

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: P522353

Luminaire Tested: **SQW-F-050U-100D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522353
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-52,
Test Lab: INNOVATION CENTER
Issue Date: 5/11/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQW-F-050U-100D-92765-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

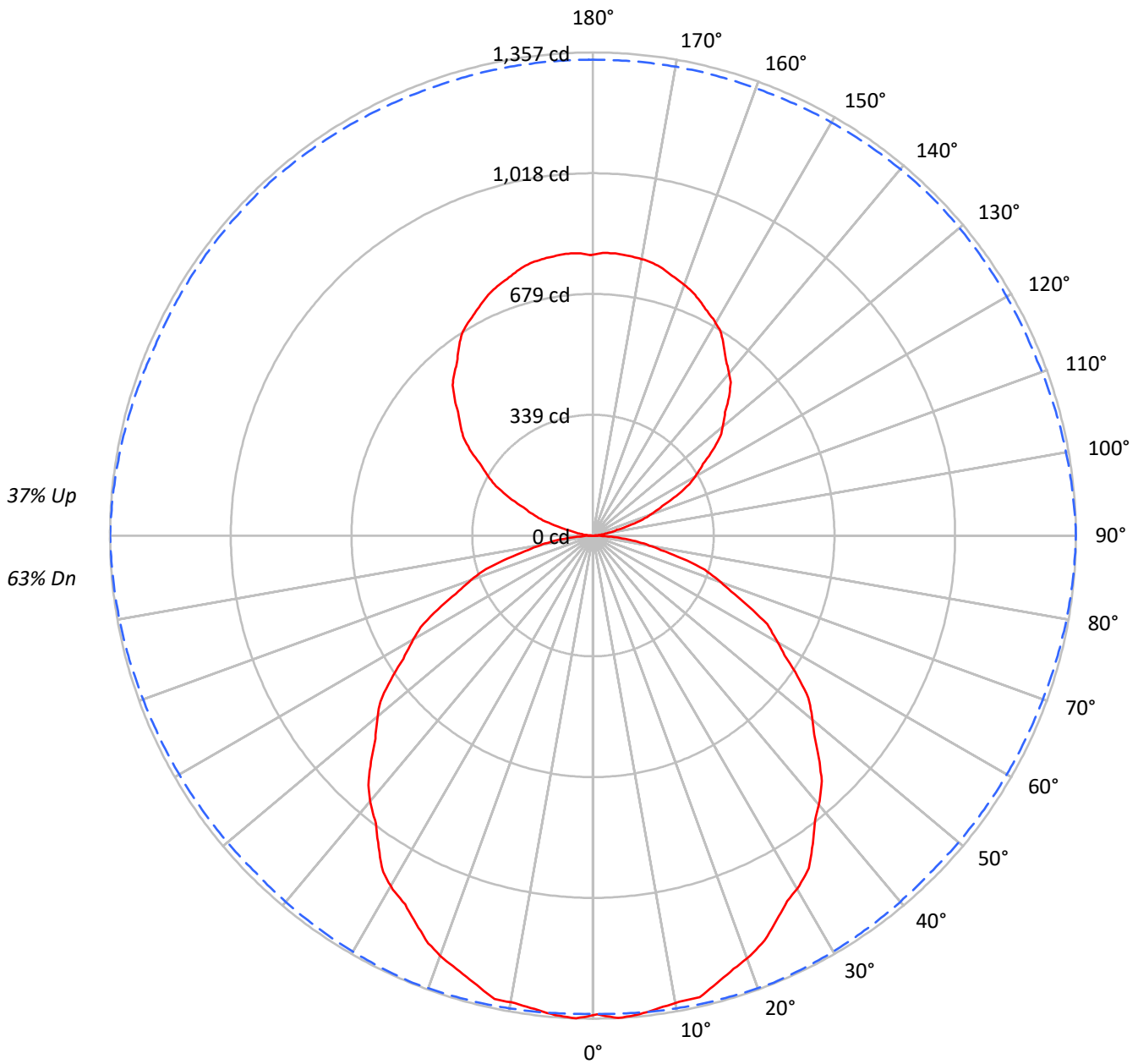
Lumens per Lamp: N/A
Luminaire Lumens: 5960.9 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.27 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 62.2
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



TEST NUMBER: P522353
CATALOG NUMBER: SQW-F-050U-100D-92765-1D-UNV-STD-W-4 (3000K)

Luminous Intensity Polar Plot



— Vertical Plane Through 90° Lateral - - - Horizontal Cone Through 2.5° Vertical



TEST NUMBER: P522353

CATALOG NUMBER: SQW-F-050U-100D-92765-1D-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	110	110	110	110	103	103	103	103	91	91	91	79	79	79	68	68	68	63
1	101	96	92	88	94	90	87	84	79	77	74	69	67	65	60	59	57	53
2	91	84	77	72	85	79	73	68	69	65	61	61	57	54	53	50	48	44
3	83	73	66	60	78	69	62	57	61	56	51	53	49	46	46	43	41	37
4	76	65	57	50	71	61	54	48	54	48	44	48	43	39	41	38	35	32
5	70	58	49	43	65	55	47	41	48	42	38	43	38	34	37	33	30	27
6	64	52	44	37	60	49	41	36	44	37	33	38	33	30	34	30	27	24
7	60	47	39	33	56	44	37	32	40	33	29	35	30	26	31	27	24	21
8	55	43	35	29	52	40	33	28	36	30	26	32	27	23	28	24	21	19
9	52	39	31	26	48	37	30	25	33	27	23	29	25	21	26	22	19	17
10	48	36	28	23	45	34	27	22	30	25	21	27	22	19	24	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	21727	21727	21727
5°	21985	21906	21574
10°	21759	21838	21535
15°	21840	21809	21401
20°	21326	21661	20907
25°	21294	21346	20564
30°	21028	21302	20355
35°	20538	20962	20000
40°	20335	20687	19595
45°	20135	20315	19244
50°	19427	20042	18691
55°	19243	19654	18033
60°	18384	19078	17376
65°	17574	18468	16489
70°	16782	17608	15399
75°	15596	16207	13893
80°	13352	14161	11623
85°	9948	11041	7966



TEST NUMBER: P522353

CATALOG NUMBER: SQW-F-050U-100D-92765-1D-UNV-STD-W-4 (3000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.4	2.1
10°-20°	364.2	6.1
20°-30°	546.8	9.2
30°-40°	653.7	11.0
40°-50°	672.7	11.3
50°-60°	605.5	10.2
60°-70°	459.9	7.7
70°-80°	262.4	4.4
80°-90°	68.7	1.2
90°-100°	20.7	0.3
100°-110°	89.7	1.5
110°-120°	255.9	4.3
120°-130°	389.0	6.5
130°-140°	420.8	7.1
140°-150°	402.0	6.7
150°-160°	330.7	5.5
160°-170°	216.1	3.6
170°-180°	74.7	1.3
0°-30°	1038.5	17.4
0°-40°	1692.1	28.4
0°-60°	2970.3	49.8
0°-90°	3761.3	63.1
90°-120°	366.3	6.1
90°-150°	1578.1	26.5
90°-180°	2200.0	36.9
0°-180°	5960.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1346	1346	1346	1346	1346	
5°	1356	1346	1352	1328	1331	128
15°	1307	1299	1305	1286	1280	365
25°	1195	1202	1198	1186	1154	549
35°	1042	1067	1064	1040	1015	656
45°	882	889	890	870	843	674
55°	684	695	698	670	641	605
65°	460	473	483	450	432	457
75°	250	257	260	237	223	262
85°	54	62	60	54	43	65
90°	0	0	0	0	0	2
95°	3	5	14	34	32	4
105°	21	53	104	71	76	24
115°	189	502	259	123	139	260
125°	752	662	414	203	175	661
135°	832	754	545	338	268	642
145°	867	812	649	480	410	543
155°	877	838	725	602	546	405
165°	856	838	776	696	664	243
175°	807	809	795	766	745	78
180°	788	788	788	788	788	



TEST NUMBER: P522353

CATALOG NUMBER: SQW-F-050U-100D-92765-1D-UNV-STD-W-4 (3000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1345.7	1345.7	1345.7	1345.7	1345.7	1345.7	1345.7	1345.7	1345.7
2.5°	1344.1	1354.8	1340.2	1344.4	1357.4	1341.4	1345.7	1337.9	1337.1
5°	1356.5	1340.2	1345.7	1338.2	1351.6	1339.2	1328.1	1342.5	1331.1
7.5°	1333.4	1322.9	1344.3	1333.6	1340.6	1332.2	1333.4	1325.4	1325.2
10°	1327.2	1320.5	1327.2	1327.3	1332.0	1320.6	1319.3	1310.6	1313.5
12.5°	1309.2	1318.5	1308.4	1321.1	1331.3	1311.4	1303.7	1306.8	1311.9
15°	1306.6	1303.8	1298.8	1295.1	1304.7	1281.8	1286.1	1277.4	1280.3
17.5°	1267.0	1272.3	1274.8	1271.7	1280.3	1259.5	1254.5	1254.5	1255.9
20°	1241.2	1252.7	1260.7	1252.2	1260.7	1244.5	1241.2	1229.2	1216.8
22.5°	1227.2	1224.9	1241.2	1224.1	1235.7	1215.7	1224.8	1203.9	1210.6
25°	1195.3	1185.8	1202.2	1192.5	1198.2	1182.0	1185.6	1160.0	1154.3
27.5°	1152.9	1152.9	1162.9	1158.9	1162.9	1149.9	1146.3	1123.0	1120.7
30°	1127.9	1120.3	1138.7	1130.2	1142.6	1112.0	1114.3	1095.6	1091.8
32.5°	1094.3	1097.4	1109.8	1099.0	1113.7	1084.6	1090.0	1061.4	1066.0
35°	1042.0	1047.7	1067.4	1053.0	1063.5	1046.3	1040.0	1021.3	1014.7
37.5°	1008.6	999.8	1009.4	1010.2	1013.5	994.6	987.7	965.1	967.2
40°	964.8	962.9	976.6	980.5	981.5	963.3	958.0	930.6	929.7
42.5°	925.0	926.9	938.3	943.0	943.2	925.0	924.4	894.8	898.4
45°	881.8	879.0	888.7	887.7	889.7	870.6	870.1	841.8	842.8
47.5°	814.1	820.2	826.8	828.7	836.1	819.9	808.4	785.9	782.4
50°	773.4	784.9	786.1	795.0	797.9	777.8	768.6	749.9	744.1
52.5°	737.5	743.6	748.6	754.4	758.8	740.3	726.4	708.6	707.4
55°	683.6	679.8	695.3	693.5	698.2	683.9	669.9	650.2	640.6
57.5°	613.9	621.3	624.8	632.1	635.4	619.7	607.4	586.5	585.7
60°	569.3	579.8	581.1	593.7	590.8	577.5	564.5	545.7	538.1
62.5°	528.7	531.6	539.7	548.5	549.4	534.5	524.6	504.4	499.0
65°	460.0	465.7	472.7	484.4	483.4	472.9	450.2	439.3	431.6
67.5°	397.7	399.6	409.0	414.5	418.4	403.8	390.8	375.5	372.3
70°	355.5	353.6	365.2	369.2	373.0	361.6	348.6	334.8	326.2
72.5°	309.4	311.3	319.9	326.2	328.5	317.1	303.3	292.6	287.1
75°	250.0	248.1	256.8	260.7	259.8	251.2	237.3	230.3	222.7
77.5°	184.2	188.0	193.2	196.7	195.3	189.6	178.7	168.1	164.8
80°	143.6	147.4	153.3	155.2	152.3	146.6	139.6	129.8	125.0
82.5°	106.1	108.3	114.3	117.7	113.3	109.8	103.7	96.2	90.6
85°	53.7	55.6	61.5	63.4	59.6	59.6	53.7	46.8	43.0
87.5°	12.5	13.3	18.0	23.3	18.8	20.3	15.6	11.6	8.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	1.1	1.1	1.1	2.2	3.2	11.6	12.8	11.2	11.2
95°	3.3	3.3	4.7	14.7	14.1	23.9	33.5	31.5	31.5
97.5°	6.8	7.5	10.7	43.5	32.8	31.9	45.2	50.3	51.3
100°	10.0	10.7	16.1	71.1	48.8	41.7	49.5	58.9	60.9
102.5°	13.8	15.0	25.7	111.8	68.7	48.9	56.5	64.8	67.3
105°	20.7	22.7	52.9	187.5	103.7	63.8	70.9	74.3	76.3
107.5°	30.8	38.8	142.4	263.4	147.2	84.3	91.8	91.3	93.0
110°	41.5	57.8	246.3	305.0	179.3	100.2	100.4	105.7	103.7



TEST NUMBER: P522353

CATALOG NUMBER: SQW-F-050U-100D-92765-1D-UNV-STD-W-4 (3000K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	68.8	115.0	367.2	344.9	211.5	119.2	108.4	120.2	120.9
115°	188.7	324.1	501.9	400.9	259.0	153.0	123.1	134.6	139.2
117.5°	467.9	563.9	570.8	450.7	306.3	190.7	140.0	145.1	151.1
120°	634.4	654.0	602.9	481.2	337.9	217.5	153.9	152.0	158.6
122.5°	699.7	692.6	629.1	509.6	369.0	246.0	171.0	160.6	165.0
125°	752.1	733.8	661.8	549.0	414.2	288.6	203.4	174.7	174.7
127.5°	783.5	762.1	691.8	583.9	455.0	331.6	242.4	197.5	191.4
130°	801.7	778.8	710.0	608.1	481.8	359.4	269.7	217.3	207.4
132.5°	815.6	794.8	727.1	627.0	508.0	386.7	297.0	241.7	225.6
135°	832.4	814.8	753.5	655.9	544.7	427.6	337.9	284.0	267.7
137.5°	843.3	829.5	777.2	679.7	578.7	468.1	379.3	325.1	310.4
140°	849.2	838.0	788.9	693.8	599.6	494.2	408.2	353.0	339.3
142.5°	855.1	846.0	797.5	709.4	619.9	520.3	436.6	381.4	366.6
145°	867.2	856.8	811.7	728.3	649.1	556.8	480.5	422.6	409.5
147.5°	875.8	863.2	823.3	748.5	676.7	589.9	520.7	464.9	452.0
150°	877.9	864.9	829.8	759.3	693.2	610.2	545.4	492.2	479.8
152.5°	876.3	866.4	834.6	768.5	707.2	629.8	567.8	518.5	507.1
155°	877.3	868.1	838.5	781.0	724.7	657.3	601.6	557.8	546.0
157.5°	873.3	867.2	841.1	790.5	740.9	681.9	632.5	595.7	583.8
160°	873.3	864.1	841.1	796.0	752.1	697.8	651.8	618.7	608.9
162.5°	867.4	859.3	840.6	799.9	762.8	712.7	670.0	639.2	632.0
165°	856.5	850.0	837.8	805.0	776.2	733.0	695.9	668.4	663.8
167.5°	848.1	839.1	832.4	804.8	785.3	747.6	717.9	695.1	692.4
170°	838.5	832.6	827.1	803.3	789.6	758.2	733.4	710.6	708.0
172.5°	826.1	822.9	820.1	802.4	792.3	767.2	746.8	726.1	721.4
175°	807.0	809.6	809.0	800.2	795.0	778.6	766.2	751.3	745.4
177.5°	795.2	794.2	796.8	795.2	794.7	784.7	781.3	771.2	774.4
180°	788.3	788.3	788.3	788.3	788.3	788.3	788.3	788.3	788.3

(END OF REPORT)