

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: P511746

Luminaire Tested: **SQW-F-025U-125D-930-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

Test Information

Test Method: LM-79-08
Report Number: P511746
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-930-1D-UNV-STD-W-4
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

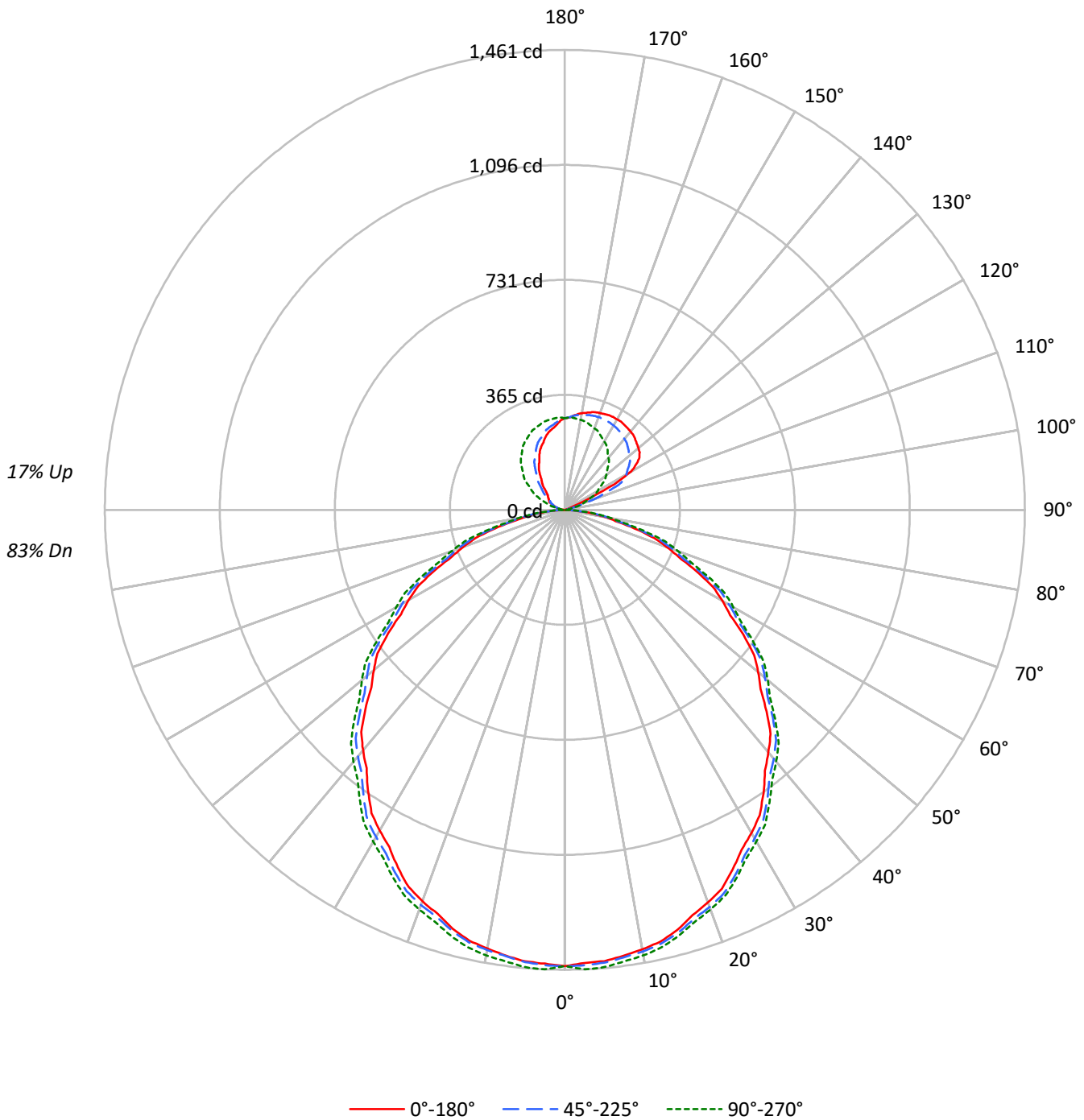
Lumens per Lamp: N/A
Luminaire Lumens: 4756.9 lumens
Efficiency: N/A
Efficacy: 87.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.35
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')
CIE Type: Semi-Direct

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



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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	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°	46807	46807	46807
5°	46649	47268	46675
10°	46486	47136	46408
15°	46172	46810	46065
20°	45629	46450	45464
25°	44930	45977	44677
30°	44204	45390	43846
35°	43347	44696	42941
40°	42399	44009	42028
45°	41357	43211	40923
50°	40265	42260	39783
55°	38942	41138	38542
60°	37278	39900	36923
65°	35179	38334	34934
70°	32507	36104	32281
75°	28571	32639	28671
80°	23059	27057	23654
85°	13264	18562	15895



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.0	2.9
10°-20°	390.5	8.2
20°-30°	585.2	12.3
30°-40°	696.0	14.6
40°-50°	712.7	15.0
50°-60°	635.4	13.4
60°-70°	474.7	10.0
70°-80°	260.1	5.5
80°-90°	61.0	1.3
90°-100°	7.1	0.1
100°-110°	32.6	0.7
110°-120°	94.6	2.0
120°-130°	142.8	3.0
130°-140°	152.9	3.2
140°-150°	146.1	3.1
150°-160°	121.0	2.5
160°-170°	79.5	1.7
170°-180°	27.6	0.6
0°-30°	1112.7	23.4
0°-40°	1808.7	38.0
0°-60°	3156.8	66.4
0°-90°	3952.6	83.1
90°-120°	134.4	2.8
90°-150°	576.3	12.1
90°-180°	804.0	16.9
0°-180°	4756.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1450	1450	1450	1450	1450	
5°	1439	1444	1458	1442	1440	137
15°	1381	1391	1400	1384	1378	389
25°	1261	1280	1290	1274	1254	581
35°	1100	1122	1134	1115	1089	687
45°	906	934	946	923	896	698
55°	692	719	731	711	685	617
65°	460	483	502	479	457	456
75°	229	246	262	244	230	244
85°	36	48	50	49	43	51
90°	1	1	0	1	2	1
95°	2	2	6	10	8	2
105°	9	22	38	25	26	10
115°	75	189	93	46	50	100
125°	289	250	147	69	63	253
135°	317	283	194	115	87	245
145°	330	304	236	166	138	207
155°	332	313	264	215	191	153
165°	321	311	285	253	238	91
175°	299	299	293	281	273	29
180°	291	291	291	291	291	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1449.5	1449.5	1449.5	1449.5	1449.5	1449.5	1449.5	1449.5	1449.5
2.5°	1440.6	1447.4	1448.2	1447.2	1460.9	1447.8	1448.2	1446.8	1443.1
5°	1439.1	1440.7	1443.9	1441.9	1458.2	1441.1	1442.3	1439.1	1439.9
7.5°	1429.1	1430.2	1433.7	1430.0	1446.4	1429.8	1430.2	1426.9	1428.6
10°	1417.7	1420.0	1424.8	1420.4	1437.5	1419.7	1420.0	1416.0	1415.3
12.5°	1404.9	1406.0	1412.1	1407.7	1423.5	1406.3	1407.3	1401.4	1401.9
15°	1381.1	1385.0	1390.6	1383.8	1400.2	1383.1	1384.3	1378.7	1377.9
17.5°	1350.1	1356.9	1362.6	1355.8	1372.0	1354.4	1355.5	1347.8	1345.3
20°	1327.8	1334.0	1342.9	1336.1	1351.7	1332.2	1335.8	1323.0	1323.0
22.5°	1303.0	1306.7	1319.4	1312.0	1328.1	1308.7	1311.6	1295.7	1296.3
25°	1261.0	1266.5	1280.1	1274.1	1290.4	1270.2	1273.7	1255.4	1253.9
27.5°	1216.7	1223.0	1237.2	1231.7	1247.8	1227.8	1230.3	1210.2	1207.7
30°	1185.5	1192.5	1205.4	1201.7	1217.3	1197.9	1199.8	1179.1	1175.9
32.5°	1151.1	1159.4	1172.3	1171.8	1184.9	1167.3	1167.4	1146.0	1142.2
35°	1099.6	1107.4	1121.9	1122.1	1133.8	1115.9	1114.7	1093.9	1089.3
37.5°	1044.6	1053.5	1068.3	1070.3	1080.9	1064.2	1059.4	1038.6	1034.6
40°	1005.8	1015.9	1032.0	1034.6	1044.0	1026.1	1022.5	1001.7	997.0
42.5°	967.0	977.1	993.2	997.1	1005.2	990.4	983.1	962.3	957.0
45°	905.6	916.5	934.2	939.9	946.2	932.9	923.1	902.3	896.1
47.5°	843.4	853.5	872.1	879.9	883.8	872.6	862.4	840.7	833.9
50°	801.5	811.6	830.1	837.3	841.2	831.9	819.7	798.1	791.9
52.5°	757.6	767.7	786.2	794.7	798.0	789.9	777.8	756.2	749.9
55°	691.7	700.3	718.8	729.1	730.7	725.3	710.8	690.0	684.6
57.5°	623.0	631.4	649.8	660.9	663.6	658.1	642.8	622.1	617.5
60°	577.2	585.0	602.7	613.9	617.8	612.3	596.3	576.3	571.7
62.5°	530.8	538.0	555.0	566.9	572.0	565.9	549.3	529.9	525.2
65°	460.4	466.6	482.6	498.6	501.7	494.7	478.6	460.3	457.2
67.5°	390.7	395.4	410.4	426.1	430.1	423.0	406.5	390.8	387.1
70°	344.3	348.9	363.4	377.8	382.4	374.7	359.4	345.0	341.9
72.5°	297.8	301.9	316.3	329.4	334.1	327.6	312.3	299.2	296.1
75°	229.0	233.7	246.5	258.5	261.6	256.9	244.1	232.9	229.8
77.5°	164.7	167.7	178.7	188.0	190.7	187.2	177.5	167.6	166.0
80°	124.0	126.4	136.8	144.7	145.5	143.9	136.8	128.8	127.2
82.5°	86.5	89.5	99.2	105.9	104.2	105.1	99.9	92.5	91.6
85°	35.8	37.3	47.7	54.0	50.1	54.0	49.3	43.7	42.9
87.5°	4.0	4.6	8.4	15.2	13.4	16.5	13.5	9.7	9.9
90°	0.8	0.8	0.8	0.0	0.0	0.0	0.8	0.8	1.6
92.5°	0.8	1.4	0.8	1.3	1.3	3.2	2.7	2.1	2.2
95°	2.4	2.4	2.4	5.6	5.6	8.0	9.6	8.8	8.0
97.5°	3.5	3.5	4.6	15.8	12.5	10.6	14.9	15.4	15.4
100°	4.8	4.8	7.2	24.7	17.6	14.5	16.8	19.2	19.2
102.5°	6.1	6.7	11.1	38.6	24.7	17.8	19.4	21.2	21.8
105°	8.8	9.6	21.6	65.9	37.7	24.4	24.9	25.7	26.5
107.5°	13.1	16.3	54.4	94.1	53.4	31.4	33.2	31.7	31.7
110°	17.6	23.9	92.2	112.0	64.9	36.7	37.7	36.9	36.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	27.9	46.7	137.7	126.6	76.5	43.2	41.5	43.3	42.0
115°	74.6	121.6	189.2	147.1	93.0	53.8	46.5	49.7	50.5
117.5°	177.6	212.6	214.5	164.2	110.0	65.6	50.5	54.2	55.8
120°	243.7	249.2	226.1	175.1	120.2	74.0	53.7	56.1	57.7
122.5°	268.7	263.5	236.3	185.4	130.5	83.6	58.8	58.7	60.3
125°	289.4	278.4	250.1	200.8	146.7	98.9	68.9	62.5	63.3
127.5°	299.6	288.7	261.5	213.5	161.9	115.1	81.6	68.0	67.3
130°	305.4	294.4	268.5	222.5	171.5	125.3	90.6	73.7	70.5
132.5°	310.6	300.2	275.0	229.6	181.2	134.9	100.2	80.7	76.3
135°	316.6	306.5	283.0	240.2	194.0	150.1	114.6	93.6	87.4
137.5°	322.1	312.7	290.3	249.8	207.5	163.7	129.2	108.9	102.0
140°	324.7	315.3	294.2	255.6	216.4	173.3	139.5	118.5	112.2
142.5°	327.2	318.4	298.0	261.4	224.1	182.9	149.7	128.8	122.5
145°	329.5	321.6	303.8	269.4	235.7	196.5	165.9	144.2	137.9
147.5°	331.9	323.6	307.5	276.2	245.1	209.9	180.5	159.5	153.4
150°	331.9	324.8	309.4	280.7	250.9	218.8	190.8	169.8	164.3
152.5°	332.5	324.8	311.4	284.6	257.3	227.1	200.4	180.1	175.2
155°	331.9	324.8	313.4	289.6	264.5	237.9	214.8	195.5	190.8
157.5°	329.0	324.4	313.4	292.6	271.9	247.5	227.3	212.1	205.5
160°	327.1	323.1	313.4	294.6	275.8	253.8	235.7	221.1	216.4
162.5°	325.1	321.2	312.8	296.5	279.6	259.5	242.7	228.9	225.4
165°	320.7	317.5	311.0	297.9	284.6	267.3	253.3	241.2	238.1
167.5°	315.7	313.5	308.1	298.8	288.3	274.8	262.6	253.2	249.6
170°	311.8	310.3	306.2	298.8	290.2	279.2	267.7	259.7	257.3
172.5°	306.7	305.8	303.7	297.6	291.5	282.4	273.5	266.1	263.7
175°	299.0	299.0	299.0	296.5	293.4	287.1	280.6	274.9	273.4
177.5°	292.9	293.5	294.2	293.6	293.6	290.4	287.1	284.0	284.6
180°	291.0	291.0	291.0	291.0	291.0	291.0	291.0	291.0	291.0

(END OF REPORT)