

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: P511785

Luminaire Tested: **SQW-F-075U-050D-830-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

Test Information

Test Method: LM-79-08
Report Number: P511785
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-17,
Test Lab: INNOVATION CENTER
Issue Date: 4/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQW-F-075U-050D-830-1D-UNV-STD-W-4
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

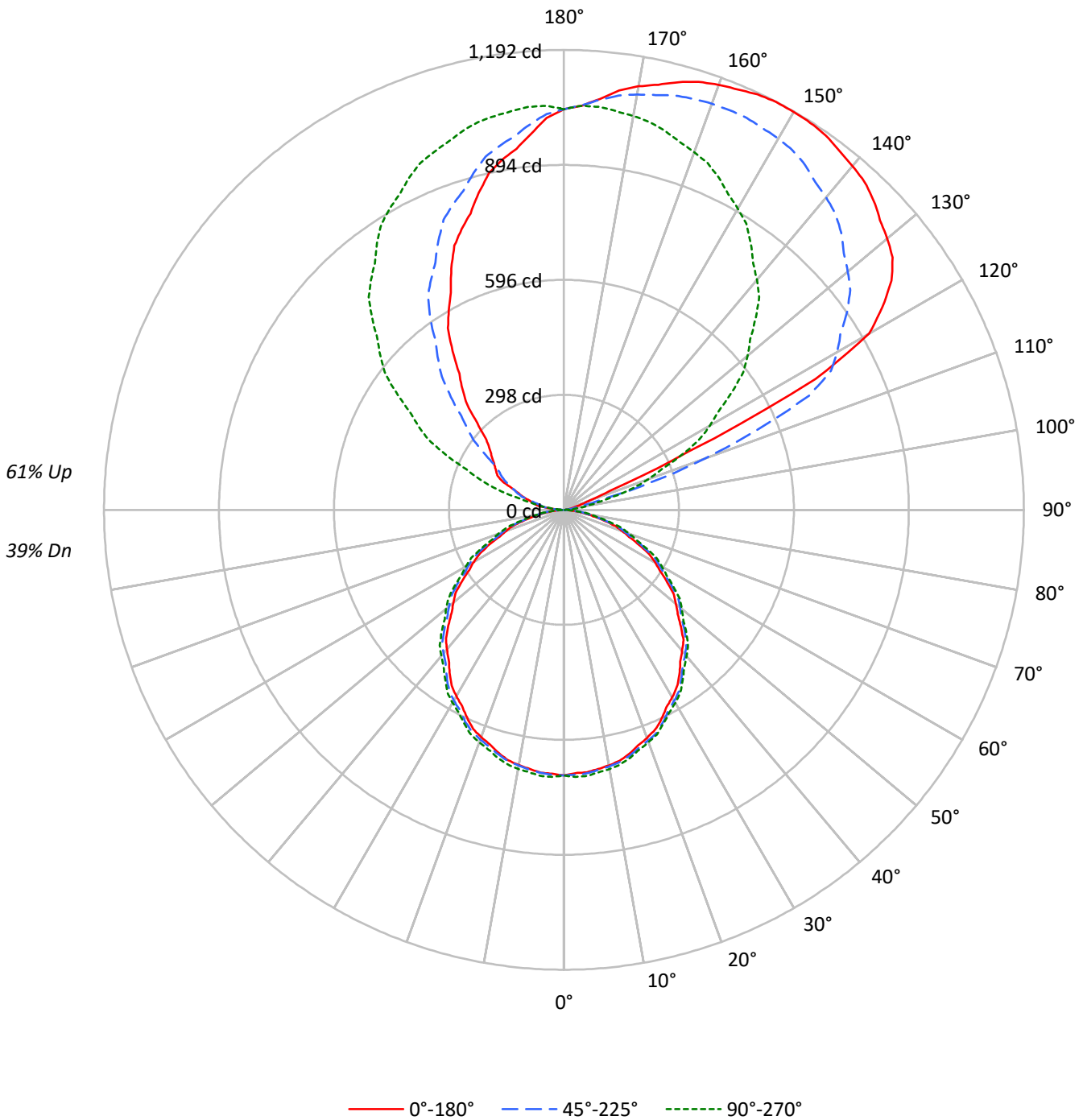
Lumens per Lamp: N/A
Luminaire Lumens: 4781.3 lumens
Efficiency: N/A
Efficacy: 126.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.25 / 1.35
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 37.8
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	105	105	105	105	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	95	91	87	84	87	83	80	77	68	65	63	54	52	51	41	40	39	33
2	87	79	73	68	79	72	67	63	59	56	52	47	45	42	36	34	33	28
3	79	70	63	57	72	64	57	52	52	48	44	42	38	36	32	30	28	23
4	72	62	54	48	65	56	50	44	46	41	37	37	33	30	28	26	24	20
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	23	21	17
6	61	49	41	35	55	45	38	33	37	32	28	30	26	23	23	20	18	15
7	56	44	36	31	51	40	34	29	34	28	24	27	23	20	21	18	16	13
8	52	40	32	27	47	37	30	25	31	25	22	25	21	18	19	16	14	12
9	48	36	29	24	44	33	27	22	28	23	19	23	19	16	18	15	13	11
10	45	33	26	21	41	31	24	20	26	21	17	21	17	14	16	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	22230	22230	22230
5°	22133	22438	22162
10°	22048	22356	22019
15°	21881	22228	21817
20°	21619	22038	21553
25°	21307	21777	21171
30°	20929	21526	20788
35°	20566	21161	20345
40°	20086	20841	19888
45°	19569	20473	19354
50°	19065	20015	18784
55°	18449	19513	18185
60°	17638	18917	17392
65°	16481	17987	16260
70°	15201	16985	15031
75°	13400	15396	13275
80°	10860	12962	11028
85°	6299	8707	7336



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.0	1.4
10°-20°	185.2	3.9
20°-30°	277.5	5.8
30°-40°	329.9	6.9
40°-50°	337.6	7.1
50°-60°	301.1	6.3
60°-70°	223.4	4.7
70°-80°	122.3	2.6
80°-90°	29.5	0.6
90°-100°	26.2	0.5
100°-110°	121.4	2.5
110°-120°	354.0	7.4
120°-130°	514.4	10.8
130°-140°	550.4	11.5
140°-150°	526.6	11.0
150°-160°	434.2	9.1
160°-170°	284.0	5.9
170°-180°	98.5	2.1
0°-30°	527.8	11.0
0°-40°	857.6	17.9
0°-60°	1496.3	31.3
0°-90°	1871.5	39.1
90°-120°	501.6	10.5
90°-150°	2093.1	43.8
90°-180°	2910.0	60.9
0°-180°	4781.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	688	688	688	688	688	
5°	683	686	692	685	684	65
15°	654	659	665	656	653	184
25°	598	607	611	606	594	275
35°	522	531	537	529	516	326
45°	428	442	448	438	424	331
55°	328	339	347	338	323	292
65°	216	226	235	225	213	214
75°	107	115	123	115	106	114
85°	17	23	24	24	20	24
90°	2	2	1	4	8	1
95°	8	10	20	32	29	8
105°	32	94	135	86	93	39
115°	356	701	337	161	178	418
125°	1036	896	531	246	224	917
135°	1135	1016	703	414	317	876
145°	1184	1090	844	602	503	741
155°	1188	1120	950	769	690	549
165°	1148	1112	1016	904	851	326
175°	1069	1067	1048	1003	978	104
180°	1038	1038	1038	1038	1038	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	688.4	688.4	688.4	688.4	688.4	688.4	688.4	688.4	688.4
2.5°	683.1	686.1	686.9	686.3	692.9	687.0	686.9	686.1	684.6
5°	682.8	683.7	685.6	683.9	692.2	683.9	684.6	682.8	683.7
7.5°	677.7	678.6	679.8	678.8	686.3	678.8	679.4	677.5	677.5
10°	672.4	673.3	675.2	673.5	681.8	673.5	673.3	671.5	671.5
12.5°	666.4	667.3	669.2	667.5	675.8	667.5	667.3	664.7	665.4
15°	654.5	657.3	659.2	656.6	664.9	656.6	656.4	654.5	652.6
17.5°	640.4	643.1	646.4	643.6	651.1	642.7	643.6	639.4	637.7
20°	629.1	631.8	636.6	633.0	641.3	632.1	633.8	628.1	627.2
22.5°	617.0	619.1	626.1	622.5	630.0	621.6	622.5	615.3	614.4
25°	598.0	599.8	607.4	604.7	611.2	602.9	605.5	595.2	594.2
27.5°	576.3	579.1	586.0	584.2	591.6	582.4	585.0	574.2	572.6
30°	561.3	564.0	571.6	569.9	577.3	568.1	570.7	558.4	557.5
32.5°	544.7	548.9	555.8	555.6	561.5	553.0	554.1	542.6	540.9
35°	521.7	524.5	531.1	531.3	536.8	529.4	529.3	517.9	516.1
37.5°	495.4	499.0	506.1	507.2	512.5	504.4	503.1	492.8	489.9
40°	476.5	480.2	488.8	489.8	494.4	487.0	485.0	475.5	471.8
42.5°	458.4	462.1	470.7	471.7	476.3	469.7	466.2	457.4	452.2
45°	428.5	433.1	441.7	444.6	448.3	441.8	437.9	427.5	423.8
47.5°	399.9	403.5	412.3	417.0	418.7	414.3	409.3	398.1	394.2
50°	379.5	383.2	392.7	397.4	398.4	394.7	388.9	378.5	373.9
52.5°	358.4	362.1	372.4	377.1	378.0	374.3	368.6	358.1	353.5
55°	327.7	331.4	339.0	346.6	346.6	344.7	338.1	326.7	323.0
57.5°	295.0	298.5	308.0	314.5	314.7	312.2	305.3	294.9	291.2
60°	273.1	275.9	285.3	292.0	292.9	291.0	283.5	273.0	269.3
62.5°	249.0	252.5	262.0	269.4	271.0	268.5	260.1	250.4	245.2
65°	215.7	217.5	226.0	233.6	235.4	232.7	225.1	215.6	212.8
67.5°	182.9	184.0	192.1	199.7	201.7	198.8	191.2	184.7	180.2
70°	161.0	162.9	169.5	177.1	179.9	176.2	168.6	162.8	159.2
72.5°	139.2	141.0	147.7	154.5	157.3	154.3	147.5	141.7	138.1
75°	107.4	108.3	114.9	121.5	123.4	120.6	114.9	110.1	106.4
77.5°	77.2	78.1	85.1	89.1	90.8	89.1	84.6	80.0	77.4
80°	58.4	59.3	64.0	68.8	69.7	68.8	65.0	61.2	59.3
82.5°	40.3	41.2	46.7	49.9	50.1	50.7	47.7	44.6	42.0
85°	17.0	17.9	22.6	25.4	23.5	26.3	24.5	21.6	19.8
87.5°	2.7	2.7	4.9	7.0	7.0	7.9	6.8	6.6	5.3
90°	2.0	2.0	2.0	1.0	1.0	1.9	3.9	6.9	7.8
92.5°	3.5	4.3	4.3	4.9	5.7	11.2	7.8	9.2	9.4
95°	7.8	7.8	9.8	23.3	19.5	29.1	32.2	30.2	29.3
97.5°	12.9	13.8	18.9	61.3	43.9	39.0	53.1	56.7	53.3
100°	17.6	18.5	28.3	96.8	63.4	50.1	58.6	69.3	71.3
102.5°	23.0	24.8	43.9	149.3	89.2	63.6	67.2	77.2	79.8
105°	32.2	37.0	93.7	247.3	134.7	84.1	85.9	88.9	92.7
107.5°	50.0	67.2	238.0	351.0	190.7	110.4	114.2	111.5	111.7
110°	70.3	106.5	389.4	410.7	231.3	131.1	129.8	127.8	124.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	127.3	223.1	542.5	463.6	274.3	153.4	142.3	151.2	145.2
115°	356.3	540.4	700.8	536.2	336.7	191.7	161.0	173.8	177.6
117.5°	734.8	818.2	779.7	600.7	396.5	236.3	179.0	188.1	194.4
120°	913.6	910.7	817.9	640.5	436.3	269.3	192.3	198.2	203.0
122.5°	979.2	951.9	849.9	676.5	474.5	304.5	210.2	206.9	212.4
125°	1036.5	999.3	896.0	725.6	531.0	358.2	246.0	220.7	224.5
127.5°	1073.8	1033.0	935.4	770.8	585.6	415.2	293.2	242.5	238.0
130°	1094.1	1054.1	960.4	798.3	620.8	451.8	326.0	264.2	252.8
132.5°	1111.3	1073.5	983.8	825.0	655.1	489.2	361.1	291.5	274.7
135°	1135.1	1098.9	1016.1	864.0	702.7	543.4	413.8	341.1	317.2
137.5°	1153.3	1120.3	1041.4	899.0	749.0	596.7	469.1	395.9	371.5
140°	1163.4	1131.9	1057.0	921.1	777.9	630.9	506.6	431.9	409.0
142.5°	1172.8	1142.1	1070.3	940.7	805.2	663.6	544.8	468.6	445.7
145°	1183.9	1154.3	1090.2	969.3	844.3	712.6	602.2	524.6	502.7
147.5°	1189.2	1161.9	1104.5	994.7	879.2	757.8	655.5	581.0	558.9
150°	1190.8	1165.0	1110.7	1009.7	901.9	787.3	689.1	619.3	596.4
152.5°	1191.5	1165.0	1115.4	1022.4	922.2	813.7	721.9	656.0	634.6
155°	1187.8	1164.0	1120.5	1037.5	949.7	851.4	769.1	709.1	690.1
157.5°	1179.2	1161.7	1121.3	1050.2	972.7	886.6	814.0	759.1	741.2
160°	1172.2	1156.9	1120.5	1057.4	986.8	907.6	841.3	791.2	774.0
162.5°	1162.8	1147.6	1116.6	1060.7	999.3	926.9	867.1	819.4	805.2
165°	1147.8	1133.5	1111.7	1065.7	1016.1	955.9	903.8	862.6	851.1
167.5°	1128.7	1119.7	1101.0	1067.7	1029.5	980.9	937.4	903.8	894.0
170°	1114.6	1108.0	1093.2	1067.1	1036.5	995.5	958.5	928.1	921.4
172.5°	1096.7	1093.0	1083.0	1064.2	1042.0	1008.6	977.2	950.7	944.0
175°	1068.8	1070.7	1066.8	1059.7	1048.3	1025.4	1003.4	984.7	978.0
177.5°	1047.9	1047.9	1048.7	1049.4	1047.9	1037.9	1026.8	1015.9	1016.6
180°	1038.5	1038.5	1038.5	1038.5	1038.5	1038.5	1038.5	1038.5	1038.5

(END OF REPORT)