

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: P511743

Luminaire Tested: **SQW-F-025U-125D-830-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

Test Information

Test Method: LM-79-08
Report Number: P511743
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-830-1D-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, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

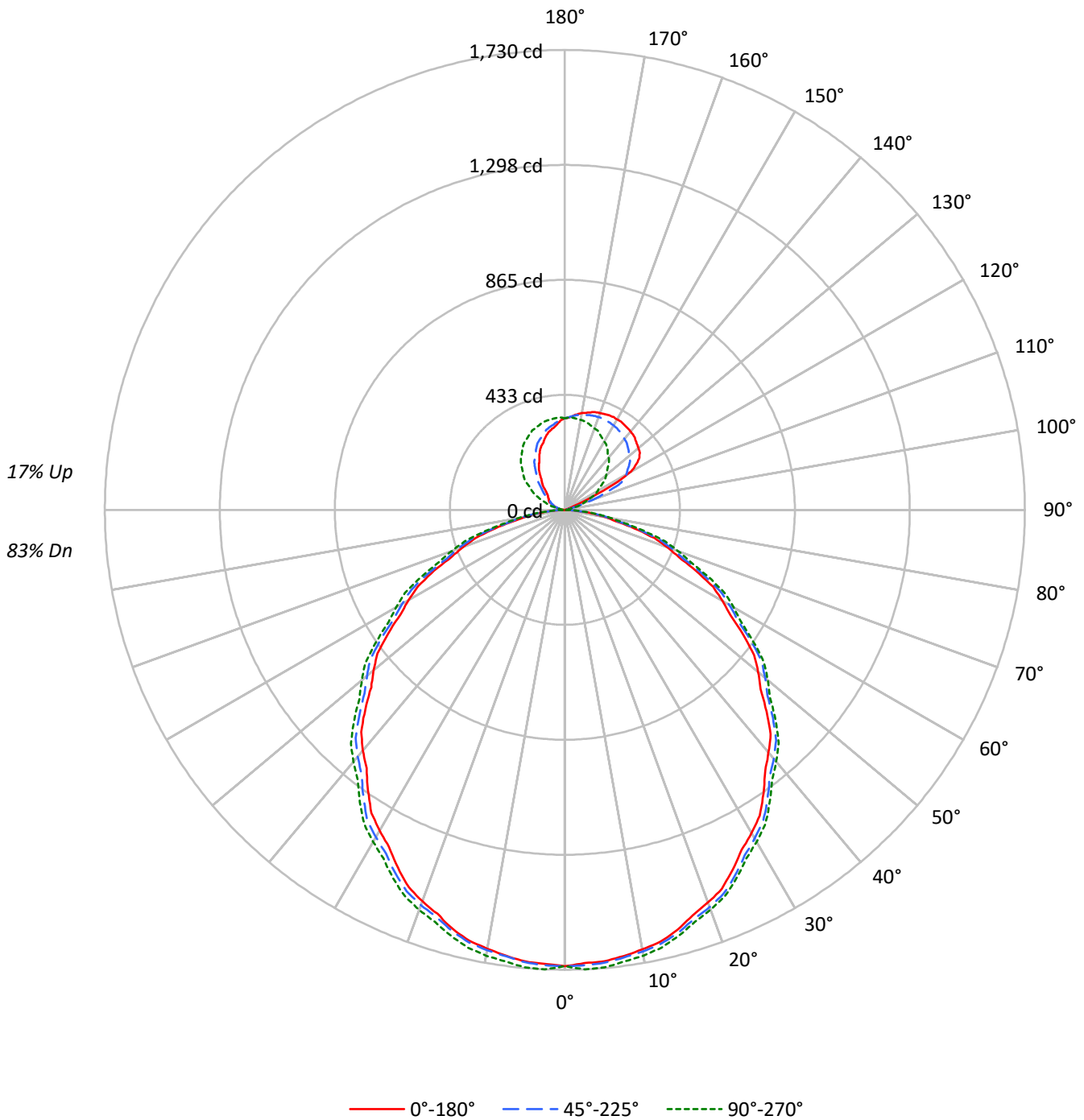
Lumens per Lamp: N/A
Luminaire Lumens: 5634.2 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.35
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')
CIE Type: Semi-Direct

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°	55439	55439	55439
5°	55255	55988	55284
10°	55058	55832	54966
15°	54686	55442	54559
20°	54045	55017	53852
25°	53217	54457	52914
30°	52355	53761	51934
35°	51342	52939	50861
40°	50218	52123	49780
45°	48983	51180	48467
50°	47690	50056	47123
55°	46126	48727	45647
60°	44156	47256	43730
65°	41666	45402	41376
70°	38502	42770	38229
75°	33837	38653	33961
80°	27318	32041	28024
85°	15710	21971	18859



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.3	2.9
10°-20°	462.5	8.2
20°-30°	693.1	12.3
30°-40°	824.4	14.6
40°-50°	844.1	15.0
50°-60°	752.6	13.4
60°-70°	562.2	10.0
70°-80°	308.0	5.5
80°-90°	72.3	1.3
90°-100°	8.4	0.1
100°-110°	38.6	0.7
110°-120°	112.1	2.0
120°-130°	169.2	3.0
130°-140°	181.1	3.2
140°-150°	173.1	3.1
150°-160°	143.3	2.5
160°-170°	94.1	1.7
170°-180°	32.6	0.6
0°-30°	1317.9	23.4
0°-40°	2142.3	38.0
0°-60°	3739.0	66.4
0°-90°	4681.6	83.1
90°-120°	159.2	2.8
90°-150°	682.6	12.1
90°-180°	953.0	16.9
0°-180°	5634.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1717	1717	1717	1717	1717	
5°	1705	1710	1727	1708	1706	162
15°	1636	1647	1658	1640	1632	461
25°	1494	1516	1528	1509	1485	688
35°	1302	1329	1343	1320	1290	814
45°	1073	1106	1121	1093	1061	827
55°	819	851	866	842	811	731
65°	545	572	594	567	542	540
75°	271	292	310	289	272	289
85°	42	56	59	58	51	60
90°	1	1	0	1	2	1
95°	3	3	7	11	10	3
105°	10	26	45	29	31	12
115°	88	224	110	55	60	119
125°	343	296	174	82	75	300
135°	375	335	230	136	104	290
145°	390	360	279	196	163	245
155°	393	371	313	254	226	181
165°	380	368	337	300	282	108
175°	354	354	348	332	324	34
180°	345	345	345	345	345	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8
2.5°	1706.3	1714.4	1715.3	1714.2	1730.4	1714.9	1715.3	1713.7	1709.3
5°	1704.6	1706.4	1710.2	1707.8	1727.2	1706.9	1708.3	1704.6	1705.5
7.5°	1692.7	1694.0	1698.2	1693.7	1713.2	1693.5	1694.0	1690.1	1692.1
10°	1679.1	1681.9	1687.6	1682.4	1702.7	1681.5	1682.0	1677.2	1676.3
12.5°	1664.1	1665.3	1672.5	1667.3	1686.1	1665.7	1666.9	1659.9	1660.5
15°	1635.8	1640.4	1647.1	1639.1	1658.4	1638.2	1639.6	1633.0	1632.0
17.5°	1599.1	1607.2	1614.0	1605.9	1625.1	1604.3	1605.5	1596.4	1593.4
20°	1572.7	1580.1	1590.6	1582.5	1601.0	1577.9	1582.1	1567.1	1567.1
22.5°	1543.3	1547.7	1562.7	1553.9	1573.1	1550.1	1553.5	1534.7	1535.4
25°	1493.6	1500.1	1516.2	1509.1	1528.4	1504.5	1508.7	1487.0	1485.1
27.5°	1441.1	1448.6	1465.4	1458.8	1478.0	1454.2	1457.3	1433.5	1430.5
30°	1404.1	1412.4	1427.7	1423.4	1441.8	1418.8	1421.1	1396.5	1392.8
32.5°	1363.5	1373.2	1388.5	1387.9	1403.4	1382.6	1382.7	1357.3	1352.9
35°	1302.4	1311.6	1328.8	1329.1	1342.9	1321.7	1320.3	1295.7	1290.2
37.5°	1237.3	1247.8	1265.3	1267.7	1280.2	1260.5	1254.8	1230.2	1225.4
40°	1191.3	1203.3	1222.4	1225.5	1236.5	1215.3	1211.1	1186.5	1180.9
42.5°	1145.3	1157.3	1176.4	1181.0	1190.6	1173.1	1164.4	1139.7	1133.5
45°	1072.6	1085.5	1106.5	1113.3	1120.7	1105.0	1093.4	1068.7	1061.3
47.5°	999.0	1011.0	1032.9	1042.2	1046.8	1033.6	1021.4	995.8	987.7
50°	949.3	961.2	983.2	991.8	996.4	985.3	970.9	945.3	938.0
52.5°	897.3	909.3	931.2	941.3	945.1	935.6	921.2	895.6	888.3
55°	819.3	829.4	851.3	863.6	865.5	859.0	841.9	817.3	810.8
57.5°	738.0	747.9	769.6	782.8	786.0	779.5	761.3	736.9	731.4
60°	683.7	692.9	713.8	727.1	731.7	725.3	706.3	682.6	677.1
62.5°	628.7	637.2	657.3	671.4	677.5	670.3	650.6	627.6	622.1
65°	545.3	552.6	571.6	590.6	594.2	586.0	566.9	545.2	541.5
67.5°	462.8	468.3	486.1	504.7	509.5	501.0	481.4	462.9	458.4
70°	407.8	413.3	430.4	447.5	453.0	443.8	425.7	408.6	404.9
72.5°	352.8	357.6	374.6	390.2	395.7	388.0	369.9	354.4	350.7
75°	271.2	276.7	291.9	306.2	309.8	304.3	289.1	275.8	272.2
77.5°	195.1	198.6	211.7	222.7	225.8	221.8	210.2	198.5	196.6
80°	146.9	149.7	162.0	171.4	172.3	170.5	162.0	152.5	150.7
82.5°	102.5	106.0	117.5	125.4	123.4	124.5	118.3	109.6	108.5
85°	42.4	44.2	56.5	63.9	59.3	63.9	58.4	51.8	50.9
87.5°	4.7	5.4	10.0	18.0	15.8	19.5	16.0	11.5	11.7
90°	0.9	0.9	0.9	0.0	0.0	0.0	0.9	1.0	1.9
92.5°	0.9	1.7	0.9	1.5	1.5	3.7	3.2	2.5	2.7
95°	2.8	2.8	2.8	6.6	6.6	9.4	11.4	10.4	9.5
97.5°	4.2	4.2	5.5	18.7	14.8	12.6	17.7	18.2	18.2
100°	5.7	5.7	8.5	29.2	20.9	17.2	19.9	22.8	22.8
102.5°	7.2	8.0	13.1	45.8	29.2	21.1	23.0	25.1	25.8
105°	10.4	11.4	25.6	78.0	44.6	28.8	29.4	30.4	31.3
107.5°	15.6	19.3	64.4	111.5	63.2	37.2	39.3	37.6	37.6
110°	20.9	28.3	109.2	132.6	76.9	43.5	44.6	43.7	43.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	33.0	55.3	163.1	150.0	90.6	51.2	49.2	51.2	49.8
115°	88.3	144.0	224.1	174.2	110.1	63.7	55.1	58.9	59.8
117.5°	210.4	251.8	254.1	194.5	130.3	77.7	59.8	64.2	66.1
120°	288.6	295.1	267.8	207.4	142.4	87.6	63.6	66.5	68.4
122.5°	318.3	312.1	279.9	219.6	154.6	99.1	69.7	69.5	71.4
125°	342.8	329.8	296.2	237.8	173.8	117.1	81.7	74.1	75.0
127.5°	354.9	341.9	309.7	252.9	191.8	136.3	96.7	80.5	79.8
130°	361.8	348.8	318.1	263.5	203.2	148.4	107.3	87.3	83.6
132.5°	367.8	355.6	325.7	272.0	214.6	159.8	118.7	95.6	90.4
135°	375.0	363.0	335.2	284.5	229.8	177.8	135.8	110.9	103.5
137.5°	381.5	370.4	343.9	295.9	245.7	193.9	153.1	128.9	120.8
140°	384.5	373.4	348.5	302.8	256.4	205.3	165.2	140.4	132.9
142.5°	387.6	377.2	353.0	309.7	265.5	216.6	177.4	152.5	145.1
145°	390.2	381.0	359.9	319.1	279.1	232.7	196.5	170.7	163.3
147.5°	393.1	383.2	364.2	327.1	290.4	248.6	213.8	189.0	181.7
150°	393.1	384.7	366.5	332.5	297.2	259.1	226.0	201.1	194.6
152.5°	393.8	384.7	368.8	337.1	304.8	268.9	237.4	213.3	207.6
155°	393.1	384.7	371.2	343.0	313.3	281.8	254.5	231.5	226.0
157.5°	389.7	384.3	371.2	346.6	322.1	293.1	269.3	251.2	243.4
160°	387.4	382.7	371.2	348.9	326.6	300.6	279.1	261.9	256.4
162.5°	385.1	380.5	370.5	351.2	331.2	307.4	287.5	271.1	267.0
165°	379.8	376.1	368.4	352.8	337.1	316.6	300.0	285.7	282.0
167.5°	373.9	371.3	365.0	353.9	341.4	325.5	311.0	299.9	295.7
170°	369.3	367.5	362.7	353.9	343.7	330.7	317.1	307.6	304.8
172.5°	363.3	362.2	359.7	352.5	345.2	334.5	324.0	315.2	312.4
175°	354.2	354.2	354.2	351.2	347.5	340.1	332.3	325.6	323.8
177.5°	346.9	347.7	348.5	347.7	347.7	344.0	340.1	336.3	337.1
180°	344.7	344.7	344.7	344.7	344.7	344.7	344.7	344.7	344.7

(END OF REPORT)