

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: P523856

Luminaire Tested: **SQ4-PP3-100U-100D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/24/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P523856  
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 (4000K)  
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 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8479.1 lumens  
Efficiency: N/A  
Efficacy: 113.4 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

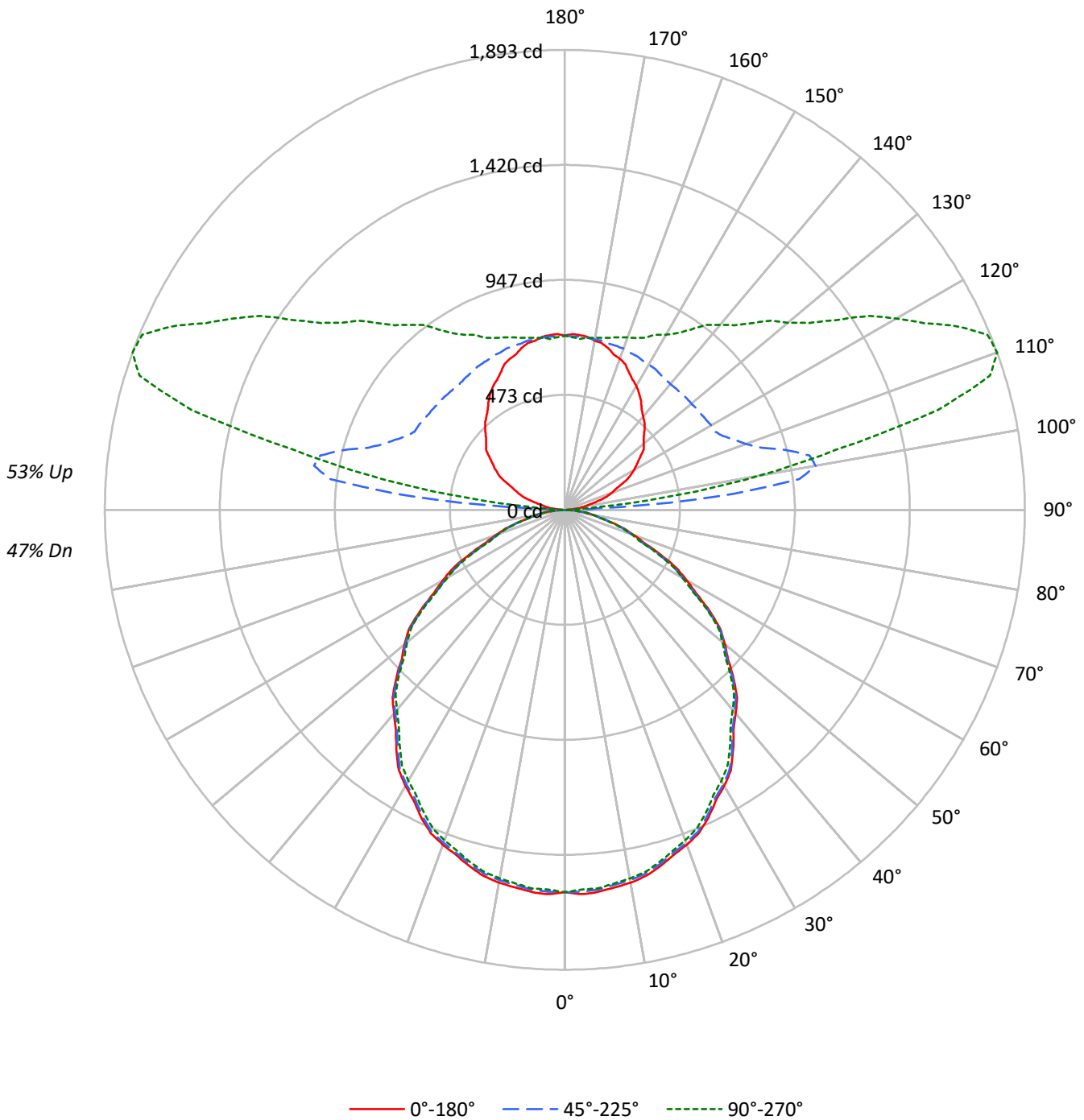
Input Watts (W): 74.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P523856

CATALOG NUMBER: SQ4-PP3-100U-100D-92765-1D-UNV-STD-W-4 (4000K)

### Luminous Intensity Polar Plot





TEST NUMBER: P523856

CATALOG NUMBER: SQ4-PP3-100U-100D-92765-1D-UNV-STD-W-4 (4000K)

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

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

	0°	45°	90°
0°	14515	14515	14515
5°	14621	14532	14481
10°	14596	14493	14428
15°	14500	14421	14342
20°	14403	14323	14214
25°	14233	14135	13994
30°	13969	13895	13720
35°	13604	13511	13340
40°	13169	13086	12936
45°	12809	12719	12594
50°	12350	12271	12152
55°	11710	11556	11466
60°	10660	10355	10304
65°	9392	9001	8970
70°	8109	7774	7774
75°	6980	6880	6784
80°	6153	6227	6078
85°	4817	5251	5251



TEST NUMBER: P523856

CATALOG NUMBER: SQ4-PP3-100U-100D-92765-1D-UNV-STD-W-4 (4000K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	148.8	1.8
10°-20°	424.8	5.0
20°-30°	636.2	7.5
30°-40°	746.3	8.8
40°-50°	748.6	8.8
50°-60°	638.6	7.5
60°-70°	416.5	4.9
70°-80°	209.0	2.5
80°-90°	57.8	0.7
90°-100°	326.6	3.9
100°-110°	929.4	11.0
110°-120°	890.4	10.5
120°-130°	704.7	8.3
130°-140°	565.7	6.7
140°-150°	442.8	5.2
150°-160°	324.0	3.8
160°-170°	200.7	2.4
170°-180°	68.1	0.8
0°-30°	1209.8	14.3
0°-40°	1956.0	23.1
0°-60°	3343.3	39.4
0°-90°	4026.5	47.5
90°-120°	2146.4	25.3
90°-150°	3859.7	45.5
90°-180°	4453.0	52.5
0°-180°	8479.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1573	1573	1573	1573	1573	
5°	1579	1564	1569	1564	1564	150
15°	1518	1503	1510	1504	1502	428
25°	1398	1382	1388	1376	1375	643
35°	1208	1196	1200	1186	1184	754
45°	982	975	975	965	965	756
55°	728	725	718	714	713	647
65°	430	422	412	410	411	429
75°	196	196	193	192	190	212
85°	46	50	50	50	50	53
90°	0	0	0	0	0	3
95°	35	141	632	219	135	40
105°	144	219	947	1673	1590	153
115°	268	324	718	1521	1786	264
125°	379	420	686	1138	1360	339
135°	463	502	677	961	1086	358
145°	546	574	683	832	906	341
155°	624	639	699	752	782	289
165°	690	692	707	722	733	194
175°	722	718	715	711	706	68
180°	717	717	717	717	717	

TEST NUMBER: P523856

CATALOG NUMBER: SQ4-PP3-100U-100D-92765-1D-UNV-STD-W-4 (4000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1573.2	1573.2	1573.2	1573.2	1573.2
2.5°	1583.1	1570.2	1573.2	1570.9	1564.4
5°	1578.7	1563.9	1569.1	1563.6	1563.6
7.5°	1568.0	1551.8	1556.9	1551.4	1551.2
10°	1558.0	1541.9	1547.0	1541.5	1540.1
12.5°	1543.7	1527.5	1533.8	1527.2	1526.9
15°	1518.1	1503.2	1509.8	1504.2	1501.5
17.5°	1489.1	1472.9	1480.8	1473.1	1472.0
20°	1467.0	1450.9	1458.8	1447.7	1447.7
22.5°	1440.6	1424.4	1433.4	1419.1	1419.1
25°	1398.1	1381.9	1388.5	1376.0	1374.7
27.5°	1347.6	1331.7	1338.5	1324.5	1324.2
30°	1311.2	1296.4	1304.3	1289.2	1287.8
32.5°	1271.5	1257.8	1263.5	1248.3	1247.0
35°	1207.8	1195.7	1199.6	1185.7	1184.4
37.5°	1140.8	1128.4	1132.8	1121.0	1120.4
40°	1093.4	1085.3	1086.5	1076.8	1074.1
42.5°	1049.3	1040.1	1041.3	1031.6	1031.1
45°	981.7	975.0	974.8	965.2	965.2
47.5°	910.0	904.9	903.4	895.4	895.1
50°	860.4	856.3	854.9	847.9	846.6
52.5°	808.5	806.6	801.9	796.1	795.8
55°	728.0	725.3	718.4	714.2	712.8
57.5°	640.6	635.2	627.4	621.3	622.4
60°	577.7	572.3	561.2	558.4	558.4
62.5°	517.1	510.6	499.4	495.6	497.7
65°	430.2	422.1	412.3	409.5	410.9
67.5°	351.3	344.0	333.4	333.4	332.3
70°	300.6	296.5	288.2	288.2	288.2
72.5°	255.4	253.5	247.4	247.3	246.3
75°	195.8	195.8	193.0	191.6	190.3
77.5°	146.7	147.2	145.9	144.4	142.0
80°	115.8	118.5	117.2	115.8	114.4
82.5°	87.1	89.8	89.6	87.1	86.9
85°	45.5	49.5	49.6	49.6	49.6
87.5°	12.1	16.4	17.6	17.7	18.8
90°	0.0	0.0	0.0	0.0	0.0
92.5°	10.9	57.8	134.1	39.0	29.4
95°	35.4	140.7	632.3	218.9	134.9
97.5°	65.1	164.8	973.8	696.8	477.5
100°	85.9	179.1	1047.9	1061.5	817.6
102.5°	108.7	194.6	1031.6	1358.7	1145.8
105°	144.4	219.1	947.1	1672.9	1590.3
107.5°	180.7	247.6	848.4	1761.5	1835.1
110°	205.8	268.4	791.7	1727.6	1892.8

TEST NUMBER: P523856

CATALOG NUMBER: SQ4-PP3-100U-100D-92765-1D-UNV-STD-W-4 (4000K)

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	229.8	289.2	753.6	1647.4	1883.0
115°	268.5	324.4	718.2	1521.4	1786.5
117.5°	302.5	355.0	697.2	1383.6	1664.4
120°	329.8	373.8	695.0	1304.8	1574.0
122.5°	351.6	395.6	689.5	1235.7	1485.7
125°	378.8	420.1	685.5	1137.5	1360.0
127.5°	408.5	447.2	683.3	1078.8	1262.2
130°	423.8	462.5	680.0	1037.9	1197.8
132.5°	440.2	477.7	680.0	1006.0	1153.1
135°	463.3	502.0	677.3	960.8	1086.1
137.5°	485.1	522.7	677.0	922.6	1030.8
140°	501.5	540.1	675.9	890.9	994.8
142.5°	520.0	552.3	679.2	865.5	958.8
145°	546.5	574.4	682.7	831.6	906.2
147.5°	569.1	596.3	688.7	797.3	861.8
150°	588.7	607.4	690.9	786.0	831.3
152.5°	604.0	623.7	693.1	770.6	812.7
155°	624.1	638.8	699.1	751.6	782.2
157.5°	649.2	658.0	700.4	742.9	764.8
160°	662.3	668.9	705.9	736.3	755.0
162.5°	669.9	677.6	707.0	730.8	745.1
165°	689.5	692.2	707.3	722.5	733.1
167.5°	702.9	700.5	713.5	720.4	724.7
170°	707.3	705.9	711.3	712.8	718.2
172.5°	717.1	712.5	714.6	710.6	714.9
175°	722.2	718.3	715.4	711.2	705.9
177.5°	724.4	718.0	714.6	710.3	711.3
180°	716.8	716.8	716.8	716.8	716.8

(END OF REPORT)