

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: P522528

Luminaire Tested: **SQW-F-050U-100D-93050-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522528
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-050U-100D-93050-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

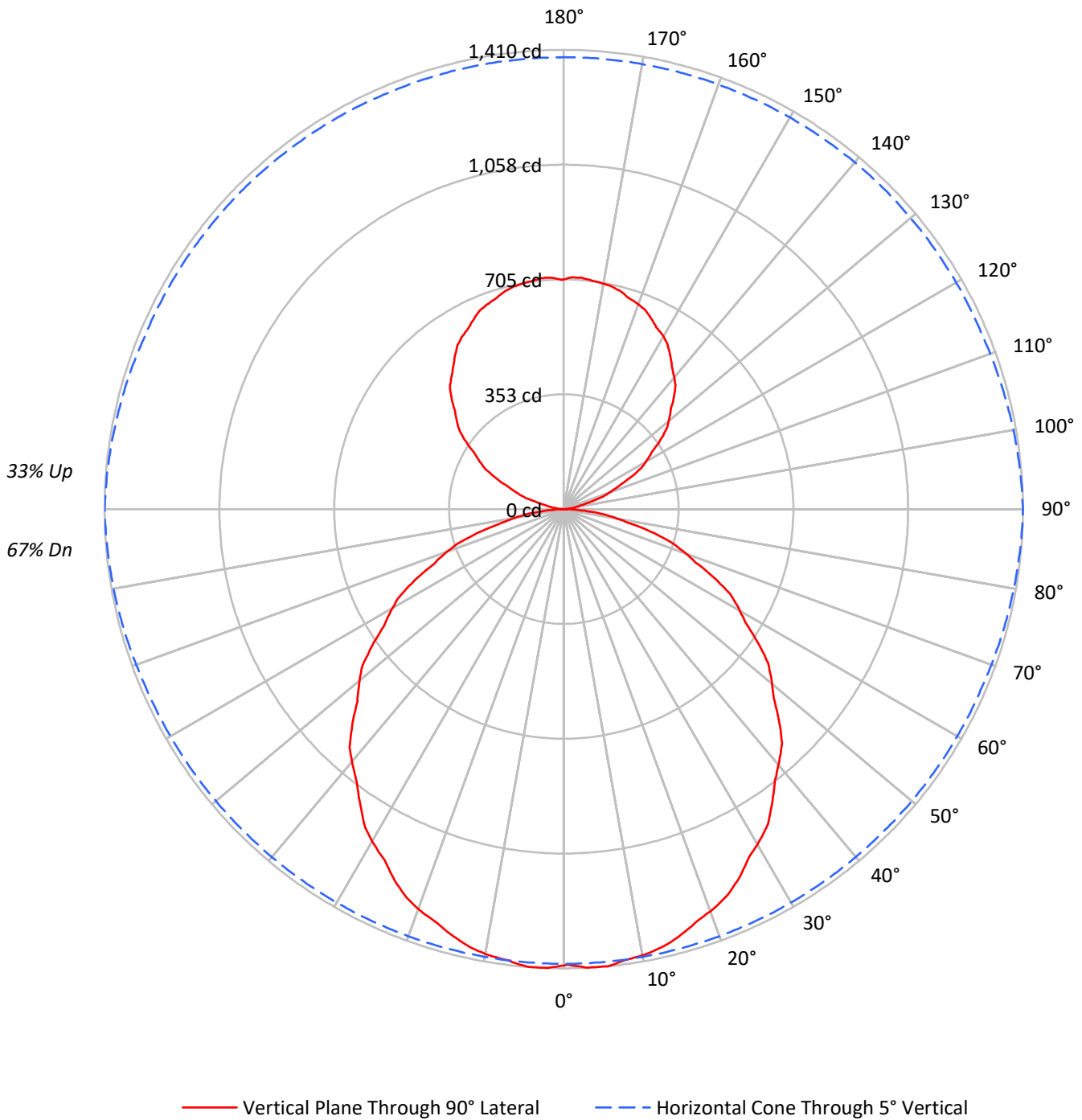
Lumens per Lamp: N/A
Luminaire Lumens: 5866.6 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 61.3
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



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Luminous Intensity Polar Plot





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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	111	111	111	111	105	105	105	105	93	93	93	82	82	82	71	71	71	67
1	101	97	93	89	95	91	88	85	81	78	76	72	70	68	63	61	60	56
2	92	84	78	73	86	80	74	69	71	66	63	63	59	56	55	53	50	46
3	84	74	66	60	79	70	63	58	62	57	52	55	51	47	49	45	43	39
4	77	65	57	51	72	62	55	49	55	49	45	49	44	40	43	40	37	33
5	70	58	50	44	66	55	48	42	49	43	38	44	39	35	39	35	32	29
6	65	52	44	38	61	50	42	36	45	38	33	40	35	31	35	31	28	25
7	60	47	39	33	56	45	37	32	40	34	30	36	31	27	32	28	25	22
8	56	43	35	29	52	41	34	28	37	31	26	33	28	24	30	25	22	20
9	52	39	32	26	49	37	30	25	34	28	24	30	25	22	27	23	20	18
10	49	36	29	24	46	34	28	23	31	25	21	28	23	20	25	21	18	16

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



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.4	2.3
10°-20°	378.2	6.4
20°-30°	568.9	9.7
30°-40°	679.7	11.6
40°-50°	698.8	11.9
50°-60°	629.1	10.7
60°-70°	479.0	8.2
70°-80°	273.1	4.7
80°-90°	71.7	1.2
90°-100°	17.8	0.3
100°-110°	78.8	1.3
110°-120°	226.5	3.9
120°-130°	345.0	5.9
130°-140°	374.5	6.4
140°-150°	358.1	6.1
150°-160°	295.0	5.0
160°-170°	193.1	3.3
170°-180°	66.8	1.1
0°-30°	1079.5	18.4
0°-40°	1759.2	30.0
0°-60°	3087.1	52.6
0°-90°	3911.0	66.7
90°-120°	323.1	5.5
90°-150°	1400.7	23.9
90°-180°	1956.0	33.3
0°-180°	5866.6	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°	3	4	12	28	27	4
105°	18	48	90	62	66	21
115°	170	446	228	107	120	235
125°	675	588	364	180	153	592
135°	744	673	483	299	238	574
145°	778	725	576	426	363	488
155°	786	754	645	534	486	364
165°	770	750	691	621	591	218
175°	725	726	712	681	664	70
180°	704	704	704	704	704	



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CATALOG NUMBER: SQW-F-050U-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°	0.5	0.5	1.0	1.6	2.6	9.8	11.0	10.0	9.4
95°	2.6	2.6	3.9	12.5	12.5	20.2	27.5	26.9	26.9
97.5°	5.9	6.5	9.2	37.9	28.3	27.6	39.3	43.3	43.7
100°	8.5	9.2	14.4	61.8	42.0	35.6	42.0	51.2	53.1
102.5°	11.7	12.8	22.8	97.6	59.3	42.6	49.3	55.9	57.8
105°	17.7	19.6	47.9	163.6	90.5	56.5	62.3	65.6	66.2
107.5°	26.6	33.8	131.0	230.1	128.4	74.8	78.2	80.4	81.2
110°	36.1	51.5	227.5	270.2	156.7	88.8	86.6	92.4	91.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	60.7	105.9	334.0	303.1	185.0	105.3	94.4	104.0	104.8
115°	169.8	291.6	446.5	350.0	228.2	133.9	106.9	116.1	120.0
117.5°	426.2	507.1	505.8	393.4	269.6	167.7	121.8	126.3	130.6
120°	573.1	585.3	535.7	422.7	296.4	191.9	134.4	132.5	136.4
122.5°	627.6	617.8	558.3	448.4	323.7	217.1	150.7	139.3	142.7
125°	674.7	655.5	587.5	485.1	363.9	254.3	180.3	154.1	153.4
127.5°	700.8	680.7	616.1	516.9	400.9	292.9	214.0	174.9	169.0
130°	713.4	694.8	636.0	536.5	425.6	319.1	238.7	193.2	184.3
132.5°	728.6	708.5	650.2	556.5	449.2	343.8	263.3	215.2	204.7
135°	743.6	725.0	673.4	582.6	482.6	380.0	299.0	251.5	238.0
137.5°	756.9	739.9	694.7	603.2	512.8	415.7	336.8	290.5	274.1
140°	765.9	747.3	703.6	619.0	531.1	438.2	361.9	315.8	302.9
142.5°	769.0	757.6	713.0	632.2	551.6	459.6	387.1	339.4	327.6
145°	778.3	770.6	724.6	648.2	575.7	491.7	425.6	376.1	363.3
147.5°	784.4	772.8	735.2	665.3	599.3	520.5	460.4	413.0	401.0
150°	784.9	775.9	743.6	676.0	615.0	541.3	481.9	437.1	426.2
152.5°	789.1	778.0	747.8	684.9	626.6	559.0	503.4	461.7	449.8
155°	786.2	778.5	754.1	696.5	644.6	581.7	533.7	496.8	486.5
157.5°	786.2	776.7	754.8	705.5	661.9	606.7	562.1	527.9	520.2
160°	780.9	777.1	755.4	711.8	670.8	620.8	581.0	549.9	539.6
162.5°	778.8	772.4	756.4	716.1	678.7	632.2	597.2	567.8	560.1
165°	769.8	764.0	750.1	718.0	691.1	652.6	621.0	594.6	590.8
167.5°	759.4	754.9	745.8	721.2	699.4	668.0	641.3	620.0	614.8
170°	752.1	745.0	741.6	722.8	703.6	677.3	654.4	635.2	629.5
172.5°	739.5	738.6	735.8	718.8	707.2	685.6	666.5	648.9	645.2
175°	724.6	724.6	726.5	715.9	712.1	694.1	680.6	670.0	664.2
177.5°	707.2	707.8	712.0	711.4	712.0	701.7	697.8	687.8	686.8
180°	703.6	703.6	703.6	703.6	703.6	703.6	703.6	703.6	703.6

(END OF REPORT)