

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: P522532

Luminaire Tested: **SQW-F-050U-100D-93050-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522532
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 (5000K)
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 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

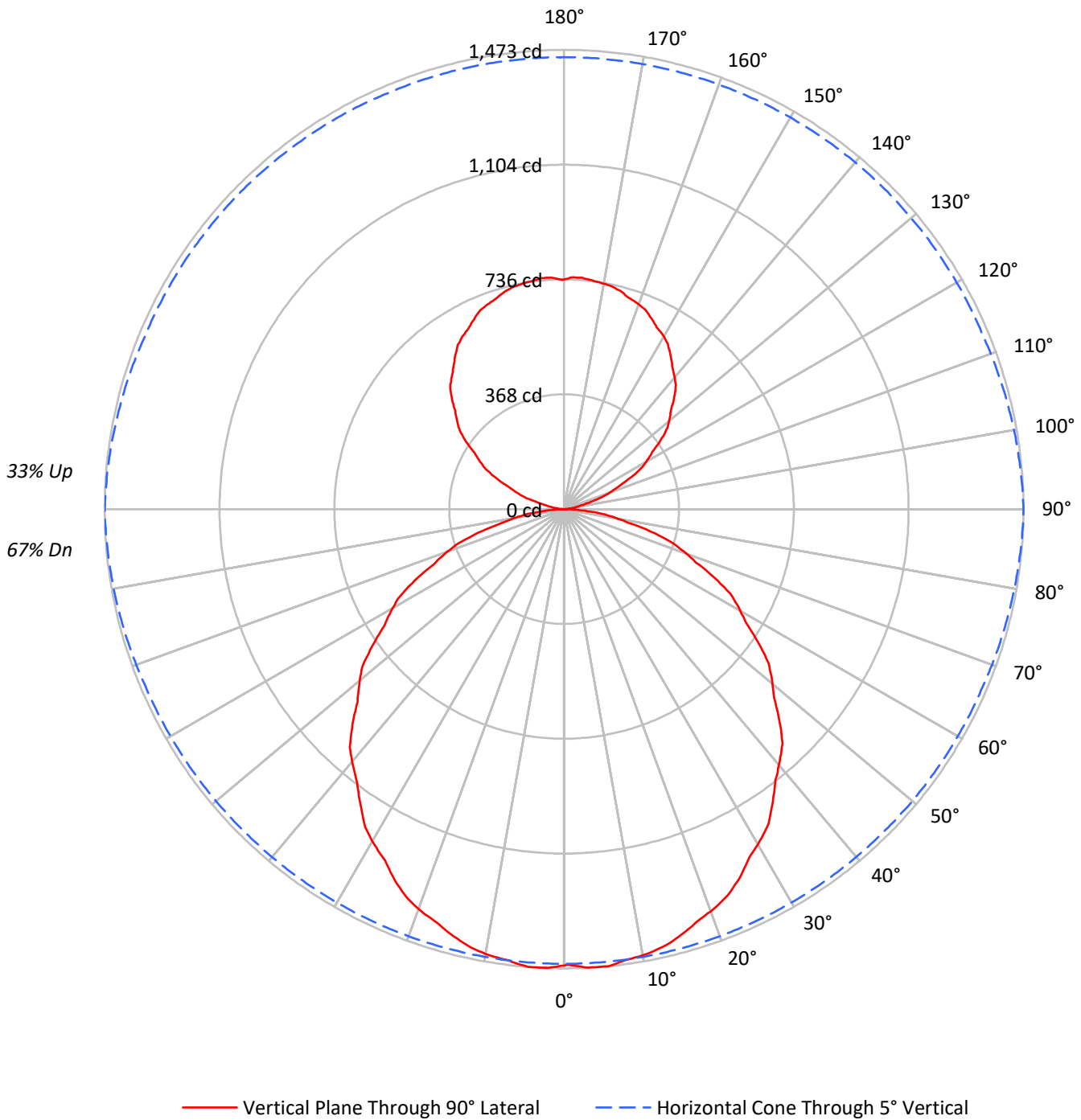
Lumens per Lamp: N/A
Luminaire Lumens: 6126.8 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 61.2
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	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°	23594	23594	23594
5°	23634	23866	23485
10°	23587	23789	23302
15°	23604	23654	23124
20°	23400	23522	22783
25°	23147	23313	22418
30°	22906	23040	22009
35°	22641	22702	21632
40°	22333	22419	21189
45°	21925	22087	20685
50°	21491	21697	20102
55°	20856	21258	19443
60°	20250	20780	18661
65°	19496	20202	17734
70°	18477	19204	16400
75°	17199	17898	14510
80°	15435	15249	12004
85°	11967	12153	7595



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.3	2.3
10°-20°	395.0	6.4
20°-30°	594.1	9.7
30°-40°	709.8	11.6
40°-50°	729.8	11.9
50°-60°	657.0	10.7
60°-70°	500.3	8.2
70°-80°	285.2	4.7
80°-90°	74.9	1.2
90°-100°	18.6	0.3
100°-110°	82.3	1.3
110°-120°	236.5	3.9
120°-130°	360.3	5.9
130°-140°	391.1	6.4
140°-150°	374.0	6.1
150°-160°	308.1	5.0
160°-170°	201.6	3.3
170°-180°	69.8	1.1
0°-30°	1127.4	18.4
0°-40°	1837.2	30.0
0°-60°	3224.0	52.6
0°-90°	4084.4	66.7
90°-120°	337.4	5.5
90°-150°	1462.8	23.9
90°-180°	2042.0	33.3
0°-180°	6126.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1461	1461	1461	1461	1461	
5°	1458	1456	1472	1452	1449	139
15°	1412	1412	1415	1395	1383	398
25°	1299	1311	1309	1281	1258	599
35°	1149	1162	1152	1123	1098	718
45°	960	967	967	930	906	740
55°	741	757	755	717	691	665
65°	510	524	529	486	464	504
75°	276	284	287	253	233	292
85°	65	70	66	54	41	76
90°	0	0	0	0	0	2
95°	3	4	13	29	28	4
105°	18	50	94	65	69	22
115°	177	466	238	112	125	245
125°	705	614	380	188	160	619
135°	776	703	504	312	249	600
145°	813	757	601	444	379	509
155°	821	788	673	557	508	380
165°	804	783	722	648	617	228
175°	757	759	744	711	694	73
180°	735	735	735	735	735	



TEST NUMBER: P522532

CATALOG NUMBER: SQW-F-050U-100D-93050-1D-UNV-STD-W-4 (5000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1461.3	1461.3	1461.3	1461.3	1461.3	1461.3	1461.3	1461.3	1461.3
2.5°	1459.6	1462.8	1461.3	1459.1	1471.9	1457.5	1459.6	1457.8	1449.8
5°	1458.2	1457.2	1456.1	1457.5	1472.5	1453.5	1452.0	1449.0	1449.0
7.5°	1452.6	1451.6	1450.4	1446.2	1458.4	1439.5	1440.1	1437.0	1432.8
10°	1438.7	1441.7	1439.7	1438.0	1451.0	1429.0	1429.5	1426.3	1421.3
12.5°	1432.2	1432.0	1430.7	1424.8	1437.1	1415.0	1414.7	1410.8	1407.4
15°	1412.1	1411.1	1412.1	1402.1	1415.1	1395.1	1394.6	1386.4	1383.4
17.5°	1383.2	1384.8	1386.2	1376.1	1387.9	1364.0	1363.7	1354.0	1352.2
20°	1361.9	1361.9	1369.0	1358.0	1369.0	1346.0	1346.5	1327.0	1326.0
22.5°	1336.4	1338.0	1346.1	1335.0	1344.4	1320.6	1319.4	1303.1	1298.9
25°	1299.3	1300.4	1310.6	1297.5	1308.6	1283.5	1280.9	1259.4	1258.4
27.5°	1259.0	1258.6	1270.9	1255.7	1264.5	1242.3	1239.1	1216.3	1214.9
30°	1228.6	1226.6	1243.0	1227.8	1235.8	1212.8	1211.2	1183.5	1180.5
32.5°	1196.7	1195.5	1210.2	1197.4	1203.0	1181.6	1173.5	1150.7	1149.3
35°	1148.7	1144.7	1162.0	1148.8	1151.8	1131.7	1123.1	1099.5	1097.5
37.5°	1094.0	1092.2	1104.9	1096.6	1101.4	1080.3	1065.9	1043.3	1042.1
40°	1059.6	1054.6	1068.8	1059.7	1063.7	1042.6	1029.8	1007.3	1005.3
42.5°	1017.8	1017.6	1029.4	1022.0	1026.8	1004.9	988.9	967.1	964.3
45°	960.2	957.2	967.3	965.3	967.3	944.3	930.4	905.9	905.9
47.5°	896.6	894.6	908.3	902.8	905.6	885.6	867.7	845.7	842.1
50°	855.6	853.6	864.9	861.8	863.8	843.8	825.9	802.3	800.3
52.5°	813.0	811.0	823.1	819.2	820.4	802.8	783.3	762.1	758.5
55°	740.9	745.9	757.3	756.2	755.2	737.2	717.3	695.7	690.7
57.5°	678.8	680.8	688.8	690.4	687.0	675.2	650.9	629.9	624.7
60°	627.1	633.1	644.6	644.5	643.5	628.5	602.5	584.0	577.9
62.5°	579.6	586.4	596.2	598.6	597.6	579.4	557.4	539.7	532.0
65°	510.3	515.3	523.6	528.8	528.8	508.7	485.7	469.2	464.2
67.5°	438.2	444.2	451.9	458.0	455.2	436.5	416.7	401.7	393.3
70°	391.4	397.5	402.7	408.8	406.8	389.8	369.9	353.4	347.4
72.5°	343.9	350.7	355.2	360.4	357.6	340.6	323.2	308.3	300.7
75°	275.7	277.7	283.8	287.9	286.9	269.9	253.1	240.6	232.6
77.5°	208.6	209.4	214.6	216.3	211.5	200.7	187.1	177.3	169.3
80°	166.0	166.0	171.1	172.0	164.0	157.9	144.5	137.1	129.1
82.5°	122.6	123.4	130.1	130.2	123.8	117.0	107.6	99.5	94.7
85°	64.6	65.6	69.7	72.6	65.6	61.6	54.3	46.0	41.0
87.5°	17.2	18.0	23.8	26.9	20.5	20.5	13.1	9.0	7.4
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	1.1	1.7	2.7	10.2	11.5	10.4	9.9
95°	2.7	2.7	4.1	13.0	13.0	21.0	28.8	28.1	28.1
97.5°	6.2	6.8	9.6	39.6	29.6	28.8	41.1	45.2	45.6
100°	8.9	9.6	15.1	64.6	43.8	37.1	43.8	53.5	55.5
102.5°	12.2	13.4	23.8	101.9	61.9	44.5	51.5	58.4	60.4
105°	18.5	20.5	50.0	170.8	94.5	59.0	65.1	68.5	69.2
107.5°	27.8	35.3	136.8	240.3	134.1	78.1	81.6	84.0	84.8
110°	37.7	53.7	237.6	282.2	163.7	92.7	90.4	96.5	95.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	63.4	110.5	348.8	316.6	193.2	110.0	98.6	108.6	109.4
115°	177.4	304.6	466.3	365.5	238.3	139.9	111.6	121.3	125.3
117.5°	445.1	529.6	528.2	410.8	281.6	175.1	127.2	131.9	136.4
120°	598.5	611.2	559.5	441.4	309.5	200.4	140.4	138.4	142.4
122.5°	655.5	645.2	583.0	468.3	338.0	226.7	157.4	145.5	149.0
125°	704.6	684.6	613.6	506.6	380.1	265.6	188.3	160.9	160.2
127.5°	731.9	710.9	643.4	539.9	418.7	305.9	223.5	182.7	176.5
130°	745.0	725.6	664.2	560.3	444.4	333.3	249.3	201.8	192.4
132.5°	760.9	739.9	679.0	581.2	469.1	359.0	275.0	224.8	213.8
135°	776.5	757.1	703.3	608.4	504.0	396.9	312.3	262.6	248.6
137.5°	790.5	772.7	725.5	629.9	535.5	434.1	351.7	303.4	286.2
140°	799.8	780.4	734.8	646.4	554.7	457.6	378.0	329.8	316.4
142.5°	803.1	791.2	744.6	660.3	576.0	480.0	404.3	354.4	342.1
145°	812.8	804.8	756.7	676.9	601.2	513.5	444.4	392.8	379.4
147.5°	819.1	807.1	767.8	694.9	625.9	543.5	480.9	431.3	418.8
150°	819.7	810.3	776.5	705.9	642.3	565.3	503.3	456.5	445.1
152.5°	824.1	812.5	780.9	715.3	654.4	583.8	525.8	482.2	469.8
155°	821.1	813.0	787.5	727.4	673.1	607.5	557.4	518.8	508.1
157.5°	821.1	811.1	788.3	736.7	691.2	633.6	587.0	551.3	543.3
160°	815.6	811.6	788.9	743.4	700.5	648.3	606.7	574.3	563.6
162.5°	813.4	806.7	790.0	747.8	708.7	660.3	623.7	593.0	584.9
165°	803.9	797.9	783.4	749.9	721.8	681.6	648.5	621.0	617.0
167.5°	793.1	788.4	778.9	753.2	730.4	697.6	669.7	647.5	642.0
170°	785.4	778.1	774.5	754.9	734.8	707.3	683.4	663.4	657.4
172.5°	772.3	771.4	768.5	750.7	738.6	716.0	696.0	677.7	673.8
175°	756.7	756.7	758.7	747.7	743.7	724.9	710.8	699.7	693.7
177.5°	738.6	739.1	743.5	743.0	743.5	732.8	728.7	718.3	717.2
180°	734.8	734.8	734.8	734.8	734.8	734.8	734.8	734.8	734.8

(END OF REPORT)