

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

(formerly Eaton)

Brand: CORELITE

Report Number: P561625

Luminaire Tested: **SQ4-PC3-100U-050D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561625  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PC3-100U-050D-92765-1D-UNV-STD-W-4 (4500K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

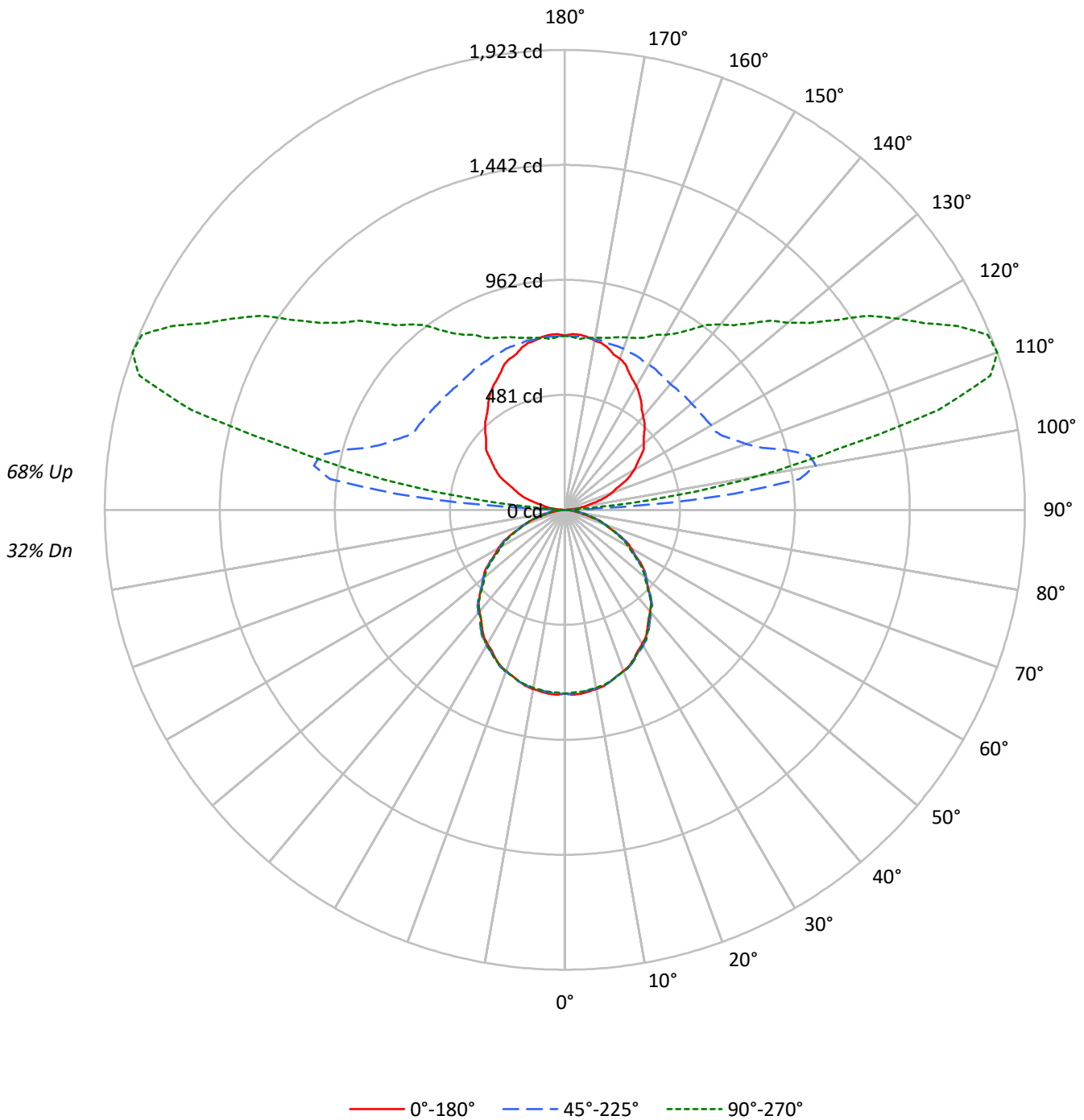
Lumens per Lamp: N/A  
Luminaire Lumens: 6622.4 lumens  
Efficiency: N/A  
Efficacy: 124.7 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 53.1  
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				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	103	103	103	103	92	92	92	92	73	73	73	56	56	56	39	39	39	32
1	94	90	86	82	84	81	78	75	64	62	60	49	47	46	35	34	33	27
2	85	78	72	67	76	70	65	61	56	53	50	43	41	39	31	29	28	22
3	78	69	62	56	70	62	56	51	49	45	42	38	35	33	27	25	24	19
4	71	61	53	47	64	55	48	43	44	39	35	34	30	28	24	22	20	16
5	65	54	46	40	58	49	42	37	39	34	30	30	27	24	22	20	18	14
6	60	48	40	35	54	44	37	32	35	30	26	27	24	21	20	17	16	12
7	55	43	36	30	50	39	33	28	32	27	23	25	21	18	18	16	14	11
8	51	39	32	27	46	36	29	24	29	24	20	22	19	16	16	14	12	10
9	48	36	28	23	43	32	26	22	26	21	18	21	17	15	15	13	11	9
10	44	33	26	21	40	30	23	19	24	19	16	19	15	13	14	12	10	8

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	7093	7093	7093
5°	7146	7100	7074
10°	7129	7096	7075
15°	7091	7091	7084
20°	7045	7065	7065
25°	6978	7029	7007
30°	6893	6977	6946
35°	6791	6895	6847
40°	6678	6772	6704
45°	6557	6604	6502
50°	6386	6386	6284
55°	6183	6103	6011
60°	5884	5766	5674
65°	5438	5331	5283
70°	4761	4802	4780
75°	3832	4238	4263
80°	2726	3592	3629
85°	1662	3017	3017



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.8	1.1
10°-20°	208.8	3.2
20°-30°	316.2	4.8
30°-40°	379.1	5.7
40°-50°	386.5	5.8
50°-60°	337.4	5.1
60°-70°	241.5	3.6
70°-80°	124.4	1.9
80°-90°	31.5	0.5
90°-100°	331.9	5.0
100°-110°	944.4	14.3
110°-120°	904.8	13.7
120°-130°	716.1	10.8
130°-140°	574.8	8.7
140°-150°	450.0	6.8
150°-160°	329.3	5.0
160°-170°	203.9	3.1
170°-180°	69.2	1.0
0°-30°	597.7	9.0
0°-40°	976.8	14.7
0°-60°	1700.7	25.7
0°-90°	2098.1	31.7
90°-120°	2181.1	32.9
90°-150°	3921.9	59.2
90°-180°	4524.0	68.3
0°-180°	6622.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	769	769	769	769	769	
5°	772	764	767	764	764	73
15°	742	736	742	742	742	209
25°	686	681	690	688	688	315
35°	603	602	612	608	608	377
45°	502	501	506	500	498	387
55°	384	380	379	374	374	343
65°	249	244	244	242	242	246
75°	108	112	119	120	120	116
85°	16	24	28	29	28	21
90°	0	0	0	0	0	2
95°	36	143	642	222	137	41
105°	147	223	962	1700	1616	155
115°	273	330	730	1546	1815	269
125°	385	427	696	1156	1382	345
135°	471	510	688	976	1104	363
145°	555	584	694	845	921	347
155°	634	649	710	764	795	293
165°	701	703	719	734	745	197
175°	734	730	727	723	717	70
180°	728	728	728	728	728	

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CATALOG NUMBER: SQ4-PC3-100U-050D-92765-1D-UNV-STD-W-4 (4500K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	768.8	768.8	768.8	768.8	768.8
2.5°	773.3	766.6	768.8	767.0	764.2
5°	771.6	764.0	766.6	764.5	763.8
7.5°	766.1	758.4	761.9	760.5	759.8
10°	760.9	753.3	757.4	755.9	755.2
12.5°	754.1	747.0	751.7	750.2	750.1
15°	742.4	736.2	742.4	742.4	741.7
17.5°	727.8	722.1	728.8	729.2	728.8
20°	717.5	711.2	719.6	718.9	719.6
22.5°	705.0	699.8	708.8	707.0	707.7
25°	685.5	680.6	690.5	688.3	688.3
27.5°	662.4	658.9	669.7	667.4	667.4
30°	647.0	643.6	654.9	652.0	652.0
32.5°	630.0	627.6	638.4	634.9	634.9
35°	602.9	601.5	612.2	607.9	607.9
37.5°	575.0	573.8	583.4	578.2	576.6
40°	554.5	553.8	562.3	556.6	556.6
42.5°	534.0	533.3	540.7	533.9	533.9
45°	502.5	501.1	506.1	499.7	498.3
47.5°	468.2	466.8	469.9	462.9	462.3
50°	444.9	443.5	444.9	438.5	437.8
52.5°	421.0	418.5	418.7	412.3	412.1
55°	384.4	379.5	379.4	373.7	373.7
57.5°	345.7	339.3	339.8	335.0	334.3
60°	318.9	311.9	312.5	308.2	307.5
62.5°	292.7	284.6	286.3	281.4	281.3
65°	249.1	243.6	244.2	242.0	242.0
67.5°	207.3	202.1	205.9	204.1	204.0
70°	176.5	173.0	178.0	177.9	177.2
72.5°	148.1	147.9	154.0	154.0	154.5
75°	107.5	112.4	118.9	119.6	119.6
77.5°	71.8	80.4	87.6	87.8	87.7
80°	51.3	61.0	67.6	69.0	68.3
82.5°	34.7	45.0	50.5	51.9	51.3
85°	15.7	24.0	28.5	29.2	28.5
87.5°	4.6	9.6	11.4	11.4	10.3
90°	0.0	0.0	0.0	0.0	0.0
92.5°	11.1	58.7	136.3	39.7	29.9
95°	36.0	143.0	642.5	222.4	137.1
97.5°	66.2	167.5	989.5	708.1	485.2
100°	87.2	182.0	1064.8	1078.6	830.8
102.5°	110.5	197.7	1048.2	1380.6	1164.3
105°	146.8	222.6	962.4	1699.9	1616.0
107.5°	183.6	251.6	862.1	1789.9	1864.7
110°	209.1	272.7	804.5	1755.5	1923.4

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	233.5	293.8	765.7	1674.0	1913.4
115°	272.8	329.7	729.7	1545.9	1815.4
117.5°	307.4	360.8	708.4	1405.9	1691.3
120°	335.1	379.8	706.2	1325.8	1599.3
122.5°	357.3	401.9	700.7	1255.6	1509.6
125°	385.0	426.9	696.5	1155.8	1381.9
127.5°	415.1	454.4	694.3	1096.2	1282.5
130°	430.6	469.9	691.0	1054.7	1217.2
132.5°	447.3	485.4	691.0	1022.3	1171.7
135°	470.8	510.1	688.2	976.3	1103.6
137.5°	493.0	531.1	687.9	937.5	1047.4
140°	509.6	548.8	686.8	905.2	1010.8
142.5°	528.4	561.2	690.1	879.5	974.3
145°	555.3	583.7	693.7	845.0	920.8
147.5°	578.3	605.9	699.8	810.2	875.7
150°	598.2	617.2	702.0	798.6	844.7
152.5°	613.7	633.7	704.3	783.1	825.8
155°	634.2	649.1	710.4	763.7	794.8
157.5°	659.7	668.6	711.7	754.9	777.1
160°	673.0	679.7	717.3	748.2	767.1
162.5°	680.7	688.6	718.4	742.5	757.2
165°	700.7	703.4	718.7	734.1	745.0
167.5°	714.2	711.8	725.0	732.1	736.4
170°	718.7	717.3	722.8	724.3	729.7
172.5°	728.6	724.0	726.1	722.1	726.4
175°	733.9	729.8	727.0	722.7	717.3
177.5°	736.1	729.6	726.1	721.7	722.8
180°	728.4	728.4	728.4	728.4	728.4

(END OF REPORT)