

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: P522312

Luminaire Tested: **SQW-F-025U-100D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522312
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 (2700K)
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 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5407.7 lumens
Efficiency: N/A
Efficacy: 92.3 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

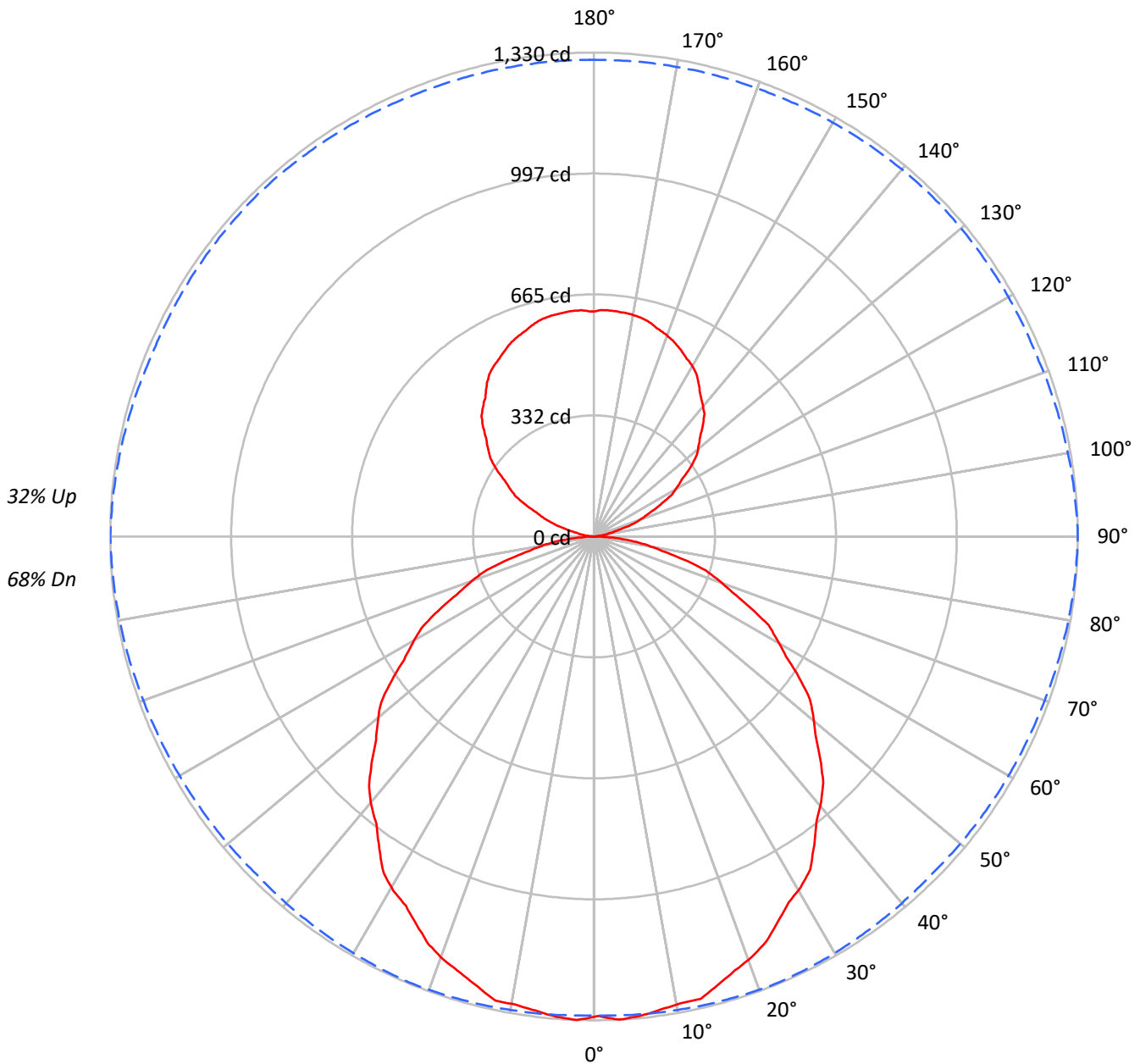
Input Watts (W): 58.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot



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



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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°	21287	21287	21287
5°	21538	21460	21135
10°	21317	21395	21097
15°	21397	21366	20966
20°	20893	21222	20483
25°	20861	20913	20147
30°	20601	20870	19941
35°	20120	20536	19594
40°	19924	20265	19197
45°	19726	19902	18854
50°	19032	19635	18311
55°	18852	19257	17667
60°	18012	18690	17024
65°	17215	18094	16157
70°	16442	17254	15087
75°	15278	15876	13606
80°	13073	13882	11390
85°	9744	10819	7799



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.8	2.3
10°-20°	356.9	6.6
20°-30°	535.7	9.9
30°-40°	640.4	11.8
40°-50°	659.0	12.2
50°-60°	593.3	11.0
60°-70°	450.6	8.3
70°-80°	257.1	4.8
80°-90°	67.3	1.2
90°-100°	16.2	0.3
100°-110°	70.3	1.3
110°-120°	200.4	3.7
120°-130°	304.7	5.6
130°-140°	329.6	6.1
140°-150°	314.9	5.8
150°-160°	259.0	4.8
160°-170°	169.2	3.1
170°-180°	58.5	1.1
0°-30°	1017.4	18.8
0°-40°	1657.8	30.7
0°-60°	2910.0	53.8
0°-90°	3685.0	68.1
90°-120°	286.9	5.3
90°-150°	1236.0	22.9
90°-180°	1723.0	31.9
0°-180°	5407.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1318	1318	1318	1318	1318	
5°	1329	1318	1324	1301	1304	125
15°	1280	1272	1278	1260	1254	358
25°	1171	1178	1174	1162	1131	538
35°	1021	1046	1042	1019	994	643
45°	864	871	872	852	826	660
55°	670	681	684	656	628	593
65°	451	463	474	441	423	448
75°	245	252	254	232	218	256
85°	53	60	58	53	42	63
90°	0	0	0	0	0	2
95°	3	4	11	26	25	3
105°	16	41	81	56	60	19
115°	148	393	203	96	109	203
125°	589	518	324	159	137	518
135°	652	590	427	265	210	503
145°	679	636	508	376	321	425
155°	687	657	568	471	428	317
165°	671	656	608	545	520	191
175°	632	634	623	600	584	61
180°	617	617	617	617	617	

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CATALOG NUMBER: SQW-F-025U-100D-92765-1D-UNV-STD-W-4 (2700K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1318.4	1318.4	1318.4	1318.4	1318.4	1318.4	1318.4	1318.4	1318.4
2.5°	1316.9	1327.3	1313.0	1317.1	1329.9	1314.2	1318.4	1310.7	1310.0
5°	1328.9	1313.0	1318.4	1311.0	1324.1	1312.0	1301.2	1315.3	1304.0
7.5°	1306.3	1296.0	1317.0	1306.5	1313.4	1305.2	1306.3	1298.5	1298.3
10°	1300.2	1293.7	1300.2	1300.3	1305.0	1293.8	1292.6	1284.0	1286.8
12.5°	1282.6	1291.8	1281.8	1294.3	1304.2	1284.8	1277.2	1280.2	1285.3
15°	1280.1	1277.3	1272.5	1268.8	1278.2	1255.8	1260.0	1251.5	1254.3
17.5°	1241.3	1246.5	1248.9	1245.9	1254.3	1233.9	1229.0	1229.1	1230.4
20°	1216.0	1227.2	1235.1	1226.7	1235.1	1219.2	1216.0	1204.3	1192.1
22.5°	1202.2	1200.0	1216.0	1199.2	1210.7	1191.0	1199.9	1179.4	1186.0
25°	1171.0	1161.7	1177.7	1168.3	1173.9	1158.0	1161.5	1136.5	1130.9
27.5°	1129.5	1129.5	1139.3	1135.4	1139.3	1126.6	1123.0	1100.2	1098.0
30°	1105.0	1097.5	1115.6	1107.2	1119.4	1089.4	1091.6	1073.4	1069.6
32.5°	1072.1	1075.1	1087.2	1076.7	1091.1	1062.6	1067.9	1039.9	1044.4
35°	1020.8	1026.5	1045.7	1031.6	1041.9	1025.0	1018.9	1000.6	994.1
37.5°	988.1	979.5	988.9	989.7	992.9	974.4	967.6	945.5	947.6
40°	945.3	943.4	956.7	960.6	961.5	943.7	938.6	911.8	910.8
42.5°	906.2	908.1	919.2	923.8	924.0	906.2	905.6	876.6	880.2
45°	863.9	861.1	870.6	869.7	871.6	852.9	852.5	824.7	825.7
47.5°	797.5	803.5	810.0	811.9	819.2	803.3	792.0	769.9	766.5
50°	757.7	769.0	770.2	778.8	781.7	762.0	753.0	734.6	729.0
52.5°	722.5	728.5	733.4	739.1	743.4	725.2	711.6	694.2	693.1
55°	669.7	666.0	681.2	679.4	684.1	670.0	656.3	637.0	627.6
57.5°	601.4	608.7	612.1	619.3	622.5	607.1	595.1	574.6	573.9
60°	557.8	568.1	569.3	581.6	578.8	565.7	553.0	534.6	527.2
62.5°	518.0	520.8	528.7	537.3	538.3	523.7	514.0	494.1	488.9
65°	450.6	456.2	463.1	474.5	473.6	463.3	441.1	430.4	422.9
67.5°	389.6	391.5	400.7	406.1	409.9	395.6	382.9	367.9	364.7
70°	348.3	346.4	357.8	361.7	365.5	354.2	341.6	328.0	319.6
72.5°	303.1	305.0	313.4	319.6	321.8	310.6	297.2	286.7	281.3
75°	244.9	243.1	251.6	255.4	254.5	246.1	232.5	225.6	218.1
77.5°	180.4	184.2	189.2	192.7	191.3	185.7	175.1	164.7	161.5
80°	140.6	144.4	150.2	152.1	149.3	143.6	136.8	127.1	122.5
82.5°	103.9	106.1	111.9	115.3	111.0	107.6	101.6	94.2	88.8
85°	52.6	54.5	60.3	62.1	58.4	58.4	52.6	45.8	42.1
87.5°	12.2	13.0	17.6	22.9	18.4	19.9	15.3	11.4	8.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.8	0.8	0.8	1.7	2.5	9.1	10.1	8.8	8.8
95°	2.6	2.6	3.7	11.5	11.0	18.7	26.2	24.6	24.6
97.5°	5.3	5.9	8.4	34.1	25.7	25.0	35.4	39.4	40.1
100°	7.9	8.4	12.6	55.7	38.3	32.6	38.8	46.2	47.7
102.5°	10.8	11.7	20.1	87.6	53.8	38.3	44.2	50.8	52.7
105°	16.2	17.8	41.4	146.8	81.2	50.0	55.6	58.2	59.7
107.5°	24.1	30.4	111.5	206.3	115.3	66.0	71.9	71.5	72.9
110°	32.5	45.3	192.9	238.9	140.5	78.5	78.6	82.8	81.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	53.9	90.1	287.6	270.2	165.6	93.4	84.9	94.1	94.7
115°	147.8	253.9	393.1	314.0	202.8	119.8	96.4	105.4	109.0
117.5°	366.5	441.7	447.1	353.0	239.9	149.3	109.6	113.6	118.3
120°	496.9	512.2	472.2	376.9	264.7	170.4	120.5	119.1	124.2
122.5°	548.0	542.5	492.8	399.2	289.0	192.7	134.0	125.8	129.2
125°	589.1	574.8	518.3	430.0	324.4	226.0	159.3	136.8	136.8
127.5°	613.6	596.9	541.8	457.4	356.4	259.7	189.8	154.7	149.9
130°	627.9	610.0	556.1	476.3	377.4	281.5	211.2	170.2	162.5
132.5°	638.8	622.5	569.5	491.1	397.9	302.9	232.6	189.3	176.7
135°	652.0	638.2	590.2	513.7	426.6	334.9	264.7	222.5	209.6
137.5°	660.5	649.7	608.7	532.4	453.3	366.6	297.1	254.7	243.1
140°	665.1	656.4	617.9	543.4	469.6	387.1	319.7	276.5	265.7
142.5°	669.7	662.6	624.6	555.6	485.5	407.5	341.9	298.7	287.1
145°	679.3	671.1	635.7	570.4	508.4	436.1	376.3	331.0	320.8
147.5°	686.0	676.1	644.9	586.3	530.0	462.0	407.9	364.1	354.0
150°	687.6	677.4	649.9	594.7	543.0	477.9	427.2	385.5	375.8
152.5°	686.4	678.6	653.7	602.0	553.9	493.3	444.8	406.1	397.2
155°	687.1	679.9	656.7	611.7	567.6	514.8	471.2	436.9	427.7
157.5°	684.0	679.3	658.8	619.1	580.3	534.1	495.4	466.6	457.2
160°	684.0	676.8	658.8	623.4	589.1	546.6	510.5	484.6	476.9
162.5°	679.4	673.0	658.4	626.5	597.5	558.2	524.7	500.6	495.0
165°	670.9	665.7	656.2	630.5	608.0	574.1	545.1	523.5	519.9
167.5°	664.3	657.2	652.0	630.4	615.1	585.6	562.3	544.4	542.4
170°	656.7	652.1	647.8	629.2	618.5	593.9	574.4	556.6	554.5
172.5°	647.1	644.5	642.4	628.4	620.6	600.9	584.9	568.7	565.0
175°	632.1	634.1	633.7	626.7	622.6	609.8	600.1	588.5	583.9
177.5°	622.9	622.0	624.1	622.8	622.4	614.6	612.0	604.0	606.5
180°	617.4	617.4	617.4	617.4	617.4	617.4	617.4	617.4	617.4

(END OF REPORT)