

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: P522331

Luminaire Tested: **SQW-F-050U-025D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522331
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 (4000K)
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 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

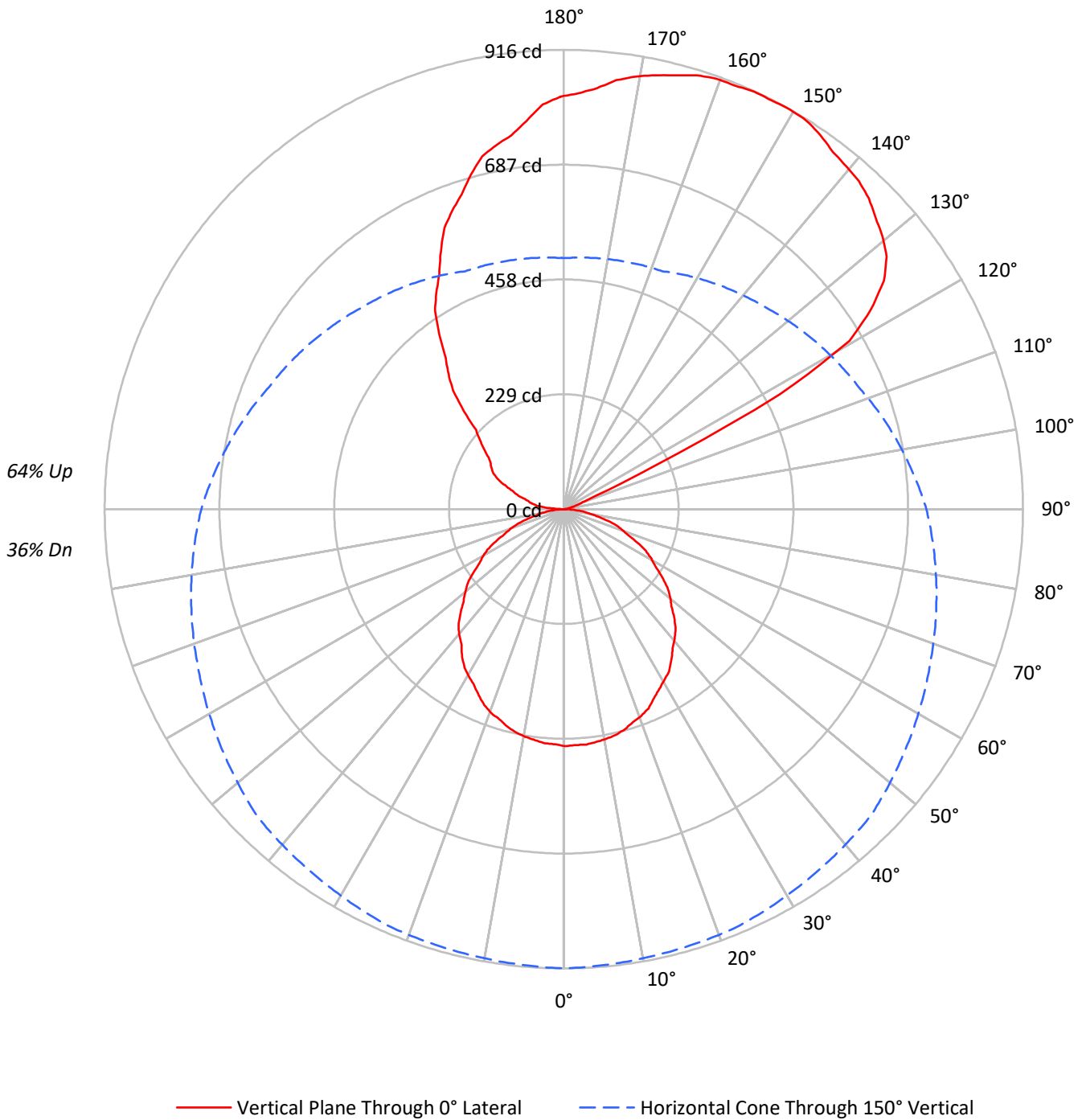
Lumens per Lamp: N/A
Luminaire Lumens: 3611.4 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 31.9
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	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°	7629	7629	7629
5°	7642	7707	7592
10°	7630	7696	7547
15°	7609	7659	7490
20°	7558	7612	7419
25°	7438	7529	7274
30°	7366	7443	7157
35°	7285	7366	7045
40°	7168	7255	6890
45°	7044	7138	6720
50°	6905	7008	6496
55°	6680	6852	6305
60°	6478	6675	6051
65°	6147	6499	5757
70°	5816	6203	5382
75°	5402	5714	4828
80°	4826	5021	4258
85°	3575	3779	2834



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.7	1.2
10°-20°	127.8	3.5
20°-30°	192.2	5.3
30°-40°	229.8	6.4
40°-50°	236.2	6.5
50°-60°	211.0	5.8
60°-70°	160.3	4.4
70°-80°	91.6	2.5
80°-90°	24.2	0.7
90°-100°	21.6	0.6
100°-110°	93.6	2.6
110°-120°	266.8	7.4
120°-130°	405.6	11.2
130°-140°	438.7	12.1
140°-150°	419.2	11.6
150°-160°	344.8	9.5
160°-170°	225.3	6.2
170°-180°	77.9	2.2
0°-30°	364.7	10.1
0°-40°	594.5	16.5
0°-60°	1041.7	28.8
0°-90°	1317.8	36.5
90°-120°	381.9	10.6
90°-150°	1645.5	45.6
90°-180°	2294.0	63.5
0°-180°	3611.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	472	472	472	472	472	
5°	472	472	476	470	468	45
15°	455	456	458	452	448	128
25°	418	423	423	416	408	193
35°	370	375	374	366	357	231
45°	308	313	313	304	294	238
55°	237	241	243	231	224	212
65°	161	166	170	158	151	159
75°	87	90	92	82	77	92
85°	19	22	20	18	15	23
90°	0	0	0	0	0	1
95°	4	5	15	35	33	4
105°	22	55	108	74	80	25
115°	197	523	270	128	145	271
125°	784	690	432	212	182	689
135°	868	786	568	352	279	669
145°	904	846	677	501	427	566
155°	915	874	756	627	569	423
165°	893	874	809	726	692	254
175°	842	844	829	799	777	82
180°	822	822	822	822	822	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	472.5	472.5	472.5	472.5	472.5	472.5	472.5	472.5	472.5
2.5°	470.9	471.7	472.5	472.6	476.6	471.8	471.7	470.8	469.2
5°	471.5	471.5	471.5	470.6	475.5	469.6	470.5	468.4	468.4
7.5°	468.6	467.8	468.0	466.9	471.9	465.7	465.8	464.5	464.3
10°	465.4	465.4	466.4	464.5	469.4	462.5	463.3	461.3	460.3
12.5°	462.1	461.3	462.3	460.4	465.4	458.4	458.4	455.6	455.4
15°	455.2	455.2	456.2	454.3	458.2	452.3	452.1	449.0	448.1
17.5°	446.4	446.2	448.5	445.5	449.5	442.5	442.6	439.9	438.3
20°	439.9	438.9	441.9	439.0	443.0	436.0	436.8	431.8	431.8
22.5°	431.8	430.8	434.6	430.8	434.8	427.8	428.7	422.8	422.0
25°	417.5	418.5	422.6	419.6	422.6	415.6	415.5	409.3	408.3
27.5°	405.7	404.9	410.2	406.0	408.9	402.0	402.0	394.7	393.7
30°	395.1	395.1	401.2	396.2	399.2	392.2	393.1	384.9	383.9
32.5°	385.3	385.3	390.6	387.2	389.4	382.4	381.7	374.3	373.3
35°	369.6	369.6	374.7	371.7	373.7	366.7	365.6	357.4	357.4
37.5°	352.3	351.5	356.4	354.4	356.4	349.6	347.2	340.1	339.1
40°	340.1	340.1	344.2	342.2	344.2	338.2	335.0	327.9	326.9
42.5°	327.1	327.1	332.0	330.0	332.0	325.2	322.0	314.8	313.8
45°	308.5	308.5	312.6	311.6	312.6	306.6	303.5	295.3	294.3
47.5°	288.8	288.0	291.8	292.1	293.7	287.1	282.9	275.1	274.1
50°	274.9	274.9	278.0	279.0	279.0	274.0	269.8	259.6	258.6
52.5°	258.6	259.4	262.5	263.6	264.4	257.8	253.6	245.8	244.8
55°	237.3	236.3	241.3	242.4	243.4	237.4	231.2	225.0	224.0
57.5°	215.3	215.1	219.3	220.6	221.4	216.4	210.2	203.2	202.0
60°	200.6	199.6	204.7	206.7	206.7	201.7	195.5	189.4	187.4
62.5°	183.5	185.7	189.2	191.3	192.9	187.1	180.0	174.7	172.7
65°	160.9	161.9	166.0	168.1	170.1	164.1	157.8	152.7	150.7
67.5°	137.9	139.7	142.8	144.8	146.8	141.1	134.8	130.5	128.7
70°	123.2	124.2	127.3	129.4	131.4	126.4	120.2	115.0	114.0
72.5°	108.6	109.5	112.6	113.9	115.1	110.1	104.7	101.2	99.4
75°	86.6	87.6	89.6	90.7	91.6	86.7	82.5	79.4	77.4
77.5°	65.8	65.8	67.8	68.6	68.6	65.6	61.7	58.8	57.2
80°	51.9	51.9	54.0	54.0	54.0	51.0	47.9	45.8	45.8
82.5°	38.1	38.9	40.9	40.9	40.1	37.9	35.6	33.6	33.6
85°	19.3	20.3	22.4	22.4	20.4	20.4	18.3	17.3	15.3
87.5°	4.9	5.7	7.3	8.1	6.5	6.5	4.9	3.3	3.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	1.1	1.1	1.1	2.3	3.3	12.1	13.4	11.7	11.7
95°	3.5	3.5	4.9	15.3	14.7	24.9	34.9	32.8	32.8
97.5°	7.1	7.8	11.2	45.4	34.2	33.2	47.2	52.5	53.4
100°	10.5	11.1	16.7	74.1	50.9	43.4	51.6	61.4	63.5
102.5°	14.4	15.6	26.8	116.6	71.6	51.0	58.9	67.6	70.2
105°	21.6	23.7	55.1	195.5	108.2	66.5	74.0	77.5	79.5
107.5°	32.1	40.4	148.5	274.7	153.5	87.9	95.7	95.2	97.0
110°	43.3	60.3	256.8	318.0	187.0	104.4	104.7	110.2	108.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	71.7	119.9	382.9	359.7	220.5	124.3	113.0	125.3	126.0
115°	196.8	338.0	523.3	418.1	270.0	159.5	128.4	140.4	145.1
117.5°	487.9	588.0	595.2	469.9	319.4	198.8	146.0	151.3	157.6
120°	661.5	681.9	628.7	501.8	352.4	226.8	160.5	158.5	165.4
122.5°	729.6	722.2	656.0	531.4	384.7	256.5	178.3	167.4	172.1
125°	784.3	765.2	690.1	572.5	431.9	300.9	212.1	182.1	182.1
127.5°	816.9	794.7	721.3	608.9	474.5	345.8	252.7	206.0	199.6
130°	835.9	812.0	740.3	634.1	502.4	374.8	281.2	226.5	216.3
132.5°	850.4	828.7	758.2	653.8	529.7	403.2	309.7	252.1	235.3
135°	868.0	849.6	785.7	684.0	568.0	445.8	352.4	296.2	279.1
137.5°	879.3	865.0	810.4	708.8	603.4	488.1	395.5	339.0	323.6
140°	885.4	873.8	822.7	723.4	625.2	515.3	425.6	368.1	353.8
142.5°	891.6	882.2	831.6	739.7	646.4	542.6	455.2	397.6	382.2
145°	904.3	893.4	846.4	759.4	676.8	580.6	501.0	440.7	427.0
147.5°	913.2	900.1	858.5	780.5	705.6	615.1	543.0	484.8	471.3
150°	915.5	901.8	865.2	791.8	722.9	636.2	568.7	513.3	500.3
152.5°	913.8	903.4	870.2	801.4	737.4	656.7	592.1	540.6	528.8
155°	914.8	905.2	874.3	814.3	755.7	685.4	627.3	581.6	569.4
157.5°	910.6	904.3	877.1	824.3	772.6	711.0	659.5	621.1	608.7
160°	910.6	901.0	877.1	830.0	784.3	727.6	679.6	645.2	635.0
162.5°	904.4	896.0	876.5	834.1	795.4	743.2	698.6	666.5	659.0
165°	893.1	886.3	873.6	839.4	809.4	764.4	725.7	696.9	692.2
167.5°	884.3	874.9	868.0	839.2	818.9	779.6	748.5	724.8	722.0
170°	874.3	868.1	862.4	837.7	823.3	790.6	764.7	741.0	738.2
172.5°	861.4	858.0	855.2	836.6	826.1	799.9	778.7	757.1	752.2
175°	841.5	844.2	843.6	834.4	828.9	811.9	798.9	783.4	777.3
177.5°	829.2	828.1	830.9	829.2	828.7	818.3	814.7	804.2	807.4
180°	822.0	822.0	822.0	822.0	822.0	822.0	822.0	822.0	822.0

(END OF REPORT)