

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-PC3-075U-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 (G3-1910-536-22)
Test Lab: INNOVATION CENTER
Issue Date: 8/1/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-PC3-075U-100D-927-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

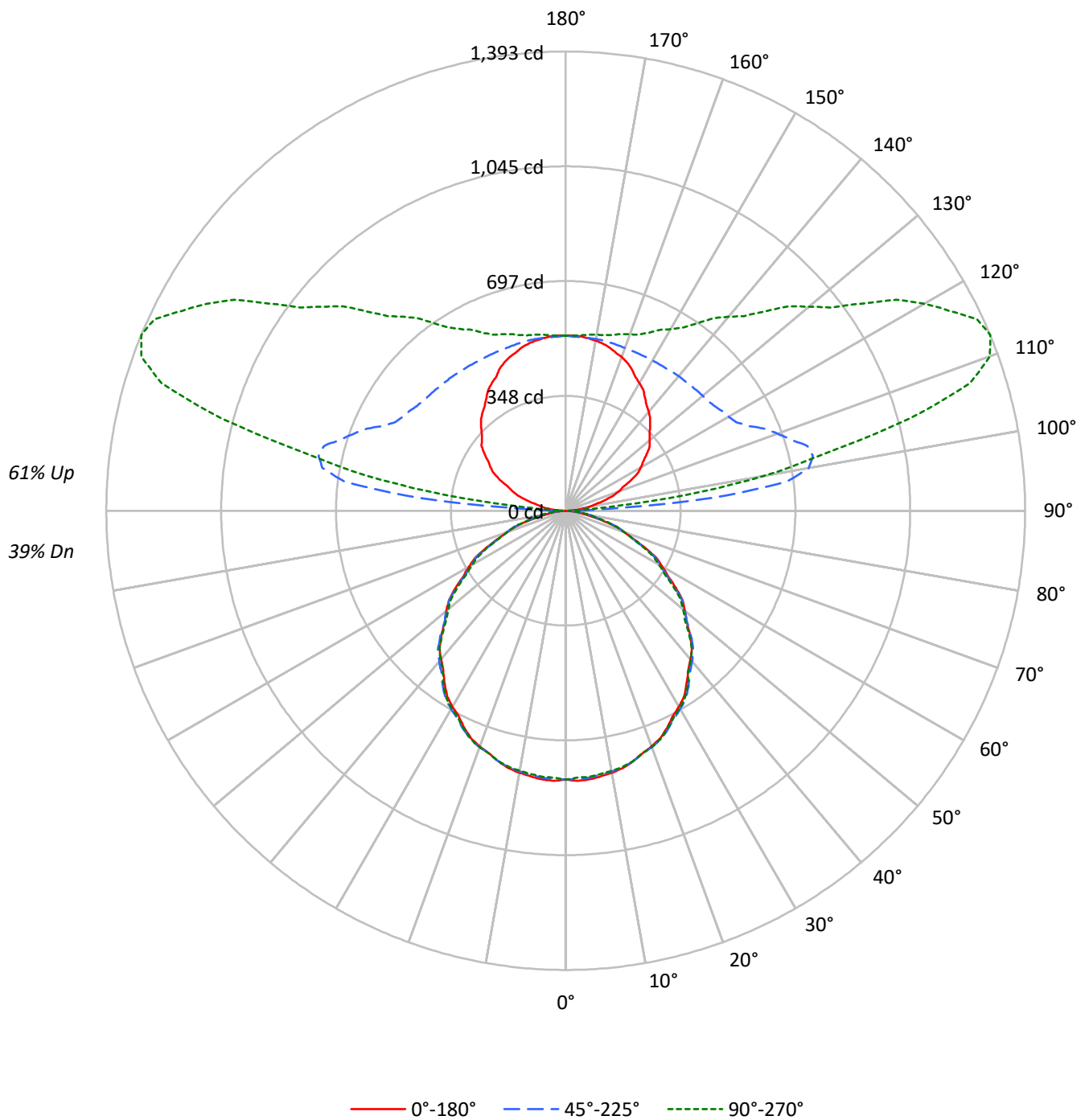
Lumens per Lamp: N/A
Luminaire Lumens: 5684.4 lumens
Efficiency: N/A
Efficacy: 68.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 82.9
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

TEST NUMBER:

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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	105	105	105	105	95	95	95	95	77	77	77	61	61	61	46	46	46
1	95	91	87	84	87	83	80	77	68	66	63	54	52	51	41	40	39
2	87	80	74	69	79	73	67	63	59	56	53	47	45	42	36	34	33
3	79	70	63	57	72	64	58	53	52	48	44	42	39	36	32	30	28
4	72	62	54	48	66	56	50	45	46	41	37	37	34	31	28	26	24
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	26	23	21
6	61	49	41	35	55	45	38	33	37	32	28	30	26	23	23	20	18
7	56	44	36	31	51	41	34	29	34	28	25	27	23	20	21	18	16
8	52	40	32	27	47	37	30	25	31	25	22	25	21	18	19	17	15
9	49	37	29	24	44	34	27	23	28	23	19	23	19	16	18	15	13
10	45	33	26	22	41	31	24	20	26	21	17	21	17	15	16	14	12

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	1.4
10°-20°	221.4	3.9
20°-30°	335.3	5.9
30°-40°	402.0	7.1
40°-50°	409.9	7.2
50°-60°	357.8	6.3
60°-70°	256.2	4.5
70°-80°	132.0	2.3
80°-90°	34.7	0.6
90°-100°	250.3	4.4
100°-110°	688.7	12.1
110°-120°	710.9	12.5
120°-130°	569.6	10.0
130°-140°	447.4	7.9
140°-150°	342.8	6.0
150°-160°	246.5	4.3
160°-170°	150.7	2.7
170°-180°	50.8	0.9
0°-30°	634.0	11.2
0°-40°	1036.0	18.2
0°-60°	1803.8	31.7
0°-90°	2226.6	39.2
90°-120°	1650.0	29.0
90°-150°	3009.8	52.9
90°-180°	3458.0	60.8
0°-180°	5684.4	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°	1	4	8	10	10	3
95°	37	137	443	189	121	39
105°	123	189	759	1156	1078	130
115°	218	265	609	1212	1376	215
125°	300	342	552	934	1094	268
135°	362	402	536	756	855	280
145°	419	448	528	644	693	263
155°	474	490	525	579	595	218
165°	513	519	527	549	552	144
175°	531	532	528	535	534	50
180°	531	531	531	531	531	

TEST NUMBER:

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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°	5.1	11.0	13.7	14.1	12.9
90°	1.1	4.4	7.9	10.2	10.2
92.5°	15.6	66.6	115.4	44.3	36.4
95°	37.3	136.6	442.7	189.3	120.8
97.5°	60.8	151.5	675.6	520.5	367.3
100°	77.9	160.7	748.7	755.7	616.6
102.5°	94.2	171.7	767.7	937.6	809.9
105°	123.1	189.3	758.9	1155.8	1078.5
107.5°	150.7	211.2	715.8	1262.6	1285.6
110°	170.5	225.7	683.2	1289.2	1368.7

TEST NUMBER:

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	188.6	242.0	650.7	1272.1	1393.1
115°	218.0	265.4	608.7	1212.1	1375.5
117.5°	246.0	289.7	582.0	1127.9	1312.7
120°	263.1	305.1	570.3	1064.8	1255.8
122.5°	278.5	320.4	562.2	1009.4	1190.8
125°	300.4	342.4	552.2	934.2	1094.3
127.5°	321.2	361.2	545.7	871.4	1011.9
130°	332.0	372.9	542.1	834.1	962.2
132.5°	344.7	385.5	539.4	801.3	917.0
135°	362.5	402.3	536.4	755.5	854.9
137.5°	379.2	416.1	533.9	718.5	800.5
140°	391.9	426.1	533.0	694.0	767.9
142.5°	402.7	434.3	531.2	672.0	735.4
145°	419.0	447.7	528.5	643.7	693.4
147.5°	436.4	461.1	527.2	618.6	658.4
150°	447.2	469.3	526.3	604.9	635.8
152.5°	457.1	477.5	525.4	593.0	618.6
155°	474.3	489.8	525.1	578.6	595.1
157.5°	486.7	499.3	525.1	566.7	578.2
160°	495.8	505.7	525.1	560.3	569.2
162.5°	503.0	511.2	526.0	554.9	561.9
165°	512.7	519.3	527.4	548.9	552.2
167.5°	519.5	524.6	528.5	543.9	544.8
170°	524.0	527.3	528.5	542.1	542.1
172.5°	527.6	529.2	528.5	539.3	538.5
175°	530.8	531.9	528.5	535.3	534.2
177.5°	531.7	531.7	528.1	533.4	531.7
180°	530.8	530.8	530.8	530.8	530.8

(END OF REPORT)