

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: P523853

Luminaire Tested: **SQ4-PP3-100U-100D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 5/24/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P523853  
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-100D-92765-1D-UNV-STD-W-4 (2700K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

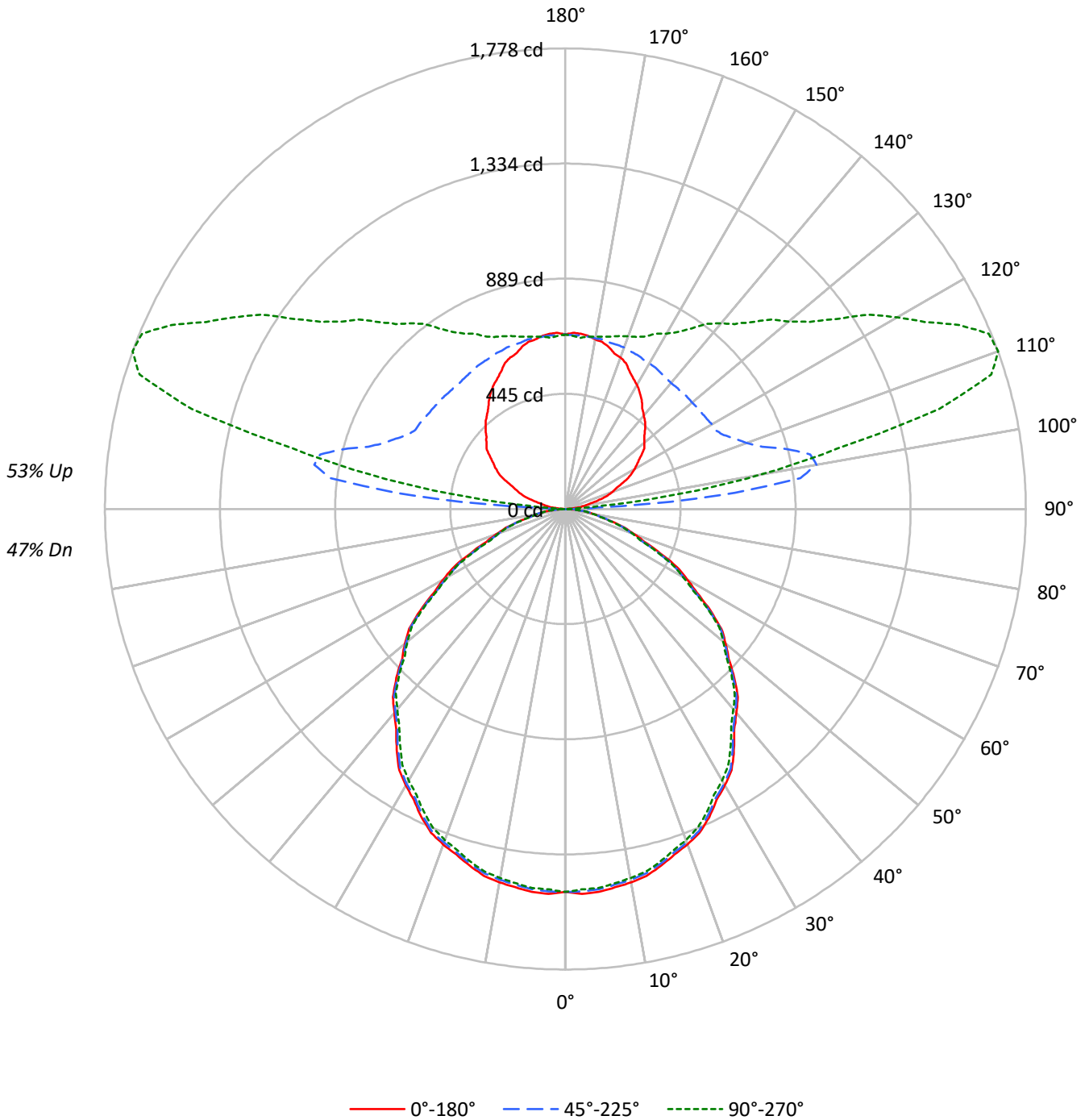
Lumens per Lamp: N/A  
Luminaire Lumens: 7966.5 lumens  
Efficiency: N/A  
Efficacy: 106.8 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 74.6  
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: P523853  
CATALOG NUMBER: SQ4-PP3-100U-100D-92765-1D-UNV-STD-W-4 (2700K)

### Luminous Intensity Polar Plot





TEST NUMBER: P523853

CATALOG NUMBER: SQ4-PP3-100U-100D-92765-1D-UNV-STD-W-4 (2700K)

**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	50	30	10	50	30	10	0		
RCR	0	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	47	47	47	47	47	47		
	1	97	93	89	86	89	86	83	80	72	70	68	60	58	56	48	47	46	40	40	40	40	40	40		
	2	89	82	76	71	81	75	70	66	63	60	56	52	50	47	42	41	39	34	34	34	34	34	34		
	3	81	72	65	59	74	66	60	55	56	51	47	46	43	40	38	35	33	29	29	29	29	29	29		
	4	74	64	56	50	68	59	52	47	50	45	41	41	38	35	34	31	29	25	25	25	25	25	25		
	5	68	57	49	43	62	52	45	40	45	39	35	37	33	30	30	27	25	22	22	22	22	22	22		
	6	63	51	43	37	58	47	40	35	40	35	31	34	29	26	28	24	22	19	19	19	19	19	19		
	7	58	46	38	32	53	43	36	31	36	31	27	31	26	23	25	22	20	17	17	17	17	17	17		
	8	54	42	34	29	49	39	32	27	33	28	24	28	24	21	23	20	18	15	15	15	15	15	15		
	9	50	38	31	26	46	35	29	24	30	25	21	26	22	19	21	18	16	14	14	14	14	14	14		
	10	47	35	28	23	43	32	26	22	28	23	19	24	20	17	20	17	14	12	12	12	12	12	12		

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

	0°	45°	90°
0°	13637	13637	13637
5°	13738	13653	13605
10°	13715	13617	13556
15°	13624	13549	13475
20°	13534	13457	13355
25°	13372	13280	13148
30°	13125	13056	12891
35°	12781	12694	12534
40°	12373	12294	12155
45°	12035	11950	11832
50°	11603	11529	11417
55°	11002	10856	10772
60°	10016	9728	9682
65°	8824	8455	8427
70°	7618	7302	7302
75°	6559	6466	6374
80°	5781	5850	5712
85°	4520	4933	4933



TEST NUMBER: P523853

CATALOG NUMBER: SQ4-PP3-100U-100D-92765-1D-UNV-STD-W-4 (2700K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	139.8	1.8
10°-20°	399.1	5.0
20°-30°	597.8	7.5
30°-40°	701.2	8.8
40°-50°	703.4	8.8
50°-60°	600.0	7.5
60°-70°	391.3	4.9
70°-80°	196.3	2.5
80°-90°	54.3	0.7
90°-100°	306.9	3.9
100°-110°	873.2	11.0
110°-120°	836.6	10.5
120°-130°	662.1	8.3
130°-140°	531.5	6.7
140°-150°	416.1	5.2
150°-160°	304.4	3.8
160°-170°	188.6	2.4
170°-180°	64.0	0.8
0°-30°	1136.6	14.3
0°-40°	1837.8	23.1
0°-60°	3141.2	39.4
0°-90°	3783.1	47.5
90°-120°	2016.7	25.3
90°-150°	3626.3	45.5
90°-180°	4183.0	52.5
0°-180°	7966.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1478	1478	1478	1478	1478	
5°	1483	1469	1474	1469	1469	141
15°	1426	1412	1418	1413	1411	402
25°	1314	1298	1304	1293	1292	604
35°	1135	1123	1127	1114	1113	709
45°	922	916	916	907	907	710
55°	684	682	675	671	670	608
65°	404	397	387	385	386	403
75°	184	184	181	180	179	200
85°	43	46	47	47	47	50
90°	0	0	0	0	0	3
95°	33	132	594	206	127	38
105°	136	206	890	1572	1494	144
115°	252	305	675	1429	1678	248
125°	356	395	644	1069	1278	319
135°	435	472	636	903	1020	336
145°	513	540	642	781	851	321
155°	586	600	657	706	735	271
165°	648	650	664	679	689	182
175°	679	675	672	668	663	64
180°	674	674	674	674	674	

TEST NUMBER: P523853

CATALOG NUMBER: SQ4-PP3-100U-100D-92765-1D-UNV-STD-W-4 (2700K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1478.1	1478.1	1478.1	1478.1	1478.1
2.5°	1487.4	1475.3	1478.1	1475.9	1469.8
5°	1483.3	1469.4	1474.2	1469.0	1469.0
7.5°	1473.2	1458.0	1462.8	1457.6	1457.4
10°	1463.9	1448.7	1453.5	1448.3	1447.0
12.5°	1450.4	1435.2	1441.1	1434.8	1434.6
15°	1426.3	1412.4	1418.5	1413.3	1410.7
17.5°	1399.1	1383.9	1391.3	1384.0	1383.0
20°	1378.4	1363.2	1370.6	1360.2	1360.2
22.5°	1353.5	1338.3	1346.8	1333.3	1333.3
25°	1313.6	1298.4	1304.5	1292.8	1291.6
27.5°	1266.2	1251.2	1257.6	1244.4	1244.2
30°	1232.0	1218.0	1225.5	1211.2	1210.0
32.5°	1194.7	1181.7	1187.2	1172.9	1171.6
35°	1134.8	1123.4	1127.0	1114.1	1112.8
37.5°	1071.9	1060.2	1064.3	1053.2	1052.7
40°	1027.3	1019.7	1020.8	1011.7	1009.2
42.5°	985.8	977.2	978.3	969.2	968.7
45°	922.4	916.0	915.9	906.8	906.8
47.5°	855.0	850.2	848.8	841.3	841.0
50°	808.4	804.6	803.2	796.7	795.4
52.5°	759.7	757.9	753.4	748.0	747.7
55°	684.0	681.5	674.9	671.0	669.7
57.5°	601.9	596.8	589.4	583.8	584.8
60°	542.8	537.7	527.2	524.7	524.7
62.5°	485.8	479.7	469.2	465.6	467.7
65°	404.2	396.6	387.3	384.8	386.0
67.5°	330.1	323.2	313.2	313.2	312.2
70°	282.4	278.6	270.7	270.7	270.7
72.5°	239.9	238.1	232.4	232.4	231.4
75°	184.0	184.0	181.4	180.0	178.8
77.5°	137.8	138.3	137.1	135.7	133.4
80°	108.8	111.4	110.1	108.8	107.5
82.5°	81.9	84.4	84.2	81.9	81.6
85°	42.7	46.5	46.6	46.6	46.6
87.5°	11.4	15.5	16.6	16.6	17.6
90°	0.0	0.0	0.0	0.0	0.0
92.5°	10.2	54.3	126.0	36.7	27.7
95°	33.3	132.2	594.1	205.6	126.8
97.5°	61.2	154.8	914.9	654.7	448.6
100°	80.7	168.3	984.6	997.3	768.2
102.5°	102.2	182.8	969.2	1276.6	1076.5
105°	135.7	205.8	889.8	1571.8	1494.2
107.5°	169.8	232.6	797.1	1655.0	1724.1
110°	193.3	252.2	743.9	1623.2	1778.4

TEST NUMBER: P523853

CATALOG NUMBER: SQ4-PP3-100U-100D-92765-1D-UNV-STD-W-4 (2700K)

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	215.9	271.7	708.0	1547.9	1769.2
115°	252.2	304.8	674.7	1429.4	1678.5
117.5°	284.2	333.6	655.0	1299.9	1563.8
120°	309.8	351.2	653.0	1225.9	1478.8
122.5°	330.3	371.6	647.9	1161.0	1395.8
125°	355.9	394.7	644.0	1068.7	1277.8
127.5°	383.8	420.2	642.0	1013.6	1185.9
130°	398.2	434.5	638.9	975.2	1125.4
132.5°	413.6	448.9	638.9	945.2	1083.4
135°	435.3	471.6	636.3	902.8	1020.4
137.5°	455.8	491.1	636.1	866.8	968.5
140°	471.2	507.5	635.1	837.0	934.7
142.5°	488.6	518.9	638.1	813.2	900.9
145°	513.4	539.7	641.5	781.3	851.4
147.5°	534.7	560.2	647.1	749.1	809.7
150°	553.1	570.6	649.1	738.5	781.0
152.5°	567.5	586.0	651.2	724.0	763.6
155°	586.4	600.2	656.8	706.1	734.9
157.5°	610.0	618.2	658.1	698.0	718.5
160°	622.3	628.5	663.2	691.8	709.3
162.5°	629.4	636.7	664.2	686.6	700.1
165°	647.9	650.4	664.5	678.8	688.8
167.5°	660.4	658.2	670.4	676.9	680.9
170°	664.5	663.3	668.3	669.7	674.7
172.5°	673.7	669.5	671.4	667.7	671.7
175°	678.6	674.8	672.2	668.2	663.2
177.5°	680.6	674.6	671.4	667.3	668.3
180°	673.5	673.5	673.5	673.5	673.5

(END OF REPORT)