

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: P511747

Luminaire Tested: **SQW-F-025U-125D-935-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

Test Information

Test Method: LM-79-08
Report Number: P511747
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-15,
Test Lab: INNOVATION CENTER
Issue Date: 4/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQW-F-025U-125D-935-1D-UNV-STD-W-4
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

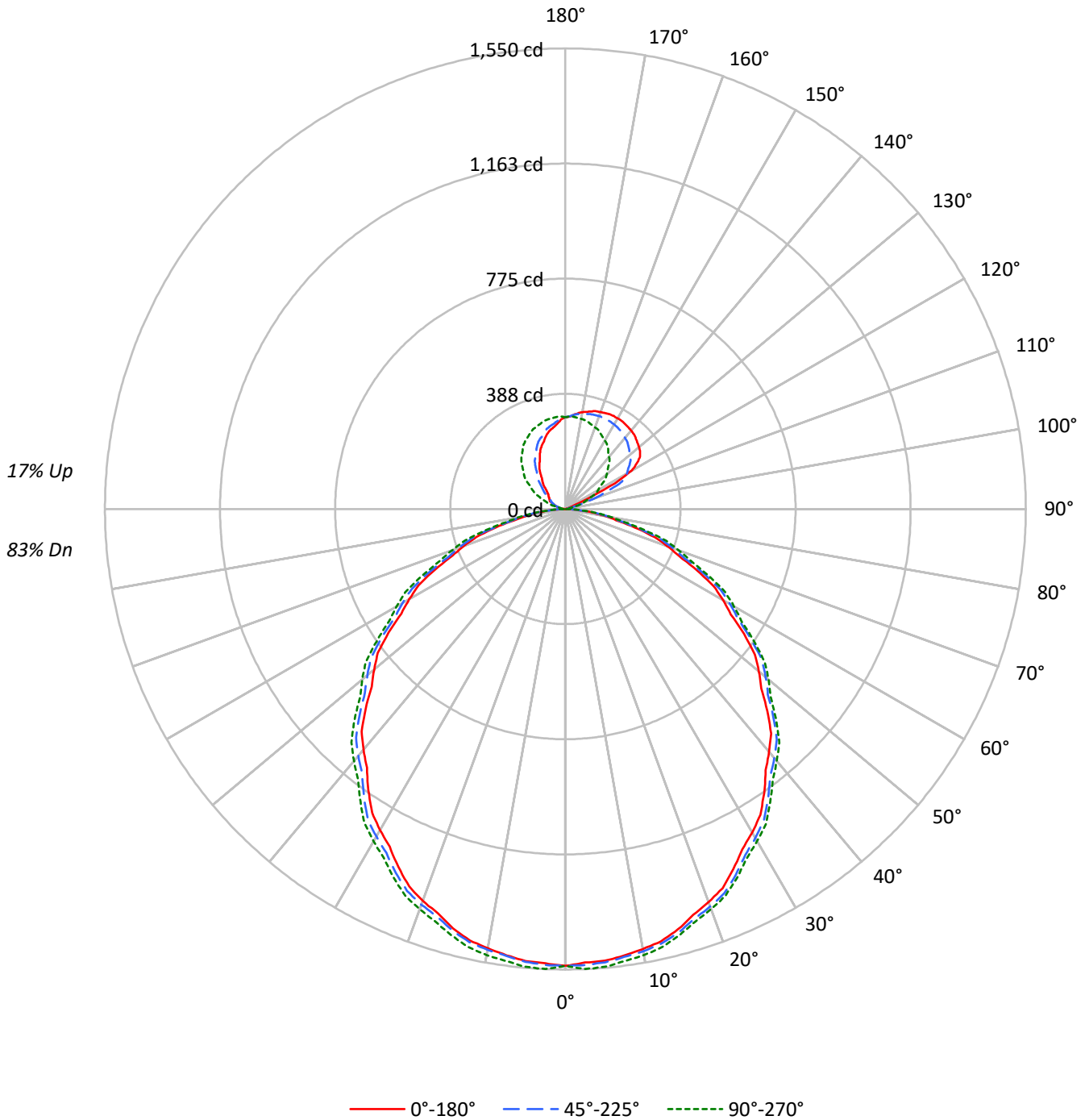
Lumens per Lamp: N/A
Luminaire Lumens: 5045.7 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.35
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 54.2
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



TEST NUMBER: P511747
CATALOG NUMBER: SQW-F-025U-125D-935-1D-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P511747

CATALOG NUMBER: SQW-F-025U-125D-935-1D-UNV-STD-W-4

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	50	30	10	0	
RCR																						
0	115	115	115	115	110	110	110	110	102	102	102	94	94	94	87	87	87	83				
1	105	101	96	93	101	97	93	90	89	86	84	83	80	78	76	75	73	70				
2	96	88	81	76	92	84	79	73	78	73	69	72	69	65	67	64	61	58				
3	87	77	69	63	83	74	67	61	69	63	58	64	59	55	59	55	52	49				
4	80	68	60	53	76	66	58	52	61	55	50	57	52	47	53	48	45	42				
5	73	61	52	46	70	59	51	45	55	48	43	51	45	41	48	43	39	36				
6	68	55	46	40	65	53	45	39	50	43	37	46	40	36	43	38	34	32				
7	63	50	41	35	60	48	40	35	45	38	33	42	36	32	39	34	30	28				
8	58	45	37	31	56	44	36	31	41	34	30	39	33	28	36	31	27	25				
9	54	41	33	28	52	40	33	28	38	31	27	36	30	26	33	28	25	23				
10	51	38	31	25	49	37	30	25	35	29	24	33	27	23	31	26	22	21				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	49646	49646	49646
5°	49482	50137	49508
10°	49306	49998	49224
15°	48973	49648	48859
20°	48399	49268	48223
25°	47659	48771	47388
30°	46885	48146	46509
35°	45981	47408	45547
40°	44970	46677	44582
45°	43868	45832	43407
50°	42707	44827	42199
55°	41307	43632	40879
60°	39545	42322	39164
65°	37311	40665	37051
70°	34480	38304	34235
75°	30306	34623	30406
80°	24473	28694	25086
85°	14079	19674	16858



TEST NUMBER: P511747

CATALOG NUMBER: SQW-F-025U-125D-935-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.3	2.9
10°-20°	414.2	8.2
20°-30°	620.7	12.3
30°-40°	738.2	14.6
40°-50°	755.9	15.0
50°-60°	674.0	13.4
60°-70°	503.5	10.0
70°-80°	275.9	5.5
80°-90°	64.7	1.3
90°-100°	7.6	0.1
100°-110°	34.6	0.7
110°-120°	100.4	2.0
120°-130°	151.5	3.0
130°-140°	162.2	3.2
140°-150°	155.0	3.1
150°-160°	128.3	2.5
160°-170°	84.3	1.7
170°-180°	29.2	0.6
0°-30°	1180.2	23.4
0°-40°	1918.5	38.0
0°-60°	3348.4	66.4
0°-90°	4192.5	83.1
90°-120°	142.6	2.8
90°-150°	611.3	12.1
90°-180°	853.0	16.9
0°-180°	5045.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1537	1537	1537	1537	1537	
5°	1526	1532	1547	1530	1527	145
15°	1465	1475	1485	1468	1462	413
25°	1338	1358	1369	1351	1330	616
35°	1166	1190	1203	1182	1155	729
45°	961	991	1004	979	950	741
55°	734	762	775	754	726	655
65°	488	512	532	508	485	483
75°	243	261	278	259	244	259
85°	38	51	53	52	46	54
90°	1	1	0	1	2	1
95°	3	3	6	10	8	3
105°	9	23	40	26	28	11
115°	79	201	99	49	54	106
125°	307	265	156	73	67	269
135°	336	300	206	122	93	259
145°	350	322	250	176	146	219
155°	352	332	281	228	202	162
165°	340	330	302	269	252	97
175°	317	317	311	298	290	31
180°	309	309	309	309	309	



TEST NUMBER: P511747

CATALOG NUMBER: SQW-F-025U-125D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1537.4	1537.4	1537.4	1537.4	1537.4	1537.4	1537.4	1537.4	1537.4
2.5°	1528.0	1535.2	1536.1	1535.1	1549.6	1535.7	1536.1	1534.6	1530.7
5°	1526.5	1528.1	1531.5	1529.4	1546.7	1528.6	1529.8	1526.5	1527.3
7.5°	1515.8	1517.0	1520.7	1516.8	1534.2	1516.6	1517.0	1513.5	1515.3
10°	1503.7	1506.2	1511.3	1506.6	1524.8	1505.8	1506.2	1502.0	1501.2
12.5°	1490.2	1491.4	1497.8	1493.1	1509.9	1491.6	1492.7	1486.5	1487.0
15°	1464.9	1469.0	1475.0	1467.8	1485.1	1467.0	1468.3	1462.4	1461.5
17.5°	1432.0	1439.3	1445.3	1438.1	1455.3	1436.7	1437.8	1429.6	1427.0
20°	1408.4	1415.0	1424.4	1417.2	1433.7	1413.1	1416.8	1403.3	1403.3
22.5°	1382.1	1386.0	1399.5	1391.6	1408.7	1388.1	1391.2	1374.3	1375.0
25°	1337.6	1343.3	1357.8	1351.4	1368.8	1347.3	1351.1	1331.6	1330.0
27.5°	1290.5	1297.3	1312.3	1306.4	1323.6	1302.3	1305.0	1283.7	1281.1
30°	1257.4	1264.9	1278.5	1274.7	1291.2	1270.6	1272.6	1250.6	1247.3
32.5°	1221.0	1229.8	1243.4	1242.9	1256.8	1238.1	1238.2	1215.5	1211.6
35°	1166.4	1174.6	1190.0	1190.3	1202.6	1183.7	1182.4	1160.3	1155.4
37.5°	1108.0	1117.4	1133.1	1135.2	1146.5	1128.8	1123.7	1101.7	1097.4
40°	1066.8	1077.6	1094.7	1097.4	1107.3	1088.4	1084.6	1062.5	1057.6
42.5°	1025.7	1036.4	1053.5	1057.6	1066.2	1050.5	1042.7	1020.7	1015.1
45°	960.6	972.1	990.9	997.0	1003.6	989.6	979.1	957.1	950.5
47.5°	894.6	905.4	925.0	933.4	937.5	925.6	914.7	891.8	884.5
50°	850.1	860.8	880.5	888.1	892.3	882.4	869.5	846.6	840.0
52.5°	803.5	814.3	833.9	842.9	846.4	837.8	825.0	802.0	795.5
55°	733.7	742.8	762.4	773.4	775.0	769.3	754.0	731.9	726.1
57.5°	660.9	669.8	689.2	701.1	703.9	698.1	681.8	659.9	654.9
60°	612.3	620.5	639.3	651.2	655.3	649.5	632.5	611.3	606.4
62.5°	563.0	570.6	588.7	601.3	606.7	600.3	582.6	562.1	557.1
65°	488.3	494.9	511.9	528.9	532.2	524.7	507.7	488.2	484.9
67.5°	414.4	419.4	435.3	452.0	456.3	448.7	431.1	414.5	410.5
70°	365.2	370.1	385.4	400.7	405.7	397.4	381.2	365.9	362.6
72.5°	315.9	320.2	335.5	349.4	354.4	347.5	331.3	317.4	314.1
75°	242.9	247.8	261.4	274.2	277.5	272.5	258.9	247.0	243.7
77.5°	174.7	177.9	189.6	199.4	202.2	198.6	188.2	177.7	176.1
80°	131.6	134.0	145.1	153.5	154.3	152.7	145.1	136.6	134.9
82.5°	91.8	94.9	105.3	112.3	110.5	111.5	105.9	98.1	97.2
85°	38.0	39.6	50.6	57.3	53.1	57.3	52.3	46.4	45.5
87.5°	4.2	4.9	8.9	16.1	14.2	17.5	14.3	10.3	10.5
90°	0.9	0.9	0.9	0.0	0.0	0.0	0.9	0.9	1.7
92.5°	0.9	1.5	0.9	1.4	1.4	3.4	2.9	2.2	2.4
95°	2.6	2.6	2.6	6.0	6.0	8.4	10.2	9.3	8.5
97.5°	3.7	3.7	4.9	16.8	13.3	11.3	15.8	16.3	16.3
100°	5.1	5.1	7.7	26.2	18.7	15.4	17.9	20.4	20.4
102.5°	6.5	7.1	11.7	41.0	26.2	18.9	20.6	22.5	23.1
105°	9.4	10.2	23.0	69.9	40.0	25.8	26.4	27.2	28.1
107.5°	13.9	17.3	57.6	99.9	56.6	33.4	35.2	33.7	33.7
110°	18.7	25.4	97.8	118.8	68.9	38.9	40.0	39.1	39.1



TEST NUMBER: P511747

CATALOG NUMBER: SQW-F-025U-125D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	29.6	49.5	146.1	134.3	81.1	45.9	44.0	45.9	44.6
115°	79.1	129.0	200.7	156.0	98.6	57.1	49.3	52.7	53.6
117.5°	188.4	225.5	227.5	174.2	116.7	69.6	53.6	57.5	59.2
120°	258.5	264.3	239.8	185.7	127.5	78.5	57.0	59.6	61.2
122.5°	285.0	279.5	250.7	196.6	138.4	88.7	62.4	62.3	63.9
125°	307.0	295.3	265.3	213.0	155.6	104.9	73.1	66.3	67.2
127.5°	317.8	306.2	277.4	226.5	171.8	122.0	86.6	72.1	71.4
130°	324.0	312.3	284.8	236.0	182.0	132.9	96.1	78.2	74.8
132.5°	329.4	318.4	291.6	243.5	192.2	143.1	106.3	85.6	80.9
135°	335.9	325.1	300.2	254.8	205.8	159.2	121.6	99.3	92.7
137.5°	341.6	331.7	308.0	264.9	220.1	173.7	137.1	115.5	108.2
140°	344.4	334.4	312.1	271.1	229.6	183.9	147.9	125.7	119.0
142.5°	347.1	337.8	316.1	277.3	237.7	194.0	158.8	136.6	129.9
145°	349.5	341.2	322.3	285.7	250.0	208.4	176.0	152.9	146.2
147.5°	352.0	343.2	326.2	292.9	260.0	222.6	191.5	169.2	162.7
150°	352.0	344.5	328.2	297.7	266.1	232.1	202.4	180.1	174.3
152.5°	352.7	344.6	330.3	301.9	272.9	240.8	212.6	191.0	185.9
155°	352.0	344.5	332.5	307.2	280.6	252.3	227.9	207.4	202.4
157.5°	349.0	344.1	332.5	310.4	288.4	262.5	241.1	225.0	218.0
160°	346.9	342.8	332.5	312.5	292.5	269.2	250.0	234.6	229.6
162.5°	344.9	340.7	331.8	314.5	296.6	275.3	257.5	242.8	239.1
165°	340.1	336.8	329.9	316.0	301.9	283.6	268.7	255.9	252.5
167.5°	334.8	332.5	326.8	316.9	305.8	291.5	278.6	268.6	264.8
170°	330.8	329.1	324.8	316.9	307.8	296.2	284.0	275.4	272.9
172.5°	325.3	324.3	322.1	315.6	309.2	299.5	290.1	282.2	279.7
175°	317.2	317.2	317.2	314.5	311.2	304.6	297.6	291.6	289.9
177.5°	310.7	311.4	312.1	311.4	311.4	308.0	304.6	301.2	301.9
180°	308.7	308.7	308.7	308.7	308.7	308.7	308.7	308.7	308.7

(END OF REPORT)