

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: P523936

Luminaire Tested: **SQ4-PP3-150U-050D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/24/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P523936  
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-PP3-150U-050D-92765-1D-UNV-STD-W-4 (5000K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

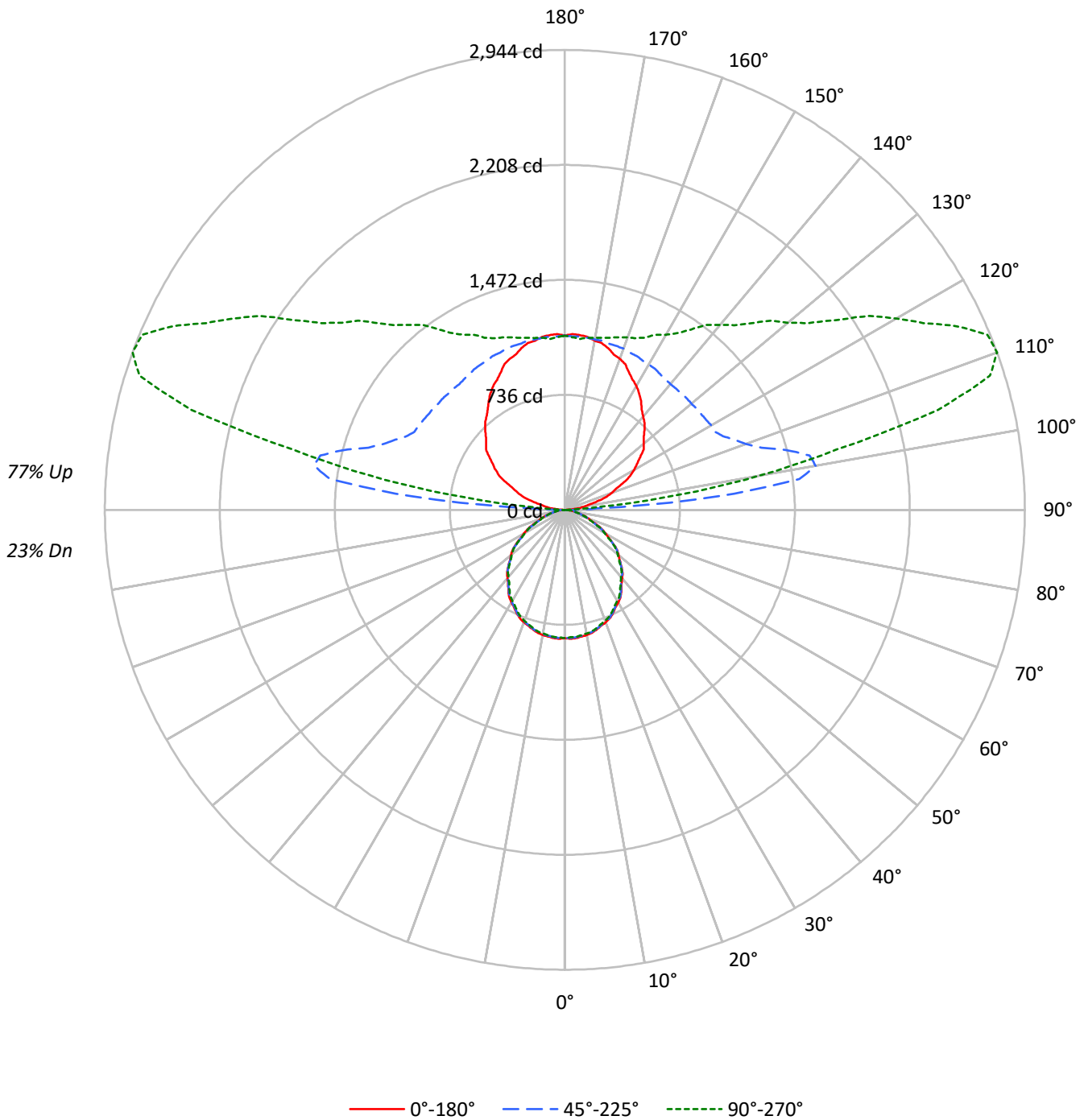
Lumens per Lamp: N/A  
Luminaire Lumens: 9025.3 lumens  
Efficiency: N/A  
Efficacy: 125.7 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 71.8  
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: P523936  
CATALOG NUMBER: SQ4-PP3-150U-050D-92765-1D-UNV-STD-W-4 (5000K)

### Luminous Intensity Polar Plot





TEST NUMBER: P523936

CATALOG NUMBER: SQ4-PP3-150U-050D-92765-1D-UNV-STD-W-4 (5000K)

**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	101	101	101	101	90	90	90	90	68	68	68	49	49	49	32	32	32	23
1	92	88	84	81	82	78	75	72	60	58	56	43	42	41	28	27	27	20
2	84	77	71	66	74	68	63	59	53	49	47	38	36	34	25	24	23	17
3	76	67	60	55	68	60	54	50	46	42	39	34	31	29	22	21	19	14
4	70	60	52	46	62	53	47	42	41	37	33	30	27	25	20	18	17	12
5	64	53	45	39	57	47	41	36	37	32	29	27	24	21	18	16	15	11
6	59	47	40	34	52	42	36	31	33	28	25	24	21	19	16	14	13	9
7	54	42	35	30	48	38	32	27	30	25	22	22	19	16	15	13	11	8
8	50	38	31	26	44	34	28	24	27	22	19	20	17	15	13	11	10	7
9	47	35	28	23	41	31	25	21	25	20	17	18	15	13	12	10	9	7
10	43	32	25	20	38	29	23	19	23	18	15	17	14	12	11	10	8	6

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

	0°	45°	90°
0°	7575	7575	7575
5°	7630	7583	7556
10°	7618	7563	7529
15°	7567	7526	7485
20°	7517	7475	7418
25°	7427	7376	7303
30°	7290	7252	7159
35°	7099	7051	6962
40°	6872	6829	6751
45°	6684	6637	6572
50°	6445	6403	6341
55°	6111	6030	5984
60°	5563	5403	5377
65°	4901	4696	4681
70°	4232	4057	4057
75°	3643	3590	3540
80°	3209	3252	3172
85°	2509	2742	2742



TEST NUMBER: P523936

CATALOG NUMBER: SQ4-PP3-150U-050D-92765-1D-UNV-STD-W-4 (5000K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.6	0.9
10°-20°	221.7	2.5
20°-30°	332.0	3.7
30°-40°	389.5	4.3
40°-50°	390.7	4.3
50°-60°	333.3	3.7
60°-70°	217.3	2.4
70°-80°	109.0	1.2
80°-90°	30.2	0.3
90°-100°	507.9	5.6
100°-110°	1445.2	16.0
110°-120°	1384.7	15.3
120°-130°	1095.9	12.1
130°-140°	879.7	9.7
140°-150°	688.7	7.6
150°-160°	503.9	5.6
160°-170°	312.1	3.5
170°-180°	105.9	1.2
0°-30°	631.3	7.0
0°-40°	1020.8	11.3
0°-60°	1744.7	19.3
0°-90°	2101.3	23.3
90°-120°	3337.9	37.0
90°-150°	6002.1	66.5
90°-180°	6924.0	76.7
0°-180°	9025.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	821	821	821	821	821	
5°	824	816	819	816	816	78
15°	792	784	788	785	784	223
25°	730	721	725	718	717	336
35°	630	624	626	619	618	394
45°	512	509	509	504	504	394
55°	380	378	375	373	372	338
65°	224	220	215	214	214	224
75°	102	102	101	100	99	111
85°	24	26	26	26	26	28
90°	0	0	0	0	0	3
95°	55	219	983	340	210	63
105°	225	341	1473	2602	2473	238
115°	418	504	1117	2366	2778	411
125°	589	653	1066	1769	2115	527
135°	720	781	1053	1494	1689	556
145°	850	893	1062	1293	1409	531
155°	971	993	1087	1169	1216	449
165°	1072	1076	1100	1124	1140	302
175°	1123	1117	1113	1106	1098	106
180°	1115	1115	1115	1115	1115	

TEST NUMBER: P523936

CATALOG NUMBER: SQ4-PP3-150U-050D-92765-1D-UNV-STD-W-4 (5000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	821.0	821.0	821.0	821.0	821.0
2.5°	826.2	819.4	821.0	819.7	816.4
5°	823.8	816.1	818.8	815.9	815.9
7.5°	818.2	809.8	812.5	809.6	809.5
10°	813.1	804.6	807.3	804.4	803.7
12.5°	805.6	797.1	800.4	796.9	796.8
15°	792.2	784.5	787.9	785.0	783.6
17.5°	777.1	768.6	772.8	768.7	768.2
20°	765.6	757.1	761.3	755.5	755.5
22.5°	751.8	743.3	748.0	740.5	740.5
25°	729.6	721.1	724.6	718.1	717.4
27.5°	703.3	695.0	698.5	691.2	691.0
30°	684.3	676.5	680.7	672.7	672.0
32.5°	663.5	656.4	659.4	651.4	650.7
35°	630.3	624.0	626.0	618.8	618.1
37.5°	595.3	588.9	591.2	585.0	584.7
40°	570.6	566.4	567.0	561.9	560.5
42.5°	547.6	542.8	543.4	538.3	538.1
45°	512.3	508.8	508.7	503.7	503.7
47.5°	474.9	472.2	471.4	467.3	467.1
50°	449.0	446.9	446.1	442.5	441.8
52.5°	421.9	420.9	418.5	415.4	415.3
55°	379.9	378.5	374.9	372.7	372.0
57.5°	334.3	331.5	327.4	324.2	324.8
60°	301.5	298.7	292.8	291.4	291.4
62.5°	269.8	266.4	260.6	258.6	259.7
65°	224.5	220.3	215.1	213.7	214.4
67.5°	183.3	179.5	174.0	174.0	173.4
70°	156.9	154.7	150.4	150.4	150.4
72.5°	133.3	132.3	129.1	129.1	128.5
75°	102.2	102.2	100.7	100.0	99.3
77.5°	76.6	76.8	76.1	75.4	74.1
80°	60.4	61.8	61.2	60.4	59.7
82.5°	45.5	46.9	46.8	45.5	45.3
85°	23.7	25.9	25.9	25.9	25.9
87.5°	6.3	8.6	9.2	9.2	9.8
90°	0.0	0.0	0.0	0.0	0.0
92.5°	17.0	89.9	208.5	60.7	45.8
95°	55.1	218.8	983.3	340.3	209.8
97.5°	101.3	256.3	1514.4	1083.6	742.6
100°	133.5	278.6	1629.6	1650.7	1271.5
102.5°	169.1	302.6	1604.2	2112.9	1781.8
105°	224.6	340.7	1472.8	2601.5	2473.1
107.5°	281.0	385.0	1319.4	2739.3	2853.7
110°	320.0	417.4	1231.2	2686.6	2943.5

TEST NUMBER: P523936

CATALOG NUMBER: SQ4-PP3-150U-050D-92765-1D-UNV-STD-W-4 (5000K)

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	357.3	449.7	1171.9	2561.9	2928.3
115°	417.5	504.5	1116.8	2365.9	2778.2
117.5°	470.5	552.1	1084.2	2151.6	2588.3
120°	512.8	581.2	1080.8	2029.1	2447.6
122.5°	546.7	615.1	1072.3	1921.6	2310.3
125°	589.1	653.4	1065.9	1768.9	2114.9
127.5°	635.3	695.4	1062.5	1677.6	1962.8
130°	659.1	719.1	1057.5	1614.1	1862.7
132.5°	684.5	742.9	1057.5	1564.5	1793.2
135°	720.5	780.6	1053.2	1494.2	1689.0
137.5°	754.4	812.9	1052.8	1434.7	1602.9
140°	779.9	839.9	1051.1	1385.4	1547.0
142.5°	808.7	858.8	1056.2	1346.0	1491.0
145°	849.8	893.3	1061.7	1293.2	1409.2
147.5°	885.0	927.2	1071.0	1239.9	1340.2
150°	915.5	944.5	1074.4	1222.2	1292.7
152.5°	939.2	969.9	1077.8	1198.4	1263.9
155°	970.6	993.4	1087.1	1168.7	1216.4
157.5°	1009.6	1023.2	1089.2	1155.3	1189.3
160°	1029.9	1040.3	1097.7	1145.0	1174.0
162.5°	1041.8	1053.8	1099.4	1136.4	1158.8
165°	1072.3	1076.4	1099.8	1123.5	1140.1
167.5°	1093.1	1089.3	1109.6	1120.3	1127.0
170°	1099.8	1097.8	1106.2	1108.5	1116.8
172.5°	1115.1	1108.1	1111.3	1105.1	1111.7
175°	1123.2	1116.9	1112.6	1106.0	1097.7
177.5°	1126.5	1116.6	1111.3	1104.5	1106.2
180°	1114.7	1114.7	1114.7	1114.7	1114.7

(END OF REPORT)