

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: P522335

Luminaire Tested: **SQW-F-050U-025D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522335
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 (6500K)
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 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

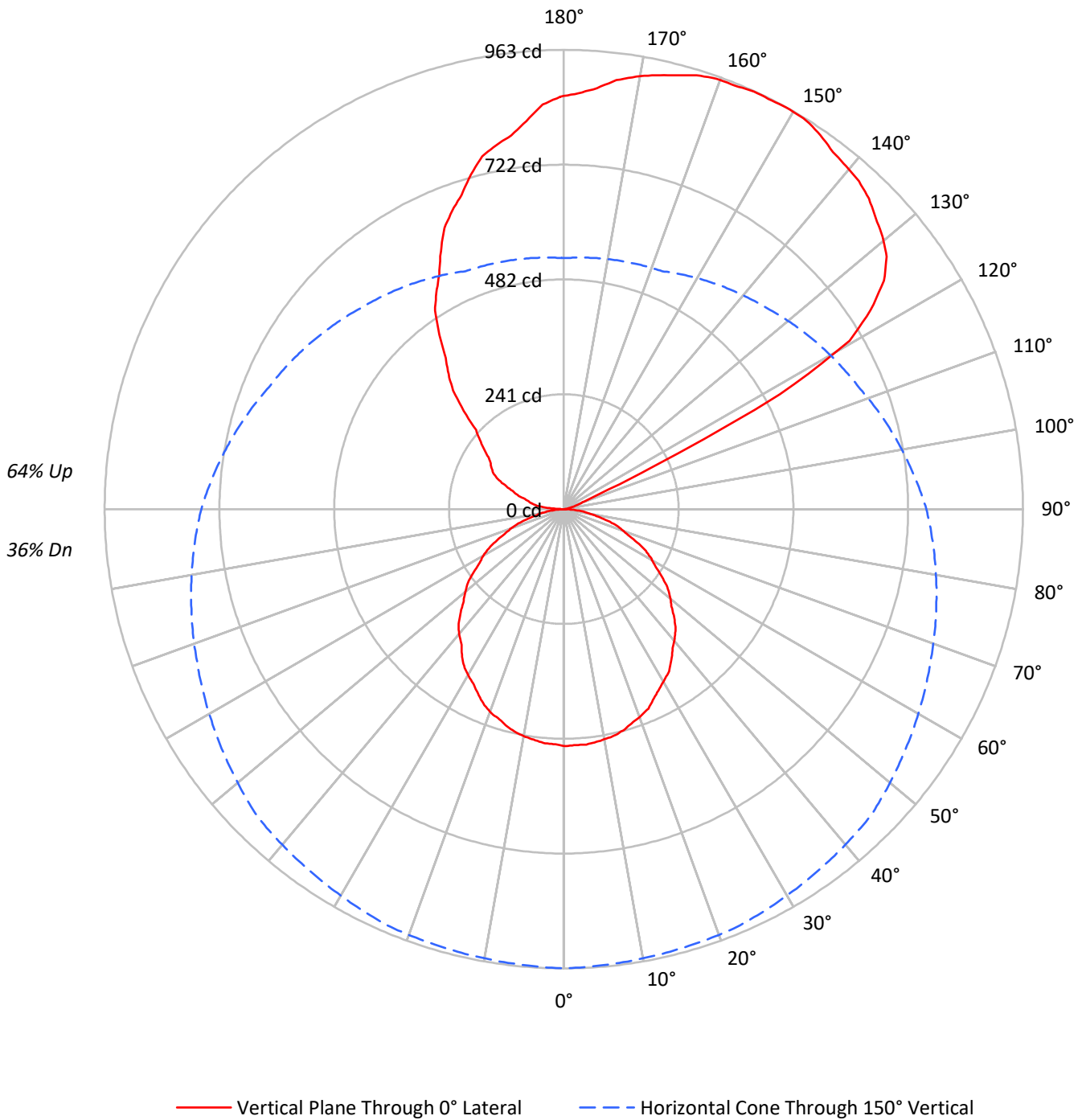
Lumens per Lamp: N/A
Luminaire Lumens: 3798.8 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 31.7
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: P522335
CATALOG NUMBER: SQW-F-050U-025D-92765-1D-UNV-STD-W-4 (6500K)

Luminous Intensity Polar Plot





TEST NUMBER: P522335

CATALOG NUMBER: SQW-F-050U-025D-92765-1D-UNV-STD-W-4 (6500K)

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°	8024	8024	8024
5°	8037	8107	7985
10°	8025	8096	7938
15°	8003	8057	7878
20°	7950	8005	7804
25°	7824	7919	7652
30°	7748	7828	7528
35°	7663	7748	7411
40°	7541	7630	7246
45°	7412	7508	7069
50°	7264	7372	6835
55°	7026	7206	6632
60°	6814	7020	6365
65°	6464	6835	6055
70°	6118	6524	5665
75°	5677	6014	5078
80°	5077	5281	4482
85°	3779	3964	2983



TEST NUMBER: P522335

CATALOG NUMBER: SQW-F-050U-025D-92765-1D-UNV-STD-W-4 (6500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.0	1.2
10°-20°	134.5	3.5
20°-30°	202.1	5.3
30°-40°	241.7	6.4
40°-50°	248.5	6.5
50°-60°	222.0	5.8
60°-70°	168.6	4.4
70°-80°	96.3	2.5
80°-90°	25.5	0.7
90°-100°	22.7	0.6
100°-110°	98.4	2.6
110°-120°	280.6	7.4
120°-130°	426.7	11.2
130°-140°	461.5	12.1
140°-150°	441.0	11.6
150°-160°	362.7	9.5
160°-170°	237.0	6.2
170°-180°	82.0	2.2
0°-30°	383.6	10.1
0°-40°	625.3	16.5
0°-60°	1095.8	28.8
0°-90°	1386.2	36.5
90°-120°	401.7	10.6
90°-150°	1730.9	45.6
90°-180°	2413.0	63.5
0°-180°	3798.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	497	497	497	497	497	
5°	496	496	500	495	493	47
15°	479	480	482	476	471	135
25°	439	444	444	437	430	203
35°	389	394	393	384	376	243
45°	325	329	329	319	310	250
55°	250	254	256	243	236	223
65°	169	175	179	166	158	168
75°	91	94	96	87	81	97
85°	20	24	21	19	16	25
90°	0	0	0	0	0	1
95°	4	5	15	37	34	5
105°	23	58	114	78	84	26
115°	207	550	284	135	153	285
125°	825	726	454	223	192	725
135°	913	826	597	371	294	704
145°	951	890	712	527	449	596
155°	962	920	795	660	599	445
165°	940	919	851	763	728	267
175°	885	887	872	840	818	86
180°	865	865	865	865	865	



TEST NUMBER: P522335

CATALOG NUMBER: SQW-F-050U-025D-92765-1D-UNV-STD-W-4 (6500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	497.0	497.0	497.0	497.0	497.0	497.0	497.0	497.0	497.0
2.5°	495.3	496.1	497.0	497.1	501.3	496.3	496.1	495.3	493.6
5°	495.9	495.9	495.9	495.0	500.2	493.9	494.9	492.7	492.7
7.5°	492.9	492.1	492.3	491.1	496.4	489.9	489.9	488.6	488.4
10°	489.5	489.5	490.6	488.6	493.8	486.5	487.4	485.2	484.2
12.5°	486.1	485.2	486.3	484.3	489.5	482.2	482.2	479.2	479.0
15°	478.8	478.8	479.9	477.8	482.0	475.7	475.6	472.3	471.3
17.5°	469.6	469.4	471.7	468.6	472.8	465.5	465.5	462.7	461.0
20°	462.7	461.7	464.9	461.8	465.9	458.6	459.5	454.2	454.2
22.5°	454.2	453.1	457.2	453.2	457.4	450.0	450.9	444.7	443.9
25°	439.2	440.2	444.5	441.4	444.5	437.2	437.0	430.6	429.5
27.5°	426.7	425.9	431.5	427.0	430.2	422.8	422.9	415.1	414.1
30°	415.6	415.6	422.0	416.7	419.9	412.6	413.5	404.9	403.8
32.5°	405.3	405.3	410.9	407.3	409.6	402.3	401.5	393.7	392.7
35°	388.8	388.8	394.2	391.0	393.1	385.8	384.5	376.0	376.0
37.5°	370.6	369.8	374.9	372.8	374.9	367.8	365.3	357.7	356.7
40°	357.8	357.8	362.0	359.9	362.0	355.8	352.4	344.9	343.8
42.5°	344.0	344.0	349.2	347.1	349.2	342.1	338.7	331.2	330.1
45°	324.6	324.6	328.8	327.8	328.8	322.6	319.2	310.6	309.6
47.5°	303.8	302.9	307.0	307.2	308.9	302.0	297.6	289.4	288.3
50°	289.2	289.2	292.4	293.5	293.5	288.3	283.9	273.1	272.1
52.5°	272.1	272.9	276.1	277.2	278.1	271.2	266.7	258.5	257.5
55°	249.6	248.5	253.9	255.0	256.0	249.7	243.1	236.7	235.6
57.5°	226.4	226.2	230.7	232.0	232.9	227.6	221.1	213.8	212.5
60°	211.0	210.0	215.3	217.4	217.4	212.2	205.7	199.2	197.1
62.5°	193.0	195.3	199.0	201.2	202.9	196.8	189.4	183.8	181.7
65°	169.2	170.3	174.6	176.8	178.9	172.6	166.0	160.6	158.5
67.5°	145.0	146.9	150.2	152.4	154.5	148.4	141.8	137.3	135.4
70°	129.6	130.7	133.9	136.1	138.2	132.9	126.4	121.0	120.0
72.5°	114.2	115.2	118.5	119.8	121.0	115.8	110.1	106.4	104.5
75°	91.0	92.1	94.3	95.4	96.4	91.2	86.8	83.5	81.4
77.5°	69.2	69.2	71.3	72.2	72.2	69.1	64.9	61.9	60.2
80°	54.6	54.6	56.8	56.8	56.8	53.6	50.3	48.2	48.2
82.5°	40.1	40.9	43.1	43.0	42.2	39.9	37.5	35.3	35.3
85°	20.4	21.4	23.6	23.5	21.4	21.4	19.3	18.2	16.1
87.5°	5.1	6.0	7.7	8.5	6.9	6.9	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	12.7	14.1	12.3	12.3
95°	3.7	3.7	5.1	16.1	15.4	26.2	36.7	34.5	34.5
97.5°	7.5	8.2	11.7	47.7	36.0	35.0	49.6	55.2	56.2
100°	11.0	11.7	17.6	78.0	53.6	45.7	54.3	64.6	66.8
102.5°	15.1	16.4	28.2	122.7	75.3	53.6	61.9	71.1	73.8
105°	22.8	24.9	58.0	205.6	113.8	70.0	77.8	81.5	83.7
107.5°	33.8	42.5	156.2	288.9	161.5	92.4	100.7	100.2	102.0
110°	45.5	63.4	270.1	334.5	196.7	109.9	110.1	115.9	113.8



TEST NUMBER: P522335

CATALOG NUMBER: SQW-F-050U-025D-92765-1D-UNV-STD-W-4 (6500K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	75.5	126.1	402.8	378.3	231.9	130.7	118.9	131.8	132.6
115°	207.0	355.5	550.5	439.8	284.0	167.8	135.0	147.6	152.7
117.5°	513.2	618.5	626.1	494.3	336.0	209.1	153.5	159.1	165.7
120°	695.8	717.3	661.3	527.8	370.6	238.6	168.8	166.8	173.9
122.5°	767.4	759.7	690.1	559.0	404.7	269.8	187.6	176.1	181.0
125°	825.0	804.9	725.9	602.2	454.3	316.5	223.1	191.6	191.6
127.5°	859.3	835.9	758.8	640.5	499.1	363.7	265.8	216.7	209.9
130°	879.3	854.2	778.7	667.0	528.4	394.2	295.8	238.3	227.5
132.5°	894.5	871.7	797.5	687.7	557.2	424.2	325.7	265.1	247.5
135°	913.0	893.7	826.4	719.4	597.4	469.0	370.6	311.5	293.6
137.5°	924.9	909.9	852.4	745.5	634.7	513.4	416.0	356.6	340.4
140°	931.4	919.2	865.3	761.0	657.6	542.1	447.7	387.2	372.1
142.5°	937.9	927.9	874.7	778.1	679.9	570.7	478.8	418.3	402.1
145°	951.2	939.7	890.3	798.8	711.9	610.8	527.0	463.5	449.2
147.5°	960.6	946.8	903.1	821.0	742.2	647.0	571.2	509.9	495.7
150°	963.0	948.6	910.1	832.9	760.4	669.2	598.2	539.9	526.2
152.5°	961.2	950.3	915.4	843.0	775.6	690.8	622.8	568.7	556.2
155°	962.2	952.2	919.6	856.6	794.9	721.0	659.8	611.8	598.9
157.5°	957.8	951.2	922.6	867.0	812.6	747.9	693.7	653.4	640.3
160°	957.8	947.8	922.6	873.1	825.0	765.4	714.9	678.7	667.9
162.5°	951.4	942.5	922.0	877.3	836.7	781.7	734.8	701.0	693.1
165°	939.5	932.3	918.9	883.0	851.4	804.0	763.3	733.1	728.1
167.5°	930.2	920.3	913.0	882.8	861.4	820.0	787.4	762.4	759.5
170°	919.6	913.2	907.2	881.1	866.1	831.6	804.4	779.4	776.5
172.5°	906.1	902.6	899.5	880.1	869.0	841.4	819.1	796.4	791.2
175°	885.2	888.0	887.4	877.7	871.9	854.0	840.4	824.1	817.6
177.5°	872.2	871.1	874.0	872.2	871.6	860.7	857.0	845.9	849.3
180°	864.6	864.6	864.6	864.6	864.6	864.6	864.6	864.6	864.6

(END OF REPORT)