

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: P522336

Luminaire Tested: **SQW-F-050U-050D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522336
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-050D-92765-1D-UNV-STD-W-4 (2700K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

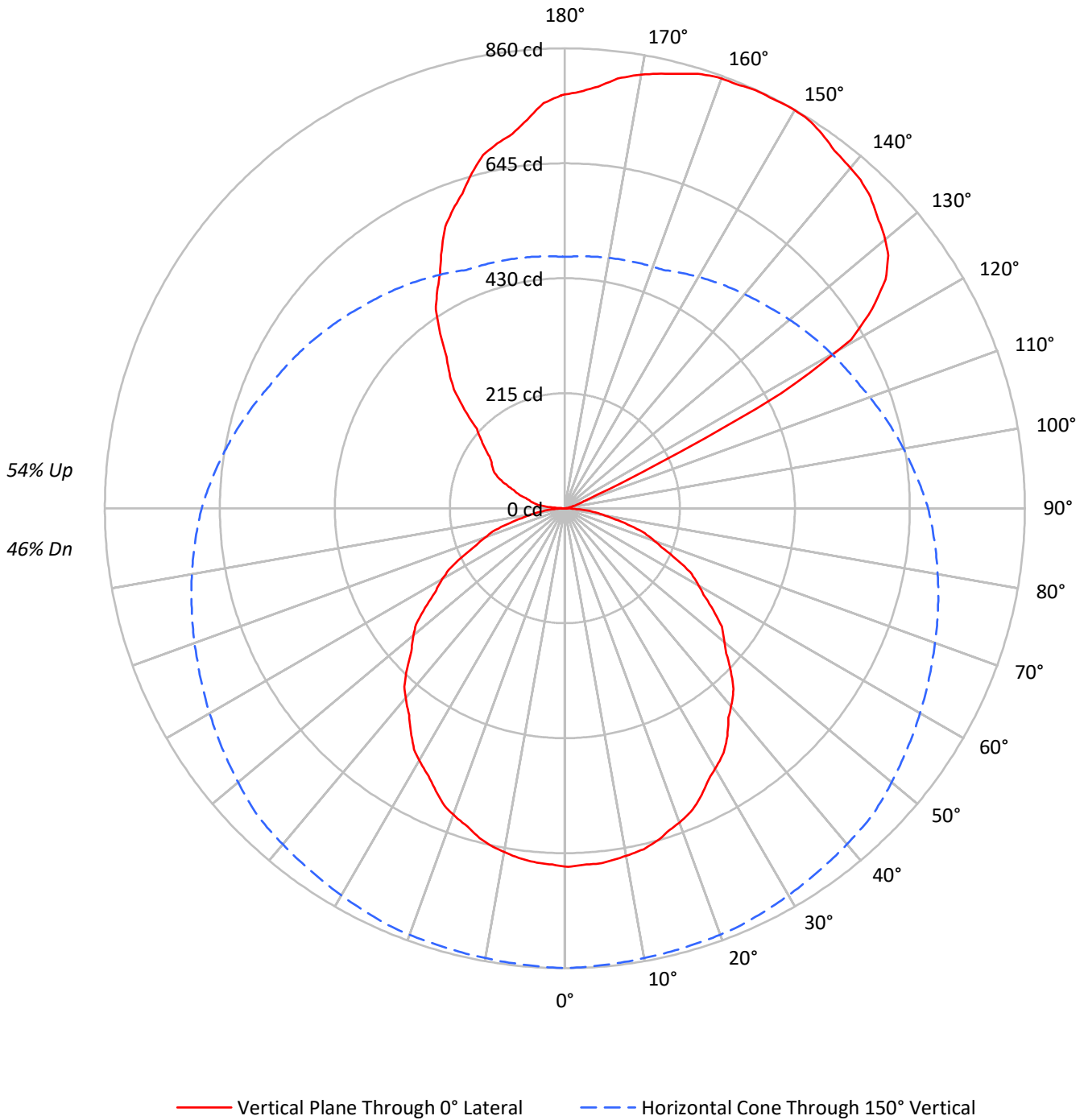
Lumens per Lamp: N/A
Luminaire Lumens: 4026.2 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 38.8
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



TEST NUMBER: P522336
CATALOG NUMBER: SQW-F-050U-050D-92765-1D-UNV-STD-W-4 (2700K)

Luminous Intensity Polar Plot





TEST NUMBER: P522336

CATALOG NUMBER: SQW-F-050U-050D-92765-1D-UNV-STD-W-4 (2700K)

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	106	106	106	106	98	98	98	98	81	81	81	67	67	67	53	53	53	46
1	97	93	89	85	89	85	82	79	71	69	67	58	57	55	47	45	44	39
2	88	81	74	69	81	74	69	64	62	58	55	51	48	46	41	39	37	32
3	80	71	63	58	73	65	59	54	55	50	46	45	42	39	36	34	32	27
4	73	63	55	49	67	58	51	45	49	43	39	40	36	33	32	29	27	23
5	67	56	47	41	61	51	44	39	43	38	34	36	32	28	29	26	23	20
6	62	50	42	36	57	46	39	34	39	33	29	32	28	25	26	23	21	18
7	57	45	37	31	52	42	34	29	35	30	26	29	25	22	24	21	18	16
8	53	41	33	28	49	38	31	26	32	27	23	27	23	19	22	19	16	14
9	49	37	30	25	45	34	28	23	29	24	20	25	20	17	20	17	15	12
10	46	34	27	22	42	32	25	21	27	22	18	23	19	16	19	16	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	10829	10829	10829
5°	10823	10932	10776
10°	10808	10917	10729
15°	10795	10858	10651
20°	10718	10801	10521
25°	10584	10687	10345
30°	10435	10577	10204
35°	10314	10447	10013
40°	10123	10304	9841
45°	9939	10159	9613
50°	9686	9972	9372
55°	9481	9748	9022
60°	9206	9545	8680
65°	8699	9138	8187
70°	8219	8719	7633
75°	7580	7997	6981
80°	6583	7029	5867
85°	4965	5502	4428



TEST NUMBER: P522336

CATALOG NUMBER: SQW-F-050U-050D-92765-1D-UNV-STD-W-4 (2700K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.4	1.6
10°-20°	181.3	4.5
20°-30°	272.8	6.8
30°-40°	325.7	8.1
40°-50°	335.0	8.3
50°-60°	301.4	7.5
60°-70°	227.9	5.7
70°-80°	129.6	3.2
80°-90°	34.3	0.9
90°-100°	20.3	0.5
100°-110°	87.9	2.2
110°-120°	250.7	6.2
120°-130°	381.1	9.5
130°-140°	412.2	10.2
140°-150°	393.9	9.8
150°-160°	323.9	8.0
160°-170°	211.7	5.3
170°-180°	73.2	1.8
0°-30°	517.5	12.9
0°-40°	843.2	20.9
0°-60°	1479.5	36.7
0°-90°	1871.3	46.5
90°-120°	358.9	8.9
90°-150°	1546.1	38.4
90°-180°	2155.0	53.5
0°-180°	4026.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	671	671	671	671	671	
5°	668	668	674	668	665	63
15°	646	647	650	642	637	182
25°	594	600	600	591	581	273
35°	523	529	530	519	508	326
45°	435	441	445	430	421	335
55°	337	344	346	333	320	301
65°	228	234	239	225	214	226
75°	122	125	128	119	112	128
85°	27	31	30	27	24	32
90°	0	0	0	0	0	1
95°	3	5	14	33	31	4
105°	20	52	102	70	75	23
115°	185	492	254	121	136	254
125°	737	648	406	199	171	648
135°	816	738	534	331	262	629
145°	850	795	636	471	401	532
155°	860	821	710	589	535	397
165°	839	821	760	682	650	239
175°	791	793	779	751	730	77
180°	772	772	772	772	772	



TEST NUMBER: P522336

CATALOG NUMBER: SQW-F-050U-050D-92765-1D-UNV-STD-W-4 (2700K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	670.7	670.7	670.7	670.7	670.7	670.7	670.7	670.7	670.7
2.5°	667.6	669.9	669.9	669.3	675.3	669.3	670.7	669.1	666.8
5°	667.8	667.8	667.8	667.0	674.5	666.1	667.8	664.9	664.9
7.5°	663.8	664.0	664.7	662.2	670.5	661.1	662.8	659.8	660.5
10°	659.2	660.1	660.1	658.4	665.9	656.5	658.2	654.4	654.4
12.5°	654.6	654.8	655.6	653.0	660.5	650.4	652.1	648.3	647.5
15°	645.8	645.8	646.8	643.1	649.6	640.3	642.0	637.2	637.2
17.5°	633.0	632.8	635.1	630.3	637.0	626.5	629.9	623.9	622.3
20°	623.8	622.9	626.7	621.1	628.6	617.4	620.0	613.2	612.3
22.5°	612.3	611.4	616.7	611.1	617.9	606.6	609.3	600.3	600.1
25°	594.1	593.2	599.9	594.3	599.9	589.6	591.3	581.7	580.7
27.5°	573.5	573.5	581.3	574.8	581.1	570.8	571.6	561.8	561.8
30°	559.7	559.7	568.3	561.7	567.3	557.1	557.8	547.3	547.3
32.5°	545.1	545.1	552.2	547.2	552.8	542.5	542.5	531.9	531.9
35°	523.3	521.5	529.1	524.4	530.0	519.7	518.6	508.0	508.0
37.5°	497.1	496.2	504.6	501.2	505.7	495.6	492.9	482.8	483.7
40°	480.3	479.3	487.0	485.2	488.9	479.5	474.5	466.0	466.9
42.5°	462.7	461.0	468.6	467.5	471.3	461.9	457.7	448.3	448.5
45°	435.3	435.3	441.1	441.1	444.9	434.6	430.5	421.0	421.0
47.5°	406.2	406.4	412.4	412.6	416.2	407.2	402.8	392.4	392.3
50°	385.6	386.5	393.2	394.2	397.0	389.6	383.7	374.1	373.1
52.5°	368.0	366.7	373.3	375.1	377.1	369.7	363.8	354.2	353.2
55°	336.8	337.7	343.5	346.3	346.3	339.8	332.9	323.3	320.5
57.5°	305.8	307.1	311.7	315.4	316.3	309.0	301.9	293.3	289.5
60°	285.1	284.2	291.8	294.7	295.6	289.1	281.3	272.6	268.8
62.5°	262.9	263.5	268.8	273.3	274.2	266.9	259.8	248.9	245.9
65°	227.7	230.5	234.4	237.3	239.2	233.6	224.8	216.2	214.3
67.5°	195.6	197.4	201.3	205.7	206.8	200.5	192.7	185.2	183.1
70°	174.1	176.0	179.9	182.8	184.7	179.0	171.3	164.5	161.7
72.5°	152.7	154.6	157.7	160.6	162.5	156.8	149.8	143.8	141.8
75°	121.5	123.4	125.3	127.3	128.2	124.5	118.6	112.9	111.9
77.5°	90.7	92.6	94.7	97.2	96.2	93.6	88.0	84.2	83.0
80°	70.8	72.7	75.6	76.5	75.6	73.7	68.9	65.0	63.1
82.5°	52.4	54.3	57.2	57.4	55.7	55.3	51.3	48.2	47.1
85°	26.8	28.7	30.6	31.5	29.7	29.7	26.8	23.9	23.9
87.5°	5.4	6.9	9.2	11.4	9.2	9.9	7.7	5.4	5.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	1.0	1.0	1.0	2.1	3.1	11.4	12.6	11.0	11.0
95°	3.3	3.3	4.6	14.4	13.8	23.4	32.8	30.8	30.8
97.5°	6.7	7.3	10.5	42.6	32.1	31.2	44.3	49.3	50.2
100°	9.8	10.5	15.7	69.7	47.9	40.8	48.5	57.7	59.7
102.5°	13.5	14.7	25.2	109.6	67.3	47.9	55.3	63.5	66.0
105°	20.3	22.2	51.8	183.7	101.6	62.5	69.5	72.8	74.7
107.5°	30.2	38.0	139.5	258.1	144.2	82.6	89.9	89.5	91.1
110°	40.6	56.7	241.3	298.8	175.7	98.1	98.3	103.5	101.6



TEST NUMBER: P522336

CATALOG NUMBER: SQW-F-050U-050D-92765-1D-UNV-STD-W-4 (2700K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	67.4	112.6	359.8	337.9	207.2	116.8	106.2	117.8	118.4
115°	184.9	317.6	491.7	392.8	253.7	149.9	120.6	131.9	136.4
117.5°	458.4	552.5	559.2	441.5	300.1	186.8	137.1	142.1	148.0
120°	621.5	640.7	590.7	471.4	331.1	213.1	150.8	149.0	155.4
122.5°	685.5	678.5	616.4	499.3	361.5	241.0	167.6	157.3	161.7
125°	736.9	718.9	648.4	537.8	405.8	282.7	199.3	171.1	171.1
127.5°	767.5	746.6	677.7	572.1	445.8	324.9	237.4	193.5	187.5
130°	785.4	762.9	695.6	595.7	472.0	352.1	264.2	212.8	203.2
132.5°	799.0	778.6	712.3	614.2	497.7	378.9	290.9	236.8	221.1
135°	815.5	798.2	738.2	642.6	533.6	418.9	331.1	278.3	262.2
137.5°	826.2	812.7	761.4	665.9	566.9	458.6	371.6	318.5	304.1
140°	831.9	821.0	772.9	679.7	587.4	484.2	399.9	345.8	332.4
142.5°	837.7	828.8	781.3	695.0	607.3	509.8	427.7	373.6	359.1
145°	849.6	839.4	795.2	713.5	635.9	545.5	470.7	414.0	401.2
147.5°	858.0	845.7	806.6	733.3	662.9	577.9	510.2	455.5	442.8
150°	860.1	847.3	812.9	743.9	679.2	597.8	534.3	482.2	470.0
152.5°	858.5	848.8	817.6	752.9	692.8	617.0	556.3	507.9	496.8
155°	859.5	850.5	821.4	765.1	710.0	644.0	589.4	546.5	534.9
157.5°	855.5	849.6	824.1	774.4	725.9	668.0	619.6	583.6	571.9
160°	855.5	846.5	824.1	779.8	736.9	683.7	638.5	606.2	596.6
162.5°	849.8	841.8	823.5	783.6	747.4	698.3	656.4	626.2	619.1
165°	839.1	832.7	820.8	788.7	760.5	718.2	681.8	654.8	650.3
167.5°	830.9	822.0	815.5	788.5	769.4	732.5	703.3	681.0	678.4
170°	821.4	815.7	810.3	787.0	773.6	742.8	718.5	696.2	693.6
172.5°	809.4	806.2	803.5	786.1	776.2	751.6	731.6	711.3	706.7
175°	790.6	793.2	792.6	783.9	778.8	762.8	750.6	736.1	730.3
177.5°	779.1	778.1	780.7	779.1	778.6	768.8	765.4	755.6	758.6
180°	772.3	772.3	772.3	772.3	772.3	772.3	772.3	772.3	772.3

(END OF REPORT)