

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: P522334

Luminaire Tested: **SQW-F-050U-025D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522334
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-52,
Test Lab: INNOVATION CENTER
Issue Date: 5/11/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQW-F-050U-025D-92765-1D-UNV-STD-W-4 (5700K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 250 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3763.1 lumens
Efficiency: N/A
Efficacy: 118.3 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: Semi-Indirect

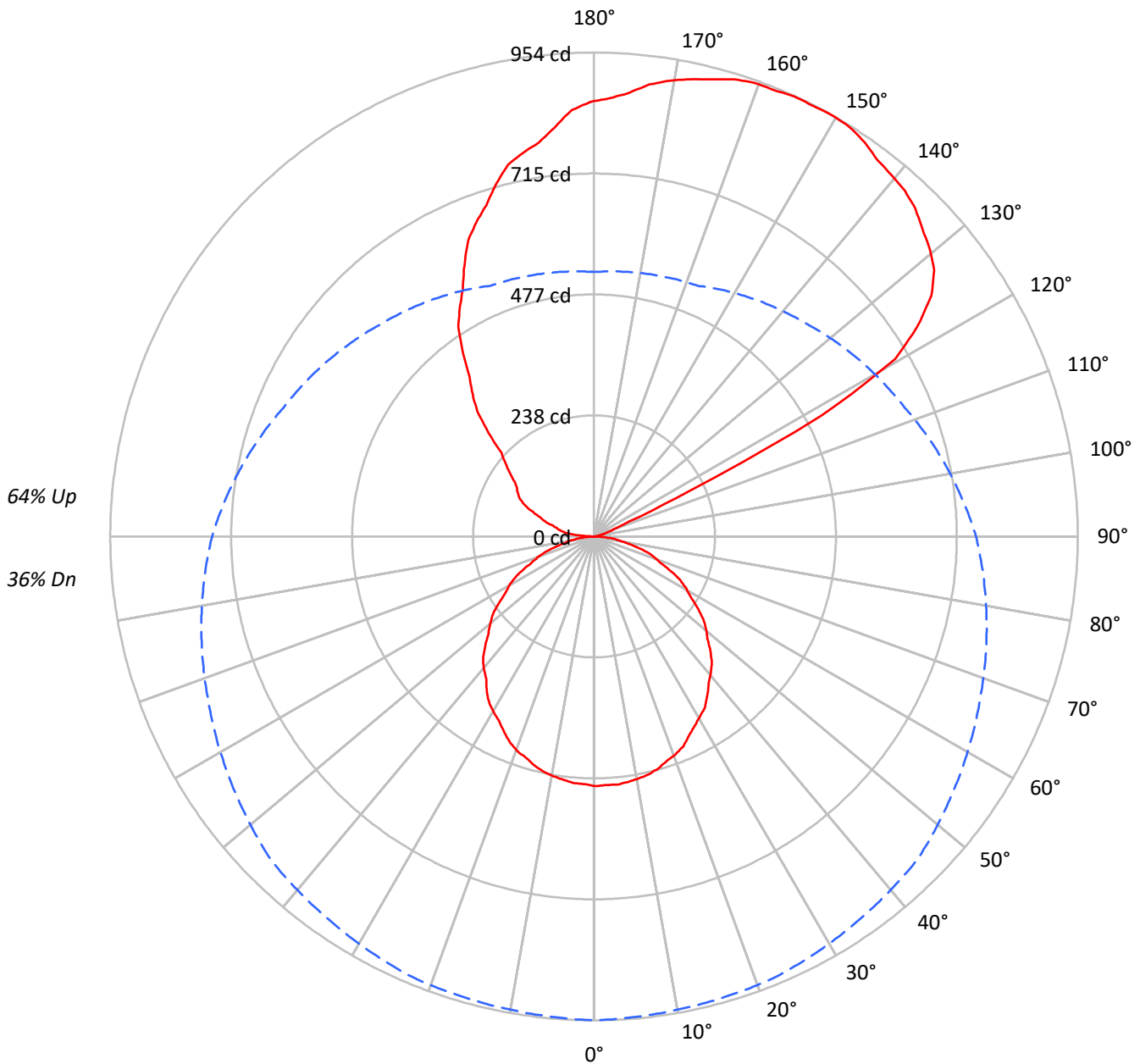
Input Watts (W): 31.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot



— Vertical Plane Through 0° Lateral - - - Horizontal Cone Through 150° 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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	36
1	95	90	87	83	86	82	79	76	66	64	62	52	50	49	38	38	37	31
2	86	79	73	68	78	72	66	62	58	54	51	45	43	41	34	32	31	25
3	78	69	62	56	71	63	57	52	51	46	43	40	37	34	30	28	26	21
4	72	61	53	47	65	56	49	44	45	40	36	36	32	29	27	24	22	18
5	66	54	46	40	59	49	42	37	40	35	31	32	28	25	24	21	19	16
6	60	49	41	35	54	44	37	32	36	31	27	29	25	22	22	19	17	14
7	56	44	36	30	50	40	33	28	33	27	24	26	22	19	20	17	15	12
8	52	40	32	27	47	36	29	25	30	25	21	24	20	17	18	15	13	11
9	48	36	29	24	43	33	26	22	27	22	19	22	18	15	17	14	12	10
10	45	33	26	21	41	30	24	20	25	20	17	20	16	14	15	13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	7949	7949	7949
5°	7963	8031	7911
10°	7950	8020	7863
15°	7928	7982	7804
20°	7876	7931	7730
25°	7750	7844	7580
30°	7676	7754	7457
35°	7592	7675	7340
40°	7470	7558	7179
45°	7341	7437	7003
50°	7196	7302	6769
55°	6959	7139	6570
60°	6749	6956	6303
65°	6403	6770	5998
70°	6061	6463	5608
75°	5627	5958	5028
80°	5030	5225	4435
85°	3742	3927	2946



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.6	1.2
10°-20°	133.2	3.5
20°-30°	200.2	5.3
30°-40°	239.4	6.4
40°-50°	246.1	6.5
50°-60°	219.9	5.8
60°-70°	167.0	4.4
70°-80°	95.4	2.5
80°-90°	25.2	0.7
90°-100°	22.5	0.6
100°-110°	97.5	2.6
110°-120°	278.0	7.4
120°-130°	422.7	11.2
130°-140°	457.2	12.1
140°-150°	436.8	11.6
150°-160°	359.3	9.5
160°-170°	234.8	6.2
170°-180°	81.2	2.2
0°-30°	380.0	10.1
0°-40°	619.4	16.5
0°-60°	1085.5	28.8
0°-90°	1373.2	36.5
90°-120°	398.0	10.6
90°-150°	1714.7	45.6
90°-180°	2390.0	63.5
0°-180°	3763.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	492	492	492	492	492	
5°	491	491	496	490	488	47
15°	474	475	478	471	467	134
25°	435	440	440	433	426	201
35°	385	390	389	381	372	241
45°	322	326	326	316	307	248
55°	247	252	254	241	233	221
65°	168	173	177	164	157	166
75°	90	93	96	86	81	96
85°	20	23	21	19	16	24
90°	0	0	0	0	0	1
95°	4	5	15	36	34	5
105°	22	57	113	77	83	26
115°	205	545	281	134	151	282
125°	817	719	450	221	190	718
135°	904	819	592	367	291	697
145°	942	882	705	522	445	590
155°	953	911	787	654	593	440
165°	931	910	843	756	721	265
175°	877	879	864	832	810	85
180°	856	856	856	856	856	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	492.3	492.3	492.3	492.3	492.3	492.3	492.3	492.3	492.3
2.5°	490.6	491.5	492.3	492.4	496.6	491.6	491.5	490.6	488.9
5°	491.3	491.3	491.3	490.3	495.5	489.3	490.2	488.1	488.1
7.5°	488.3	487.5	487.7	486.5	491.7	485.3	485.3	484.1	483.8
10°	484.9	484.9	486.0	484.0	489.2	481.9	482.8	480.6	479.6
12.5°	481.5	480.7	481.7	479.7	484.9	477.6	477.7	474.7	474.5
15°	474.3	474.3	475.4	473.3	477.5	471.3	471.1	467.9	466.9
17.5°	465.2	465.0	467.3	464.2	468.4	461.1	461.1	458.3	456.7
20°	458.4	457.3	460.5	457.4	461.6	454.3	455.2	449.9	449.9
22.5°	449.9	448.9	452.9	448.9	453.1	445.8	446.7	440.5	439.7
25°	435.0	436.1	440.3	437.2	440.3	433.1	432.9	426.5	425.5
27.5°	422.7	421.9	427.4	423.0	426.1	418.9	418.9	411.2	410.2
30°	411.7	411.7	418.1	412.8	415.9	408.7	409.6	401.1	400.0
32.5°	401.5	401.5	407.0	403.5	405.8	398.5	397.7	390.0	389.0
35°	385.2	385.2	390.5	387.3	389.4	382.2	380.9	372.4	372.4
37.5°	367.1	366.3	371.4	369.3	371.4	364.3	361.8	354.4	353.3
40°	354.4	354.4	358.6	356.6	358.6	352.4	349.1	341.6	340.6
42.5°	340.8	340.8	345.9	343.8	345.9	338.9	335.5	328.1	327.0
45°	321.5	321.5	325.7	324.7	325.7	319.5	316.2	307.7	306.7
47.5°	300.9	300.1	304.1	304.4	306.0	299.2	294.8	286.7	285.6
50°	286.5	286.5	289.7	290.7	290.7	285.5	281.2	270.6	269.5
52.5°	269.5	270.3	273.5	274.6	275.5	268.6	264.2	256.1	255.1
55°	247.2	246.2	251.5	252.6	253.6	247.4	240.9	234.5	233.4
57.5°	224.3	224.1	228.6	229.8	230.7	225.5	219.0	211.8	210.5
60°	209.0	208.0	213.3	215.4	215.4	210.2	203.7	197.3	195.2
62.5°	191.2	193.5	197.1	199.3	201.0	194.9	187.6	182.0	180.0
65°	167.6	168.7	173.0	175.1	177.2	171.0	164.5	159.1	157.0
67.5°	143.7	145.5	148.8	150.9	153.0	147.0	140.5	136.0	134.1
70°	128.4	129.4	132.6	134.8	136.9	131.7	125.2	119.9	118.8
72.5°	113.1	114.1	117.4	118.7	119.9	114.7	109.1	105.4	103.6
75°	90.2	91.2	93.4	94.5	95.5	90.3	85.9	82.7	80.6
77.5°	68.5	68.5	70.7	71.5	71.5	68.4	64.3	61.3	59.6
80°	54.1	54.1	56.2	56.2	56.2	53.1	49.9	47.7	47.7
82.5°	39.7	40.5	42.7	42.6	41.8	39.5	37.1	35.0	35.0
85°	20.2	21.2	23.3	23.3	21.2	21.2	19.1	18.0	15.9
87.5°	5.1	5.9	7.6	8.5	6.8	6.8	5.1	3.4	3.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	1.2	1.2	1.2	2.4	3.5	12.6	14.0	12.2	12.2
95°	3.6	3.6	5.1	16.0	15.3	25.9	36.4	34.2	34.2
97.5°	7.4	8.1	11.6	47.3	35.6	34.6	49.1	54.7	55.7
100°	10.9	11.6	17.4	77.2	53.1	45.3	53.8	64.0	66.2
102.5°	15.0	16.3	27.9	121.5	74.6	53.1	61.4	70.4	73.1
105°	22.5	24.7	57.4	203.7	112.7	69.3	77.1	80.8	82.9
107.5°	33.4	42.1	154.7	286.2	160.0	91.6	99.8	99.2	101.1
110°	45.1	62.9	267.6	331.3	194.9	108.8	109.1	114.8	112.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	74.7	124.9	399.0	374.8	229.8	129.5	117.8	130.6	131.3
115°	205.0	352.2	545.3	435.6	281.4	166.2	133.8	146.3	151.2
117.5°	508.4	612.7	620.2	489.7	332.8	207.2	152.1	157.6	164.2
120°	689.3	710.6	655.1	522.9	367.2	236.4	167.2	165.2	172.3
122.5°	760.2	752.5	683.6	553.7	400.9	267.3	185.8	174.5	179.3
125°	817.2	797.3	719.1	596.5	450.1	313.6	221.0	189.8	189.8
127.5°	851.2	828.1	751.6	634.5	494.4	360.3	263.3	214.6	207.9
130°	871.0	846.1	771.4	660.7	523.5	390.5	293.0	236.1	225.4
132.5°	886.1	863.5	790.0	681.2	552.0	420.2	322.7	262.7	245.2
135°	904.5	885.3	818.7	712.7	591.8	464.6	367.2	308.6	290.8
137.5°	916.2	901.3	844.4	738.5	628.8	508.6	412.1	353.3	337.2
140°	922.6	910.6	857.2	753.8	651.4	537.0	443.5	383.6	368.6
142.5°	929.0	919.2	866.5	770.8	673.6	565.4	474.3	414.4	398.3
145°	942.3	930.9	881.9	791.3	705.3	605.0	522.0	459.2	445.0
147.5°	951.6	937.9	894.6	813.3	735.2	640.9	565.8	505.1	491.1
150°	953.9	939.7	901.6	825.0	753.2	663.0	592.6	534.8	521.3
152.5°	952.2	941.4	906.8	835.0	768.4	684.3	617.0	563.3	551.0
155°	953.2	943.2	911.0	848.5	787.4	714.2	653.6	606.1	593.3
157.5°	948.8	942.3	913.9	858.9	805.0	740.9	687.2	647.2	634.3
160°	948.8	938.9	913.9	864.9	817.2	758.2	708.2	672.3	661.6
162.5°	942.4	933.6	913.3	869.1	828.9	774.4	727.9	694.5	686.6
165°	930.6	923.5	910.3	874.7	843.4	796.5	756.1	726.2	721.2
167.5°	921.5	911.7	904.5	874.5	853.3	812.3	780.0	755.2	752.4
170°	911.0	904.6	898.7	872.9	857.9	823.8	796.9	772.1	769.2
172.5°	897.6	894.1	891.1	871.8	860.8	833.5	811.4	788.9	783.8
175°	876.8	879.7	879.0	869.4	863.8	846.0	832.5	816.3	809.9
177.5°	864.0	862.9	865.8	864.0	863.5	852.7	848.9	837.9	841.4
180°	856.5	856.5	856.5	856.5	856.5	856.5	856.5	856.5	856.5

(END OF REPORT)