

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: P522602

Luminaire Tested: **SQW-F-100U-075D-93050-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522602
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 (5000K)
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 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7125.4 lumens
Efficiency: N/A
Efficacy: 108.0 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

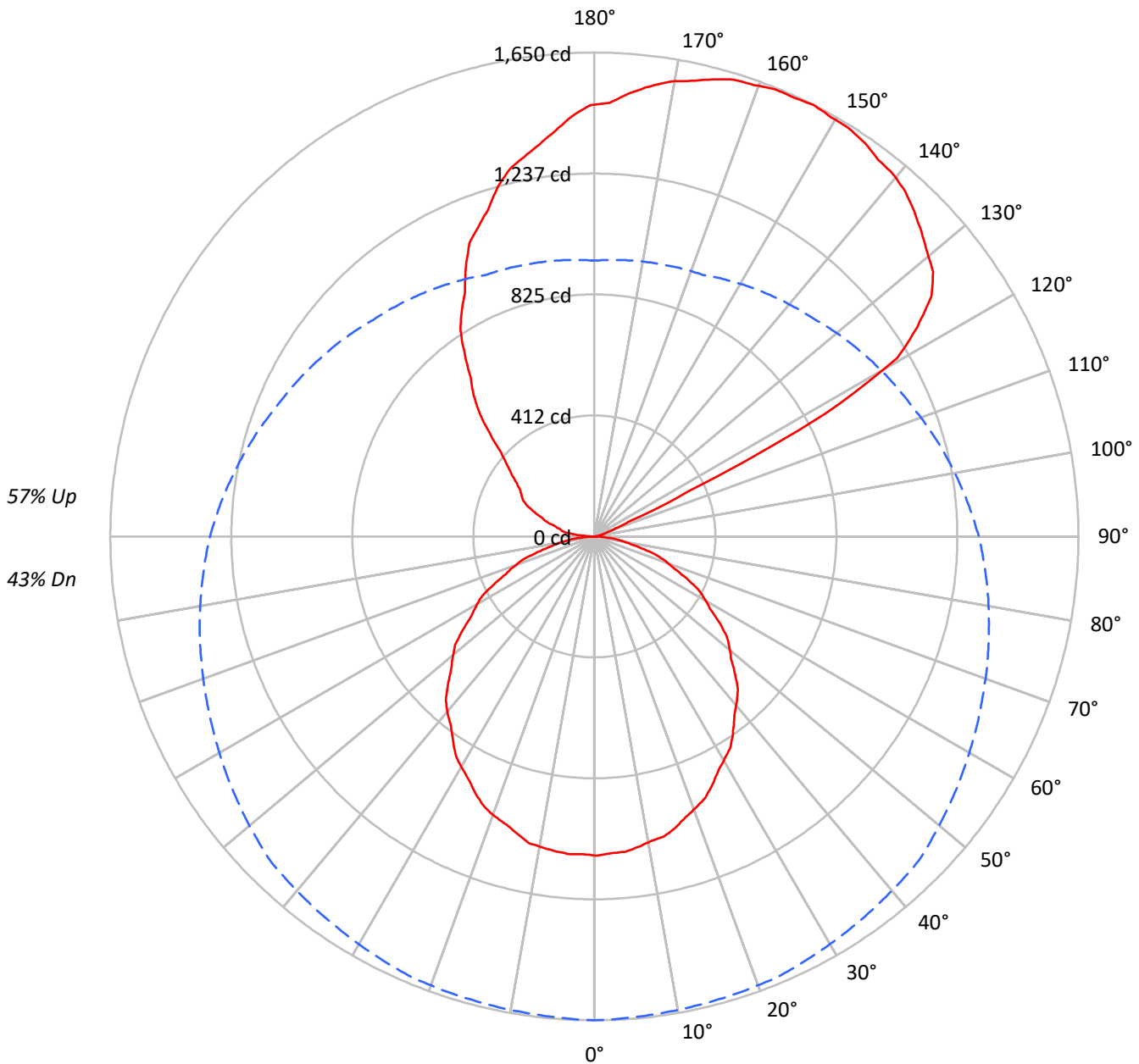
Input Watts (W): 66
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	17572	17572	17572
5°	17506	17754	17605
10°	17321	17674	17623
15°	17232	17643	17506
20°	16972	17502	17414
25°	16668	17305	17270
30°	16354	17098	17003
35°	16058	16925	16744
40°	15723	16760	16543
45°	15372	16520	16285
50°	14981	16164	15958
55°	14508	15865	15519
60°	13931	15487	15090
65°	13154	14995	14483
70°	12288	14318	13785
75°	10867	13038	12526
80°	9047	11437	11055
85°	5891	8929	8540



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.9	1.4
10°-20°	293.8	4.1
20°-30°	442.0	6.2
30°-40°	528.0	7.4
40°-50°	543.3	7.6
50°-60°	488.5	6.9
60°-70°	372.1	5.2
70°-80°	211.1	3.0
80°-90°	55.3	0.8
90°-100°	37.1	0.5
100°-110°	164.8	2.3
110°-120°	473.5	6.6
120°-130°	721.2	10.1
130°-140°	782.9	11.0
140°-150°	748.7	10.5
150°-160°	616.8	8.7
160°-170°	403.6	5.7
170°-180°	139.7	2.0
0°-30°	838.7	11.8
0°-40°	1366.8	19.2
0°-60°	2398.6	33.7
0°-90°	3037.2	42.6
90°-120°	675.4	9.5
90°-150°	2928.2	41.1
90°-180°	4088.0	57.4
0°-180°	7125.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1088	1088	1088	1088	1088	
5°	1080	1081	1095	1088	1086	102
15°	1031	1036	1056	1050	1047	290
25°	936	956	971	978	969	431
35°	815	836	859	864	850	509
45°	673	693	724	720	713	519
55°	515	536	564	560	551	460
65°	344	366	392	389	379	342
75°	174	188	209	207	201	186
85°	32	41	48	51	46	41
90°	0	0	0	0	0	1
95°	6	8	26	58	56	7
105°	37	100	189	130	138	43
115°	355	934	477	223	251	491
125°	1410	1228	761	377	321	1238
135°	1554	1408	1009	625	498	1200
145°	1627	1515	1204	890	759	1019
155°	1644	1576	1348	1116	1017	761
165°	1609	1568	1445	1298	1235	456
175°	1515	1519	1489	1423	1389	146
180°	1471	1471	1471	1471	1471	



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CATALOG NUMBER: SQW-F-100U-075D-93050-1D-UNV-STD-W-4 (5000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1088.3	1088.3	1088.3	1088.3	1088.3	1088.3	1088.3	1088.3	1088.3
2.5°	1081.7	1084.9	1086.6	1082.9	1098.1	1085.3	1089.9	1086.6	1084.2
5°	1080.1	1079.1	1081.1	1077.4	1095.4	1081.4	1088.3	1083.2	1086.2
7.5°	1069.6	1067.6	1071.2	1071.8	1085.4	1075.2	1079.2	1077.9	1081.5
10°	1056.5	1058.5	1064.7	1066.0	1078.0	1067.0	1071.9	1072.9	1074.9
12.5°	1050.7	1047.1	1054.0	1057.8	1070.6	1057.2	1066.1	1065.6	1069.2
15°	1030.9	1029.9	1036.0	1039.4	1055.5	1043.4	1050.3	1050.3	1047.3
17.5°	1005.9	1005.9	1014.1	1015.7	1032.5	1023.7	1030.5	1027.4	1026.6
20°	987.8	987.8	1000.1	998.5	1018.6	1010.6	1016.5	1009.4	1013.5
22.5°	967.3	968.1	982.9	980.5	999.7	994.9	1001.8	991.4	996.2
25°	935.6	938.6	956.1	954.4	971.4	966.4	977.6	965.4	969.4
27.5°	901.8	906.0	923.5	923.2	940.1	936.5	949.3	935.2	935.8
30°	877.2	882.2	899.7	901.1	917.1	911.1	926.3	913.0	912.0
32.5°	853.4	857.6	875.1	878.1	894.2	890.6	902.6	889.2	887.4
35°	814.7	819.7	836.2	841.7	858.7	853.7	863.8	851.5	849.5
37.5°	774.7	777.9	795.4	800.2	820.6	816.4	822.9	811.0	811.2
40°	746.0	750.0	767.5	773.1	795.2	790.2	794.2	783.9	784.9
42.5°	717.3	721.3	738.0	746.1	766.5	761.5	764.6	756.0	756.2
45°	673.2	676.2	692.7	703.4	723.5	718.4	720.4	712.2	713.2
47.5°	627.5	629.7	644.8	659.7	676.3	674.1	674.5	664.3	667.3
50°	596.4	599.4	612.8	628.5	643.5	644.5	642.5	632.3	635.3
52.5°	564.4	566.6	582.5	595.7	611.6	613.4	609.7	600.3	602.5
55°	515.4	517.4	535.9	549.6	563.6	564.6	560.5	553.3	551.3
57.5°	465.0	468.0	485.3	500.2	514.0	512.2	510.1	501.7	500.1
60°	431.4	434.4	450.9	466.5	479.6	478.6	476.5	467.3	467.3
62.5°	397.0	400.8	418.1	432.1	445.1	444.9	442.1	435.3	433.7
65°	344.3	348.3	365.8	378.4	392.5	392.5	389.4	381.2	379.1
67.5°	293.9	297.9	312.3	325.4	339.4	338.2	335.3	330.1	327.3
70°	260.3	264.3	274.6	289.3	303.3	301.3	299.2	294.0	292.0
72.5°	224.2	229.0	239.4	252.4	265.6	265.2	263.1	260.4	256.0
75°	174.2	177.2	188.5	200.0	209.0	210.0	207.0	205.9	200.8
77.5°	126.9	130.7	140.0	150.0	156.6	159.8	158.0	155.5	151.7
80°	97.3	100.4	109.6	118.0	123.0	127.0	126.0	121.9	118.9
82.5°	69.5	72.5	80.1	87.6	91.8	95.8	94.9	92.3	87.7
85°	31.8	33.8	41.0	46.2	48.2	53.2	51.2	49.1	46.1
87.5°	4.9	5.7	10.7	15.6	14.8	19.6	17.2	13.9	10.7
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	2.2	3.3	5.5	20.5	23.0	20.8	19.7
95°	5.5	5.5	8.2	26.0	26.0	42.1	57.6	56.2	56.2
97.5°	12.3	13.7	19.2	79.3	59.2	57.6	82.2	90.5	91.3
100°	17.8	19.2	30.2	129.3	87.7	74.3	87.7	107.0	111.0
102.5°	24.4	26.8	47.7	204.1	123.9	89.1	103.1	116.9	120.9
105°	37.0	41.0	100.1	342.0	189.2	118.1	130.2	137.1	138.4
107.5°	55.7	70.7	273.9	481.0	268.4	156.3	163.4	168.1	169.7
110°	75.4	107.6	475.7	564.8	327.6	185.5	180.9	193.2	190.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	126.9	221.3	698.3	633.7	386.8	220.1	197.4	217.4	219.0
115°	355.0	609.7	933.5	731.7	477.0	280.0	223.4	242.8	250.8
117.5°	891.0	1060.1	1057.4	822.3	563.7	350.5	254.7	263.9	273.1
120°	1198.0	1223.5	1119.9	883.6	619.6	401.1	281.0	277.1	285.1
122.5°	1312.1	1291.5	1167.1	937.4	676.6	453.8	315.0	291.3	298.3
125°	1410.5	1370.3	1228.2	1014.1	760.8	531.6	377.0	322.1	320.8
127.5°	1465.1	1423.0	1288.0	1080.7	838.1	612.4	447.4	365.7	353.4
130°	1491.4	1452.5	1329.6	1121.5	889.6	667.1	499.0	403.9	385.2
132.5°	1523.2	1481.1	1359.2	1163.3	939.0	718.6	550.5	449.9	428.0
135°	1554.4	1515.6	1407.8	1218.0	1008.9	794.4	625.1	525.7	497.6
137.5°	1582.4	1546.8	1452.2	1260.9	1071.9	869.0	704.0	607.3	573.0
140°	1601.0	1562.2	1470.8	1293.9	1110.3	916.0	756.7	660.1	633.3
142.5°	1607.6	1583.8	1490.6	1321.7	1153.1	960.9	809.3	709.5	684.8
145°	1627.1	1611.0	1514.7	1355.0	1203.5	1027.9	889.6	786.2	759.4
147.5°	1639.7	1615.6	1536.9	1390.9	1252.9	1088.0	962.5	863.3	838.4
150°	1640.8	1622.0	1554.4	1413.1	1285.8	1131.6	1007.5	913.8	891.0
152.5°	1649.6	1626.5	1563.2	1431.9	1309.9	1168.6	1052.5	965.3	940.3
155°	1643.5	1627.5	1576.4	1456.0	1347.5	1216.1	1115.8	1038.5	1017.1
157.5°	1643.5	1623.7	1578.0	1474.8	1383.6	1268.4	1175.0	1103.6	1087.6
160°	1632.6	1624.5	1579.1	1488.1	1402.3	1297.7	1214.5	1149.6	1128.1
162.5°	1628.2	1614.8	1581.3	1497.0	1418.7	1321.7	1248.5	1187.0	1170.9
165°	1609.3	1597.2	1568.1	1501.1	1444.8	1364.4	1298.1	1243.1	1235.1
167.5°	1587.6	1578.2	1559.1	1507.6	1462.1	1396.4	1340.6	1296.2	1285.2
170°	1572.3	1557.5	1550.3	1511.0	1470.8	1415.9	1368.0	1328.0	1315.9
172.5°	1545.9	1544.1	1538.3	1502.6	1478.5	1433.2	1393.2	1356.6	1348.8
175°	1514.7	1514.7	1518.8	1496.7	1488.6	1451.1	1422.8	1400.6	1388.6
177.5°	1478.5	1479.6	1488.4	1487.3	1488.4	1466.9	1458.8	1437.9	1435.7
180°	1470.8	1470.8	1470.8	1470.8	1470.8	1470.8	1470.8	1470.8	1470.8

(END OF REPORT)