

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: P522598

Luminaire Tested: **SQW-F-100U-075D-93050-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522598
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-53,
Test Lab: INNOVATION CENTER
Issue Date: 5/11/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQW-F-100U-075D-93050-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

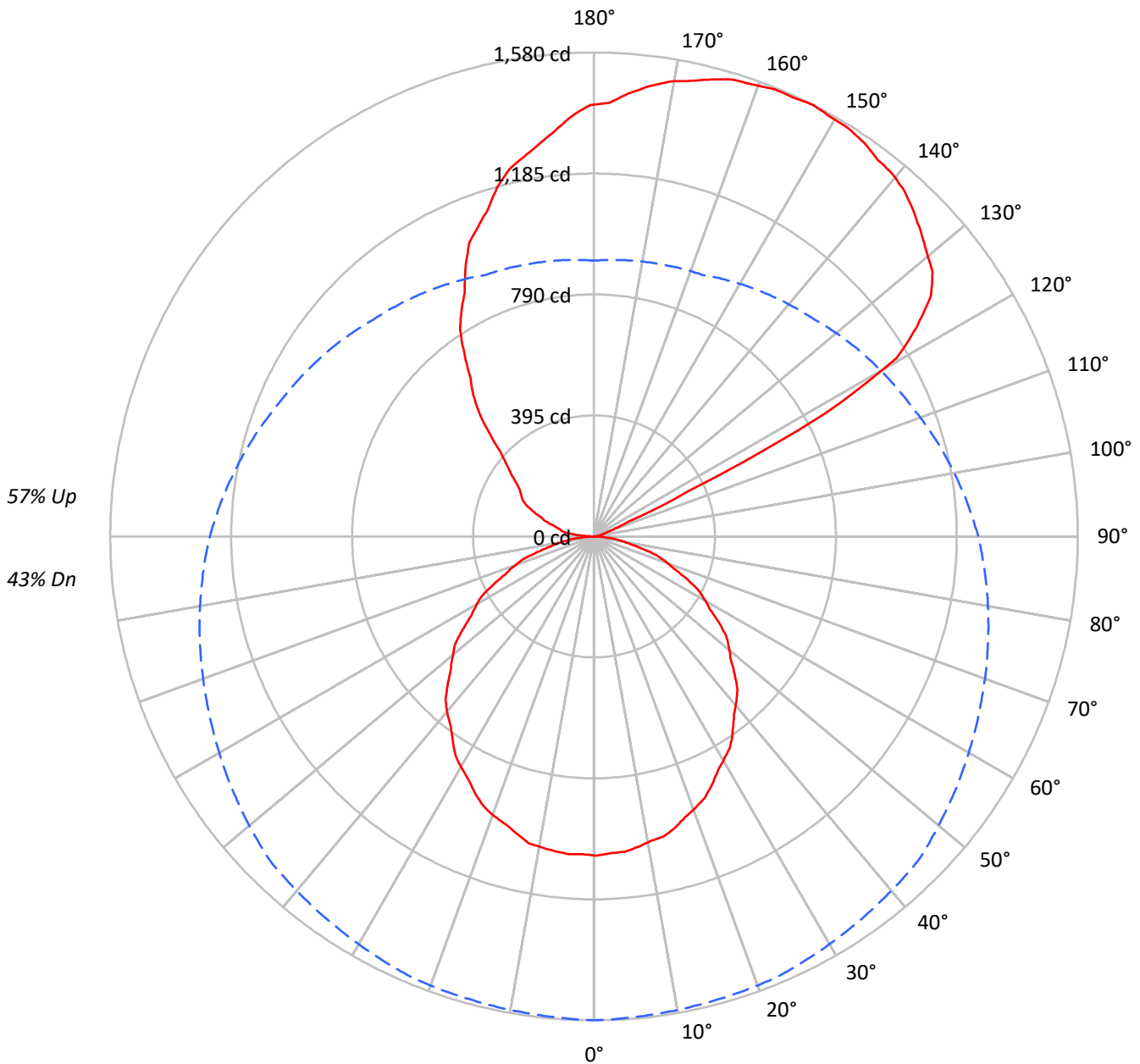
Lumens per Lamp: N/A
Luminaire Lumens: 6822.9 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 66.2
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 152.5° 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	105	105	105	105	96	96	96	96	79	79	79	64	64	64	49	49	49	43
1	96	92	88	84	88	84	81	78	69	67	65	56	54	53	43	42	41	36
2	87	80	74	69	79	73	68	63	61	57	53	49	46	44	38	36	35	30
3	80	70	63	57	72	64	58	53	53	49	45	43	40	37	34	31	29	25
4	73	62	54	48	66	57	50	45	47	42	38	38	35	32	30	27	25	21
5	67	55	47	41	61	51	43	38	42	37	33	34	30	27	27	24	22	18
6	61	49	41	35	56	45	38	33	38	32	28	31	27	24	24	21	19	16
7	57	44	36	31	52	41	34	29	34	29	25	28	24	21	22	19	17	14
8	52	40	33	27	48	37	30	25	31	26	22	26	22	19	20	17	15	13
9	49	37	29	24	45	34	27	23	29	23	20	23	19	17	19	16	14	11
10	46	34	26	22	42	31	25	20	26	21	18	22	18	15	17	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	16824	16824	16824
5°	16762	17000	16857
10°	16585	16923	16875
15°	16500	16893	16762
20°	16252	16758	16673
25°	15959	16571	16536
30°	15659	16373	16281
35°	15376	16208	16032
40°	15055	16048	15841
45°	14721	15817	15593
50°	14345	15478	15282
55°	13892	15192	14860
60°	13340	14828	14447
65°	12596	14357	13868
70°	11764	13709	13199
75°	10405	12489	11996
80°	8666	10944	10581
85°	5632	8540	8188



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.5	1.4
10°-20°	281.3	4.1
20°-30°	423.3	6.2
30°-40°	505.6	7.4
40°-50°	520.3	7.6
50°-60°	467.7	6.9
60°-70°	356.3	5.2
70°-80°	202.2	3.0
80°-90°	53.0	0.8
90°-100°	35.6	0.5
100°-110°	157.8	2.3
110°-120°	453.4	6.6
120°-130°	690.6	10.1
130°-140°	749.7	11.0
140°-150°	716.9	10.5
150°-160°	590.6	8.7
160°-170°	386.5	5.7
170°-180°	133.8	2.0
0°-30°	803.1	11.8
0°-40°	1308.7	19.2
0°-60°	2296.7	33.7
0°-90°	2908.2	42.6
90°-120°	646.8	9.5
90°-150°	2803.9	41.1
90°-180°	3915.0	57.4
0°-180°	6822.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1042	1042	1042	1042	1042	
5°	1034	1035	1049	1042	1040	98
15°	987	992	1011	1006	1003	278
25°	896	916	930	936	928	413
35°	780	801	822	827	813	488
45°	645	663	693	690	683	497
55°	494	513	540	537	528	441
65°	330	350	376	373	363	327
75°	167	180	200	198	192	178
85°	30	39	46	49	44	40
90°	0	0	0	0	0	1
95°	5	8	25	55	54	7
105°	35	96	181	125	133	41
115°	340	894	457	214	240	470
125°	1351	1176	728	361	307	1186
135°	1488	1348	966	598	476	1149
145°	1558	1450	1152	852	727	976
155°	1574	1509	1290	1068	974	728
165°	1541	1502	1383	1243	1183	437
175°	1450	1454	1425	1362	1330	140
180°	1408	1408	1408	1408	1408	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1042.0	1042.0	1042.0	1042.0	1042.0	1042.0	1042.0	1042.0	1042.0
2.5°	1035.8	1038.8	1040.5	1036.9	1051.5	1039.2	1043.6	1040.4	1038.1
5°	1034.2	1033.2	1035.2	1031.6	1048.9	1035.5	1042.0	1037.2	1040.1
7.5°	1024.2	1022.3	1025.8	1026.3	1039.3	1029.5	1033.4	1032.1	1035.6
10°	1011.6	1013.5	1019.5	1020.7	1032.2	1021.7	1026.3	1027.4	1029.3
12.5°	1006.1	1002.7	1009.3	1012.9	1025.2	1012.3	1020.9	1020.3	1023.8
15°	987.1	986.1	992.0	995.3	1010.6	999.1	1005.7	1005.7	1002.8
17.5°	963.2	963.2	971.0	972.5	988.7	980.2	986.7	983.7	983.0
20°	945.9	945.9	957.7	956.1	975.3	967.6	973.4	966.6	970.4
22.5°	926.3	927.0	941.2	938.8	957.3	952.7	959.2	949.3	953.9
25°	895.8	898.7	915.5	913.9	930.2	925.4	936.1	924.4	928.2
27.5°	863.5	867.5	884.3	884.0	900.2	896.7	909.0	895.5	896.0
30°	839.9	844.7	861.5	862.8	878.2	872.4	887.0	874.2	873.3
32.5°	817.2	821.2	838.0	840.9	856.2	852.8	864.3	851.5	849.7
35°	780.1	784.9	800.7	805.9	822.3	817.5	827.2	815.3	813.4
37.5°	741.8	744.9	761.6	766.2	785.8	781.7	787.9	776.5	776.7
40°	714.3	718.2	734.9	740.3	761.4	756.6	760.4	750.6	751.6
42.5°	686.8	690.7	706.7	714.4	733.9	729.1	732.2	723.9	724.1
45°	644.7	647.5	663.3	673.5	692.7	687.9	689.8	682.0	682.9
47.5°	600.9	603.0	617.4	631.7	647.6	645.5	645.8	636.1	639.0
50°	571.1	573.9	586.8	601.8	616.2	617.2	615.2	605.5	608.4
52.5°	540.5	542.6	557.7	570.4	585.6	587.3	583.8	574.8	577.0
55°	493.5	495.5	513.2	526.2	539.7	540.6	536.7	529.8	527.9
57.5°	445.3	448.2	464.7	478.9	492.2	490.4	488.4	480.4	478.8
60°	413.1	416.0	431.7	446.7	459.2	458.2	456.3	447.4	447.4
62.5°	380.1	383.8	400.3	413.8	426.2	426.0	423.3	416.8	415.2
65°	329.7	333.5	350.3	362.4	375.8	375.8	372.9	365.0	363.0
67.5°	281.4	285.2	299.1	311.5	325.0	323.8	321.1	316.1	313.4
70°	249.2	253.1	263.0	277.0	290.4	288.5	286.5	281.6	279.6
72.5°	214.7	219.3	229.2	241.7	254.3	253.9	252.0	249.3	245.1
75°	166.8	169.7	180.5	191.5	200.2	201.1	198.2	197.1	192.3
77.5°	121.5	125.1	134.0	143.6	149.9	153.0	151.3	148.9	145.2
80°	93.2	96.1	105.0	112.9	117.7	121.6	120.7	116.7	113.8
82.5°	66.5	69.4	76.7	83.9	87.9	91.8	90.9	88.4	84.0
85°	30.4	32.3	39.2	44.2	46.1	50.9	49.1	47.0	44.2
87.5°	4.7	5.5	10.2	14.9	14.1	18.7	16.5	13.3	10.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	1.1	1.1	2.1	3.2	5.3	19.6	22.1	19.9	18.9
95°	5.3	5.3	7.9	24.9	24.9	40.3	55.1	53.8	53.8
97.5°	11.8	13.1	18.4	76.0	56.7	55.2	78.8	86.6	87.4
100°	17.1	18.3	28.9	123.8	84.0	71.2	84.0	102.5	106.3
102.5°	23.4	25.7	45.7	195.4	118.7	85.3	98.7	111.9	115.8
105°	35.4	39.3	95.8	327.4	181.1	113.1	124.7	131.3	132.6
107.5°	53.3	67.7	262.2	460.5	257.0	149.7	156.5	161.0	162.5
110°	72.2	103.0	455.5	540.9	313.7	177.7	173.3	185.0	182.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	121.5	211.9	668.6	606.8	370.4	210.7	189.0	208.2	209.7
115°	340.0	583.8	893.9	700.6	456.8	268.1	213.9	232.5	240.2
117.5°	853.2	1015.1	1012.5	787.4	539.7	335.7	243.9	252.7	261.5
120°	1147.2	1171.6	1072.4	846.1	593.3	384.1	269.1	265.3	273.0
122.5°	1256.4	1236.6	1117.5	897.6	647.9	434.6	301.6	278.9	285.6
125°	1350.6	1312.1	1176.0	971.0	728.5	509.0	361.0	308.4	307.1
127.5°	1402.9	1362.6	1233.3	1034.8	802.5	586.4	428.4	350.2	338.4
130°	1428.1	1390.8	1273.2	1073.9	851.8	638.8	477.8	386.8	368.8
132.5°	1458.5	1418.2	1301.5	1113.9	899.1	688.1	527.1	430.8	409.8
135°	1488.4	1451.2	1348.0	1166.2	966.0	760.7	598.5	503.4	476.5
137.5°	1515.2	1481.1	1390.5	1207.4	1026.4	832.1	674.1	581.5	548.6
140°	1533.1	1495.8	1408.4	1239.0	1063.2	877.1	724.5	632.1	606.4
142.5°	1539.4	1516.5	1427.3	1265.6	1104.1	920.1	774.9	679.4	655.8
145°	1558.0	1542.6	1450.4	1297.4	1152.4	984.3	851.8	752.8	727.2
147.5°	1570.1	1547.0	1471.6	1331.9	1199.7	1041.8	921.7	826.6	802.8
150°	1571.1	1553.2	1488.4	1353.1	1231.2	1083.6	964.7	875.0	853.2
152.5°	1579.5	1557.5	1496.8	1371.1	1254.3	1119.0	1007.8	924.3	900.4
155°	1573.8	1558.4	1509.4	1394.2	1290.2	1164.5	1068.4	994.5	973.9
157.5°	1573.8	1554.8	1511.0	1412.2	1324.9	1214.5	1125.1	1056.8	1041.4
160°	1563.3	1555.6	1512.1	1424.9	1342.7	1242.6	1162.9	1100.8	1080.2
162.5°	1559.1	1546.2	1514.2	1433.4	1358.5	1265.6	1195.5	1136.6	1121.2
165°	1540.9	1529.4	1501.6	1437.3	1383.4	1306.4	1243.0	1190.3	1182.6
167.5°	1520.2	1511.2	1492.9	1443.6	1400.0	1337.1	1283.7	1241.2	1230.7
170°	1505.5	1491.4	1484.5	1446.9	1408.4	1355.8	1309.9	1271.6	1260.1
172.5°	1480.3	1478.5	1472.9	1438.8	1415.7	1372.3	1334.1	1299.0	1291.6
175°	1450.4	1450.4	1454.3	1433.1	1425.4	1389.5	1362.4	1341.2	1329.6
177.5°	1415.7	1416.7	1425.2	1424.1	1425.2	1404.6	1396.8	1376.8	1374.8
180°	1408.4	1408.4	1408.4	1408.4	1408.4	1408.4	1408.4	1408.4	1408.4

(END OF REPORT)