

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-125D-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-125D-927-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

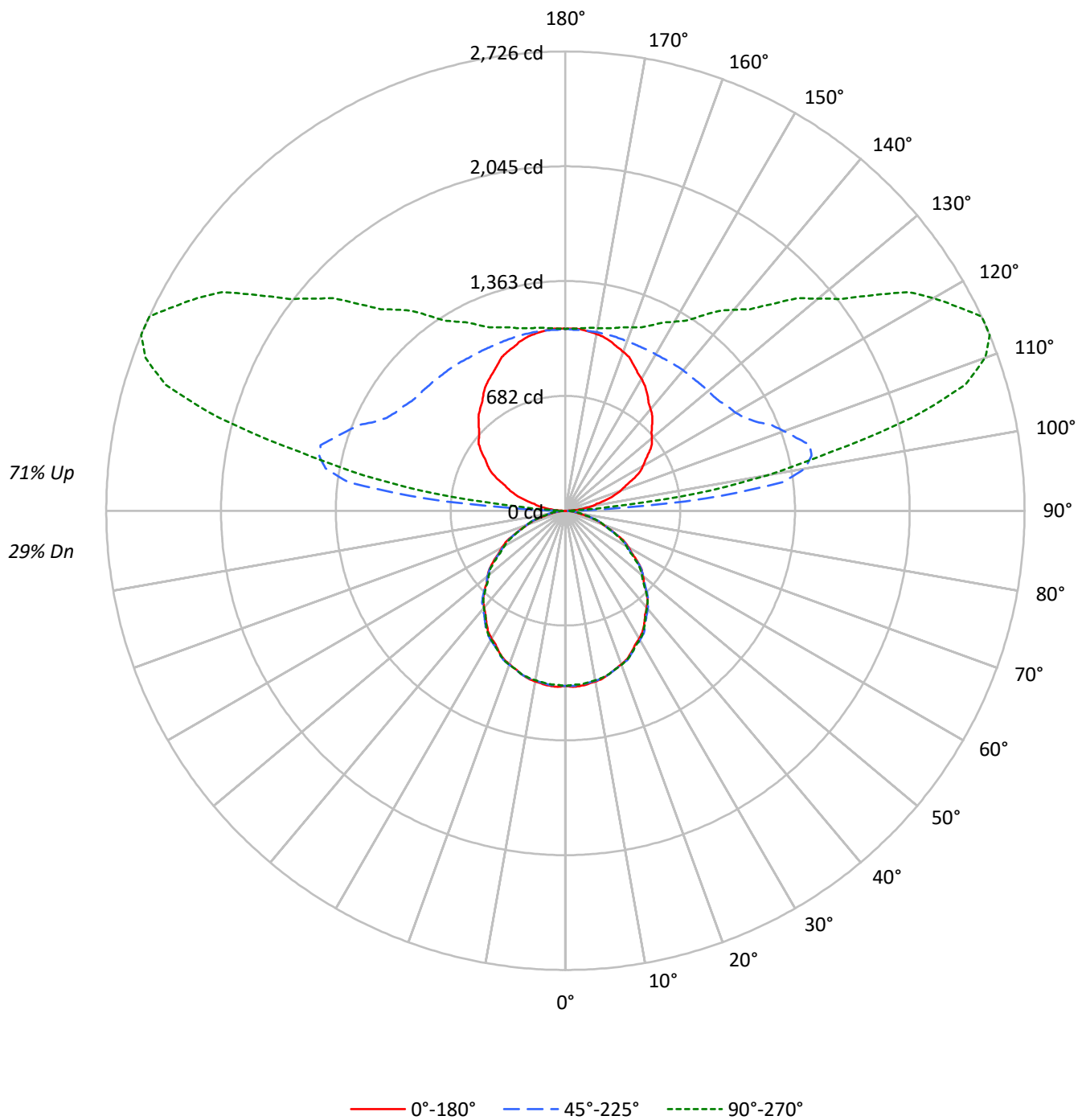
Lumens per Lamp: N/A
Luminaire Lumens: 9799.7 lumens
Efficiency: N/A
Efficacy: 77.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 127.1
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				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	102	102	102	102	92	92	92	92	72	72	72	54	54	54	37	37	37
1	93	89	85	82	83	80	77	74	63	61	59	47	46	44	33	32	31
2	85	78	72	67	76	70	65	61	55	52	49	41	39	37	29	27	26
3	77	68	61	55	69	61	55	50	48	44	41	36	34	31	25	24	22
4	71	60	53	47	63	54	48	43	43	38	35	32	29	27	23	21	19
5	65	53	46	40	58	48	41	36	38	33	30	29	26	23	20	18	17
6	59	48	40	34	53	43	36	31	34	29	26	26	23	20	18	16	15
7	55	43	35	30	49	39	32	27	31	26	22	24	20	18	17	15	13
8	51	39	31	26	45	35	29	24	28	23	20	22	18	16	15	13	11
9	47	35	28	23	42	32	26	21	26	21	18	20	16	14	14	12	10
10	44	32	25	21	39	29	23	19	24	19	16	18	15	13	13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6400	6400	6400
5°	6448	6406	6383
10°	6432	6402	6384
15°	6399	6399	6393
20°	6356	6375	6375
25°	6297	6342	6322
30°	6220	6296	6268
35°	6127	6222	6178
40°	6026	6111	6049
45°	5917	5959	5866
50°	5761	5761	5670
55°	5579	5507	5424
60°	5309	5202	5120
65°	4908	4810	4768
70°	4296	4332	4314
75°	3458	3824	3848
80°	2458	3241	3276
85°	1496	2717	2717

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 5959 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.5	1.0
10°-20°	282.6	2.9
20°-30°	427.9	4.4
30°-40°	513.0	5.2
40°-50°	523.1	5.3
50°-60°	456.7	4.7
60°-70°	326.9	3.3
70°-80°	168.4	1.7
80°-90°	44.8	0.5
90°-100°	501.5	5.1
100°-110°	1356.0	13.8
110°-120°	1425.6	14.5
120°-130°	1158.0	11.8
130°-140°	908.4	9.3
140°-150°	697.2	7.1
150°-160°	501.4	5.1
160°-170°	306.3	3.1
170°-180°	103.3	1.1
0°-30°	809.0	8.3
0°-40°	1322.1	13.5
0°-60°	2301.9	23.5
0°-90°	2842.0	29.0
90°-120°	3283.2	33.5
90°-150°	6046.7	61.7
90°-180°	6958.0	71.0
0°-180°	9799.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1040	1040	1040	1040	1040	
5°	1044	1034	1038	1035	1034	99
15°	1005	996	1005	1005	1004	283
25°	928	921	934	932	932	427
35°	816	814	829	823	823	510
45°	680	678	685	676	674	524
55°	520	514	514	506	506	464
65°	337	330	330	328	328	334
75°	146	152	161	162	162	157
85°	21	32	38	40	38	29
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°	1040.5	1040.5	1040.5	1040.5	1040.5
2.5°	1046.7	1037.6	1040.5	1038.1	1034.3
5°	1044.4	1034.0	1037.6	1034.7	1033.8
7.5°	1036.9	1026.5	1031.3	1029.3	1028.4
10°	1029.9	1019.6	1025.1	1023.1	1022.2
12.5°	1020.7	1011.1	1017.4	1015.5	1015.3
15°	1004.9	996.4	1004.9	1004.8	1003.9
17.5°	985.0	977.3	986.4	986.9	986.4
20°	971.1	962.7	974.0	973.1	974.0
22.5°	954.2	947.2	959.4	956.9	957.8
25°	927.8	921.2	934.5	931.6	931.6
27.5°	896.6	891.9	906.4	903.3	903.3
30°	875.8	871.1	886.4	882.5	882.5
32.5°	852.6	849.4	864.0	859.4	859.4
35°	816.0	814.1	828.6	822.8	822.8
37.5°	778.3	776.6	789.6	782.6	780.4
40°	750.5	749.6	761.1	753.4	753.4
42.5°	722.8	721.8	731.8	722.6	722.6
45°	680.2	678.3	685.0	676.3	674.4
47.5°	633.7	631.9	636.1	626.6	625.7
50°	602.1	600.3	602.1	593.5	592.5
52.5°	569.8	566.4	566.7	558.0	557.8
55°	520.3	513.7	513.5	505.8	505.8
57.5°	467.8	459.2	459.9	453.4	452.4
60°	431.6	422.2	422.9	417.1	416.2
62.5°	396.2	385.2	387.5	380.9	380.8
65°	337.2	329.7	330.5	327.6	327.6
67.5°	280.6	273.6	278.6	276.3	276.1
70°	238.9	234.2	240.9	240.8	239.9
72.5°	200.4	200.2	208.5	208.5	209.1
75°	145.5	152.1	160.9	161.9	161.9
77.5°	97.1	108.8	118.5	118.9	118.7
80°	69.4	82.6	91.5	93.4	92.5
82.5°	47.0	61.0	68.4	70.3	69.4
85°	21.2	32.5	38.5	39.5	38.5
87.5°	6.6	14.3	18.4	18.6	16.9
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

TEST NUMBER:

CATALOG NUMBER: SQ4-PC3-150U-125D-927-1D-UNV-STD-W-6

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)