

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: P522450

Luminaire Tested: **SQW-F-100U-025D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522450
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 (3500K)
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 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

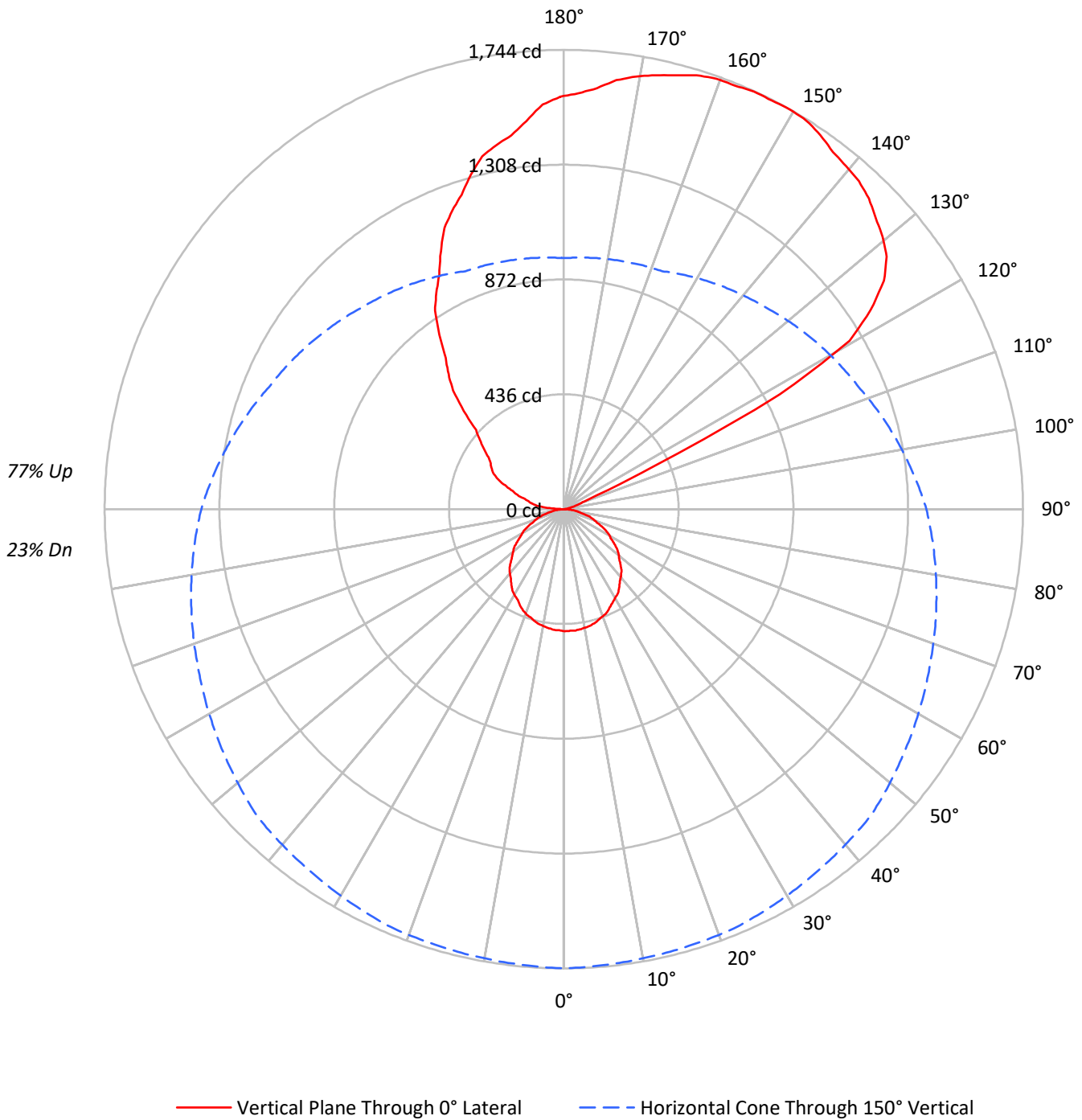
Lumens per Lamp: N/A
Luminaire Lumens: 5662.7 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

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





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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°	7492	7492	7492
5°	7504	7569	7455
10°	7492	7558	7411
15°	7472	7522	7355
20°	7423	7474	7285
25°	7304	7393	7144
30°	7234	7308	7029
35°	7155	7234	6918
40°	7040	7124	6766
45°	6919	7010	6599
50°	6782	6882	6380
55°	6559	6728	6193
60°	6361	6555	5942
65°	6036	6380	5654
70°	5712	6090	5287
75°	5303	5614	4741
80°	4742	4928	4184
85°	3520	3705	2779



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.9	0.8
10°-20°	125.5	2.2
20°-30°	188.7	3.3
30°-40°	225.7	4.0
40°-50°	232.0	4.1
50°-60°	207.2	3.7
60°-70°	157.4	2.8
70°-80°	89.9	1.6
80°-90°	23.8	0.4
90°-100°	41.1	0.7
100°-110°	178.2	3.1
110°-120°	508.1	9.0
120°-130°	772.6	13.6
130°-140°	835.7	14.8
140°-150°	798.5	14.1
150°-160°	656.7	11.6
160°-170°	429.1	7.6
170°-180°	148.4	2.6
0°-30°	358.1	6.3
0°-40°	583.8	10.3
0°-60°	1023.0	18.1
0°-90°	1294.2	22.9
90°-120°	727.5	12.8
90°-150°	3134.2	55.3
90°-180°	4368.0	77.1
0°-180°	5662.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	464	464	464	464	464	
5°	463	463	467	462	460	44
15°	447	448	450	444	440	126
25°	410	415	415	408	401	189
35°	363	368	367	359	351	227
45°	303	307	307	298	289	234
55°	233	237	239	227	220	208
65°	158	163	167	155	148	156
75°	85	88	90	81	76	90
85°	19	22	20	18	15	23
90°	0	0	0	0	0	1
95°	7	9	28	66	62	8
105°	41	105	206	141	152	48
115°	375	997	514	244	276	516
125°	1494	1314	823	404	347	1313
135°	1653	1496	1082	671	532	1274
145°	1722	1612	1289	954	813	1079
155°	1742	1665	1439	1195	1084	805
165°	1701	1664	1542	1382	1318	483
175°	1603	1607	1579	1522	1480	155
180°	1566	1566	1566	1566	1566	



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CATALOG NUMBER: SQW-F-100U-025D-92765-1D-UNV-STD-W-4 (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	464.0	464.0	464.0	464.0	464.0	464.0	464.0	464.0	464.0
2.5°	462.4	463.2	464.0	464.1	468.0	463.3	463.2	462.4	460.8
5°	463.0	463.0	463.0	462.1	467.0	461.1	462.0	460.0	460.0
7.5°	460.2	459.4	459.6	458.5	463.4	457.3	457.4	456.2	456.0
10°	457.0	457.0	458.0	456.1	461.0	454.2	455.0	453.0	452.0
12.5°	453.8	453.0	454.0	452.1	457.0	450.2	450.2	447.4	447.2
15°	447.0	447.0	448.0	446.1	450.0	444.1	444.0	441.0	440.0
17.5°	438.4	438.2	440.4	437.5	441.4	434.6	434.6	432.0	430.4
20°	432.0	431.0	434.0	431.1	435.0	428.2	429.0	424.0	424.0
22.5°	424.0	423.0	426.8	423.1	427.0	420.2	421.0	415.2	414.4
25°	410.0	411.0	415.0	412.1	415.0	408.2	408.0	402.0	401.0
27.5°	398.4	397.6	402.8	398.7	401.6	394.8	394.8	387.6	386.6
30°	388.0	388.0	394.0	389.1	392.0	385.2	386.0	378.0	377.0
32.5°	378.4	378.4	383.6	380.3	382.4	375.6	374.8	367.6	366.6
35°	363.0	363.0	368.0	365.0	367.0	360.2	359.0	351.0	351.0
37.5°	346.0	345.2	350.0	348.0	350.0	343.4	341.0	334.0	333.0
40°	334.0	334.0	338.0	336.0	338.0	332.1	329.0	322.0	321.0
42.5°	321.2	321.2	326.0	324.0	326.0	319.4	316.2	309.2	308.2
45°	303.0	303.0	307.0	306.0	307.0	301.1	298.0	290.0	289.0
47.5°	283.6	282.8	286.6	286.8	288.4	281.9	277.8	270.2	269.2
50°	270.0	270.0	273.0	274.0	274.0	269.1	265.0	255.0	254.0
52.5°	254.0	254.8	257.8	258.8	259.6	253.1	249.0	241.4	240.4
55°	233.0	232.0	237.0	238.0	239.0	233.1	227.0	221.0	220.0
57.5°	211.4	211.2	215.4	216.6	217.4	212.5	206.4	199.6	198.4
60°	197.0	196.0	201.0	203.0	203.0	198.1	192.0	186.0	184.0
62.5°	180.2	182.4	185.8	187.8	189.4	183.7	176.8	171.6	169.6
65°	158.0	159.0	163.0	165.0	167.0	161.1	155.0	150.0	148.0
67.5°	135.4	137.2	140.2	142.2	144.2	138.5	132.4	128.2	126.4
70°	121.0	122.0	125.0	127.0	129.0	124.1	118.0	113.0	112.0
72.5°	106.6	107.6	110.6	111.8	113.0	108.1	102.8	99.4	97.6
75°	85.0	86.0	88.0	89.0	90.0	85.1	81.0	78.0	76.0
77.5°	64.6	64.6	66.6	67.4	67.4	64.5	60.6	57.8	56.2
80°	51.0	51.0	53.0	53.0	53.0	50.1	47.0	45.0	45.0
82.5°	37.4	38.2	40.2	40.2	39.4	37.2	35.0	33.0	33.0
85°	19.0	20.0	22.0	22.0	20.0	20.0	18.0	17.0	15.0
87.5°	4.8	5.6	7.2	8.0	6.4	6.4	4.8	3.2	3.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	2.1	2.1	2.1	4.3	6.4	23.0	25.5	22.3	22.3
95°	6.6	6.6	9.3	29.2	27.9	47.4	66.5	62.5	62.5
97.5°	13.6	14.9	21.3	86.4	65.1	63.3	89.8	100.0	101.8
100°	19.9	21.2	31.9	141.2	97.0	82.7	98.3	117.0	120.9
102.5°	27.4	29.7	51.0	222.1	136.4	97.1	112.2	128.8	133.7
105°	41.2	45.1	105.0	372.3	206.0	126.7	140.9	147.6	151.5
107.5°	61.1	77.0	282.8	523.2	292.4	167.4	182.3	181.4	184.7
110°	82.4	114.9	489.1	605.7	356.2	198.9	199.4	209.9	206.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	136.6	228.4	729.4	685.1	420.0	236.7	215.3	238.7	240.0
115°	374.8	643.8	996.8	796.3	514.3	303.8	244.5	267.3	276.4
117.5°	929.2	1120.0	1133.6	895.1	608.4	378.7	278.0	288.1	300.1
120°	1259.9	1298.9	1197.4	955.7	671.1	432.0	305.7	302.0	315.0
122.5°	1389.6	1375.6	1249.5	1012.2	732.8	488.5	339.7	318.9	327.7
125°	1493.8	1457.4	1314.4	1090.3	822.7	573.2	404.0	346.9	346.9
127.5°	1556.0	1513.6	1373.9	1159.7	903.7	658.6	481.4	392.3	380.1
130°	1592.1	1546.7	1410.1	1207.7	956.9	713.9	535.6	431.5	412.0
132.5°	1619.8	1578.5	1444.1	1245.2	1009.0	768.1	589.8	480.1	448.1
135°	1653.3	1618.2	1496.5	1302.7	1081.8	849.2	671.1	564.1	531.6
137.5°	1674.8	1647.5	1543.5	1350.0	1149.3	929.7	753.3	645.8	616.4
140°	1686.5	1664.4	1566.9	1377.9	1190.8	981.6	810.7	701.1	673.8
142.5°	1698.2	1680.3	1583.9	1409.0	1231.2	1033.4	867.0	757.4	728.0
145°	1722.4	1701.6	1612.1	1446.4	1289.1	1105.9	954.2	839.3	813.3
147.5°	1739.4	1714.4	1635.2	1486.6	1343.9	1171.6	1034.2	923.3	897.6
150°	1743.7	1717.7	1648.0	1508.1	1376.8	1211.8	1083.1	977.6	952.9
152.5°	1740.5	1720.7	1657.5	1526.4	1404.5	1250.9	1127.8	1029.7	1007.1
155°	1742.3	1724.1	1665.2	1551.1	1439.3	1305.5	1194.8	1107.9	1084.5
157.5°	1734.3	1722.4	1670.6	1570.0	1471.5	1354.3	1256.2	1183.1	1159.4
160°	1734.3	1716.2	1670.6	1580.9	1493.8	1385.9	1294.4	1228.9	1209.4
162.5°	1722.7	1706.5	1669.5	1588.6	1515.1	1415.5	1330.6	1269.4	1255.1
165°	1701.1	1688.1	1663.9	1598.8	1541.6	1455.9	1382.2	1327.5	1318.4
167.5°	1684.4	1666.4	1653.3	1598.4	1559.7	1484.9	1425.8	1380.5	1375.3
170°	1665.2	1653.5	1642.6	1595.5	1568.2	1505.8	1456.6	1411.3	1406.1
172.5°	1640.8	1634.3	1628.8	1593.6	1573.5	1523.6	1483.2	1442.0	1432.7
175°	1602.8	1608.0	1606.8	1589.3	1578.9	1546.4	1521.7	1492.2	1480.5
177.5°	1579.4	1577.3	1582.6	1579.4	1578.3	1558.6	1551.7	1531.7	1537.9
180°	1565.6	1565.6	1565.6	1565.6	1565.6	1565.6	1565.6	1565.6	1565.6

(END OF REPORT)