

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-WB-125U-075D-927-1D-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 (G3-1910-536-24)
Test Lab: INNOVATION CENTER
Issue Date: 8/1/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-WB-125U-075D-927-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

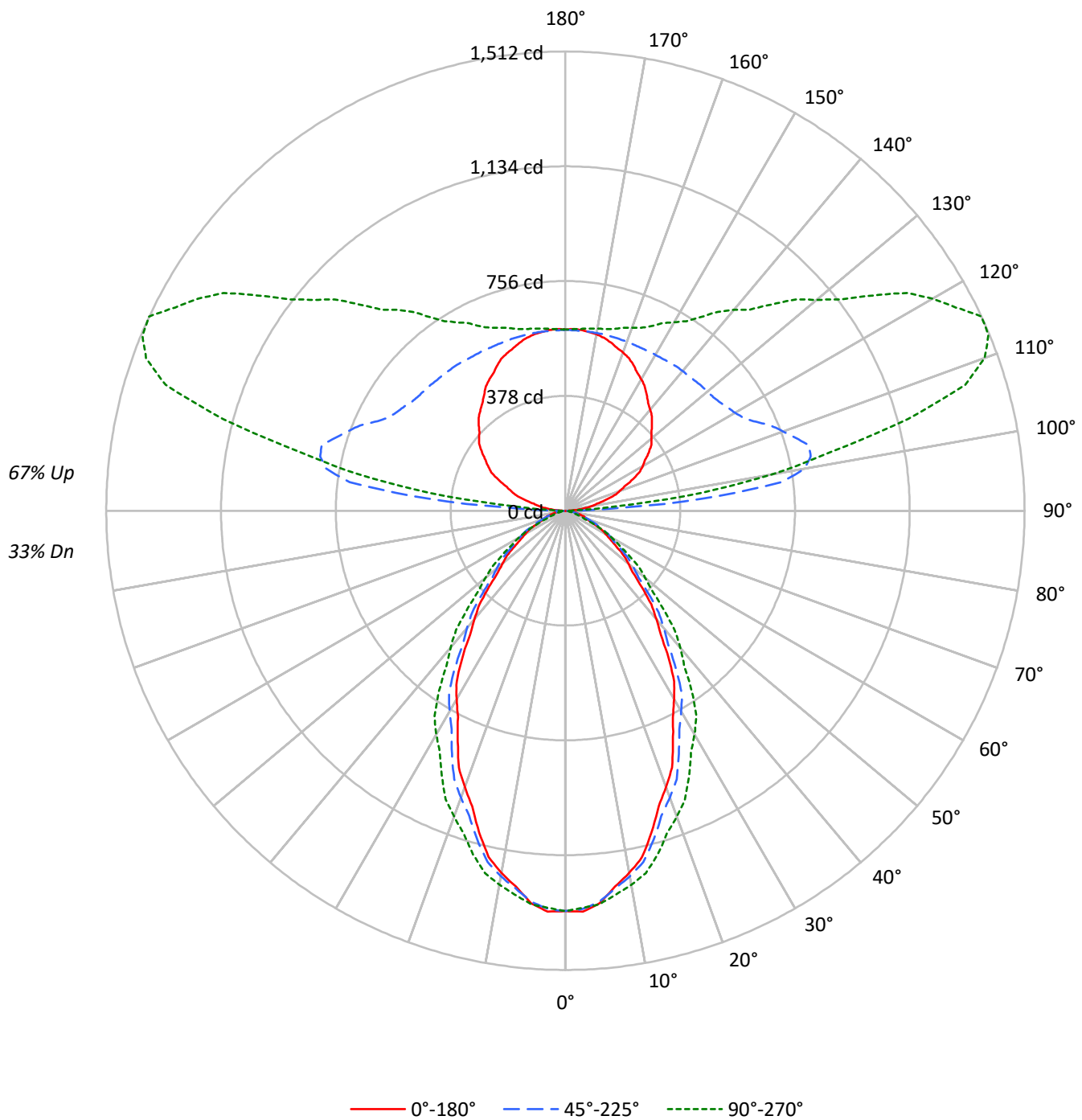
Lumens per Lamp: N/A
Luminaire Lumens: 5771.6 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 55.7
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	30	10
RCR																					
0	103	103	103	103		93	93	93	93		74	74	74		57	57	57		41	41	41
1	95	91	87	84		85	82	79	77		66	64	62		51	50	49		37	36	36
2	87	80	75	70		78	73	68	64		59	55	53		46	44	42		34	32	31
3	80	71	65	59		72	65	59	54		52	48	45		41	38	36		31	29	28
4	73	63	56	51		66	58	52	47		47	43	39		37	34	32		28	26	25
5	68	57	49	44		61	52	45	41		42	38	34		34	31	28		26	24	22
6	62	51	44	38		56	47	40	36		39	34	30		31	27	25		23	21	20
7	58	46	39	34		52	43	36	32		35	30	27		28	25	22		22	20	18
8	54	42	35	30		49	39	33	28		32	27	24		26	23	20		20	18	16
9	50	39	32	27		45	36	29	25		30	25	22		24	21	18		19	16	15
10	47	36	29	24		43	33	27	23		27	23	20		22	19	17		17	15	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12161	12161	12161
5°	12009	11967	12036
10°	11346	11449	11714
15°	10474	10717	11198
20°	9512	9869	10522
25°	8532	8997	9803
30°	7628	8128	9058
35°	6671	7153	8176
40°	5615	6061	7077
45°	4633	5034	5909
50°	3868	4217	4923
55°	3285	3619	4065
60°	2807	3137	3244
65°	2235	2639	2096
70°	1983	2058	1279
75°	1836	1668	784
80°	1690	1536	675
85°	1535	1408	550

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5909 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.9	2.1
10°-20°	314.5	5.4
20°-30°	407.3	7.1
30°-40°	398.9	6.9
40°-50°	305.3	5.3
50°-60°	203.4	3.5
60°-70°	111.0	1.9
70°-80°	46.3	0.8
80°-90°	14.5	0.3
90°-100°	278.9	4.8
100°-110°	751.4	13.0
110°-120°	788.6	13.7
120°-130°	639.9	11.1
130°-140°	501.9	8.7
140°-150°	385.3	6.7
150°-160°	277.0	4.8
160°-170°	169.3	2.9
170°-180°	57.1	1.0
0°-30°	842.7	14.6
0°-40°	1241.6	21.5
0°-60°	1750.4	30.3
0°-90°	1922.2	33.3
90°-120°	1819.0	31.5
90°-150°	3346.1	58.0
90°-180°	3849.0	66.7
0°-180°	5771.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1318	1318	1318	1318	1318	
5°	1297	1284	1292	1295	1300	121
15°	1097	1093	1122	1153	1172	306
25°	838	840	884	922	963	385
35°	592	595	635	678	726	368
45°	355	362	386	415	453	277
55°	204	213	225	234	253	185
65°	102	111	121	106	96	106
75°	52	52	47	32	22	55
85°	14	14	13	9	5	16
90°	2	4	9	10	10	4
95°	42	152	457	234	162	44
105°	139	216	831	1243	1167	146
115°	245	300	692	1337	1512	241
125°	335	385	621	1050	1236	299
135°	403	450	604	847	959	311
145°	466	503	596	724	778	293
155°	530	549	591	650	671	244
165°	574	581	593	617	620	162
175°	597	596	594	602	601	57
180°	596	596	596	596	596	

TEST NUMBER:

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1318.1	1318.1	1318.1	1318.1	1318.1
2.5°	1321.3	1309.6	1312.6	1312.5	1308.9
5°	1296.7	1283.7	1292.1	1295.1	1299.6
7.5°	1248.6	1238.7	1254.0	1265.3	1274.5
10°	1211.1	1202.6	1222.1	1238.6	1250.4
12.5°	1167.6	1160.5	1184.6	1206.7	1222.2
15°	1096.6	1092.6	1122.0	1152.6	1172.4
17.5°	1020.6	1018.7	1052.4	1088.0	1113.4
20°	968.8	968.2	1005.2	1042.3	1071.7
22.5°	916.5	917.7	956.6	995.2	1028.7
25°	838.1	840.3	883.8	922.3	963.0
27.5°	765.5	766.6	811.5	852.1	895.6
30°	716.0	718.9	762.9	805.0	850.2
32.5°	666.5	669.8	712.9	756.4	802.5
35°	592.3	595.1	635.1	677.8	725.9
37.5°	515.7	519.5	555.0	595.4	642.7
40°	466.2	471.8	503.2	541.3	587.6
42.5°	418.5	425.5	454.6	490.7	532.6
45°	355.1	361.9	385.8	415.0	452.9
47.5°	300.5	308.3	326.7	351.8	384.2
50°	269.5	276.9	293.8	312.4	343.0
52.5°	242.2	249.6	264.7	279.0	305.0
55°	204.2	212.6	225.0	233.5	252.7
57.5°	172.9	181.1	190.9	194.7	206.4
60°	152.1	161.2	170.0	169.6	175.8
62.5°	133.1	140.8	149.7	143.6	143.9
65°	102.4	110.9	120.9	105.6	96.0
67.5°	82.7	84.5	94.9	73.7	62.2
70°	73.5	73.5	76.3	57.0	47.4
72.5°	64.7	64.7	62.0	46.4	36.3
75°	51.5	51.5	46.8	32.2	22.0
77.5°	39.7	39.2	35.9	24.0	16.0
80°	31.8	31.8	28.9	18.9	12.7
82.5°	24.9	24.9	22.4	14.8	9.5
85°	14.5	14.5	13.3	8.6	5.2
87.5°	5.4	6.0	6.5	4.7	4.3
90°	1.5	4.5	9.1	9.9	9.9
92.5°	18.5	65.5	129.4	62.3	43.3
95°	42.5	151.7	457.3	233.8	161.8
97.5°	67.9	173.7	717.2	599.2	451.8
100°	87.4	182.4	799.9	836.9	694.3
102.5°	106.2	194.7	827.2	1014.9	897.9
105°	139.0	216.3	831.0	1243.3	1166.8
107.5°	170.0	238.9	795.6	1360.6	1380.4
110°	190.7	256.0	763.4	1397.1	1469.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	212.5	273.1	732.4	1389.0	1507.4
115°	245.4	300.3	692.0	1337.1	1512.4
117.5°	275.3	326.8	660.7	1254.3	1449.5
120°	294.7	344.5	644.9	1194.9	1395.4
122.5°	311.7	360.9	633.4	1134.1	1334.0
125°	335.0	384.8	621.4	1050.2	1235.9
127.5°	357.3	406.3	613.8	976.2	1142.0
130°	370.7	419.7	610.7	933.8	1079.4
132.5°	384.1	432.5	607.7	896.5	1030.2
135°	403.4	450.2	603.9	847.2	959.4
137.5°	421.7	466.6	601.9	805.5	897.6
140°	434.5	477.6	600.1	779.7	862.9
142.5°	447.9	488.0	598.9	755.7	825.9
145°	466.4	502.8	596.3	724.4	777.8
147.5°	486.5	518.1	593.7	698.0	740.0
150°	499.8	527.3	592.5	681.4	716.3
152.5°	512.0	535.9	591.9	667.9	696.3
155°	529.5	548.8	591.0	649.9	670.7
157.5°	544.8	559.8	591.1	637.3	651.3
160°	554.5	567.1	591.7	630.0	640.4
162.5°	563.0	573.3	592.4	623.8	631.2
165°	574.3	581.0	593.3	616.9	619.8
167.5°	583.4	587.2	594.0	611.5	612.7
170°	589.5	590.9	594.0	608.5	608.5
172.5°	593.1	593.4	594.6	605.4	605.4
175°	597.1	596.3	594.0	602.3	600.9
177.5°	598.7	597.5	594.5	599.3	598.1
180°	596.3	596.3	596.3	596.3	596.3

(END OF REPORT)