

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: P522313

Luminaire Tested: **SQW-F-025U-100D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522313
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-025U-100D-92765-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

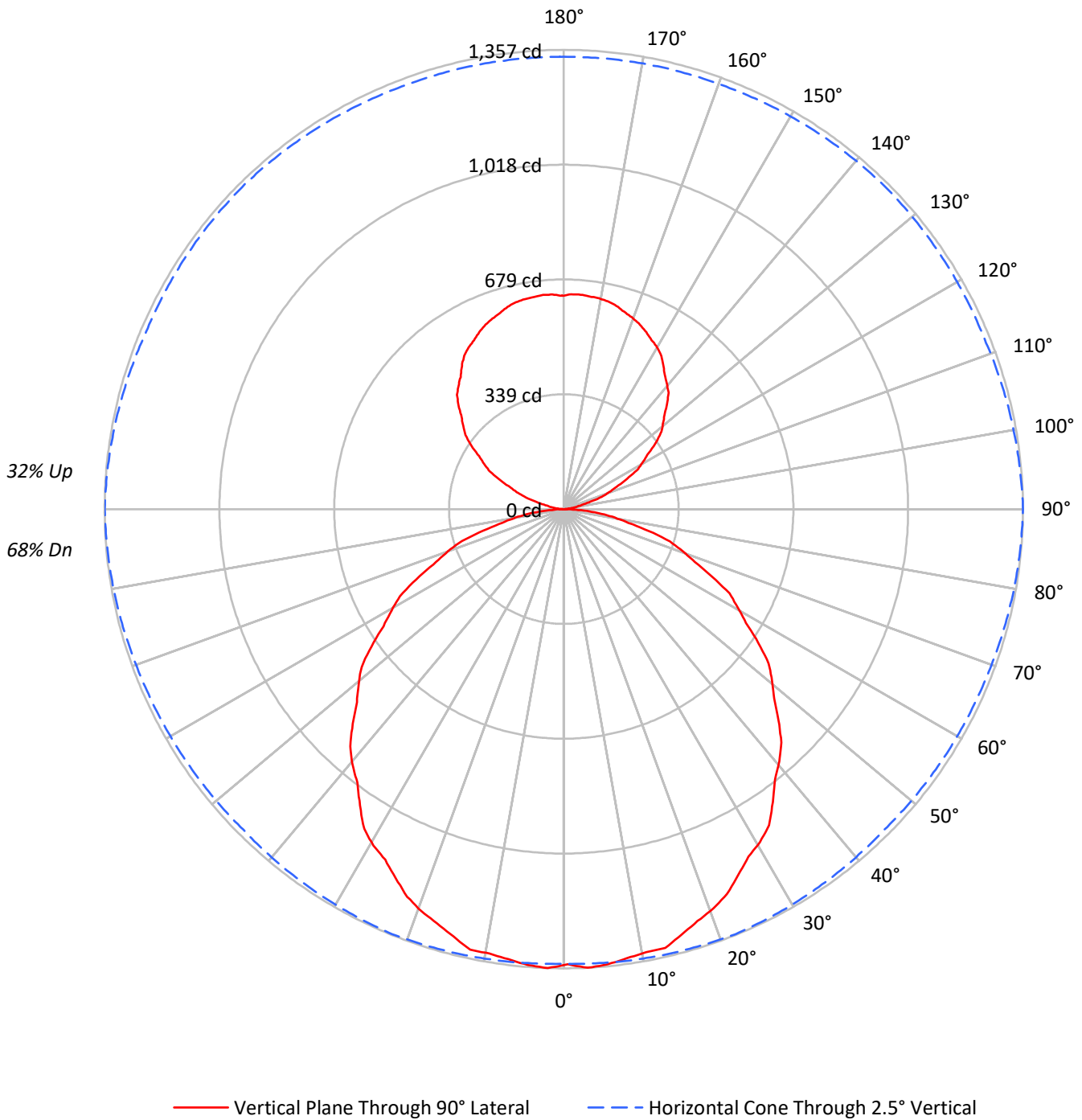
Lumens per Lamp: N/A
Luminaire Lumens: 5519.8 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.27 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 58.7
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



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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	83	83	83	73	73	73	68
1	102	97	93	89	96	92	88	85	82	79	77	73	71	69	64	63	61	57
2	92	85	78	73	87	80	74	69	71	67	63	64	60	57	56	54	51	47
3	84	74	67	60	79	70	63	58	63	57	53	56	52	48	50	46	43	40
4	77	66	57	51	72	62	55	49	56	50	45	50	45	41	44	40	37	34
5	71	59	50	44	66	56	48	42	50	44	39	45	40	36	40	36	32	29
6	65	53	44	38	61	50	42	37	45	39	34	40	35	31	36	32	28	26
7	60	47	39	33	57	45	38	32	41	34	30	37	31	27	33	29	25	23
8	56	43	35	30	53	41	34	29	37	31	27	34	28	25	30	26	23	20
9	52	39	32	26	49	38	30	26	34	28	24	31	26	22	28	24	20	18
10	49	36	29	24	46	35	28	23	32	26	21	29	24	20	26	22	18	17

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



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.4	2.3
10°-20°	364.2	6.6
20°-30°	546.8	9.9
30°-40°	653.7	11.8
40°-50°	672.7	12.2
50°-60°	605.5	11.0
60°-70°	459.9	8.3
70°-80°	262.4	4.8
80°-90°	68.7	1.2
90°-100°	16.6	0.3
100°-110°	71.7	1.3
110°-120°	204.5	3.7
120°-130°	311.0	5.6
130°-140°	336.4	6.1
140°-150°	321.4	5.8
150°-160°	264.4	4.8
160°-170°	172.7	3.1
170°-180°	59.7	1.1
0°-30°	1038.5	18.8
0°-40°	1692.1	30.7
0°-60°	2970.3	53.8
0°-90°	3761.3	68.1
90°-120°	292.8	5.3
90°-150°	1261.7	22.9
90°-180°	1758.0	31.8
0°-180°	5519.8	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	4	11	27	25	3
105°	17	42	83	57	61	19
115°	151	401	207	98	111	208
125°	601	529	331	163	140	528
135°	666	602	436	270	214	513
145°	693	649	519	384	327	434
155°	701	670	579	481	436	324
165°	685	670	621	556	531	195
175°	645	647	636	612	596	63
180°	630	630	630	630	630	

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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°	0.9	0.9	0.9	1.7	2.6	9.3	10.3	9.0	9.0
95°	2.7	2.7	3.7	11.8	11.2	19.1	26.7	25.1	25.1
97.5°	5.5	6.0	8.6	34.8	26.2	25.5	36.2	40.2	41.0
100°	8.0	8.5	12.8	56.8	39.1	33.3	39.6	47.1	48.7
102.5°	11.0	12.0	20.5	89.4	54.9	39.1	45.2	51.8	53.8
105°	16.6	18.2	42.3	149.9	82.9	51.0	56.7	59.4	61.0
107.5°	24.6	31.0	113.8	210.6	117.7	67.4	73.4	73.0	74.4
110°	33.2	46.2	196.9	243.8	143.4	80.1	80.2	84.5	82.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	55.0	91.9	293.6	275.8	169.1	95.3	86.7	96.1	96.6
115°	150.9	259.1	401.2	320.5	207.0	122.3	98.4	107.6	111.3
117.5°	374.1	450.8	456.3	360.3	244.9	152.4	111.9	116.0	120.8
120°	507.2	522.8	482.0	384.7	270.2	173.9	123.0	121.6	126.8
122.5°	559.4	553.7	503.0	407.4	295.0	196.6	136.7	128.4	131.9
125°	601.3	586.7	529.1	438.9	331.1	230.7	162.6	139.6	139.6
127.5°	626.3	609.3	553.1	466.8	363.8	265.1	193.8	157.9	153.0
130°	640.9	622.6	567.6	486.1	385.2	287.4	215.6	173.7	165.8
132.5°	652.0	635.4	581.3	501.3	406.2	309.2	237.4	193.3	180.4
135°	665.5	651.4	602.4	524.4	435.5	341.8	270.2	227.1	214.0
137.5°	674.2	663.2	621.3	543.4	462.6	374.2	303.2	259.9	248.1
140°	678.9	670.0	630.7	554.7	479.3	395.1	326.3	282.2	271.2
142.5°	683.6	676.4	637.6	567.2	495.6	416.0	349.0	304.9	293.1
145°	693.3	685.0	648.9	582.2	518.9	445.2	384.1	337.9	327.4
147.5°	700.2	690.1	658.2	598.4	541.0	471.6	416.3	371.7	361.3
150°	701.9	691.4	663.4	607.1	554.2	487.8	436.0	393.5	383.6
152.5°	700.6	692.7	667.2	614.4	565.4	503.5	454.0	414.5	405.4
155°	701.4	694.0	670.3	624.4	579.4	525.5	480.9	446.0	436.5
157.5°	698.1	693.3	672.5	632.0	592.3	545.1	505.7	476.2	466.7
160°	698.1	690.8	672.5	636.4	601.3	557.9	521.1	494.7	486.8
162.5°	693.4	686.9	672.0	639.5	609.9	569.8	535.6	511.0	505.2
165°	684.8	679.5	669.8	643.6	620.6	586.0	556.4	534.4	530.7
167.5°	678.0	670.8	665.5	643.4	627.8	597.7	573.9	555.7	553.6
170°	670.3	665.6	661.2	642.3	631.3	606.2	586.3	568.1	566.0
172.5°	660.5	657.9	655.7	641.5	633.4	613.3	597.0	580.5	576.7
175°	645.2	647.3	646.8	639.7	635.6	622.5	612.5	600.7	596.0
177.5°	635.8	634.9	637.0	635.8	635.3	627.4	624.6	616.6	619.1
180°	630.2	630.2	630.2	630.2	630.2	630.2	630.2	630.2	630.2

(END OF REPORT)