

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P522503

Luminaire Tested: **SQW-F-025U-100D-93050-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522503
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-53,
Test Lab: INNOVATION CENTER
Issue Date: 5/11/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQW-F-025U-100D-93050-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

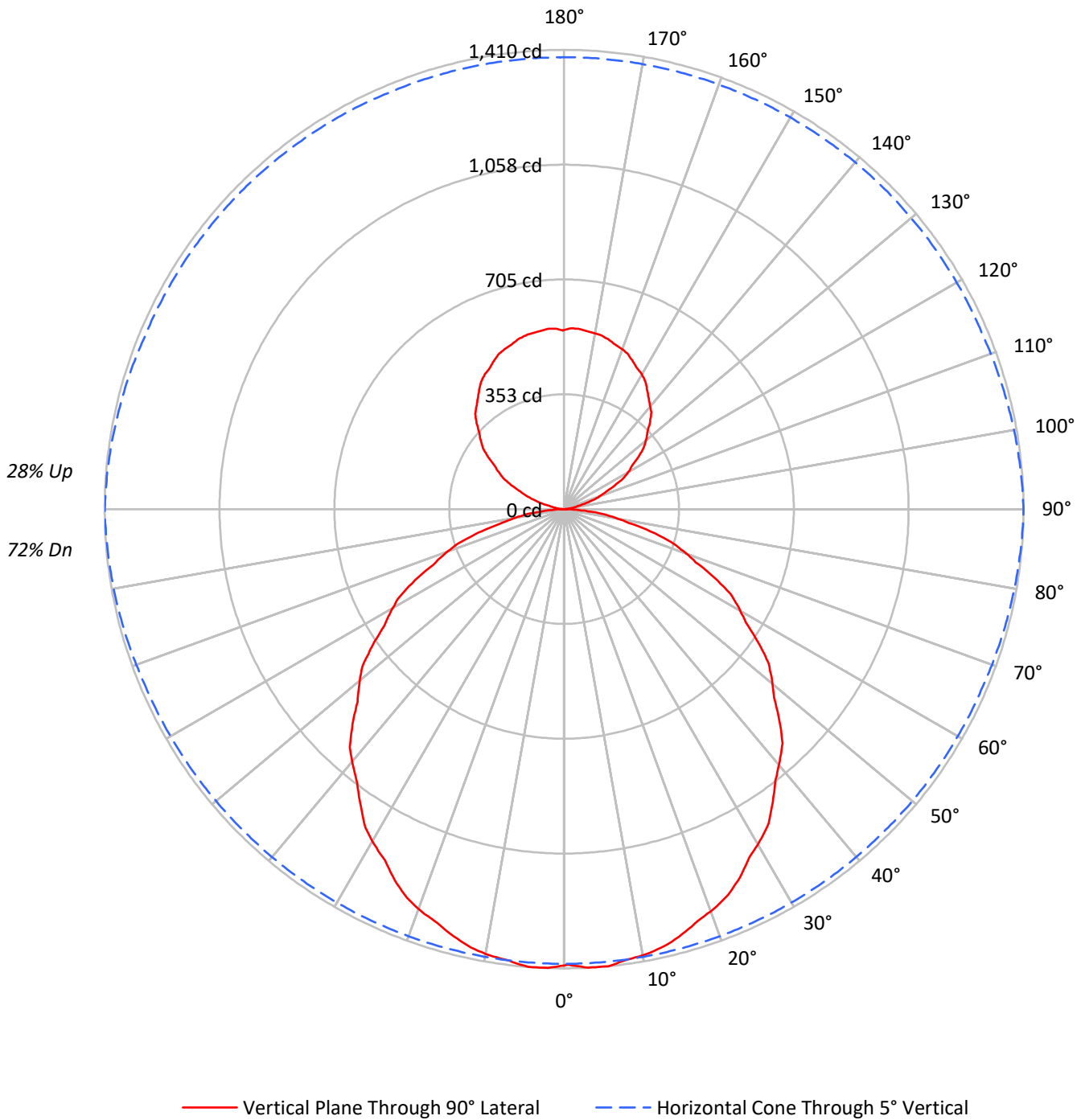
Lumens per Lamp: N/A
Luminaire Lumens: 5436.0 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 57.9
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: P522503
CATALOG NUMBER: SQW-F-025U-100D-93050-1D-UNV-STD-W-4 (3000K)

Luminous Intensity Polar Plot





TEST NUMBER: P522503

CATALOG NUMBER: SQW-F-025U-100D-93050-1D-UNV-STD-W-4 (3000K)

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	112	112	112	112	106	106	106	106	96	96	96	85	85	85	76	76	76	72
1	103	98	94	90	97	93	89	86	84	81	78	75	73	71	67	66	64	60
2	93	85	79	73	88	81	75	70	73	69	65	66	62	59	59	56	54	50
3	85	75	67	61	80	71	64	59	64	59	54	58	53	50	52	48	45	42
4	78	66	58	52	73	63	56	50	57	51	46	52	47	42	46	42	39	36
5	71	59	50	44	67	56	48	43	51	45	40	46	41	37	42	37	34	31
6	66	53	44	38	62	51	43	37	46	39	35	42	36	32	38	33	30	27
7	61	48	40	34	57	46	38	33	42	35	31	38	33	28	34	30	26	24
8	57	44	35	30	53	42	34	29	38	32	27	35	29	25	32	27	24	21
9	53	40	32	27	50	38	31	26	35	29	24	32	27	23	29	25	21	19
10	49	37	29	24	47	35	28	23	32	26	22	30	24	21	27	23	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	22591	22591	22591
5°	22631	22853	22486
10°	22586	22779	22312
15°	22601	22651	22141
20°	22405	22524	21816
25°	22165	22322	21465
30°	21934	22061	21075
35°	21680	21739	20714
40°	21385	21467	20289
45°	20993	21151	19806
50°	20580	20778	19248
55°	19969	20358	18615
60°	19391	19898	17870
65°	18667	19343	16982
70°	17693	18387	15701
75°	16463	17137	13893
80°	14784	14598	11492
85°	11449	11634	7262



TEST NUMBER: P522503

CATALOG NUMBER: SQW-F-025U-100D-93050-1D-UNV-STD-W-4 (3000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.4	2.4
10°-20°	378.2	7.0
20°-30°	568.9	10.5
30°-40°	679.7	12.5
40°-50°	698.8	12.9
50°-60°	629.1	11.6
60°-70°	479.0	8.8
70°-80°	273.1	5.0
80°-90°	71.7	1.3
90°-100°	13.9	0.3
100°-110°	61.5	1.1
110°-120°	176.6	3.2
120°-130°	269.0	4.9
130°-140°	292.0	5.4
140°-150°	279.3	5.1
150°-160°	230.1	4.2
160°-170°	150.6	2.8
170°-180°	52.1	1.0
0°-30°	1079.5	19.9
0°-40°	1759.2	32.4
0°-60°	3087.1	56.8
0°-90°	3911.0	71.9
90°-120°	251.9	4.6
90°-150°	1092.3	20.1
90°-180°	1525.0	28.1
0°-180°	5436.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1399	1399	1399	1399	1399	
5°	1396	1394	1410	1390	1387	133
15°	1352	1352	1355	1335	1325	381
25°	1244	1255	1253	1226	1205	573
35°	1100	1113	1103	1075	1051	687
45°	919	926	926	891	867	708
55°	709	725	723	687	661	637
65°	489	501	506	465	444	483
75°	264	272	275	242	223	279
85°	62	67	63	52	39	73
90°	0	0	0	0	0	2
95°	2	3	10	22	21	3
105°	14	37	71	49	52	16
115°	132	348	178	83	94	183
125°	526	458	284	141	120	462
135°	580	525	376	233	186	448
145°	607	565	449	332	283	380
155°	613	588	503	416	379	284
165°	600	585	539	484	461	170
175°	565	567	555	531	518	55
180°	549	549	549	549	549	



TEST NUMBER: P522503

CATALOG NUMBER: SQW-F-025U-100D-93050-1D-UNV-STD-W-4 (3000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1399.2	1399.2	1399.2	1399.2	1399.2	1399.2	1399.2	1399.2	1399.2
2.5°	1397.6	1400.7	1399.2	1397.1	1409.4	1395.6	1397.6	1395.9	1388.2
5°	1396.3	1395.3	1394.3	1395.6	1410.0	1391.8	1390.4	1387.4	1387.4
7.5°	1391.0	1390.0	1388.8	1384.8	1396.5	1378.4	1379.0	1376.0	1371.9
10°	1377.6	1380.5	1378.6	1376.9	1389.4	1368.3	1368.8	1365.7	1360.9
12.5°	1371.3	1371.1	1370.0	1364.3	1376.1	1354.9	1354.7	1350.9	1347.6
15°	1352.1	1351.1	1352.1	1342.6	1355.1	1335.9	1335.4	1327.5	1324.6
17.5°	1324.4	1326.0	1327.4	1317.6	1329.0	1306.1	1305.8	1296.5	1294.8
20°	1304.0	1304.0	1310.9	1300.3	1310.9	1288.8	1289.3	1270.6	1269.7
22.5°	1279.7	1281.2	1288.9	1278.3	1287.3	1264.5	1263.4	1247.8	1243.8
25°	1244.2	1245.1	1255.0	1242.5	1253.0	1229.0	1226.5	1205.9	1204.9
27.5°	1205.5	1205.1	1216.9	1202.4	1210.8	1189.5	1186.5	1164.7	1163.3
30°	1176.5	1174.6	1190.2	1175.7	1183.3	1161.3	1159.8	1133.2	1130.4
32.5°	1145.9	1144.7	1158.8	1146.6	1151.9	1131.4	1123.7	1101.9	1100.5
35°	1099.9	1096.1	1112.7	1100.0	1102.9	1083.7	1075.4	1052.8	1050.9
37.5°	1047.5	1045.8	1057.9	1050.0	1054.6	1034.5	1020.7	999.0	997.9
40°	1014.6	1009.8	1023.4	1014.7	1018.5	998.3	986.1	964.5	962.6
42.5°	974.5	974.3	985.7	978.6	983.2	962.3	946.9	926.0	923.3
45°	919.4	916.5	926.3	924.3	926.3	904.2	890.9	867.4	867.4
47.5°	858.6	856.6	869.7	864.5	867.2	848.0	830.9	809.8	806.4
50°	819.3	817.4	828.1	825.2	827.2	808.0	790.9	768.2	766.3
52.5°	778.5	776.6	788.1	784.4	785.6	768.7	750.0	729.7	726.3
55°	709.4	714.2	725.1	724.1	723.2	705.9	686.8	666.1	661.3
57.5°	650.0	651.9	659.6	661.1	657.8	646.5	623.3	603.1	598.1
60°	600.5	606.3	617.2	617.2	616.2	601.8	577.0	559.2	553.4
62.5°	555.0	561.5	570.9	573.2	572.2	554.8	533.8	516.7	509.4
65°	488.6	493.4	501.4	506.3	506.3	487.1	465.1	449.3	444.5
67.5°	419.6	425.3	432.7	438.5	435.9	418.0	399.0	384.6	376.6
70°	374.8	380.6	385.6	391.5	389.5	373.2	354.2	338.4	332.6
72.5°	329.3	335.8	340.1	345.1	342.4	326.1	309.5	295.2	287.9
75°	263.9	265.9	271.8	275.7	274.7	258.4	242.4	230.4	222.7
77.5°	199.8	200.5	205.5	207.1	202.5	192.2	179.2	169.8	162.1
80°	159.0	159.0	163.9	164.7	157.0	151.2	138.4	131.3	123.6
82.5°	117.4	118.1	124.6	124.7	118.5	112.0	103.0	95.3	90.7
85°	61.8	62.8	66.7	69.5	62.8	59.0	52.0	44.0	39.2
87.5°	16.5	17.3	22.8	25.8	19.6	19.6	12.6	8.6	7.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.4	0.4	0.8	1.2	2.0	7.6	8.6	7.8	7.4
95°	2.0	2.0	3.1	9.7	9.7	15.7	21.5	21.0	21.0
97.5°	4.6	5.1	7.2	29.6	22.1	21.5	30.7	33.8	34.1
100°	6.6	7.1	11.2	48.2	32.7	27.7	32.7	39.9	41.4
102.5°	9.1	10.0	17.8	76.1	46.2	33.2	38.5	43.6	45.1
105°	13.8	15.3	37.3	127.6	70.6	44.1	48.6	51.1	51.6
107.5°	20.8	26.4	102.2	179.4	100.1	58.3	61.0	62.7	63.3
110°	28.1	40.1	177.4	210.7	122.2	69.2	67.5	72.1	71.1



TEST NUMBER: P522503

CATALOG NUMBER: SQW-F-025U-100D-93050-1D-UNV-STD-W-4 (3000K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	47.3	82.5	260.5	236.4	144.3	82.1	73.6	81.1	81.7
115°	132.4	227.4	348.2	272.9	177.9	104.4	83.3	90.6	93.6
117.5°	332.4	395.5	394.4	306.8	210.3	130.8	95.0	98.5	101.9
120°	446.9	456.4	417.8	329.6	231.1	149.6	104.8	103.4	106.4
122.5°	489.5	481.8	435.4	349.7	252.4	169.3	117.5	108.7	111.3
125°	526.2	511.2	458.2	378.3	283.8	198.3	140.6	120.2	119.7
127.5°	546.5	530.8	480.5	403.1	312.6	228.4	166.9	136.4	131.8
130°	556.3	541.8	496.0	418.4	331.9	248.9	186.1	150.7	143.7
132.5°	568.2	552.5	507.0	434.0	350.3	268.1	205.4	167.8	159.6
135°	579.9	565.4	525.1	454.3	376.3	296.3	233.2	196.1	185.6
137.5°	590.3	577.0	541.7	470.4	399.9	324.2	262.6	226.5	213.7
140°	597.2	582.7	548.7	482.7	414.2	341.7	282.3	246.2	236.2
142.5°	599.7	590.8	556.0	493.0	430.1	358.4	301.9	264.7	255.5
145°	607.0	601.0	565.0	505.4	449.0	383.5	331.9	293.3	283.3
147.5°	611.7	602.7	573.3	518.9	467.4	405.9	359.1	322.0	312.7
150°	612.1	605.1	579.9	527.1	479.6	422.1	375.8	340.9	332.4
152.5°	615.3	606.7	583.1	534.1	488.6	435.9	392.6	360.1	350.8
155°	613.1	607.1	588.0	543.1	502.6	453.6	416.2	387.4	379.4
157.5°	613.1	605.7	588.6	550.1	516.1	473.1	438.3	411.7	405.7
160°	609.0	606.0	589.1	555.1	523.1	484.1	453.0	428.8	420.8
162.5°	607.4	602.4	589.9	558.4	529.2	493.0	465.7	442.8	436.8
165°	600.3	595.8	585.0	559.9	538.9	508.9	484.2	463.7	460.7
167.5°	592.2	588.7	581.6	562.4	545.4	520.9	500.1	483.5	479.4
170°	586.5	581.0	578.3	563.7	548.7	528.2	510.3	495.4	490.9
172.5°	576.7	576.0	573.8	560.5	551.5	534.6	519.7	506.1	503.2
175°	565.0	565.0	566.6	558.3	555.3	541.3	530.8	522.5	518.0
177.5°	551.5	551.9	555.2	554.8	555.2	547.2	544.2	536.4	535.6
180°	548.7	548.7	548.7	548.7	548.7	548.7	548.7	548.7	548.7

(END OF REPORT)