

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-075D-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-075D-927-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

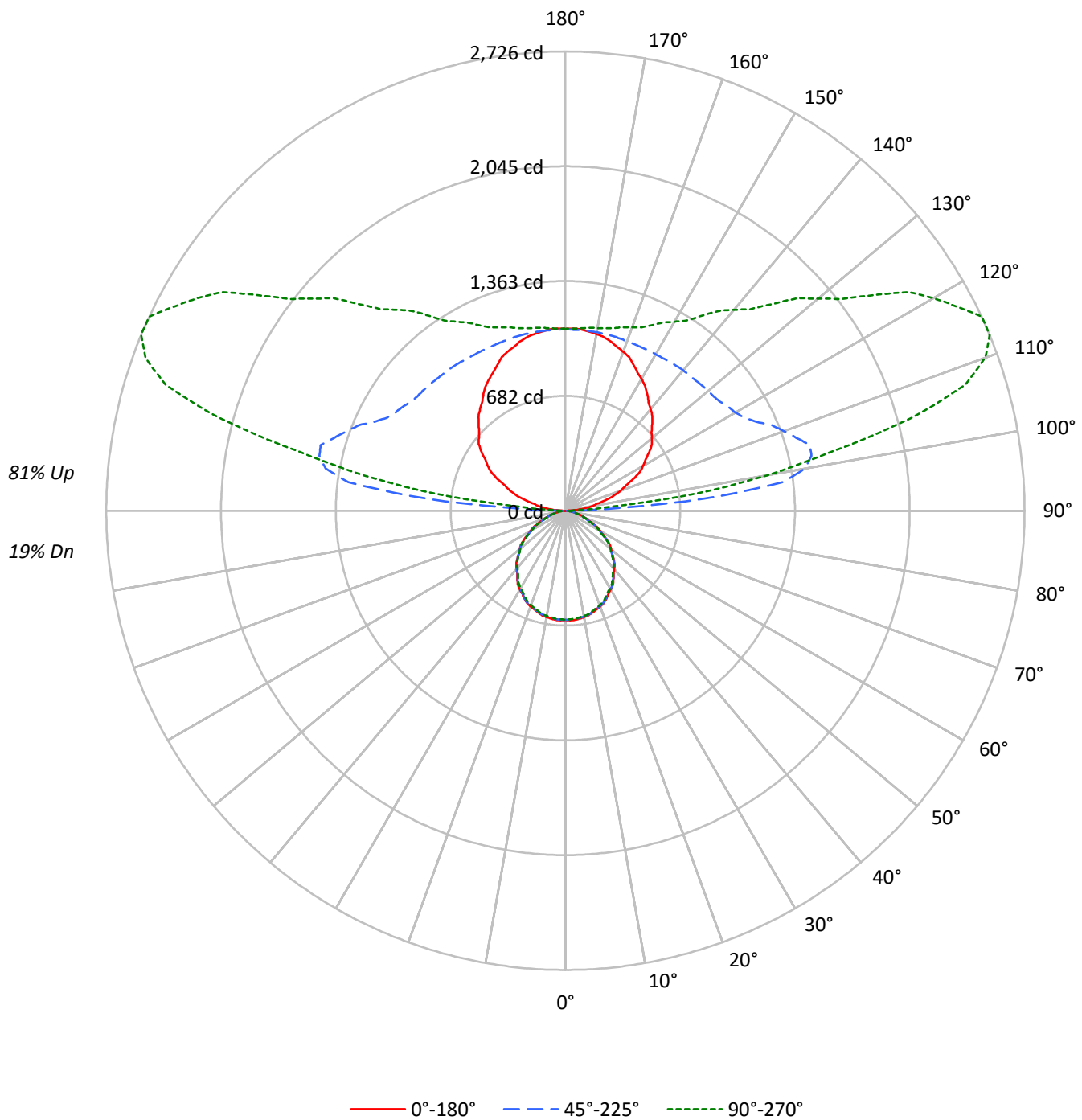
Lumens per Lamp: N/A
Luminaire Lumens: 8619.2 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 97.8
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	100	100	100	100	88	88	88	88	66	66	66	46	46	46	28	28	28
1	91	87	83	80	80	77	74	71	58	56	54	41	40	38	25	24	24
2	83	76	70	65	73	67	62	58	51	48	45	36	34	32	22	21	20
3	76	67	60	54	66	59	53	49	45	41	38	32	29	27	19	18	17
4	69	59	51	46	61	52	46	41	40	35	32	28	25	23	17	16	15
5	63	52	45	39	56	46	40	35	35	31	27	25	22	20	16	14	13
6	58	47	39	34	51	41	35	30	32	27	24	23	20	17	14	12	11
7	54	42	34	29	47	37	31	26	29	24	21	20	17	15	13	11	10
8	49	38	31	26	44	34	27	23	26	21	18	19	16	14	12	10	9
9	46	34	27	22	40	31	25	20	24	19	16	17	14	12	11	9	8
10	43	31	24	20	38	28	22	18	22	17	14	16	13	11	10	8	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3988	3988	3988
5°	4017	3992	3978
10°	4010	3982	3964
15°	3984	3962	3940
20°	3957	3935	3905
25°	3910	3883	3845
30°	3837	3818	3769
35°	3737	3712	3665
40°	3618	3595	3554
45°	3519	3494	3459
50°	3392	3371	3339
55°	3217	3174	3151
60°	2929	2845	2831
65°	2580	2473	2464
70°	2228	2136	2136
75°	1918	1889	1863
80°	1690	1711	1672
85°	1327	1447	1447

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3519 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.3	0.7
10°-20°	175.0	2.0
20°-30°	262.2	3.0
30°-40°	307.5	3.6
40°-50°	308.5	3.6
50°-60°	263.2	3.1
60°-70°	171.6	2.0
70°-80°	86.1	1.0
80°-90°	26.1	0.3
90°-100°	501.5	5.8
100°-110°	1356.0	15.7
110°-120°	1425.6	16.5
120°-130°	1158.0	13.4
130°-140°	908.4	10.5
140°-150°	697.2	8.1
150°-160°	501.4	5.8
160°-170°	306.3	3.6
170°-180°	103.3	1.2
0°-30°	498.5	5.8
0°-40°	806.1	9.4
0°-60°	1377.7	16.0
0°-90°	1661.5	19.3
90°-120°	3283.2	38.1
90°-150°	6046.7	70.2
90°-180°	6958.0	80.7
0°-180°	8619.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	648	648	648	648	648	
5°	651	644	647	644	644	62
15°	626	620	622	620	619	176
25°	576	570	572	567	566	265
35°	498	493	494	489	488	311
45°	404	402	402	398	398	311
55°	300	299	296	294	294	267
65°	177	174	170	169	169	177
75°	81	81	80	79	78	88
85°	19	20	20	20	20	22
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	

TEST NUMBER:

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	648.3	648.3	648.3	648.3	648.3
2.5°	652.4	647.1	648.3	647.3	644.7
5°	650.6	644.5	646.6	644.3	644.3
7.5°	646.1	639.5	641.6	639.3	639.2
10°	642.0	635.4	637.5	635.2	634.7
12.5°	636.1	629.5	632.0	629.3	629.2
15°	625.6	619.5	622.2	619.9	618.8
17.5°	613.6	607.0	610.2	607.0	606.6
20°	604.5	597.9	601.1	596.6	596.6
22.5°	593.6	587.0	590.7	584.8	584.8
25°	576.1	569.5	572.2	567.0	566.5
27.5°	555.3	548.8	551.6	545.8	545.7
30°	540.3	534.2	537.5	531.2	530.7
32.5°	524.0	518.3	520.7	514.4	513.9
35°	497.7	492.7	494.3	488.6	488.1
37.5°	470.1	465.0	466.8	461.9	461.7
40°	450.6	447.2	447.7	443.7	442.6
42.5°	432.4	428.6	429.1	425.1	424.9
45°	404.5	401.8	401.7	397.7	397.7
47.5°	375.0	372.9	372.3	369.0	368.9
50°	354.5	352.9	352.3	349.4	348.9
52.5°	333.2	332.4	330.5	328.1	328.0
55°	300.0	298.9	296.0	294.3	293.8
57.5°	264.0	261.8	258.5	256.0	256.5
60°	238.1	235.8	231.3	230.1	230.1
62.5°	213.1	210.4	205.8	204.2	205.1
65°	177.3	173.9	169.9	168.8	169.3
67.5°	144.8	141.8	137.4	137.4	136.9
70°	123.9	122.2	118.8	118.8	118.8
72.5°	105.2	104.5	101.9	101.9	101.5
75°	80.7	80.7	79.5	79.0	78.4
77.5°	60.5	60.7	60.1	59.5	58.5
80°	47.7	48.8	48.3	47.7	47.2
82.5°	35.9	37.0	36.9	35.9	35.8
85°	18.8	20.4	20.5	20.5	20.5
87.5°	5.5	8.2	10.3	10.5	10.7
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)