

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-PC3-100U-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 (G3-1910-536-23)
Test Lab: INNOVATION CENTER
Issue Date: 8/1/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-PC3-100U-125D-927-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

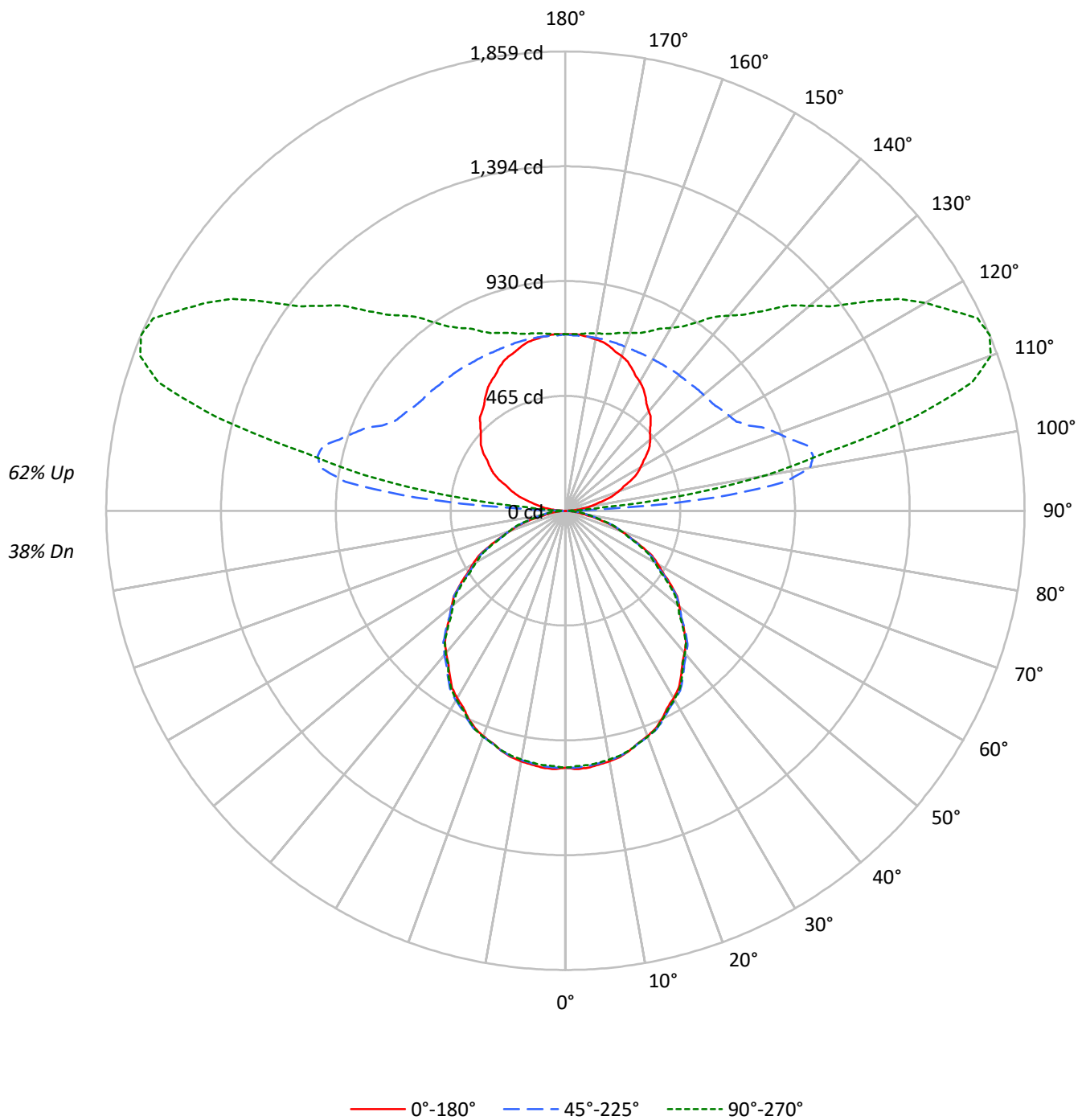
Lumens per Lamp: N/A
Luminaire Lumens: 7480.1 lumens
Efficiency: N/A
Efficacy: 69.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 107.3
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	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45
1	95	91	87	84	86	83	79	77	67	65	63	53	52	50	40	39	38
2	87	79	73	68	78	72	67	63	59	55	52	47	44	42	35	34	32
3	79	70	63	57	71	64	57	52	52	47	44	41	38	35	31	29	27
4	72	62	54	48	65	56	49	44	46	41	37	37	33	30	28	25	23
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20
6	61	49	41	35	55	45	38	33	37	32	28	30	26	23	23	20	18
7	56	44	36	31	51	40	34	29	33	28	24	27	23	20	21	18	16
8	52	40	32	27	47	37	30	25	30	25	22	24	21	18	19	16	14
9	48	36	29	24	44	33	27	22	28	23	19	22	19	16	17	15	13
10	45	33	26	21	41	31	24	20	25	21	17	21	17	14	16	13	12

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	1.3
10°-20°	282.6	3.8
20°-30°	427.9	5.7
30°-40°	513.0	6.9
40°-50°	523.1	7.0
50°-60°	456.7	6.1
60°-70°	326.9	4.4
70°-80°	168.4	2.3
80°-90°	44.1	0.6
90°-100°	334.3	4.5
100°-110°	923.0	12.3
110°-120°	951.9	12.7
120°-130°	765.0	10.2
130°-140°	601.2	8.0
140°-150°	461.1	6.2
150°-160°	331.4	4.4
160°-170°	202.6	2.7
170°-180°	68.3	0.9
0°-30°	809.0	10.8
0°-40°	1322.1	17.7
0°-60°	2301.9	30.8
0°-90°	2841.2	38.0
90°-120°	2209.3	29.5
90°-150°	4036.5	54.0
90°-180°	4639.0	62.0
0°-180°	7480.1	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	4	9	10	11	4
95°	49	181	607	249	162	53
105°	164	254	1016	1550	1460	175
115°	295	356	818	1619	1841	290
125°	404	460	741	1255	1472	360
135°	487	539	721	1016	1146	377
145°	564	603	712	865	931	353
155°	636	658	706	776	801	293
165°	689	698	709	737	742	194
175°	714	715	710	721	718	68
180°	714	714	714	714	714	

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	13.9	17.2	17.4	16.2
90°	2.3	4.5	9.1	10.3	11.4
92.5°	20.6	85.3	152.6	55.7	43.4
95°	49.1	180.9	606.6	249.3	162.2
97.5°	81.3	202.6	898.5	691.8	501.0
100°	105.1	215.7	1006.4	1013.5	823.6
102.5°	127.9	230.5	1027.4	1252.2	1072.2
105°	164.5	253.8	1015.5	1550.3	1459.9
107.5°	203.3	282.9	958.9	1694.1	1727.2
110°	230.7	302.2	915.0	1725.0	1832.3

TEST NUMBER:

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	255.4	324.2	873.9	1700.6	1858.8
115°	294.7	356.1	817.9	1619.1	1841.4
117.5°	329.0	390.2	781.1	1504.5	1757.3
120°	351.8	412.1	766.5	1426.8	1681.5
122.5°	373.8	431.4	754.6	1354.3	1595.6
125°	404.4	460.2	741.4	1254.6	1472.4
127.5°	430.4	486.3	733.6	1170.3	1358.2
130°	447.8	503.6	729.9	1118.8	1289.7
132.5°	464.2	517.4	726.3	1075.5	1230.3
135°	486.6	539.1	720.8	1016.2	1145.7
137.5°	511.8	559.6	718.1	966.4	1077.0
140°	525.5	572.4	716.2	933.2	1030.4
142.5°	541.0	584.3	714.4	903.7	989.2
145°	564.3	603.4	711.7	865.1	931.0
147.5°	586.7	620.9	709.1	832.5	883.7
150°	603.1	631.1	708.2	813.1	854.4
152.5°	615.9	642.1	707.3	796.5	830.7
155°	636.3	657.5	705.9	776.2	800.8
157.5°	655.0	671.3	706.2	761.4	778.1
160°	666.0	680.5	707.1	753.1	765.3
162.5°	675.1	687.8	708.0	745.7	755.3
165°	688.8	697.7	709.4	736.9	742.5
167.5°	699.3	704.7	710.5	731.6	733.4
170°	704.8	709.3	710.5	728.8	728.8
172.5°	709.4	712.1	710.5	725.1	724.2
175°	713.9	715.1	710.5	720.7	718.5
177.5°	715.8	714.9	710.3	716.6	714.9
180°	713.9	713.9	713.9	713.9	713.9

(END OF REPORT)