

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-PC3-150U-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-PC3-150U-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

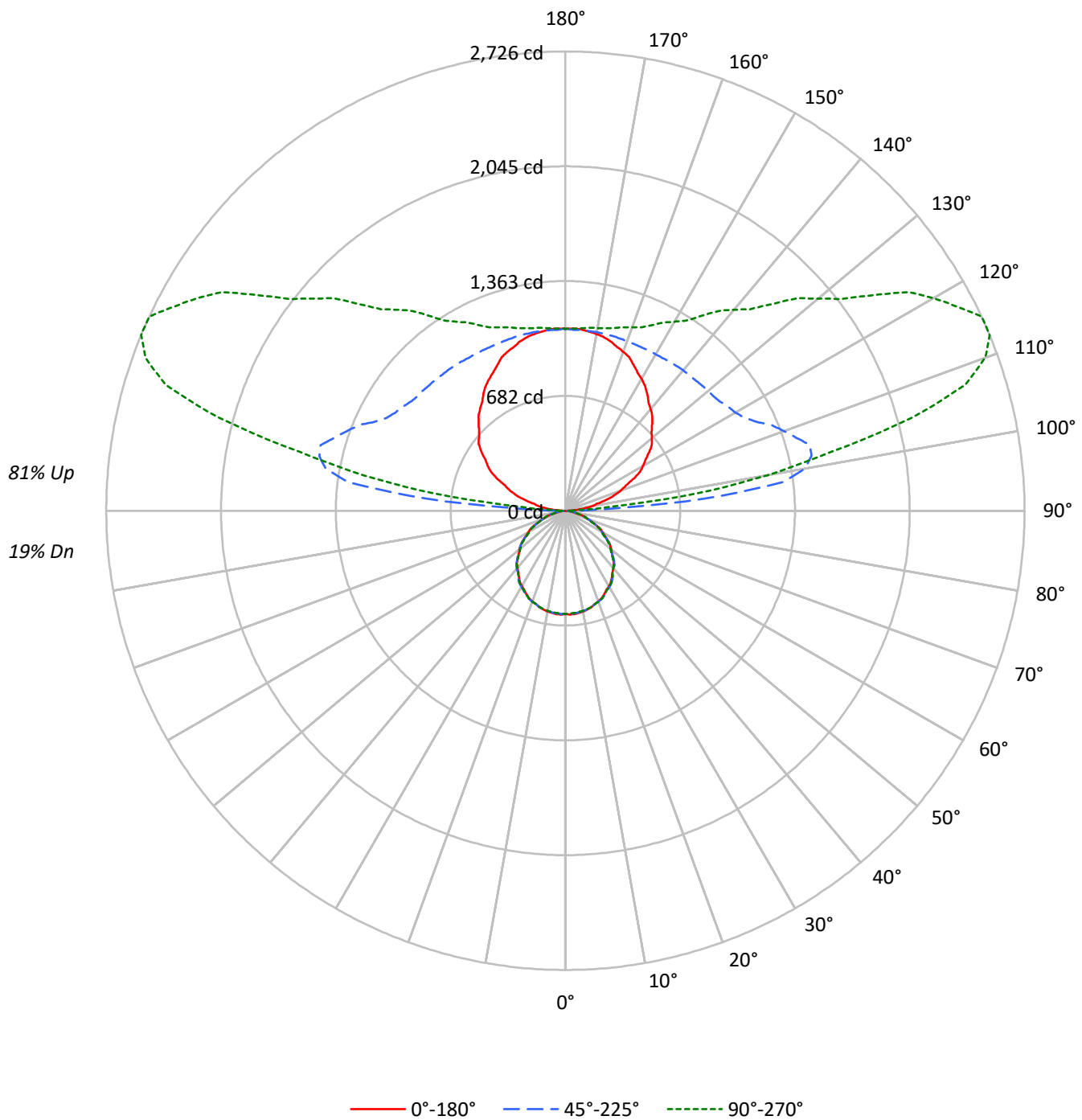
Lumens per Lamp: N/A
Luminaire Lumens: 8634.6 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

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	75	66	60	54	66	59	53	48	45	41	38	31	29	27	19	18	17
4	69	59	51	45	61	52	46	41	40	35	32	28	25	23	17	16	14
5	63	52	44	39	55	46	40	35	35	31	27	25	22	20	15	14	13
6	58	46	39	33	51	41	35	30	32	27	24	22	19	17	14	12	11
7	53	42	34	29	47	37	31	26	28	24	21	20	17	15	13	11	10
8	49	38	30	25	43	34	27	23	26	21	18	18	15	13	12	10	9
9	46	34	27	22	40	31	24	20	23	19	16	17	14	12	11	9	8
10	43	31	24	20	38	28	22	18	21	17	14	15	13	11	10	8	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3774	3774	3774
5°	3803	3778	3764
10°	3794	3776	3766
15°	3774	3774	3770
20°	3749	3760	3760
25°	3714	3740	3729
30°	3668	3712	3697
35°	3614	3669	3643
40°	3554	3604	3567
45°	3489	3514	3459
50°	3398	3398	3343
55°	3290	3247	3199
60°	3132	3068	3020
65°	2895	2837	2812
70°	2534	2554	2545
75°	2039	2255	2270
80°	1449	1913	1930
85°	882	1602	1602

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 3514 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.1	0.7
10°-20°	166.7	1.9
20°-30°	252.4	2.9
30°-40°	302.6	3.5
40°-50°	308.5	3.6
50°-60°	269.3	3.1
60°-70°	192.8	2.2
70°-80°	99.3	1.2
80°-90°	27.4	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	3.5
170°-180°	103.3	1.2
0°-30°	477.1	5.5
0°-40°	779.7	9.0
0°-60°	1357.5	15.7
0°-90°	1677.0	19.4
90°-120°	3283.2	38.0
90°-150°	6046.7	70.0
90°-180°	6958.0	80.6
0°-180°	8634.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	614	614	614	614	614	
5°	616	610	612	610	610	58
15°	593	588	593	593	592	167
25°	547	543	551	549	549	252
35°	481	480	489	485	485	301
45°	401	400	404	399	398	309
55°	307	303	303	298	298	274
65°	199	194	195	193	193	197
75°	86	90	95	96	96	93
85°	12	19	23	23	23	17
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°	613.6	613.6	613.6	613.6	613.6
2.5°	617.3	612.0	613.6	612.2	610.0
5°	615.9	609.8	611.9	610.2	609.7
7.5°	611.5	605.4	608.2	607.0	606.5
10°	607.4	601.3	604.6	603.4	602.9
12.5°	601.9	596.3	600.0	598.9	598.8
15°	592.6	587.6	592.6	592.6	592.1
17.5°	580.9	576.4	581.7	582.0	581.7
20°	572.7	567.7	574.4	573.9	574.4
22.5°	562.7	558.6	565.8	564.3	564.9
25°	547.2	543.3	551.1	549.4	549.4
27.5°	528.8	526.0	534.6	532.7	532.7
30°	516.5	513.7	522.7	520.5	520.5
32.5°	502.9	501.0	509.6	506.8	506.8
35°	481.3	480.1	488.6	485.2	485.2
37.5°	459.0	458.0	465.7	461.6	460.2
40°	442.6	442.1	448.9	444.3	444.3
42.5°	426.3	425.7	431.6	426.1	426.1
45°	401.1	400.0	404.0	398.8	397.7
47.5°	373.8	372.6	375.1	369.5	369.0
50°	355.1	354.0	355.1	350.0	349.4
52.5°	336.0	334.0	334.2	329.1	329.0
55°	306.8	302.9	302.8	298.3	298.3
57.5°	275.9	270.8	271.3	267.4	266.8
60°	254.6	249.0	249.4	246.0	245.5
62.5°	233.6	227.2	228.5	224.7	224.5
65°	198.9	194.4	194.9	193.2	193.2
67.5°	165.5	161.3	164.3	163.0	162.8
70°	140.9	138.1	142.0	142.0	141.5
72.5°	118.2	118.1	123.0	123.0	123.3
75°	85.8	89.7	94.9	95.5	95.5
77.5°	57.3	64.2	69.9	70.1	70.0
80°	40.9	48.7	54.0	55.1	54.5
82.5°	27.7	36.0	40.3	41.5	40.9
85°	12.5	19.2	22.7	23.3	22.7
87.5°	4.1	9.0	12.1	12.3	11.2
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)