

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-PP3-150U-050D-927-1D-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 (G3-1910-536-25)
Test Lab: INNOVATION CENTER
Issue Date: 8/1/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-PP3-150U-050D-927-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

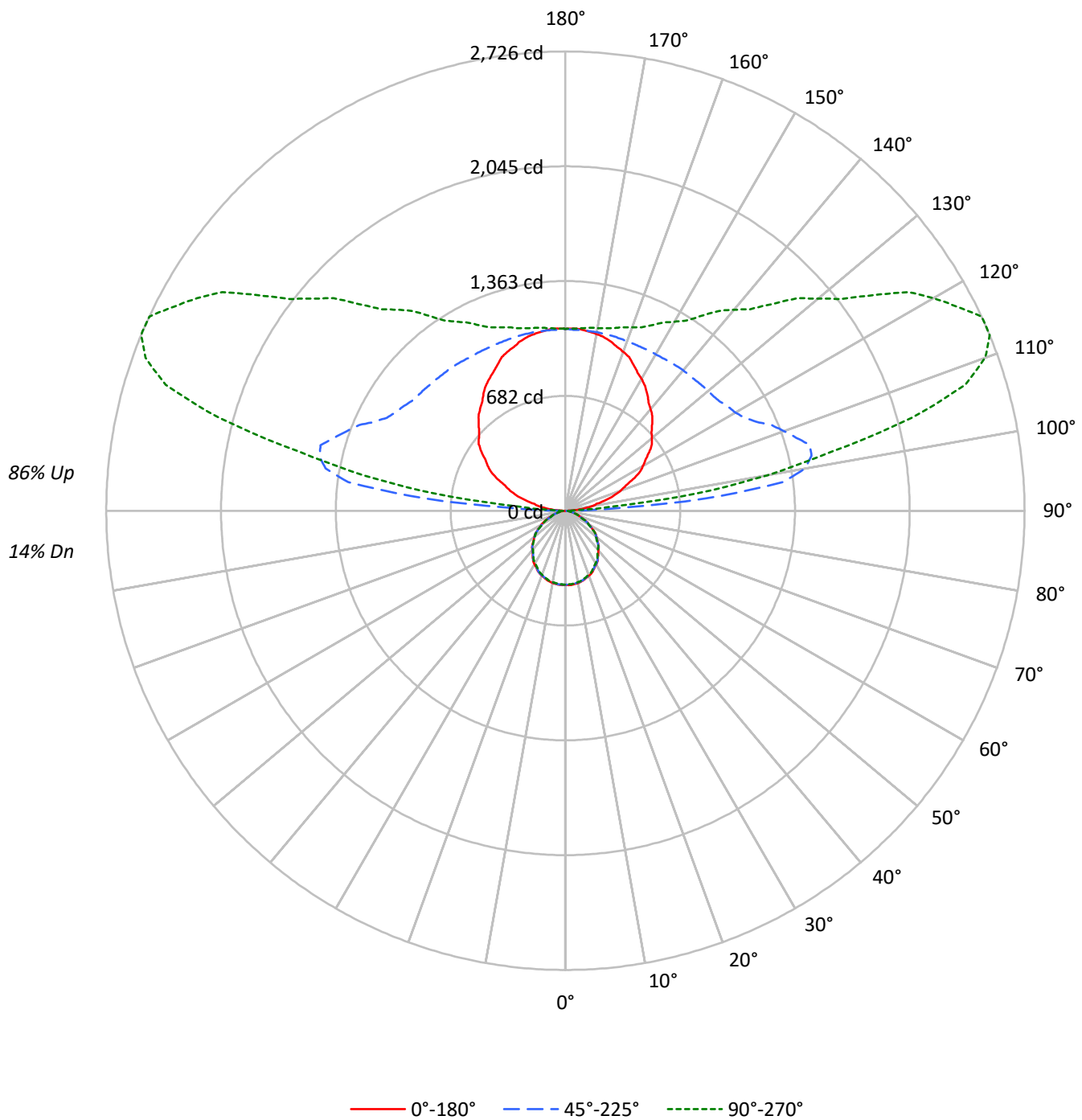
Lumens per Lamp: N/A
Luminaire Lumens: 8085.7 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 84.1
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				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	99	99	99	99	86	86	86	86	63	63	63	42	42	42	23	23	23
1	90	86	82	79	78	75	72	69	55	53	52	37	36	35	20	20	19
2	82	75	69	64	71	66	61	57	48	45	43	33	31	29	18	17	16
3	74	66	59	53	65	58	52	47	43	39	36	29	27	25	16	15	14
4	68	58	51	45	59	51	45	40	38	34	30	26	23	21	14	13	12
5	62	51	44	38	54	45	39	34	34	29	26	23	20	18	13	11	10
6	57	46	38	33	50	40	34	29	30	26	22	21	18	16	12	10	9
7	53	41	34	29	46	36	30	26	27	23	20	19	16	14	10	9	8
8	49	37	30	25	42	33	27	22	25	20	17	17	14	12	10	8	7
9	45	34	27	22	39	30	24	20	22	18	15	15	13	11	9	7	6
10	42	31	24	19	37	27	21	17	20	16	13	14	11	10	8	7	6

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2706	2706	2706
5°	2725	2709	2699
10°	2721	2701	2689
15°	2702	2688	2673
20°	2685	2670	2650
25°	2653	2635	2608
30°	2604	2590	2558
35°	2536	2518	2486
40°	2455	2439	2411
45°	2388	2371	2348
50°	2302	2287	2265
55°	2182	2153	2137
60°	1987	1930	1920
65°	1751	1678	1672
70°	1511	1449	1449
75°	1300	1283	1264
80°	1148	1162	1133
85°	896	981	981

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2388 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.6	0.5
10°-20°	118.8	1.5
20°-30°	177.9	2.2
30°-40°	208.7	2.6
40°-50°	209.3	2.6
50°-60°	178.5	2.2
60°-70°	116.5	1.4
70°-80°	58.4	0.7
80°-90°	18.4	0.2
90°-100°	501.5	6.2
100°-110°	1356.0	16.8
110°-120°	1425.6	17.6
120°-130°	1158.0	14.3
130°-140°	908.4	11.2
140°-150°	697.2	8.6
150°-160°	501.4	6.2
160°-170°	306.3	3.8
170°-180°	103.3	1.3
0°-30°	338.2	4.2
0°-40°	546.9	6.8
0°-60°	934.8	11.6
0°-90°	1128.1	14.0
90°-120°	3283.2	40.6
90°-150°	6046.7	74.8
90°-180°	6958.0	86.1
0°-180°	8085.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	440	440	440	440	440	
5°	441	437	439	437	437	42
15°	424	420	422	421	420	120
25°	391	386	388	385	384	180
35°	338	334	335	332	331	211
45°	274	273	273	270	270	211
55°	204	203	201	200	199	181
65°	120	118	115	114	115	120
75°	55	55	54	54	53	59
85°	13	14	14	14	14	15
90°	2	7	15	16	15	6
95°	78	273	834	432	257	81
105°	252	390	1504	2219	2128	265
115°	444	543	1248	2415	2726	438
125°	608	696	1124	1898	2229	542
135°	728	815	1094	1532	1734	563
145°	847	910	1079	1311	1411	530
155°	956	994	1070	1176	1215	441
165°	1041	1051	1074	1116	1122	293
175°	1080	1079	1076	1090	1087	103
180°	1079	1079	1079	1079	1079	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	439.9	439.9	439.9	439.9	439.9
2.5°	442.6	439.0	439.9	439.2	437.4
5°	441.4	437.3	438.7	437.2	437.2
7.5°	438.4	433.9	435.3	433.8	433.7
10°	435.6	431.1	432.5	431.0	430.6
12.5°	431.6	427.1	428.8	427.0	426.9
15°	424.4	420.3	422.1	420.6	419.8
17.5°	416.3	411.8	414.0	411.9	411.6
20°	410.2	405.7	407.9	404.8	404.8
22.5°	402.8	398.2	400.8	396.8	396.8
25°	390.9	386.4	388.2	384.7	384.3
27.5°	376.8	372.3	374.2	370.3	370.2
30°	366.6	362.5	364.7	360.4	360.1
32.5°	355.5	351.7	353.3	349.0	348.6
35°	337.7	334.3	335.4	331.5	331.1
37.5°	319.0	315.5	316.7	313.4	313.3
40°	305.7	303.4	303.8	301.1	300.3
42.5°	293.4	290.8	291.1	288.4	288.3
45°	274.5	272.6	272.6	269.9	269.9
47.5°	254.4	253.0	252.6	250.3	250.3
50°	240.6	239.4	239.0	237.1	236.7
52.5°	226.1	225.5	224.2	222.6	222.5
55°	203.5	202.8	200.8	199.7	199.3
57.5°	179.1	177.6	175.4	173.7	174.0
60°	161.5	160.0	156.9	156.1	156.1
62.5°	144.6	142.8	139.6	138.6	139.2
65°	120.3	118.0	115.3	114.5	114.9
67.5°	98.2	96.2	93.2	93.2	92.9
70°	84.0	82.9	80.6	80.6	80.6
72.5°	71.4	70.9	69.2	69.2	68.9
75°	54.7	54.7	54.0	53.6	53.2
77.5°	41.0	41.2	40.8	40.4	39.7
80°	32.4	33.1	32.8	32.4	32.0
82.5°	24.4	25.1	25.1	24.4	24.3
85°	12.7	13.9	13.9	13.9	13.9
87.5°	3.9	6.0	8.0	8.2	8.3
90°	2.3	6.9	15.1	16.2	15.1
92.5°	33.0	120.2	237.2	103.0	74.6
95°	77.8	273.2	834.0	431.6	256.7
97.5°	125.0	313.3	1300.1	1075.9	790.1
100°	160.3	329.5	1445.1	1507.0	1218.5
102.5°	192.8	352.1	1496.2	1833.9	1618.1
105°	252.1	389.5	1504.3	2219.0	2128.1
107.5°	306.9	432.3	1438.6	2459.1	2489.4
110°	349.6	463.2	1380.0	2523.6	2652.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	387.7	494.1	1326.1	2510.7	2726.3
115°	443.7	542.6	1247.6	2415.1	2726.3
117.5°	498.6	591.2	1195.8	2269.0	2621.8
120°	532.0	622.9	1165.1	2164.2	2524.2
122.5°	563.6	652.7	1146.5	2051.8	2414.5
125°	607.5	696.1	1124.4	1897.5	2229.1
127.5°	648.0	735.0	1111.4	1771.6	2063.3
130°	670.3	760.0	1105.9	1693.8	1957.3
132.5°	693.5	782.3	1100.3	1623.7	1866.3
135°	728.3	814.7	1094.2	1532.1	1734.3
137.5°	763.4	845.0	1089.1	1457.9	1622.6
140°	787.6	863.7	1087.3	1410.1	1556.6
142.5°	810.8	882.4	1083.6	1366.9	1495.2
145°	846.8	910.4	1079.1	1311.4	1411.4
147.5°	879.6	935.9	1074.0	1261.2	1338.0
150°	903.7	953.7	1072.2	1233.9	1295.2
152.5°	926.0	969.7	1071.2	1208.5	1259.0
155°	956.0	993.5	1069.9	1176.4	1215.1
157.5°	987.1	1013.3	1070.1	1154.1	1179.5
160°	1004.8	1026.4	1071.0	1140.0	1158.1
162.5°	1018.7	1036.7	1071.9	1128.7	1142.3
165°	1040.8	1051.0	1074.5	1116.4	1122.1
167.5°	1055.9	1063.0	1074.7	1105.9	1108.7
170°	1065.2	1068.6	1075.7	1101.2	1101.2
172.5°	1072.6	1073.3	1075.7	1095.6	1094.7
175°	1080.3	1079.2	1075.7	1089.5	1087.3
177.5°	1082.9	1080.1	1075.4	1084.7	1081.9
180°	1079.1	1079.1	1079.1	1079.1	1079.1

(END OF REPORT)