

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: P523910

Luminaire Tested: **SQ4-PP3-125U-100D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523910
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-PP3-125U-100D-92765-1D-UNV-STD-W-4 (5000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1250 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: 9882.2 lumens
Efficiency: N/A
Efficacy: 118.1 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

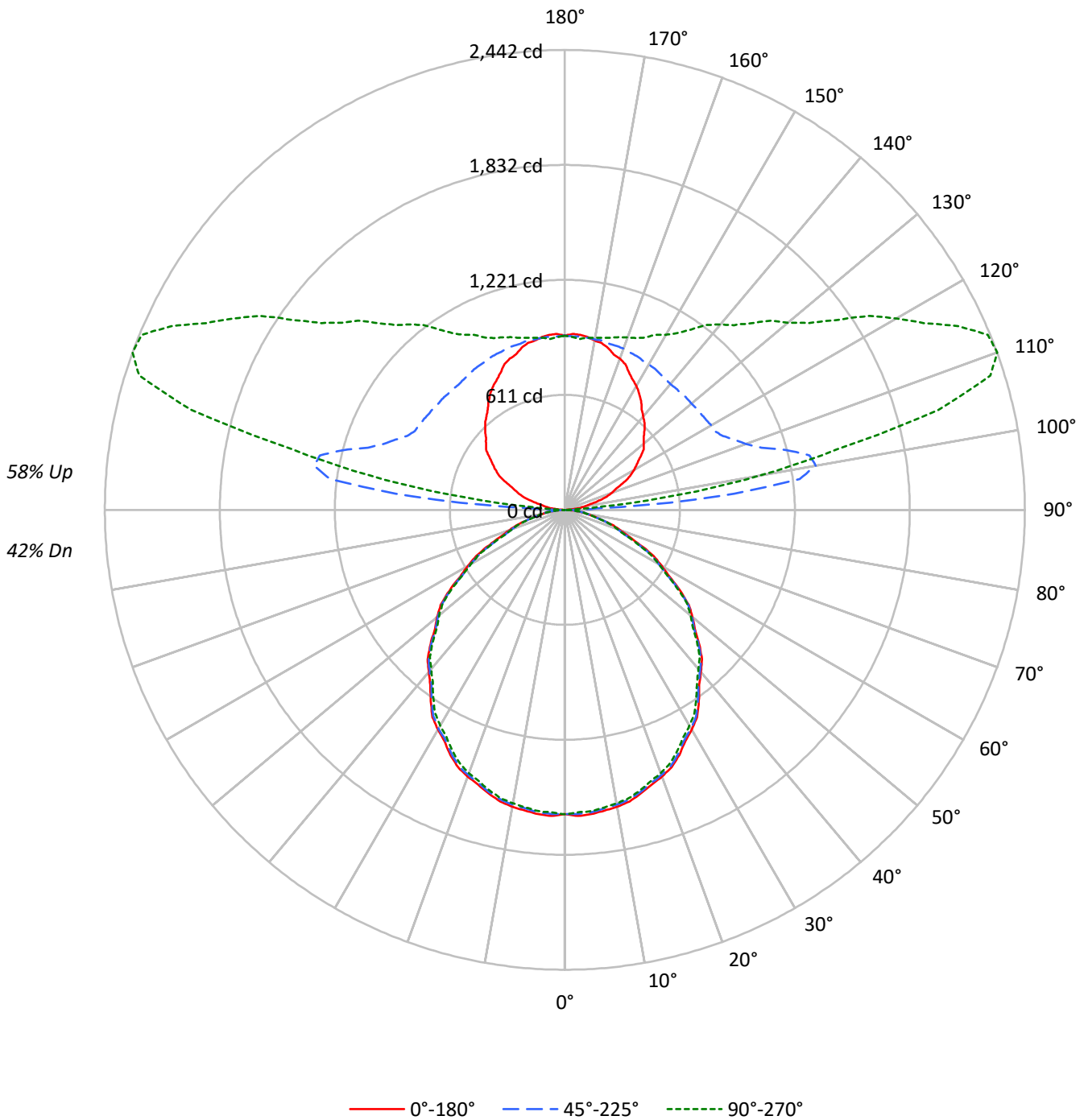
Input Watts (W): 83.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P523910

CATALOG NUMBER: SQ4-PP3-125U-100D-92765-1D-UNV-STD-W-4 (5000K)

Luminous Intensity Polar Plot





TEST NUMBER: P523910

CATALOG NUMBER: SQ4-PP3-125U-100D-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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	49	49	49	42
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	41	36
2	88	80	74	69	80	74	69	64	61	57	54	49	47	44	38	37	35	30
3	80	71	64	58	73	65	59	54	54	49	46	44	40	38	34	32	30	26
4	73	63	55	49	67	58	51	46	48	43	39	39	35	32	30	28	26	22
5	67	56	48	42	61	51	44	39	43	38	33	35	31	28	27	25	23	19
6	62	50	42	36	56	46	39	34	38	33	29	31	28	24	25	22	20	17
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	23	20	18	15
8	53	41	33	28	48	38	31	26	32	26	23	26	22	19	21	18	16	13
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12
10	46	34	27	22	42	32	25	21	27	22	18	22	18	16	18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14912	14912	14912
5°	15021	14929	14878
10°	14996	14890	14824
15°	14897	14816	14734
20°	14798	14715	14604
25°	14623	14522	14377
30°	14351	14277	14096
35°	13976	13881	13705
40°	13529	13443	13291
45°	13160	13067	12938
50°	12687	12607	12485
55°	12030	11871	11781
60°	10952	10638	10586
65°	9649	9245	9215
70°	8330	7987	7987
75°	7169	7069	6969
80°	6323	6397	6248
85°	4944	5399	5399



TEST NUMBER: P523910

CATALOG NUMBER: SQ4-PP3-125U-100D-92765-1D-UNV-STD-W-4 (5000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.8	1.5
10°-20°	436.4	4.4
20°-30°	653.7	6.6
30°-40°	766.7	7.8
40°-50°	769.1	7.8
50°-60°	656.1	6.6
60°-70°	427.9	4.3
70°-80°	214.7	2.2
80°-90°	59.4	0.6
90°-100°	421.5	4.3
100°-110°	1199.2	12.1
110°-120°	1149.0	11.6
120°-130°	909.4	9.2
130°-140°	729.9	7.4
140°-150°	571.4	5.8
150°-160°	418.1	4.2
160°-170°	259.0	2.6
170°-180°	87.9	0.9
0°-30°	1242.9	12.6
0°-40°	2009.6	20.3
0°-60°	3434.8	34.8
0°-90°	4136.8	41.9
90°-120°	2769.7	28.0
90°-150°	4980.4	50.4
90°-180°	5745.0	58.1
0°-180°	9882.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1616	1616	1616	1616	1616	
5°	1622	1607	1612	1606	1606	154
15°	1560	1544	1551	1545	1543	440
25°	1436	1420	1426	1414	1412	660
35°	1241	1228	1232	1218	1217	775
45°	1009	1002	1002	992	992	777
55°	748	745	738	734	732	665
65°	442	434	424	421	422	441
75°	201	201	198	197	196	218
85°	47	51	51	51	51	55
90°	0	0	0	0	0	4
95°	46	182	816	282	174	52
105°	186	283	1222	2159	2052	197
115°	346	419	927	1963	2305	341
125°	489	542	884	1468	1755	438
135°	598	648	874	1240	1402	461
145°	705	741	881	1073	1169	440
155°	805	824	902	970	1009	372
165°	890	893	913	932	946	250
175°	932	927	923	918	911	88
180°	925	925	925	925	925	

TEST NUMBER: P523910

CATALOG NUMBER: SQ4-PP3-125U-100D-92765-1D-UNV-STD-W-4 (5000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1616.3	1616.3	1616.3	1616.3	1616.3
2.5°	1626.5	1613.2	1616.3	1613.9	1607.2
5°	1621.9	1606.7	1612.0	1606.4	1606.4
7.5°	1610.9	1594.3	1599.6	1593.9	1593.6
10°	1600.7	1584.1	1589.4	1583.7	1582.3
12.5°	1586.0	1569.3	1575.8	1569.0	1568.7
15°	1559.6	1544.4	1551.1	1545.4	1542.6
17.5°	1529.9	1513.2	1521.4	1513.4	1512.3
20°	1507.2	1490.6	1498.7	1487.4	1487.4
22.5°	1480.0	1463.4	1472.6	1457.9	1457.9
25°	1436.4	1419.8	1426.5	1413.7	1412.3
27.5°	1384.5	1368.2	1375.2	1360.7	1360.5
30°	1347.1	1331.9	1340.1	1324.4	1323.1
32.5°	1306.3	1292.2	1298.1	1282.5	1281.1
35°	1240.9	1228.4	1232.4	1218.2	1216.8
37.5°	1172.1	1159.3	1163.8	1151.6	1151.1
40°	1123.3	1115.0	1116.2	1106.3	1103.5
42.5°	1078.0	1068.6	1069.8	1059.8	1059.3
45°	1008.6	1001.7	1001.5	991.6	991.6
47.5°	934.9	929.7	928.1	919.9	919.6
50°	883.9	879.8	878.3	871.1	869.8
52.5°	830.7	828.7	823.9	817.9	817.6
55°	747.9	745.2	738.0	733.7	732.4
57.5°	658.1	652.6	644.5	638.3	639.4
60°	593.5	588.0	576.5	573.7	573.7
62.5°	531.2	524.6	513.1	509.2	511.4
65°	442.0	433.7	423.5	420.7	422.1
67.5°	360.9	353.5	342.5	342.5	341.4
70°	308.8	304.7	296.1	296.1	296.1
72.5°	262.3	260.4	254.1	254.1	253.0
75°	201.1	201.1	198.3	196.9	195.5
77.5°	150.7	151.3	149.9	148.4	145.9
80°	119.0	121.8	120.4	119.0	117.6
82.5°	89.5	92.3	92.1	89.5	89.2
85°	46.7	50.9	51.0	51.0	51.0
87.5°	12.5	16.9	18.1	18.2	19.3
90°	0.0	0.0	0.0	0.0	0.0
92.5°	14.1	74.6	173.0	50.4	38.0
95°	45.7	181.5	815.9	282.4	174.1
97.5°	84.1	212.7	1256.6	899.2	616.2
100°	110.8	231.1	1352.2	1369.7	1055.1
102.5°	140.3	251.0	1331.1	1753.2	1478.5
105°	186.4	282.7	1222.1	2158.7	2052.1
107.5°	233.2	319.5	1094.8	2273.0	2367.9
110°	265.5	346.3	1021.6	2229.2	2442.4

TEST NUMBER: P523910

CATALOG NUMBER: SQ4-PP3-125U-100D-92765-1D-UNV-STD-W-4 (5000K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	296.5	373.2	972.4	2125.8	2429.8
115°	346.4	418.6	926.7	1963.1	2305.3
117.5°	390.4	458.1	899.6	1785.3	2147.7
120°	425.5	482.3	896.8	1683.7	2031.0
122.5°	453.7	510.4	889.8	1594.5	1917.0
125°	488.8	542.1	884.5	1467.8	1754.9
127.5°	527.2	577.0	881.7	1392.1	1628.7
130°	546.9	596.7	877.5	1339.3	1545.7
132.5°	568.0	616.5	877.5	1298.2	1488.0
135°	597.9	647.7	873.9	1239.8	1401.5
137.5°	626.0	674.5	873.6	1190.5	1330.1
140°	647.1	697.0	872.2	1149.5	1283.6
142.5°	671.0	712.6	876.4	1116.9	1237.2
145°	705.1	741.2	881.0	1073.1	1169.4
147.5°	734.3	769.4	888.7	1028.8	1112.0
150°	759.6	783.7	891.5	1014.2	1072.6
152.5°	779.3	804.8	894.3	994.4	1048.7
155°	805.4	824.3	902.1	969.8	1009.3
157.5°	837.7	849.1	903.8	958.6	986.8
160°	854.6	863.2	910.9	950.1	974.2
162.5°	864.4	874.4	912.3	942.9	961.5
165°	889.8	893.2	912.6	932.3	946.0
167.5°	907.0	903.9	920.7	929.6	935.1
170°	912.6	910.9	917.9	919.8	926.7
172.5°	925.3	919.4	922.1	917.0	922.5
175°	932.0	926.8	923.2	917.7	910.9
177.5°	934.8	926.5	922.1	916.5	917.9
180°	924.9	924.9	924.9	924.9	924.9

(END OF REPORT)