

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-100D-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-100D-927-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

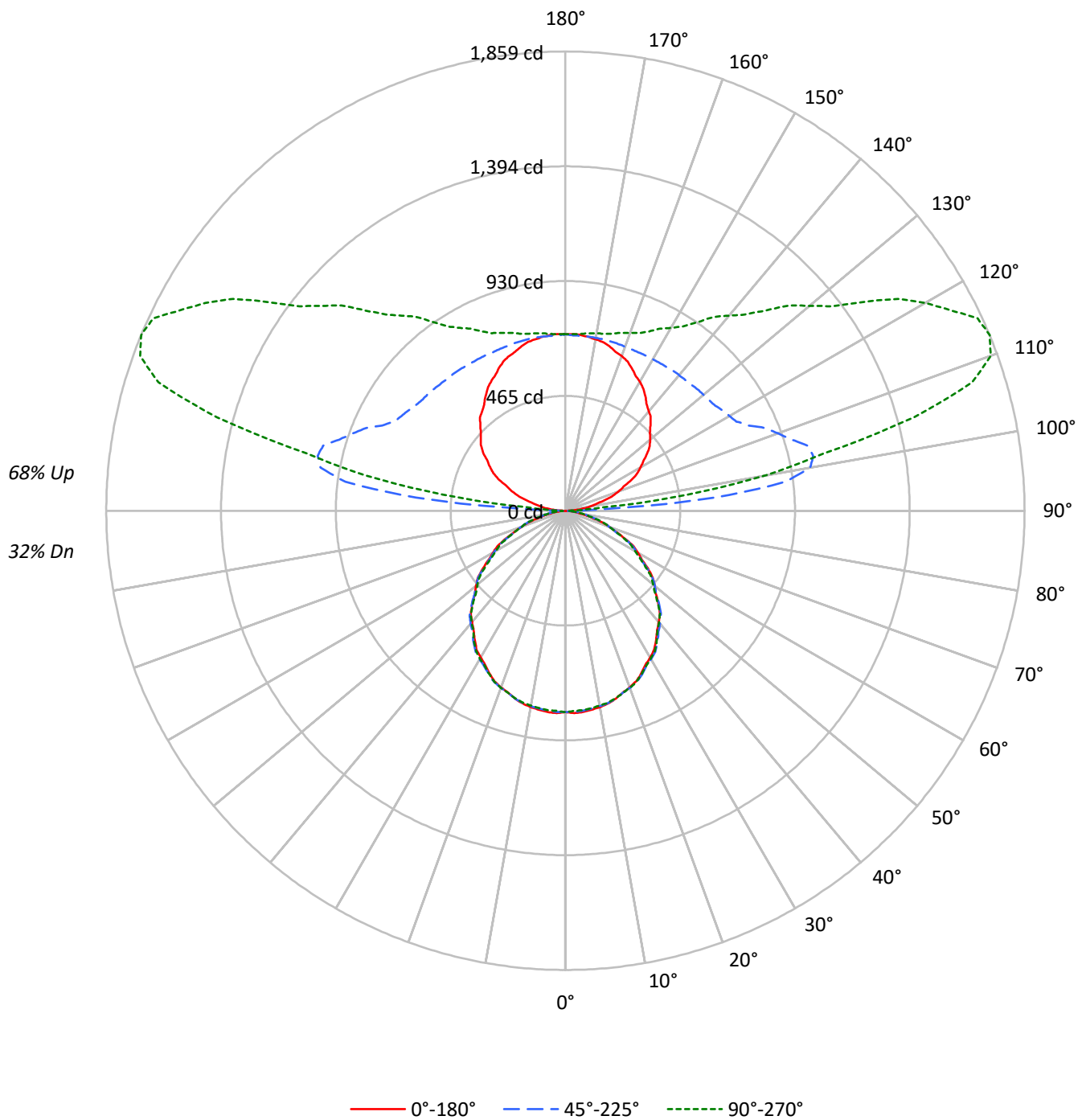
Lumens per Lamp: N/A
Luminaire Lumens: 6865.6 lumens
Efficiency: N/A
Efficacy: 73.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 92.9
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	103	103	103	103		93	93	93	93		74	74	74		56	56	56		40	40	40
1	94	90	86	83		84	81	78	75		64	62	60		49	48	47		35	35	34
2	85	78	72	67		77	71	66	61		56	53	50		43	41	39		31	30	28
3	78	69	62	56		70	62	56	51		50	45	42		38	35	33		28	26	24
4	71	61	53	47		64	55	48	43		44	39	36		34	31	28		25	22	21
5	65	54	46	40		58	49	42	37		39	34	31		30	27	24		22	20	18
6	60	48	40	35		54	44	37	32		35	30	26		27	24	21		20	18	16
7	55	43	36	30		50	39	33	28		32	27	23		25	21	19		18	16	14
8	51	39	32	27		46	36	29	25		29	24	20		23	19	16		17	14	13
9	48	36	28	24		43	33	26	22		26	22	18		21	17	15		15	13	11
10	44	33	26	21		40	30	24	19		24	20	16		19	16	13		14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5015	5015	5015
5°	5053	5020	5002
10°	5041	5017	5003
15°	5014	5014	5010
20°	4981	4996	4996
25°	4934	4970	4954
30°	4874	4933	4911
35°	4802	4875	4841
40°	4722	4789	4740
45°	4636	4669	4597
50°	4516	4516	4443
55°	4372	4315	4251
60°	4160	4077	4012
65°	3845	3769	3736
70°	3367	3394	3381
75°	2709	2997	3013
80°	1927	2540	2568
85°	1172	2131	2131

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 4669 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.2	1.1
10°-20°	221.4	3.2
20°-30°	335.3	4.9
30°-40°	402.0	5.9
40°-50°	409.9	6.0
50°-60°	357.8	5.2
60°-70°	256.2	3.7
70°-80°	132.0	1.9
80°-90°	34.8	0.5
90°-100°	334.3	4.9
100°-110°	923.0	13.4
110°-120°	951.9	13.9
120°-130°	765.0	11.1
130°-140°	601.2	8.8
140°-150°	461.1	6.7
150°-160°	331.4	4.8
160°-170°	202.6	3.0
170°-180°	68.3	1.0
0°-30°	634.0	9.2
0°-40°	1036.0	15.1
0°-60°	1803.8	26.3
0°-90°	2226.8	32.4
90°-120°	2209.3	32.2
90°-150°	4036.5	58.8
90°-180°	4639.0	67.6
0°-180°	6865.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	815	815	815	815	815	
5°	818	810	813	811	810	78
15°	787	781	787	787	787	222
25°	727	722	732	730	730	335
35°	640	638	649	645	645	400
45°	533	532	537	530	528	410
55°	408	402	402	396	396	363
65°	264	258	259	257	257	261
75°	114	119	126	127	127	123
85°	17	26	30	31	30	23
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:

CATALOG NUMBER: SQ4-PC3-100U-100D-927-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	815.4	815.4	815.4	815.4	815.4
2.5°	820.2	813.1	815.4	813.5	810.5
5°	818.4	810.3	813.1	810.8	810.1
7.5°	812.5	804.4	808.1	806.6	805.8
10°	807.1	798.9	803.3	801.8	801.0
12.5°	799.8	792.3	797.2	795.7	795.6
15°	787.4	780.8	787.4	787.4	786.7
17.5°	771.9	765.8	772.9	773.4	772.9
20°	761.0	754.4	763.3	762.5	763.3
22.5°	747.7	742.3	751.8	749.8	750.6
25°	727.0	721.9	732.3	730.0	730.0
27.5°	702.6	698.9	710.3	707.9	707.9
30°	686.3	682.6	694.6	691.5	691.5
32.5°	668.1	665.6	677.1	673.4	673.4
35°	639.5	638.0	649.3	644.7	644.7
37.5°	609.9	608.5	618.8	613.3	611.5
40°	588.1	587.4	596.4	590.4	590.4
42.5°	566.4	565.6	573.5	566.2	566.2
45°	533.0	531.5	536.8	530.0	528.5
47.5°	496.6	495.1	498.4	491.0	490.3
50°	471.9	470.4	471.9	465.0	464.3
52.5°	446.5	443.8	444.1	437.3	437.1
55°	407.7	402.5	402.4	396.4	396.4
57.5°	366.6	359.8	360.4	355.3	354.5
60°	338.2	330.8	331.4	326.9	326.1
62.5°	310.4	301.9	303.6	298.5	298.4
65°	264.2	258.3	259.0	256.7	256.7
67.5°	219.8	214.4	218.3	216.5	216.4
70°	187.2	183.5	188.7	188.7	188.0
72.5°	157.0	156.9	163.4	163.4	163.8
75°	114.0	119.2	126.1	126.8	126.8
77.5°	76.1	85.3	92.9	93.2	93.0
80°	54.4	64.7	71.7	73.2	72.5
82.5°	36.8	47.8	53.6	55.1	54.4
85°	16.6	25.5	30.2	30.9	30.2
87.5°	5.3	11.1	13.9	14.1	13.2
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)