

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: P522451

Luminaire Tested: **SQW-F-100U-025D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522451
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-100U-025D-92765-1D-UNV-STD-W-4 (4000K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

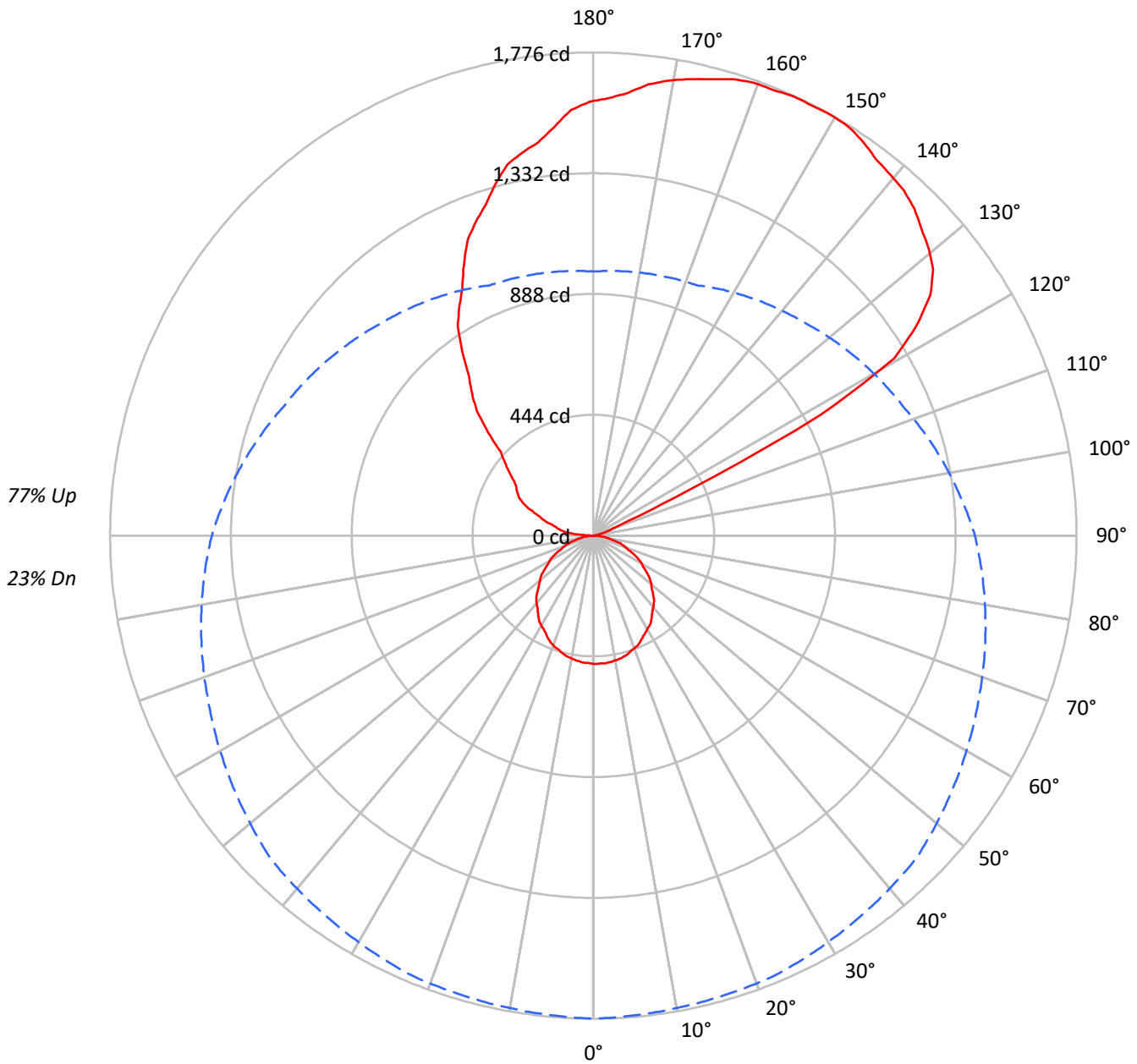
Lumens per Lamp: N/A
Luminaire Lumens: 5766.2 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 49.6
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 0° Lateral - - - Horizontal Cone Through 150° 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	101	101	101	101	89	89	89	89	68	68	68	49	49	49	31	31	31	23
1	92	87	84	80	81	78	75	72	60	58	56	43	42	40	27	27	26	19
2	83	76	70	65	74	68	63	59	52	49	46	38	35	34	24	23	22	16
3	76	67	60	54	67	60	54	49	46	42	38	33	30	28	21	20	19	13
4	69	59	51	46	61	53	46	41	41	36	33	29	26	24	19	17	16	11
5	63	52	45	39	56	47	40	35	36	31	28	26	23	21	17	15	14	10
6	58	47	39	33	52	42	35	30	32	28	24	24	20	18	15	13	12	9
7	54	42	34	29	48	38	31	26	29	24	21	21	18	16	14	12	11	8
8	50	38	31	25	44	34	28	23	26	22	19	19	16	14	13	11	9	7
9	46	34	27	22	41	31	25	20	24	20	16	18	15	12	12	10	8	6
10	43	31	25	20	38	28	22	18	22	18	15	16	13	11	11	9	8	6

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	7629	7629	7629
5°	7642	7707	7592
10°	7630	7696	7547
15°	7609	7659	7490
20°	7558	7612	7419
25°	7438	7529	7274
30°	7366	7443	7157
35°	7285	7366	7045
40°	7168	7255	6890
45°	7044	7138	6720
50°	6905	7008	6496
55°	6680	6852	6305
60°	6478	6675	6051
65°	6147	6499	5757
70°	5816	6203	5382
75°	5402	5714	4828
80°	4826	5021	4258
85°	3575	3779	2834



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.7	0.8
10°-20°	127.8	2.2
20°-30°	192.2	3.3
30°-40°	229.8	4.0
40°-50°	236.2	4.1
50°-60°	211.0	3.7
60°-70°	160.3	2.8
70°-80°	91.6	1.6
80°-90°	24.2	0.4
90°-100°	41.9	0.7
100°-110°	181.5	3.1
110°-120°	517.4	9.0
120°-130°	786.8	13.6
130°-140°	850.9	14.8
140°-150°	813.1	14.1
150°-160°	668.7	11.6
160°-170°	437.0	7.6
170°-180°	151.1	2.6
0°-30°	364.7	6.3
0°-40°	594.5	10.3
0°-60°	1041.7	18.1
0°-90°	1317.8	22.9
90°-120°	740.8	12.8
90°-150°	3191.6	55.3
90°-180°	4448.0	77.1
0°-180°	5766.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	472	472	472	472	472	
5°	472	472	476	470	468	45
15°	455	456	458	452	448	128
25°	418	423	423	416	408	193
35°	370	375	374	366	357	231
45°	308	313	313	304	294	238
55°	237	241	243	231	224	212
65°	161	166	170	158	151	159
75°	87	90	92	82	77	92
85°	19	22	20	18	15	23
90°	0	0	0	0	0	1
95°	7	10	28	68	64	9
105°	42	107	210	144	154	48
115°	382	1015	524	249	282	525
125°	1521	1338	838	411	353	1337
135°	1684	1524	1102	683	541	1298
145°	1754	1642	1313	972	828	1099
155°	1774	1696	1466	1217	1104	820
165°	1732	1694	1570	1407	1342	492
175°	1632	1636	1608	1550	1508	158
180°	1594	1594	1594	1594	1594	



TEST NUMBER: P522451

CATALOG NUMBER: SQW-F-100U-025D-92765-1D-UNV-STD-W-4 (4000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	472.5	472.5	472.5	472.5	472.5	472.5	472.5	472.5	472.5
2.5°	470.9	471.7	472.5	472.6	476.6	471.8	471.7	470.8	469.2
5°	471.5	471.5	471.5	470.6	475.5	469.6	470.5	468.4	468.4
7.5°	468.6	467.8	468.0	466.9	471.9	465.7	465.8	464.5	464.3
10°	465.4	465.4	466.4	464.5	469.4	462.5	463.3	461.3	460.3
12.5°	462.1	461.3	462.3	460.4	465.4	458.4	458.4	455.6	455.4
15°	455.2	455.2	456.2	454.3	458.2	452.3	452.1	449.0	448.1
17.5°	446.4	446.2	448.5	445.5	449.5	442.5	442.6	439.9	438.3
20°	439.9	438.9	441.9	439.0	443.0	436.0	436.8	431.8	431.8
22.5°	431.8	430.8	434.6	430.8	434.8	427.8	428.7	422.8	422.0
25°	417.5	418.5	422.6	419.6	422.6	415.6	415.5	409.3	408.3
27.5°	405.7	404.9	410.2	406.0	408.9	402.0	402.0	394.7	393.7
30°	395.1	395.1	401.2	396.2	399.2	392.2	393.1	384.9	383.9
32.5°	385.3	385.3	390.6	387.2	389.4	382.4	381.7	374.3	373.3
35°	369.6	369.6	374.7	371.7	373.7	366.7	365.6	357.4	357.4
37.5°	352.3	351.5	356.4	354.4	356.4	349.6	347.2	340.1	339.1
40°	340.1	340.1	344.2	342.2	344.2	338.2	335.0	327.9	326.9
42.5°	327.1	327.1	332.0	330.0	332.0	325.2	322.0	314.8	313.8
45°	308.5	308.5	312.6	311.6	312.6	306.6	303.5	295.3	294.3
47.5°	288.8	288.0	291.8	292.1	293.7	287.1	282.9	275.1	274.1
50°	274.9	274.9	278.0	279.0	279.0	274.0	269.8	259.6	258.6
52.5°	258.6	259.4	262.5	263.6	264.4	257.8	253.6	245.8	244.8
55°	237.3	236.3	241.3	242.4	243.4	237.4	231.2	225.0	224.0
57.5°	215.3	215.1	219.3	220.6	221.4	216.4	210.2	203.2	202.0
60°	200.6	199.6	204.7	206.7	206.7	201.7	195.5	189.4	187.4
62.5°	183.5	185.7	189.2	191.3	192.9	187.1	180.0	174.7	172.7
65°	160.9	161.9	166.0	168.1	170.1	164.1	157.8	152.7	150.7
67.5°	137.9	139.7	142.8	144.8	146.8	141.1	134.8	130.5	128.7
70°	123.2	124.2	127.3	129.4	131.4	126.4	120.2	115.0	114.0
72.5°	108.6	109.5	112.6	113.9	115.1	110.1	104.7	101.2	99.4
75°	86.6	87.6	89.6	90.7	91.6	86.7	82.5	79.4	77.4
77.5°	65.8	65.8	67.8	68.6	68.6	65.6	61.7	58.8	57.2
80°	51.9	51.9	54.0	54.0	54.0	51.0	47.9	45.8	45.8
82.5°	38.1	38.9	40.9	40.9	40.1	37.9	35.6	33.6	33.6
85°	19.3	20.3	22.4	22.4	20.4	20.4	18.3	17.3	15.3
87.5°	4.9	5.7	7.3	8.1	6.5	6.5	4.9	3.3	3.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	2.2	2.2	2.2	4.4	6.5	23.4	26.0	22.7	22.7
95°	6.8	6.8	9.5	29.7	28.4	48.3	67.7	63.6	63.6
97.5°	13.8	15.1	21.7	88.0	66.3	64.5	91.5	101.8	103.7
100°	20.3	21.6	32.5	143.8	98.8	84.2	100.1	119.2	123.2
102.5°	27.9	30.3	52.0	226.2	138.9	98.9	114.2	131.1	136.1
105°	42.0	45.9	106.9	379.1	209.8	129.0	143.5	150.3	154.3
107.5°	62.3	78.4	288.0	532.7	297.7	170.4	185.7	184.7	188.1
110°	83.9	117.0	498.0	616.8	362.7	202.6	203.0	213.7	209.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	139.1	232.5	742.7	697.6	427.6	241.1	219.2	243.1	244.4
115°	381.6	655.5	1015.0	810.9	523.7	309.4	249.0	272.2	281.5
117.5°	946.2	1140.5	1154.4	911.5	619.5	385.6	283.1	293.4	305.6
120°	1282.9	1322.6	1219.3	973.2	683.4	439.9	311.3	307.5	320.7
122.5°	1415.0	1400.7	1272.4	1030.7	746.2	497.4	345.9	324.7	333.7
125°	1521.1	1484.1	1338.4	1110.3	837.7	583.6	411.4	353.2	353.2
127.5°	1584.5	1541.3	1399.1	1180.9	920.3	670.7	490.2	399.5	387.0
130°	1621.3	1575.0	1435.9	1229.8	974.4	726.9	545.4	439.4	419.5
132.5°	1649.4	1607.3	1470.5	1268.0	1027.4	782.1	600.6	488.9	456.3
135°	1683.5	1647.8	1523.8	1326.6	1101.6	864.7	683.4	574.4	541.3
137.5°	1705.4	1677.7	1571.7	1374.7	1170.3	946.7	767.1	657.6	627.7
140°	1717.4	1694.9	1595.6	1403.1	1212.6	999.5	825.5	713.9	686.1
142.5°	1729.3	1711.0	1612.9	1434.7	1253.7	1052.3	882.9	771.3	741.3
145°	1753.9	1732.7	1641.6	1472.8	1312.7	1126.1	971.7	854.7	828.2
147.5°	1771.2	1745.8	1665.1	1513.8	1368.5	1193.0	1053.2	940.2	914.0
150°	1775.6	1749.1	1678.1	1535.7	1402.0	1234.0	1103.0	995.5	970.3
152.5°	1772.3	1752.2	1687.9	1554.3	1430.2	1273.8	1148.4	1048.6	1025.5
155°	1774.2	1755.7	1695.7	1579.4	1465.6	1329.3	1216.6	1128.1	1104.3
157.5°	1766.1	1753.9	1701.1	1598.7	1498.4	1379.0	1279.2	1204.7	1180.6
160°	1766.1	1747.6	1701.1	1609.8	1521.1	1411.3	1318.1	1251.4	1231.5
162.5°	1754.2	1737.8	1700.0	1617.7	1542.8	1441.4	1354.9	1292.6	1278.1
165°	1732.2	1719.0	1694.4	1628.1	1569.8	1482.5	1407.4	1351.8	1342.5
167.5°	1715.2	1696.9	1683.5	1627.7	1588.3	1512.0	1451.8	1405.7	1400.4
170°	1695.7	1683.8	1672.7	1624.7	1596.9	1533.4	1483.2	1437.1	1431.8
172.5°	1670.8	1664.2	1658.6	1622.7	1602.3	1551.5	1510.3	1468.4	1458.9
175°	1632.1	1637.4	1636.2	1618.3	1607.7	1574.7	1549.5	1519.5	1507.6
177.5°	1608.3	1606.2	1611.5	1608.3	1607.2	1587.1	1580.1	1559.7	1566.1
180°	1594.2	1594.2	1594.2	1594.2	1594.2	1594.2	1594.2	1594.2	1594.2

(END OF REPORT)