

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-050D-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-050D-927-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

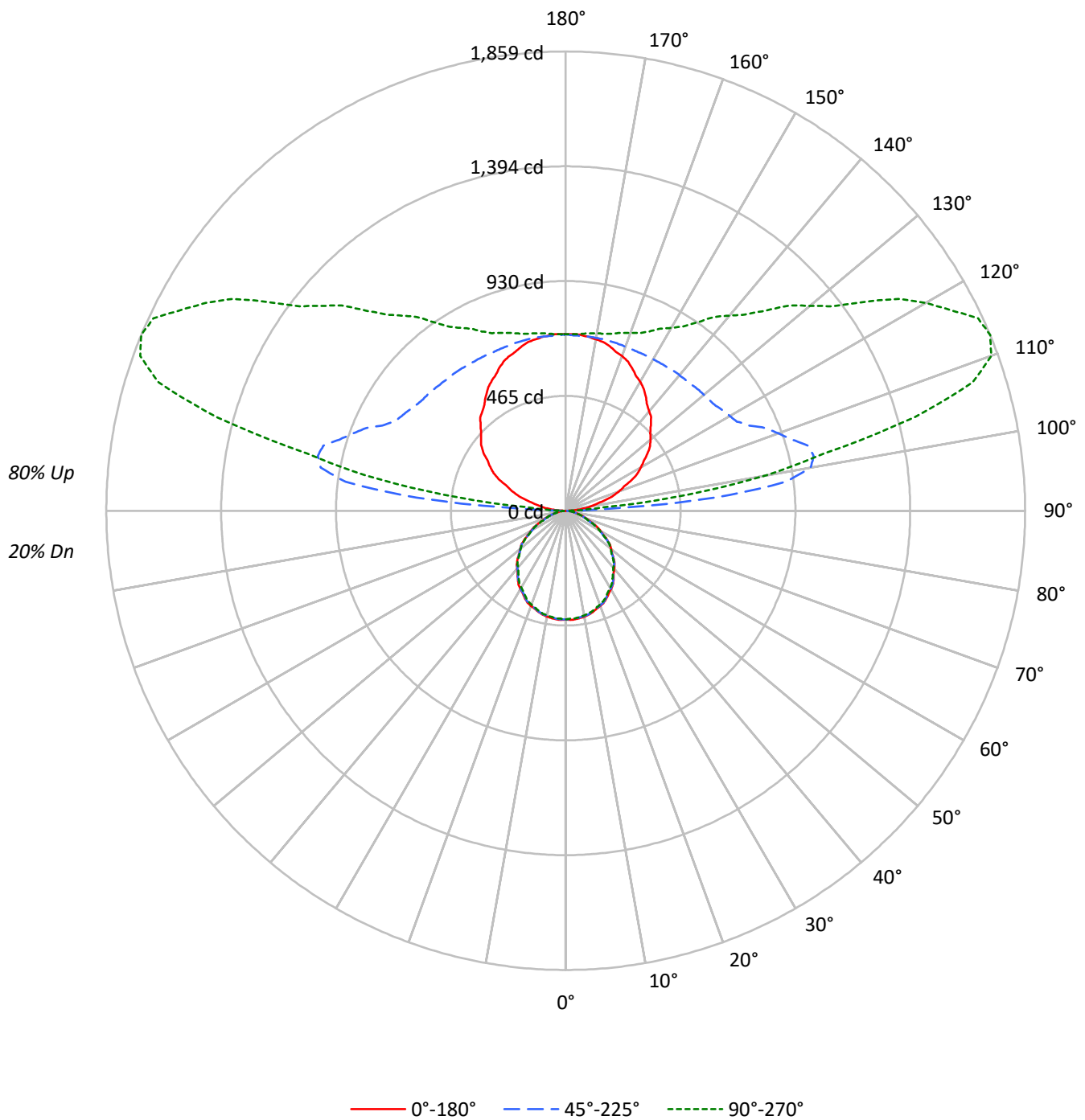
Lumens per Lamp: N/A
Luminaire Lumens: 5766.1 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 64.3
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				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	39	25	24	24
2	83	76	70	65	73	67	62	58	51	48	45	36	34	32	22	21	20
3	76	67	60	54	66	59	53	49	45	41	38	32	29	27	20	18	17
4	69	59	51	46	61	52	46	41	40	36	32	28	26	23	17	16	15
5	63	52	45	39	56	46	40	35	35	31	28	25	22	20	16	14	13
6	58	47	39	34	51	42	35	30	32	27	24	23	20	17	14	13	11
7	54	42	34	29	47	37	31	26	29	24	21	21	18	15	13	11	10
8	50	38	31	26	44	34	27	23	26	22	18	19	16	14	12	10	9
9	46	34	27	23	41	31	25	20	24	19	16	17	14	12	11	9	8
10	43	31	25	20	38	28	22	18	22	17	14	16	13	11	10	8	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2706	2706	2706
5°	2725	2709	2699
10°	2721	2701	2689
15°	2702	2688	2673
20°	2685	2670	2650
25°	2653	2635	2608
30°	2604	2590	2558
35°	2536	2518	2486
40°	2455	2439	2411
45°	2388	2371	2348
50°	2302	2287	2265
55°	2182	2153	2137
60°	1987	1930	1920
65°	1751	1678	1672
70°	1511	1449	1449
75°	1300	1283	1264
80°	1148	1162	1133
85°	896	981	981

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2388 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.6	0.7
10°-20°	118.8	2.1
20°-30°	177.9	3.1
30°-40°	208.7	3.6
40°-50°	209.3	3.6
50°-60°	178.5	3.1
60°-70°	116.5	2.0
70°-80°	58.4	1.0
80°-90°	17.7	0.3
90°-100°	334.3	5.8
100°-110°	923.0	16.0
110°-120°	951.9	16.5
120°-130°	765.0	13.3
130°-140°	601.2	10.4
140°-150°	461.1	8.0
150°-160°	331.4	5.7
160°-170°	202.6	3.5
170°-180°	68.3	1.2
0°-30°	338.2	5.9
0°-40°	546.9	9.5
0°-60°	934.8	16.2
0°-90°	1127.3	19.6
90°-120°	2209.3	38.3
90°-150°	4036.5	70.0
90°-180°	4639.0	80.5
0°-180°	5766.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	440	440	440	440	440	
5°	441	437	439	437	437	42
15°	424	420	422	421	420	120
25°	391	386	388	385	384	180
35°	338	334	335	332	331	211
45°	274	273	273	270	270	211
55°	204	203	201	200	199	181
65°	120	118	115	114	115	120
75°	55	55	54	54	53	59
85°	13	14	14	14	14	15
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	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	439.9	439.9	439.9	439.9	439.9
2.5°	442.6	439.0	439.9	439.2	437.4
5°	441.4	437.3	438.7	437.2	437.2
7.5°	438.4	433.9	435.3	433.8	433.7
10°	435.6	431.1	432.5	431.0	430.6
12.5°	431.6	427.1	428.8	427.0	426.9
15°	424.4	420.3	422.1	420.6	419.8
17.5°	416.3	411.8	414.0	411.9	411.6
20°	410.2	405.7	407.9	404.8	404.8
22.5°	402.8	398.2	400.8	396.8	396.8
25°	390.9	386.4	388.2	384.7	384.3
27.5°	376.8	372.3	374.2	370.3	370.2
30°	366.6	362.5	364.7	360.4	360.1
32.5°	355.5	351.7	353.3	349.0	348.6
35°	337.7	334.3	335.4	331.5	331.1
37.5°	319.0	315.5	316.7	313.4	313.3
40°	305.7	303.4	303.8	301.1	300.3
42.5°	293.4	290.8	291.1	288.4	288.3
45°	274.5	272.6	272.6	269.9	269.9
47.5°	254.4	253.0	252.6	250.3	250.3
50°	240.6	239.4	239.0	237.1	236.7
52.5°	226.1	225.5	224.2	222.6	222.5
55°	203.5	202.8	200.8	199.7	199.3
57.5°	179.1	177.6	175.4	173.7	174.0
60°	161.5	160.0	156.9	156.1	156.1
62.5°	144.6	142.8	139.6	138.6	139.2
65°	120.3	118.0	115.3	114.5	114.9
67.5°	98.2	96.2	93.2	93.2	92.9
70°	84.0	82.9	80.6	80.6	80.6
72.5°	71.4	70.9	69.2	69.2	68.9
75°	54.7	54.7	54.0	53.6	53.2
77.5°	41.0	41.2	40.8	40.4	39.7
80°	32.4	33.1	32.8	32.4	32.0
82.5°	24.4	25.1	25.1	24.4	24.3
85°	12.7	13.9	13.9	13.9	13.9
87.5°	3.8	5.5	6.8	7.0	7.5
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)