

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: P522294

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

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522294
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-025U-025D-92765-1D-UNV-STD-W-4 (5700K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

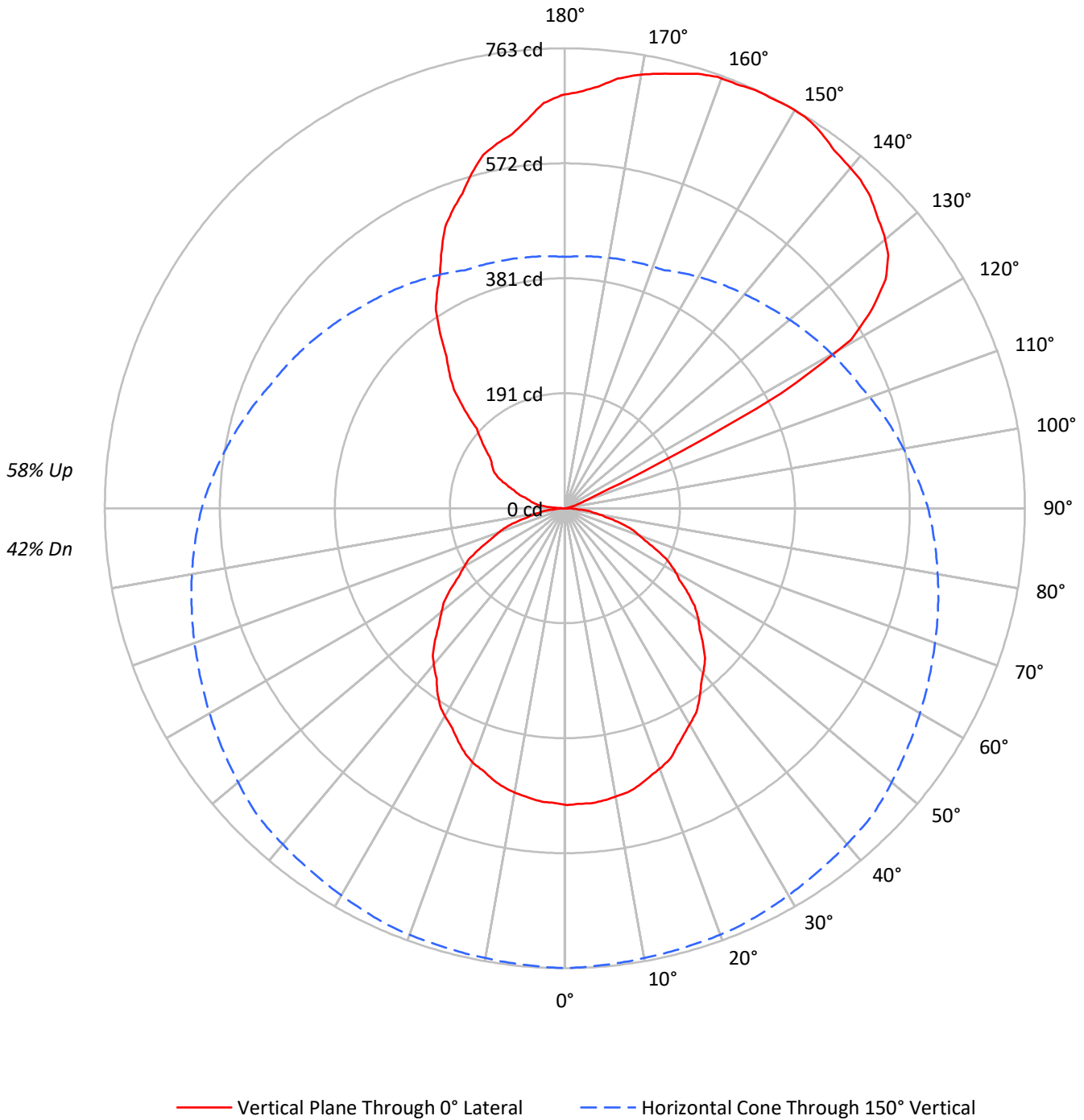
Lumens per Lamp: N/A
Luminaire Lumens: 3283.8 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 28.4
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	96	96	96	96	79	79	79	63	63	63	49	49	49	42
1	96	92	88	84	87	84	80	77	69	67	64	55	54	52	43	42	41	35
2	87	80	74	69	79	73	68	63	60	56	53	48	46	43	38	36	34	29
3	79	70	63	57	72	64	58	53	53	48	45	43	39	37	33	31	29	25
4	73	62	54	48	66	57	50	45	47	42	38	38	34	31	30	27	25	21
5	67	55	47	41	60	50	43	38	42	37	32	34	30	27	27	24	22	18
6	61	49	41	35	56	45	38	33	38	32	28	31	27	24	24	21	19	16
7	57	44	36	31	51	41	34	29	34	29	25	28	24	21	22	19	17	14
8	52	40	32	27	48	37	30	25	31	26	22	25	21	18	20	17	15	13
9	49	37	29	24	44	34	27	23	28	23	20	23	19	16	18	16	13	11
10	45	33	26	22	41	31	25	20	26	21	18	21	18	15	17	14	12	10

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	1.4
10°-20°	133.2	4.1
20°-30°	200.2	6.1
30°-40°	239.4	7.3
40°-50°	246.1	7.5
50°-60°	219.9	6.7
60°-70°	167.0	5.1
70°-80°	95.4	2.9
80°-90°	25.2	0.8
90°-100°	18.0	0.5
100°-110°	77.9	2.4
110°-120°	222.3	6.8
120°-130°	337.9	10.3
130°-140°	365.5	11.1
140°-150°	349.2	10.6
150°-160°	287.2	8.7
160°-170°	187.7	5.7
170°-180°	64.9	2.0
0°-30°	380.0	11.6
0°-40°	619.4	18.9
0°-60°	1085.5	33.1
0°-90°	1373.2	41.8
90°-120°	318.2	9.7
90°-150°	1370.8	41.7
90°-180°	1911.0	58.2
0°-180°	3283.8	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°	3	4	12	29	27	4
105°	18	46	90	62	66	21
115°	164	436	225	107	121	225
125°	653	575	360	177	152	574
135°	723	654	473	294	232	557
145°	753	705	564	417	356	472
155°	762	728	630	523	474	352
165°	744	728	674	604	577	211
175°	701	703	690	666	648	68
180°	685	685	685	685	685	



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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°	0.9	0.9	0.9	1.9	2.8	10.1	11.2	9.8	9.8
95°	2.9	2.9	4.1	12.8	12.2	20.7	29.1	27.3	27.3
97.5°	5.9	6.5	9.3	37.8	28.5	27.7	39.3	43.7	44.5
100°	8.7	9.3	14.0	61.8	42.4	36.2	43.0	51.2	52.9
102.5°	12.0	13.0	22.3	97.1	59.6	42.5	49.1	56.3	58.5
105°	18.0	19.7	45.9	162.8	90.1	55.4	61.6	64.6	66.3
107.5°	26.7	33.7	123.7	228.8	127.9	73.2	79.8	79.3	80.8
110°	36.0	50.2	213.9	264.9	155.8	87.0	87.2	91.8	90.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	59.8	99.9	319.0	299.6	183.7	103.5	94.2	104.4	105.0
115°	163.9	281.6	436.0	348.3	225.0	132.9	107.0	116.9	120.9
117.5°	406.4	489.9	495.8	391.5	266.1	165.6	121.6	126.0	131.3
120°	551.0	568.1	523.7	418.0	293.5	189.0	133.7	132.1	137.8
122.5°	607.8	601.6	546.5	442.7	320.5	213.7	148.6	139.5	143.3
125°	653.3	637.4	574.9	476.9	359.8	250.7	176.7	151.7	151.7
127.5°	680.5	662.0	600.9	507.2	395.3	288.1	210.5	171.6	166.2
130°	696.4	676.5	616.7	528.2	418.5	312.2	234.3	188.7	180.2
132.5°	708.4	690.4	631.6	544.6	441.3	335.9	258.0	210.0	196.0
135°	723.1	707.8	654.5	569.8	473.2	371.4	293.5	246.7	232.5
137.5°	732.5	720.6	675.1	590.4	502.7	406.6	329.5	282.4	269.6
140°	737.6	728.0	685.3	602.7	520.8	429.3	354.6	306.6	294.7
142.5°	742.7	734.9	692.8	616.2	538.5	452.0	379.2	331.3	318.4
145°	753.3	744.2	705.1	632.6	563.8	483.7	417.4	367.1	355.7
147.5°	760.8	749.9	715.2	650.2	587.8	512.4	452.3	403.8	392.6
150°	762.6	751.3	720.8	659.6	602.2	530.0	473.7	427.6	416.8
152.5°	761.2	752.6	725.0	667.6	614.3	547.1	493.3	450.4	440.5
155°	762.0	754.1	728.3	678.4	629.5	571.0	522.6	484.5	474.3
157.5°	758.6	753.3	730.7	686.7	643.6	592.3	549.4	517.4	507.1
160°	758.6	750.6	730.7	691.4	653.3	606.2	566.2	537.5	529.0
162.5°	753.4	746.4	730.2	694.8	662.6	619.1	582.0	555.2	548.9
165°	744.0	738.3	727.7	699.3	674.3	636.8	604.5	580.6	576.6
167.5°	736.7	728.9	723.1	699.1	682.2	649.4	623.6	603.8	601.5
170°	728.3	723.2	718.4	697.8	685.9	658.6	637.1	617.3	615.0
172.5°	717.6	714.8	712.4	697.0	688.2	666.4	648.7	630.7	626.6
175°	701.0	703.3	702.8	695.1	690.5	676.3	665.6	652.6	647.5
177.5°	690.8	689.9	692.2	690.8	690.3	681.7	678.7	669.9	672.6
180°	684.7	684.7	684.7	684.7	684.7	684.7	684.7	684.7	684.7

(END OF REPORT)