

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: P522466

Luminaire Tested: **SQW-F-100U-075D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522466
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-075D-92765-1D-UNV-STD-W-4 (3500K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 750 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

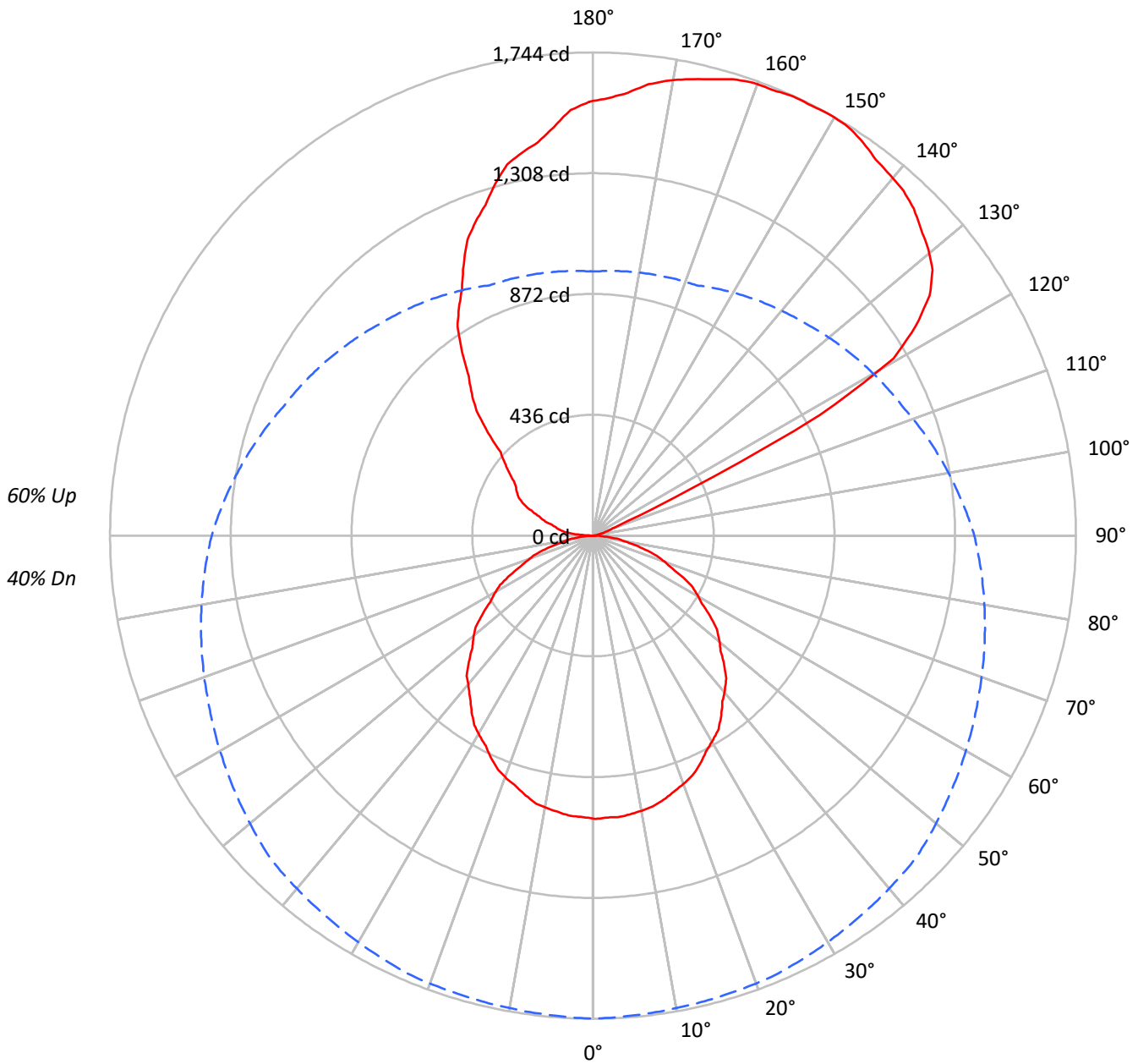
Lumens per Lamp: N/A
Luminaire Lumens: 7225.0 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 67.2
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	105	105	105	105	95	95	95	95	78	78	78	61	61	61	47	47	47	40
1	95	91	87	84	87	83	80	77	68	65	63	54	52	51	41	40	39	33
2	87	79	73	68	79	72	67	63	59	55	52	47	45	42	36	34	33	28
3	79	70	62	57	72	64	57	52	52	48	44	42	38	36	32	30	28	23
4	72	61	54	48	65	56	49	44	46	41	37	37	33	30	28	26	24	20
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	23	21	17
6	61	49	41	35	55	45	38	33	37	32	28	30	26	23	23	20	18	15
7	56	44	36	31	51	40	33	28	33	28	24	27	23	20	21	18	16	13
8	52	40	32	27	47	37	30	25	30	25	21	25	21	18	19	16	14	12
9	48	36	29	24	44	33	27	22	28	23	19	23	19	16	18	15	13	11
10	45	33	26	21	41	31	24	20	26	21	17	21	17	14	16	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	16517	16517	16517
5°	16532	16678	16451
10°	16510	16624	16346
15°	16448	16565	16197
20°	16340	16460	15996
25°	16140	16319	15748
30°	15940	16127	15493
35°	15709	15906	15236
40°	15449	15681	14880
45°	15162	15458	14591
50°	14820	15172	14242
55°	14441	14863	13821
60°	13982	14564	13304
65°	13372	14097	12646
70°	12652	13454	11707
75°	11541	12227	10543
80°	10042	10879	9019
85°	7595	8522	6299



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.8	1.3
10°-20°	276.5	3.8
20°-30°	415.9	5.8
30°-40°	496.8	6.9
40°-50°	510.7	7.1
50°-60°	459.6	6.4
60°-70°	349.8	4.8
70°-80°	198.2	2.7
80°-90°	52.1	0.7
90°-100°	41.1	0.6
100°-110°	178.2	2.5
110°-120°	508.1	7.0
120°-130°	772.6	10.7
130°-140°	835.7	11.6
140°-150°	798.5	11.1
150°-160°	656.7	9.1
160°-170°	429.1	5.9
170°-180°	148.4	2.1
0°-30°	789.2	10.9
0°-40°	1286.0	17.8
0°-60°	2256.4	31.2
0°-90°	2856.5	39.5
90°-120°	727.5	10.1
90°-150°	3134.2	43.4
90°-180°	4368.0	60.5
0°-180°	7225.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1023	1023	1023	1023	1023	
5°	1020	1020	1029	1017	1015	97
15°	984	986	991	978	969	278
25°	906	915	916	900	884	417
35°	797	808	807	790	773	498
45°	664	673	677	657	639	512
55°	513	523	528	508	491	458
65°	350	360	369	347	331	347
75°	185	191	196	180	169	196
85°	41	46	46	41	34	49
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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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1023.0	1023.0	1023.0	1023.0	1023.0	1023.0	1023.0	1023.0	1023.0
2.5°	1019.0	1022.1	1022.2	1022.4	1030.2	1021.6	1021.4	1021.3	1016.6
5°	1020.0	1020.0	1020.0	1018.2	1029.0	1017.3	1017.0	1015.0	1015.0
7.5°	1014.2	1012.4	1013.6	1011.4	1021.2	1008.5	1009.2	1007.0	1006.6
10°	1007.0	1006.0	1008.0	1004.2	1014.0	1001.3	1002.0	999.0	997.0
12.5°	999.0	998.0	1000.8	995.4	1006.0	993.3	993.2	989.4	989.0
15°	984.0	984.0	986.0	982.2	991.0	978.3	978.0	973.9	969.0
17.5°	966.2	964.0	968.8	962.6	971.6	957.3	958.4	952.5	947.0
20°	951.0	948.1	956.0	948.2	958.0	941.4	944.0	934.9	931.0
22.5°	933.4	931.2	940.0	933.0	942.0	926.2	927.2	915.7	912.6
25°	906.0	905.0	915.0	907.2	916.0	899.4	900.0	887.9	884.0
27.5°	875.8	875.0	886.0	878.2	885.8	870.4	870.8	857.5	852.6
30°	855.0	855.0	866.0	858.2	865.0	850.3	850.0	835.9	831.0
32.5°	832.6	831.8	842.8	836.5	842.6	827.2	826.0	812.7	807.8
35°	797.0	797.0	808.0	801.1	807.0	793.3	790.0	776.9	773.0
37.5°	759.4	758.4	769.4	765.1	770.4	755.9	751.4	737.4	736.4
40°	733.0	732.0	743.0	741.1	744.0	730.3	725.0	710.9	706.0
42.5°	705.8	706.4	715.8	713.9	717.6	703.9	698.6	683.7	681.2
45°	664.0	663.0	673.0	672.1	677.0	663.3	657.0	641.0	639.0
47.5°	620.4	620.8	629.6	630.7	633.6	621.1	613.6	597.8	595.8
50°	590.0	592.0	600.0	601.1	604.0	592.3	584.0	569.0	567.0
52.5°	560.4	561.6	569.6	573.0	573.6	563.4	553.6	539.4	537.4
55°	513.0	515.9	523.0	527.0	528.0	519.2	508.0	493.9	491.0
57.5°	465.0	467.0	476.6	481.2	481.4	472.2	461.0	447.9	443.2
60°	433.0	435.0	443.0	450.0	451.0	440.2	429.0	415.9	412.0
62.5°	400.2	402.2	410.2	417.2	418.2	408.2	396.2	383.1	380.0
65°	350.0	352.0	360.0	368.0	369.0	359.2	347.0	333.9	331.0
67.5°	300.8	302.8	310.6	317.2	319.4	308.8	297.6	285.5	281.6
70°	268.0	270.0	277.0	282.1	285.0	275.2	264.0	251.9	248.0
72.5°	233.6	234.8	241.8	247.6	248.2	240.0	229.6	219.9	216.8
75°	185.0	187.0	191.0	197.0	196.0	188.2	180.0	172.9	169.0
77.5°	138.4	140.6	144.4	148.4	149.0	141.8	134.8	127.7	125.0
80°	108.0	110.9	114.0	118.0	117.0	112.1	106.0	99.0	97.0
82.5°	80.0	82.2	86.0	89.1	86.6	83.3	78.8	71.8	69.8
85°	41.0	42.0	46.0	48.9	46.0	45.0	41.0	36.0	34.0
87.5°	8.8	10.4	13.6	17.5	14.4	15.2	12.0	8.0	7.2
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)