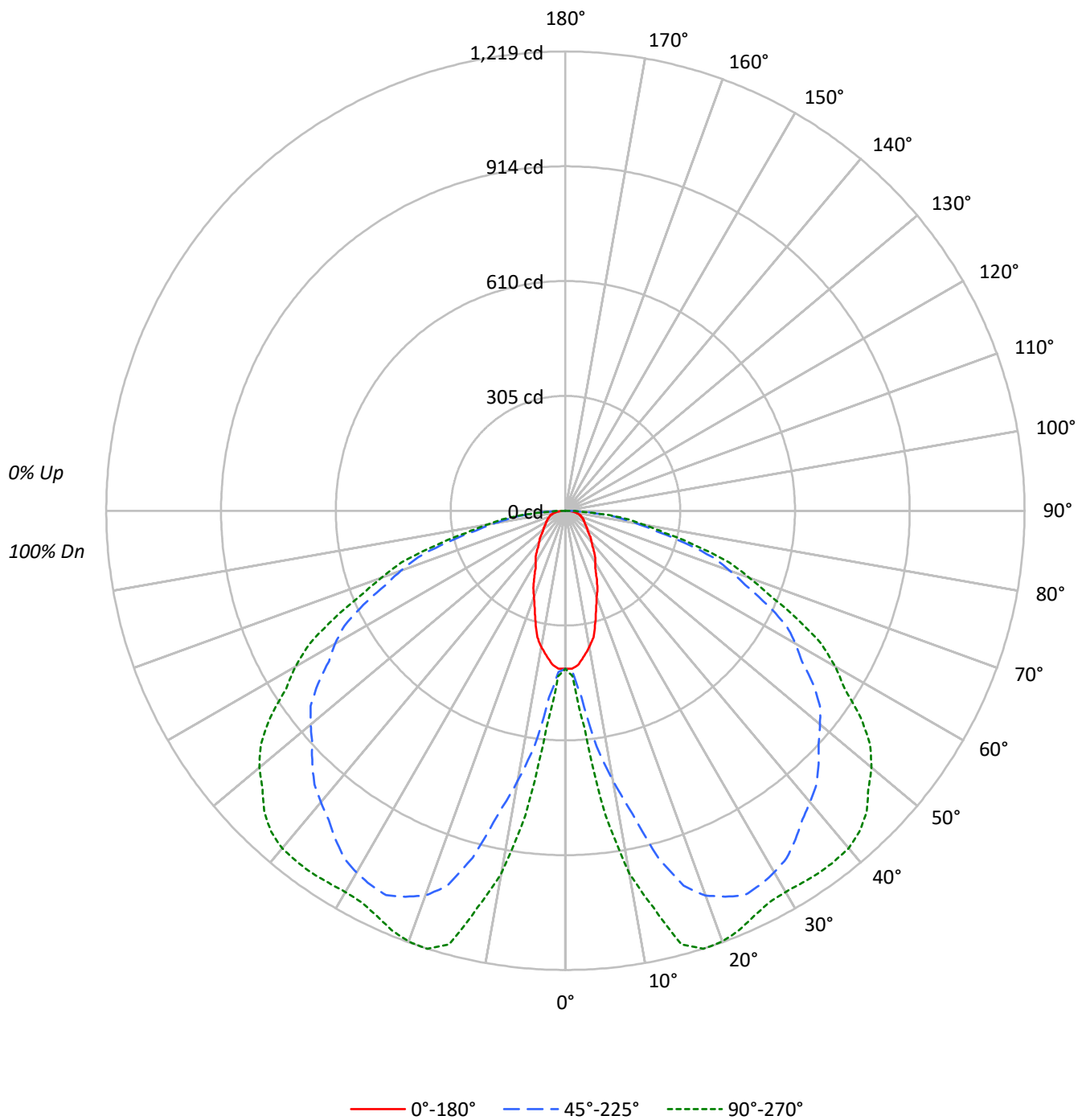
Lumens per Lamp: N/A
Luminaire Lumens: 3247.5 lumens
Efficiency: N/A
Efficacy: 74.5 lumens/watt
Spacing Criteria (0/90/45): 0.7 / 2.7 / 2.32
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

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

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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°	3871	3871	3871
5°	3786	4605	5361
10°	3438	6814	9152
15°	2926	9105	11380
20°	2385	10671	11950
25°	1991	11463	12073
30°	1682	11816	12449
35°	1489	11991	13222
40°	1300	12164	14089
45°	1180	12403	14753
50°	1085	12666	15223
55°	1042	12904	15389
60°	1070	13022	15262
65°	1120	12917	14817
70°	1200	12521	14014
75°	1347	11616	12844
80°	1504	10037	11184
85°	1429	8358	9570

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 52.5°

Luminance: 15451 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.0	1.7
10°-20°	239.7	7.4
20°-30°	420.1	12.9
30°-40°	540.9	16.7
40°-50°	604.0	18.6
50°-60°	579.2	17.8
60°-70°	460.9	14.2
70°-80°	271.5	8.4
80°-90°	76.1	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°	714.9	22.0
0°-40°	1255.8	38.7
0°-60°	2438.9	75.1
0°-90°	3247.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3247.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	420	420	420	420	420	
5°	409	438	497	561	579	38
15°	306	563	953	1153	1191	85
25°	196	638	1126	1184	1186	90
35°	132	599	1065	1129	1174	83
45°	90	470	951	1080	1131	70
55°	65	314	802	928	957	59
65°	51	205	592	668	679	51
75°	38	129	326	355	360	39
85°	14	35	79	89	90	15
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
0°	419.6	419.6	419.6	419.6	419.6	419.6	419.6	419.6	419.6	419.6
2.5°	419.6	419.6	421.8	425.0	426.1	430.4	436.9	440.1	442.3	440.1
5°	408.8	414.2	431.8	457.4	483.1	511.4	547.8	565.4	576.2	578.9
7.5°	387.5	402.4	452.3	519.2	593.7	667.6	731.6	783.4	813.6	815.0
10°	367.0	392.6	469.6	572.1	674.7	779.9	867.6	921.6	964.8	976.9
12.5°	344.3	382.9	487.9	625.0	765.3	883.5	980.9	1040.3	1074.9	1079.4
15°	306.3	363.0	514.1	708.4	882.4	1024.1	1117.2	1164.5	1186.0	1191.4
17.5°	270.9	345.2	537.0	773.7	979.9	1107.5	1178.2	1207.9	1218.7	1219.2
20°	242.9	327.9	547.8	819.0	1029.5	1144.2	1195.5	1214.4	1219.8	1217.1
22.5°	222.4	309.5	554.3	849.3	1059.7	1158.2	1196.6	1205.7	1207.9	1205.2
25°	195.6	279.3	554.6	889.2	1090.2	1161.8	1182.0	1184.7	1187.4	1186.0
27.5°	171.9	245.6	546.5	915.6	1094.6	1145.3	1154.7	1161.5	1169.8	1171.7
30°	157.9	224.0	535.7	924.3	1090.2	1128.0	1137.5	1149.6	1164.5	1168.5
32.5°	147.1	203.5	519.5	925.4	1079.4	1107.5	1120.2	1143.1	1164.5	1170.7
35°	132.2	172.7	492.5	917.5	1055.2	1074.0	1101.0	1138.8	1167.2	1173.9
37.5°	117.7	150.6	455.8	901.6	1023.3	1043.0	1087.5	1133.1	1164.7	1173.1
40°	107.9	137.6	427.7	886.5	998.5	1021.4	1076.7	1126.7	1160.4	1169.8
42.5°	100.4	126.8	397.5	867.1	970.4	1002.0	1063.8	1117.0	1148.5	1155.8
45°	90.4	110.6	349.5	831.2	927.0	974.2	1041.7	1092.9	1122.6	1130.7
47.5°	81.0	99.3	299.3	790.2	882.7	940.5	1009.6	1058.1	1085.4	1090.8
50°	75.6	91.8	265.8	761.0	851.4	913.5	983.6	1032.2	1055.2	1060.6
52.5°	71.2	85.3	234.5	727.5	819.0	885.4	952.3	996.6	1017.4	1019.5
55°	64.8	76.9	193.0	676.0	767.8	836.6	901.3	936.4	951.3	956.7
57.5°	61.3	70.7	160.3	620.1	710.0	779.1	837.9	865.2	877.1	878.9
60°	58.0	67.5	143.0	580.2	673.3	738.1	789.3	812.3	823.1	827.1
62.5°	54.8	65.3	130.1	539.2	630.1	692.7	737.5	757.2	765.9	766.7
65°	51.3	62.1	114.7	476.3	562.7	620.7	655.8	672.0	676.0	678.7
67.5°	47.8	58.8	103.6	412.9	493.0	541.1	567.0	581.0	581.8	587.5
70°	44.5	56.7	97.2	369.7	441.2	487.1	508.7	519.5	518.1	519.5
72.5°	42.4	53.4	92.8	325.5	391.6	427.7	447.2	454.7	455.5	455.8
75°	37.8	47.2	86.4	257.7	310.3	341.4	356.2	354.9	358.9	360.3
77.5°	32.7	40.7	71.0	190.0	232.6	253.1	265.0	268.8	267.4	267.7
80°	28.3	36.4	58.0	145.7	180.8	197.0	207.8	210.5	209.1	210.5
82.5°	22.9	30.0	45.1	107.9	135.5	148.4	156.0	156.5	157.3	159.8
85°	13.5	17.5	27.0	59.4	75.6	82.3	87.7	89.1	90.4	90.4
87.5°	5.4	7.6	14.0	24.8	31.3	33.5	33.5	31.3	33.5	30.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)