

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: P522319

Luminaire Tested: **SQW-F-025U-100D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 5/11/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522319  
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 (6500K)  
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 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

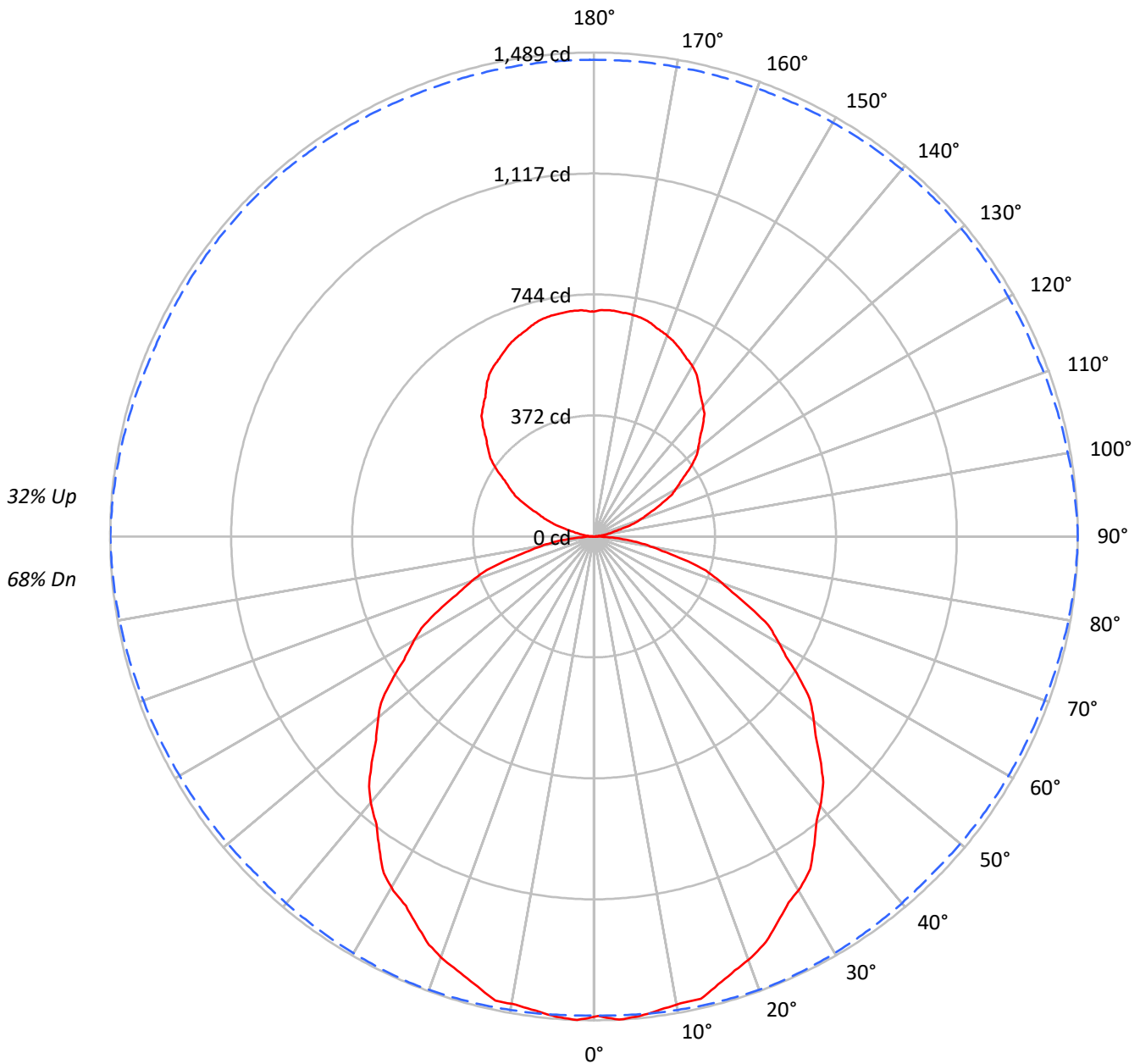
Lumens per Lamp: N/A  
Luminaire Lumens: 6054.3 lumens  
Efficiency: N/A  
Efficacy: 103.8 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.27 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 58.3  
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



TEST NUMBER: P522319  
CATALOG NUMBER: SQW-F-025U-100D-92765-1D-UNV-STD-W-4 (6500K)

### Luminous Intensity Polar Plot



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



TEST NUMBER: P522319

CATALOG NUMBER: SQW-F-025U-100D-92765-1D-UNV-STD-W-4 (6500K)

**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°	23831	23831	23831
5°	24114	24026	23663
10°	23866	23953	23620
15°	23957	23920	23473
20°	23392	23759	22931
25°	23357	23414	22556
30°	23066	23364	22326
35°	22527	22992	21936
40°	22306	22689	21492
45°	22085	22281	21107
50°	21308	21981	20502
55°	21106	21560	19781
60°	20166	20925	19059
65°	19274	20256	18086
70°	18406	19317	16891
75°	17105	17773	15234
80°	14644	15537	12748
85°	10911	12097	8725



TEST NUMBER: P522319

CATALOG NUMBER: SQW-F-025U-100D-92765-1D-UNV-STD-W-4 (6500K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	139.7	2.3
10°-20°	399.5	6.6
20°-30°	599.8	9.9
30°-40°	717.0	11.8
40°-50°	737.8	12.2
50°-60°	664.2	11.0
60°-70°	504.4	8.3
70°-80°	287.8	4.8
80°-90°	75.3	1.2
90°-100°	18.2	0.3
100°-110°	78.7	1.3
110°-120°	224.4	3.7
120°-130°	341.1	5.6
130°-140°	369.0	6.1
140°-150°	352.5	5.8
150°-160°	289.9	4.8
160°-170°	189.5	3.1
170°-180°	65.5	1.1
0°-30°	1139.0	18.8
0°-40°	1856.0	30.7
0°-60°	3258.0	53.8
0°-90°	4125.6	68.1
90°-120°	321.2	5.3
90°-150°	1383.8	22.9
90°-180°	1929.0	31.9
0°-180°	6054.3	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1476	1476	1476	1476	1476	
5°	1488	1476	1482	1457	1460	140
15°	1433	1425	1431	1411	1404	400
25°	1311	1319	1314	1300	1266	602
35°	1143	1171	1166	1141	1113	720
45°	967	975	976	954	924	739
55°	750	763	766	735	703	664
65°	504	518	530	494	473	502
75°	274	282	285	260	244	287
85°	59	68	65	59	47	71
90°	0	0	0	0	0	2
95°	3	4	12	29	28	4
105°	18	46	91	62	67	21
115°	166	440	227	108	122	228
125°	660	580	363	178	153	580
135°	730	661	478	296	235	563
145°	760	712	569	421	359	476
155°	769	735	636	528	479	355
165°	751	735	681	610	582	213
175°	708	709	697	672	654	69
180°	691	691	691	691	691	



TEST NUMBER: P522319

CATALOG NUMBER: SQW-F-025U-100D-92765-1D-UNV-STD-W-4 (6500K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1476.0	1476.0	1476.0	1476.0	1476.0	1476.0	1476.0	1476.0	1476.0
2.5°	1474.3	1486.0	1470.0	1474.6	1488.9	1471.3	1476.0	1467.4	1466.6
5°	1487.8	1470.0	1476.0	1467.8	1482.4	1468.8	1456.7	1472.5	1460.0
7.5°	1462.5	1451.0	1474.5	1462.7	1470.5	1461.2	1462.5	1453.7	1453.5
10°	1455.7	1448.3	1455.7	1455.8	1461.0	1448.5	1447.1	1437.5	1440.7
12.5°	1436.0	1446.2	1435.1	1449.1	1460.2	1438.4	1430.0	1433.3	1439.0
15°	1433.2	1430.0	1424.6	1420.6	1431.0	1405.9	1410.7	1401.1	1404.3
17.5°	1389.7	1395.6	1398.3	1394.8	1404.3	1381.4	1376.0	1376.0	1377.5
20°	1361.4	1374.0	1382.8	1373.4	1382.8	1365.0	1361.4	1348.2	1334.6
22.5°	1346.0	1343.5	1361.4	1342.6	1355.4	1333.4	1343.4	1320.4	1327.8
25°	1311.1	1300.6	1318.6	1308.0	1314.3	1296.5	1300.4	1272.4	1266.1
27.5°	1264.6	1264.6	1275.5	1271.1	1275.5	1261.3	1257.3	1231.7	1229.2
30°	1237.2	1228.8	1248.9	1239.6	1253.2	1219.7	1222.2	1201.7	1197.5
32.5°	1200.3	1203.7	1217.2	1205.4	1221.5	1189.7	1195.6	1164.2	1169.2
35°	1142.9	1149.2	1170.7	1154.9	1166.5	1147.6	1140.8	1120.2	1112.9
37.5°	1106.3	1096.6	1107.1	1108.1	1111.6	1090.9	1083.3	1058.5	1060.9
40°	1058.3	1056.2	1071.1	1075.4	1076.5	1056.6	1050.8	1020.8	1019.7
42.5°	1014.6	1016.7	1029.1	1034.3	1034.5	1014.6	1013.9	981.5	985.4
45°	967.2	964.1	974.7	973.7	975.8	954.9	954.4	923.3	924.4
47.5°	892.9	899.6	906.8	908.9	917.1	899.3	886.7	862.0	858.2
50°	848.3	860.9	862.3	872.0	875.1	853.1	843.0	822.5	816.2
52.5°	808.9	815.6	821.1	827.5	832.3	812.0	796.7	777.2	775.9
55°	749.8	745.6	762.6	760.6	765.9	750.2	734.8	713.1	702.7
57.5°	673.3	681.5	685.3	693.3	696.9	679.7	666.2	643.3	642.5
60°	624.5	636.0	637.3	651.2	648.0	633.4	619.1	598.6	590.2
62.5°	579.9	583.1	591.9	601.6	602.6	586.3	575.4	553.2	547.3
65°	504.5	510.8	518.4	531.3	530.2	518.7	493.8	481.8	473.4
67.5°	436.2	438.3	448.6	454.7	458.9	443.0	428.7	411.9	408.3
70°	389.9	387.8	400.6	405.0	409.2	396.6	382.4	367.2	357.8
72.5°	339.3	341.4	350.9	357.8	360.3	347.8	332.7	321.0	314.9
75°	274.2	272.1	281.7	286.0	284.9	275.5	260.3	252.6	244.2
77.5°	202.0	206.2	211.9	215.7	214.2	207.9	196.0	184.4	180.8
80°	157.5	161.6	168.2	170.2	167.1	160.8	153.2	142.3	137.1
82.5°	116.3	118.8	125.3	129.1	124.3	120.5	113.8	105.5	99.4
85°	58.9	61.0	67.5	69.5	65.3	65.3	58.9	51.3	47.1
87.5°	13.7	14.5	19.7	25.6	20.6	22.2	17.1	12.8	9.4
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	1.9	2.8	10.2	11.3	9.9	9.9
95°	2.9	2.9	4.1	12.9	12.3	20.9	29.3	27.6	27.6
97.5°	6.0	6.6	9.4	38.2	28.8	27.9	39.7	44.1	44.9
100°	8.8	9.4	14.1	62.3	42.8	36.5	43.4	51.7	53.4
102.5°	12.1	13.1	22.5	98.1	60.2	42.9	49.5	56.8	59.0
105°	18.2	19.9	46.4	164.4	91.0	56.0	62.2	65.2	66.9
107.5°	27.0	34.0	124.9	231.0	129.1	73.9	80.5	80.1	81.6
110°	36.4	50.7	215.9	267.4	157.3	87.8	88.0	92.7	91.0

TEST NUMBER: P522319

CATALOG NUMBER: SQW-F-025U-100D-92765-1D-UNV-STD-W-4 (6500K)

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	60.3	100.8	322.0	302.5	185.4	104.5	95.1	105.4	106.0
115°	165.5	284.2	440.1	351.6	227.1	134.1	108.0	118.0	122.1
117.5°	410.3	494.5	500.5	395.2	268.6	167.2	122.8	127.2	132.5
120°	556.3	573.5	528.7	422.0	296.3	190.8	135.0	133.3	139.1
122.5°	613.5	607.3	551.7	446.9	323.6	215.7	150.0	140.8	144.7
125°	659.5	643.5	580.3	481.4	363.2	253.1	178.4	153.1	153.1
127.5°	687.0	668.3	606.6	512.0	399.0	290.8	212.5	173.2	167.8
130°	703.0	682.9	622.6	533.2	422.5	315.2	236.5	190.5	181.9
132.5°	715.2	696.9	637.6	549.8	445.5	339.1	260.4	212.0	197.9
135°	730.0	714.5	660.7	575.2	477.6	374.9	296.3	249.1	234.7
137.5°	739.5	727.4	681.5	596.0	507.4	410.5	332.6	285.1	272.1
140°	744.6	734.9	691.8	608.4	525.8	433.4	357.9	309.5	297.5
142.5°	749.8	741.9	699.3	622.1	543.6	456.3	382.8	334.4	321.4
145°	760.5	751.3	711.8	638.6	569.2	488.3	421.3	370.6	359.1
147.5°	768.0	757.0	722.0	656.3	593.4	517.3	456.6	407.7	396.3
150°	769.9	758.4	727.6	665.9	607.9	535.0	478.2	431.6	420.7
152.5°	768.4	759.7	731.8	673.9	620.1	552.3	497.9	454.6	444.7
155°	769.3	761.2	735.2	684.8	635.5	576.4	527.5	489.1	478.8
157.5°	765.7	760.5	737.6	693.2	649.7	597.9	554.6	522.3	511.9
160°	765.7	757.7	737.6	698.0	659.5	611.9	571.5	542.6	534.0
162.5°	760.6	753.5	737.1	701.4	668.9	625.0	587.5	560.5	554.2
165°	751.1	745.3	734.6	705.9	680.7	642.8	610.3	586.1	582.1
167.5°	743.7	735.8	730.0	705.7	688.6	655.6	629.5	609.5	607.2
170°	735.2	730.1	725.3	704.4	692.4	664.9	643.1	623.1	620.8
172.5°	724.4	721.6	719.2	703.6	694.7	672.7	654.8	636.7	632.5
175°	707.7	710.0	709.4	701.7	697.1	682.8	671.9	658.8	653.7
177.5°	697.3	696.4	698.7	697.3	696.9	688.1	685.1	676.3	679.0
180°	691.2	691.2	691.2	691.2	691.2	691.2	691.2	691.2	691.2

(END OF REPORT)