

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: P523831

Luminaire Tested: **SQ4-PP3-100U-050D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/24/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P523831  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2103-172-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/24/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PP3-100U-050D-92765-1D-UNV-STD-W-4 (4500K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM 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**

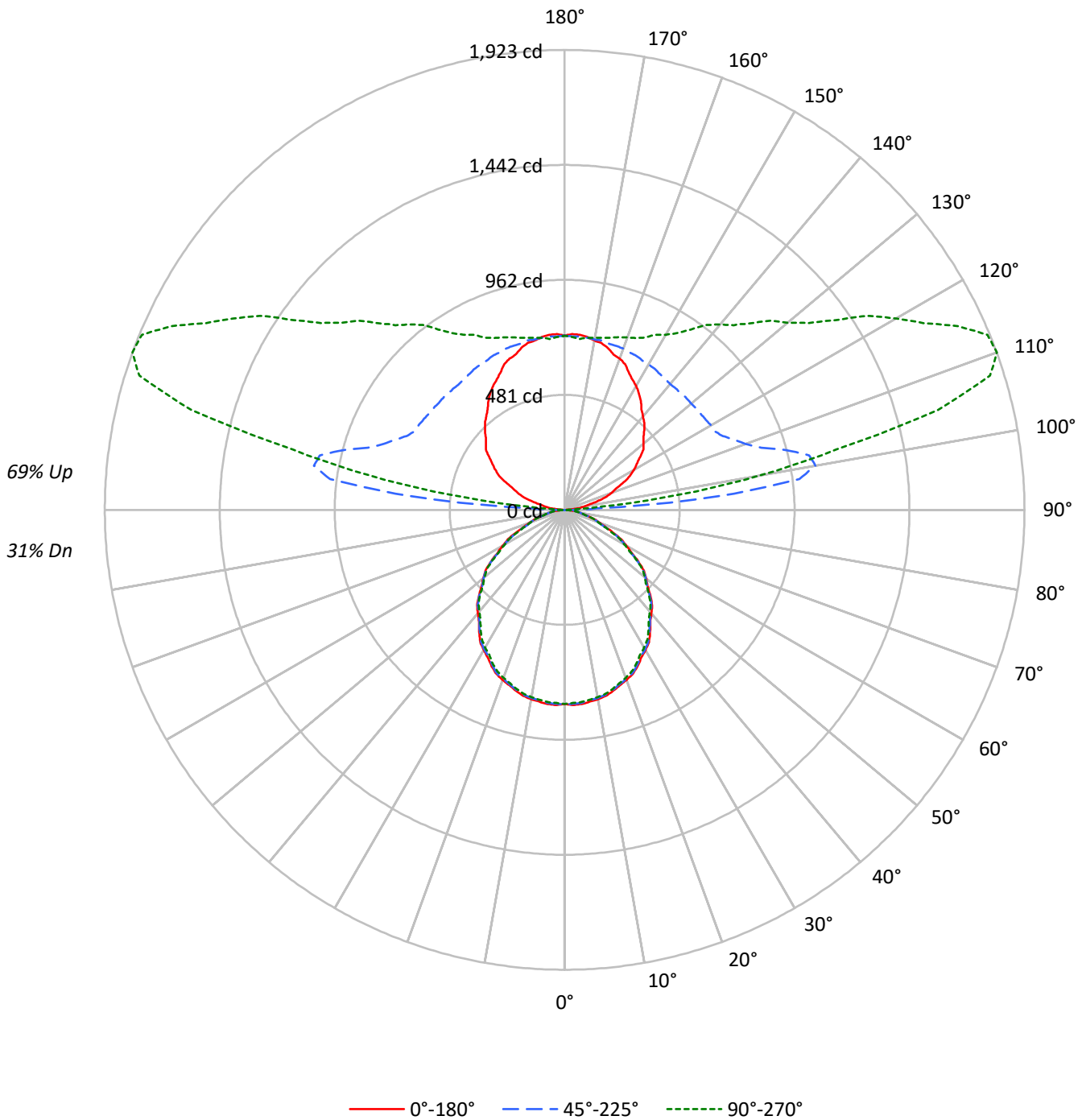
Lumens per Lamp: N/A  
Luminaire Lumens: 6602.6 lumens  
Efficiency: N/A  
Efficacy: 124.3 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

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



TEST NUMBER: P523831  
CATALOG NUMBER: SQ4-PP3-100U-050D-92765-1D-UNV-STD-W-4 (4500K)

### Luminous Intensity Polar Plot





TEST NUMBER: P523831

CATALOG NUMBER: SQ4-PP3-100U-050D-92765-1D-UNV-STD-W-4 (4500K)

**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	55	55	55	39	39	39	31
1	94	90	86	83	84	81	78	75	64	62	60	49	47	46	35	34	33	27
2	85	78	72	68	77	71	66	62	56	53	50	43	41	39	31	29	28	23
3	78	69	62	56	70	62	56	51	50	45	42	38	35	33	27	26	24	19
4	71	61	53	48	64	55	49	44	44	39	36	34	31	28	24	22	21	17
5	65	54	46	41	59	49	42	37	39	34	31	30	27	24	22	20	18	14
6	60	48	41	35	54	44	37	32	35	30	27	27	24	21	20	18	16	13
7	55	44	36	31	50	40	33	28	32	27	23	25	21	19	18	16	14	11
8	51	39	32	27	46	36	29	25	29	24	21	23	19	17	17	14	13	10
9	48	36	29	24	43	33	26	22	27	22	18	21	17	15	15	13	11	9
10	45	33	26	21	40	30	24	20	24	20	16	19	16	13	14	12	10	8

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

	0°	45°	90°
0°	7492	7492	7492
5°	7546	7501	7474
10°	7534	7481	7447
15°	7484	7444	7403
20°	7434	7392	7336
25°	7346	7295	7223
30°	7210	7172	7081
35°	7021	6973	6885
40°	6796	6754	6677
45°	6611	6564	6500
50°	6374	6333	6272
55°	6043	5964	5918
60°	5503	5344	5318
65°	4846	4646	4630
70°	4184	4011	4011
75°	3604	3550	3501
80°	3177	3214	3140
85°	2488	2710	2710



TEST NUMBER: P523831

CATALOG NUMBER: SQ4-PP3-100U-050D-92765-1D-UNV-STD-W-4 (4500K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.8	1.2
10°-20°	219.2	3.3
20°-30°	328.4	5.0
30°-40°	385.2	5.8
40°-50°	386.4	5.9
50°-60°	329.6	5.0
60°-70°	215.0	3.3
70°-80°	107.9	1.6
80°-90°	29.9	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°	624.4	9.5
0°-40°	1009.6	15.3
0°-60°	1725.6	26.1
0°-90°	2078.3	31.5
90°-120°	2181.1	33.0
90°-150°	3921.9	59.4
90°-180°	4524.0	68.5
0°-180°	6602.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	812	812	812	812	812	
5°	815	807	810	807	807	77
15°	784	776	779	776	775	221
25°	722	713	717	710	710	332
35°	623	617	619	612	611	389
45°	507	503	503	498	498	390
55°	376	374	371	369	368	334
65°	222	218	213	211	212	222
75°	101	101	100	99	98	110
85°	24	26	26	26	26	28
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	



TEST NUMBER: P523831

CATALOG NUMBER: SQ4-PP3-100U-050D-92765-1D-UNV-STD-W-4 (4500K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	812.0	812.0	812.0	812.0	812.0
2.5°	817.1	810.4	812.0	810.8	807.4
5°	814.8	807.2	809.9	807.0	807.0
7.5°	809.3	800.9	803.6	800.7	800.6
10°	804.2	795.8	798.5	795.6	794.9
12.5°	796.8	788.4	791.6	788.2	788.1
15°	783.5	775.9	779.3	776.4	775.0
17.5°	768.6	760.2	764.3	760.3	759.8
20°	757.2	748.8	752.9	747.2	747.2
22.5°	743.5	735.2	739.8	732.4	732.4
25°	721.6	713.3	716.6	710.2	709.5
27.5°	695.6	687.4	690.9	683.6	683.5
30°	676.8	669.1	673.2	665.4	664.7
32.5°	656.3	649.2	652.2	644.3	643.6
35°	623.4	617.1	619.1	612.0	611.3
37.5°	588.8	582.4	584.7	578.6	578.3
40°	564.3	560.2	560.8	555.8	554.4
42.5°	541.6	536.8	537.4	532.4	532.2
45°	506.7	503.2	503.1	498.2	498.2
47.5°	469.7	467.0	466.3	462.1	462.0
50°	444.1	442.0	441.2	437.6	437.0
52.5°	417.3	416.3	413.9	410.9	410.8
55°	375.7	374.4	370.8	368.6	367.9
57.5°	330.6	327.8	323.8	320.7	321.2
60°	298.2	295.4	289.6	288.2	288.2
62.5°	266.9	263.5	257.8	255.8	256.9
65°	222.0	217.9	212.8	211.4	212.1
67.5°	181.3	177.6	172.1	172.1	171.5
70°	155.1	153.1	148.7	148.7	148.7
72.5°	131.8	130.8	127.7	127.7	127.1
75°	101.1	101.1	99.6	98.9	98.2
77.5°	75.7	76.0	75.3	74.6	73.3
80°	59.8	61.2	60.5	59.8	59.1
82.5°	45.0	46.4	46.3	45.0	44.8
85°	23.5	25.6	25.6	25.6	25.6
87.5°	6.3	8.5	9.1	9.1	9.7
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



TEST NUMBER: P523831

CATALOG NUMBER: SQ4-PP3-100U-050D-92765-1D-UNV-STD-W-4 (4500K)

**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)