

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-PP3-075U-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-PP3-075U-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

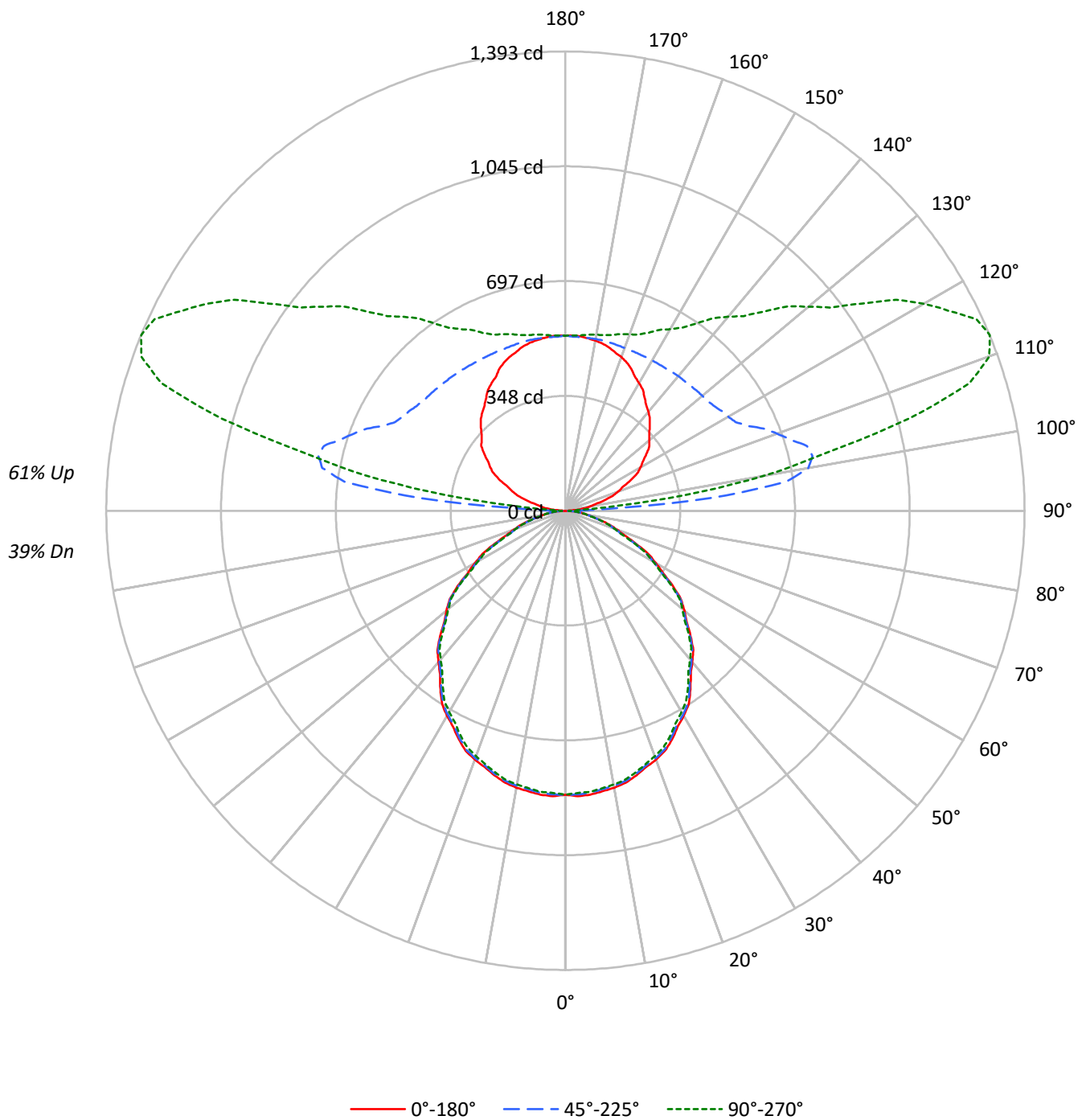
Lumens per Lamp: N/A
Luminaire Lumens: 5663.8 lumens
Efficiency: N/A
Efficacy: 68.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 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:

CATALOG NUMBER: SQ4-PP3-075U-100D-927-1D-UNV-STD-W-6

Luminous Intensity Polar Plot



TEST NUMBER:

CATALOG NUMBER: SQ4-PP3-075U-100D-927-1D-UNV-STD-W-6

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	88	84	87	83	80	77	68	66	64	54	52	51	41	40	39
2	87	80	74	69	79	73	68	63	60	56	53	47	45	43	36	35	33
3	79	70	63	57	72	64	58	53	53	48	45	42	39	36	32	30	28
4	73	62	54	49	66	57	50	45	47	42	38	37	34	31	29	26	24
5	67	55	47	42	60	51	44	39	42	37	33	34	30	27	26	23	21
6	61	50	42	36	56	45	38	33	38	32	28	30	26	24	23	21	19
7	57	45	37	31	51	41	34	29	34	29	25	28	24	21	21	19	17
8	53	40	33	28	48	37	31	26	31	26	22	25	21	19	20	17	15
9	49	37	30	25	44	34	27	23	28	23	20	23	19	17	18	15	13
10	46	34	27	22	41	31	25	21	26	21	18	21	18	15	17	14	12

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

TEST NUMBER:

CATALOG NUMBER: SQ4-PP3-075U-100D-927-1D-UNV-STD-W-6

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.5	1.4
10°-20°	232.6	4.1
20°-30°	348.4	6.2
30°-40°	408.6	7.2
40°-50°	409.9	7.2
50°-60°	349.7	6.2
60°-70°	228.0	4.0
70°-80°	114.4	2.0
80°-90°	33.0	0.6
90°-100°	250.3	4.4
100°-110°	688.7	12.2
110°-120°	710.9	12.6
120°-130°	569.6	10.1
130°-140°	447.4	7.9
140°-150°	342.8	6.1
150°-160°	246.5	4.4
160°-170°	150.7	2.7
170°-180°	50.8	0.9
0°-30°	662.4	11.7
0°-40°	1071.0	18.9
0°-60°	1830.6	32.3
0°-90°	2206.1	38.9
90°-120°	1650.0	29.1
90°-150°	3009.8	53.1
90°-180°	3458.0	61.1
0°-180°	5663.8	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°	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:

CATALOG NUMBER: SQ4-PP3-075U-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°	6.9	9.9	11.2	11.7	12.3
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:

CATALOG NUMBER: SQ4-PP3-075U-100D-927-1D-UNV-STD-W-6

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)