

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-PP3-100U-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-PP3-100U-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

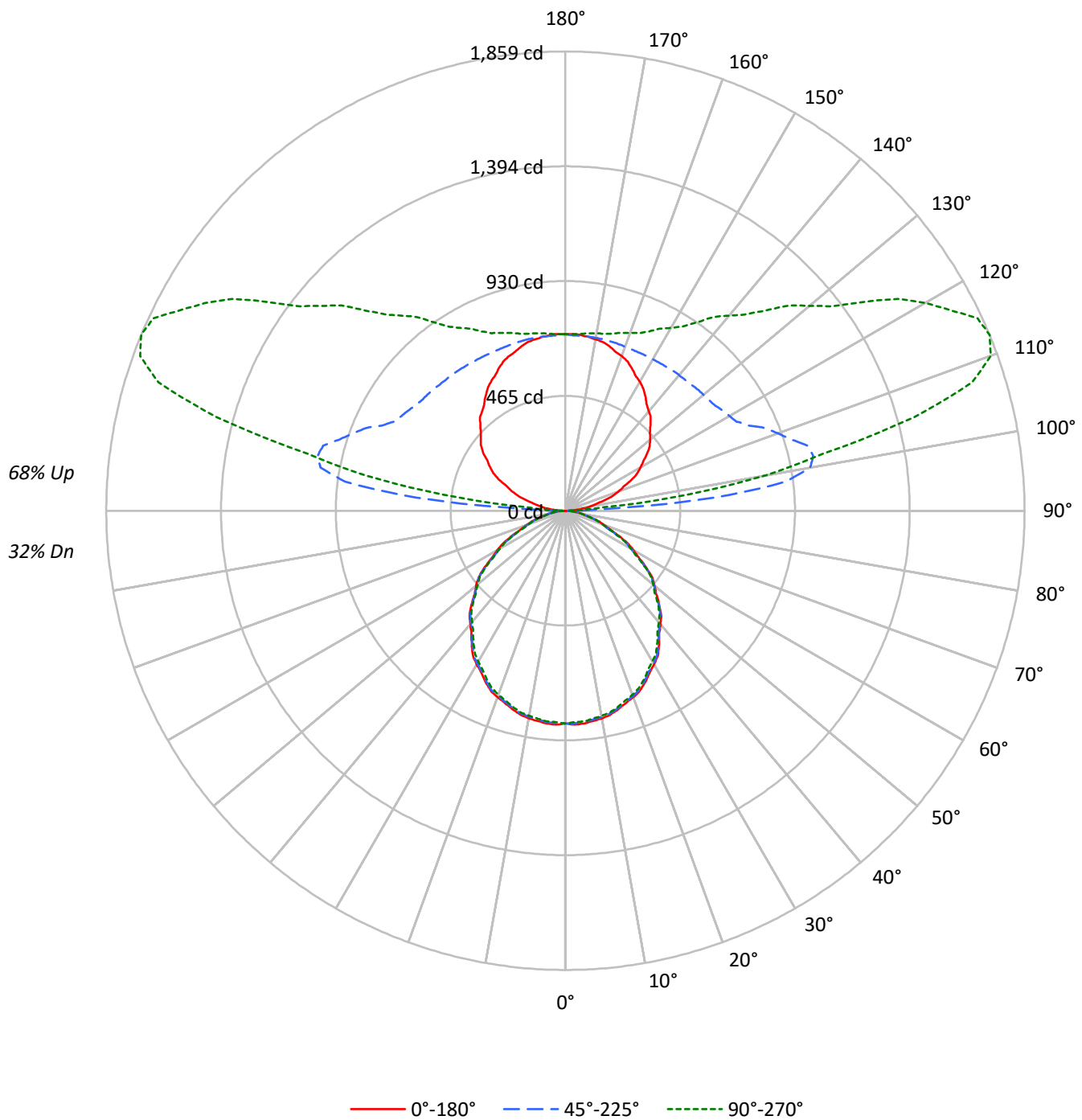
Lumens per Lamp: N/A
Luminaire Lumens: 6845.0 lumens
Efficiency: N/A
Efficacy: 73.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 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	73	73	73	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	86	78	73	68	77	71	66	62	57	53	50	43	41	39	31	30	29
3	78	69	62	56	70	62	56	52	50	46	42	38	36	33	28	26	24
4	71	61	53	48	64	55	49	44	44	40	36	34	31	28	25	23	21
5	65	54	46	41	59	49	42	37	40	35	31	31	27	25	22	20	18
6	60	49	41	35	54	44	37	32	36	31	27	28	24	21	20	18	16
7	56	44	36	31	50	40	33	28	32	27	24	25	22	19	18	16	14
8	51	40	32	27	46	36	29	25	29	24	21	23	19	17	17	15	13
9	48	36	29	24	43	33	26	22	27	22	19	21	18	15	16	13	12
10	45	33	26	21	40	30	24	20	25	20	17	19	16	14	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5298	5298	5298
5°	5337	5304	5286
10°	5328	5291	5267
15°	5293	5264	5235
20°	5258	5228	5189
25°	5195	5159	5108
30°	5099	5072	5008
35°	4966	4932	4869
40°	4807	4777	4722
45°	4675	4643	4597
50°	4508	4479	4435
55°	4274	4218	4185
60°	3891	3780	3762
65°	3427	3285	3275
70°	2960	2838	2838
75°	2548	2512	2476
80°	2246	2274	2221
85°	1757	1920	1920

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4675 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.5	1.2
10°-20°	232.6	3.4
20°-30°	348.4	5.1
30°-40°	408.6	6.0
40°-50°	409.9	6.0
50°-60°	349.7	5.1
60°-70°	228.0	3.3
70°-80°	114.4	1.7
80°-90°	33.1	0.5
90°-100°	334.3	4.9
100°-110°	923.0	13.5
110°-120°	951.9	13.9
120°-130°	765.0	11.2
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°	662.4	9.7
0°-40°	1071.0	15.6
0°-60°	1830.6	26.7
0°-90°	2206.2	32.2
90°-120°	2209.3	32.3
90°-150°	4036.5	59.0
90°-180°	4639.0	67.8
0°-180°	6845.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	861	861	861	861	861	
5°	864	856	859	856	856	82
15°	831	823	827	824	822	234
25°	766	757	760	753	753	352
35°	661	655	657	649	648	413
45°	538	534	534	528	528	414
55°	399	397	393	391	390	354
65°	236	231	226	224	225	235
75°	107	107	106	105	104	116
85°	25	27	27	27	27	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:

CATALOG NUMBER: SQ4-PP3-100U-100D-927-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	861.4	861.4	861.4	861.4	861.4
2.5°	866.8	859.7	861.4	860.1	856.6
5°	864.4	856.3	859.1	856.1	856.1
7.5°	858.5	849.7	852.5	849.5	849.3
10°	853.1	844.2	847.1	844.0	843.3
12.5°	845.2	836.4	839.8	836.2	836.0
15°	831.2	823.1	826.7	823.6	822.1
17.5°	815.3	806.5	810.8	806.6	806.0
20°	803.3	794.4	798.7	792.7	792.7
22.5°	788.8	779.9	784.8	777.0	777.0
25°	765.5	756.7	760.2	753.4	752.7
27.5°	737.9	729.2	732.9	725.2	725.1
30°	718.0	709.8	714.2	705.9	705.1
32.5°	696.2	688.7	691.8	683.5	682.8
35°	661.3	654.7	656.8	649.2	648.5
37.5°	624.6	617.9	620.3	613.8	613.5
40°	598.7	594.2	594.9	589.6	588.1
42.5°	574.5	569.5	570.1	564.8	564.6
45°	537.5	533.8	533.8	528.5	528.5
47.5°	498.3	495.5	494.6	490.3	490.1
50°	471.1	468.9	468.1	464.3	463.5
52.5°	442.7	441.7	439.1	435.9	435.8
55°	398.6	397.1	393.3	391.0	390.3
57.5°	350.8	347.8	343.5	340.2	340.8
60°	316.3	313.4	307.3	305.8	305.8
62.5°	283.1	279.6	273.4	271.4	272.5
65°	235.5	231.1	225.7	224.2	225.0
67.5°	192.4	188.4	182.5	182.5	181.9
70°	164.6	162.4	157.8	157.8	157.8
72.5°	139.8	138.8	135.4	135.4	134.8
75°	107.2	107.2	105.7	104.9	104.2
77.5°	80.3	80.6	79.9	79.1	77.8
80°	63.4	64.9	64.2	63.4	62.7
82.5°	47.7	49.2	49.1	47.7	47.6
85°	24.9	27.1	27.2	27.2	27.2
87.5°	7.1	9.9	11.5	11.7	12.6
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

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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)