

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: P522515

Luminaire Tested: **SQW-F-050U-025D-93050-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522515
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-53,
Test Lab: INNOVATION CENTER
Issue Date: 5/11/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQW-F-050U-025D-93050-1D-UNV-STD-W-4 (4000K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 250 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

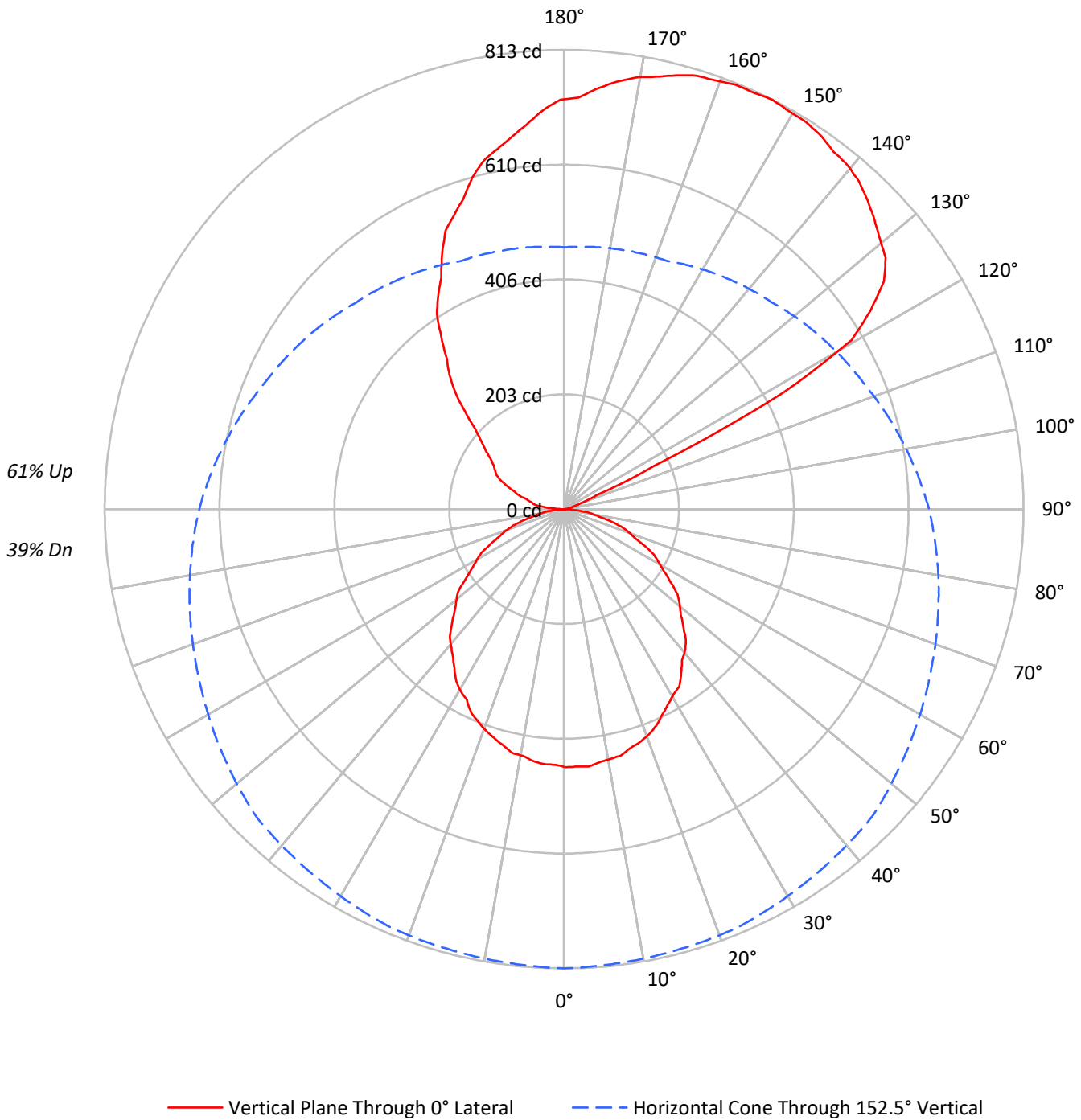
Lumens per Lamp: N/A
Luminaire Lumens: 3284.5 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 31.5
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	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	95	91	87	84	86	83	79	76	67	65	63	53	52	50	40	39	38	32
2	87	79	73	68	78	72	67	63	59	55	52	47	44	42	35	34	32	27
3	79	69	62	56	71	63	57	52	52	47	44	41	38	35	31	29	27	23
4	72	61	54	48	65	56	49	44	46	41	37	37	33	30	28	25	23	19
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17
6	61	49	41	35	55	45	38	33	37	31	28	29	26	23	23	20	18	15
7	56	44	36	31	51	40	33	28	33	28	24	27	23	20	21	18	16	13
8	52	40	32	27	47	37	30	25	30	25	21	24	20	18	19	16	14	12
9	48	36	29	24	44	33	27	22	28	23	19	22	19	16	17	15	13	10
10	45	33	26	21	41	30	24	20	25	20	17	21	17	14	16	13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	7375	7375	7375
5°	7420	7452	7339
10°	7373	7389	7258
15°	7331	7383	7213
20°	7328	7345	7137
25°	7183	7274	7058
30°	7103	7180	6915
35°	7033	7072	6753
40°	6945	6945	6624
45°	6738	6878	6462
50°	6651	6777	6295
55°	6457	6629	6032
60°	6232	6429	5809
65°	6025	6216	5521
70°	5679	5962	5202
75°	5234	5421	4666
80°	4603	4788	3942
85°	3372	3742	2612



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.2	1.3
10°-20°	123.4	3.8
20°-30°	185.4	5.6
30°-40°	221.3	6.7
40°-50°	227.3	6.9
50°-60°	203.9	6.2
60°-70°	154.4	4.7
70°-80°	88.2	2.7
80°-90°	23.1	0.7
90°-100°	18.3	0.6
100°-110°	81.2	2.5
110°-120°	233.3	7.1
120°-130°	355.3	10.8
130°-140°	385.7	11.7
140°-150°	368.9	11.2
150°-160°	303.9	9.3
160°-170°	198.9	6.1
170°-180°	68.8	2.1
0°-30°	352.0	10.7
0°-40°	573.2	17.5
0°-60°	1004.5	30.6
0°-90°	1270.2	38.7
90°-120°	332.8	10.1
90°-150°	1442.7	43.9
90°-180°	2014.0	61.3
0°-180°	3284.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	457	457	457	457	457	
5°	458	456	460	453	453	43
15°	439	442	442	438	432	124
25°	403	407	408	403	396	186
35°	357	359	359	351	343	223
45°	295	301	301	290	283	229
55°	229	234	236	223	214	205
65°	158	161	163	152	144	155
75°	84	87	87	80	75	89
85°	18	21	20	17	14	22
90°	0	0	0	0	0	1
95°	3	4	13	28	28	4
105°	18	49	93	64	68	21
115°	175	460	235	110	124	242
125°	695	605	375	186	158	610
135°	766	694	497	308	245	591
145°	802	746	593	438	374	502
155°	810	777	664	550	501	375
165°	793	773	712	640	608	225
175°	746	748	734	701	684	72
180°	725	725	725	725	725	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	456.8	456.8	456.8	456.8	456.8	456.8	456.8	456.8	456.8
2.5°	456.0	456.8	458.4	456.1	459.2	456.1	456.8	455.1	452.8
5°	457.8	455.8	455.8	455.9	459.8	454.9	452.8	451.8	452.8
7.5°	452.2	452.6	452.4	452.1	456.4	448.7	451.8	448.7	449.1
10°	449.7	447.8	450.7	448.8	450.7	447.8	447.7	444.6	442.7
12.5°	447.3	446.1	447.5	444.0	449.9	442.2	441.2	440.6	441.0
15°	438.6	441.6	441.7	438.7	441.7	434.7	437.6	433.5	431.5
17.5°	433.8	430.8	432.2	429.8	433.2	427.4	427.1	422.9	423.5
20°	426.5	423.5	426.5	422.6	427.5	418.6	421.4	416.4	415.4
22.5°	416.8	416.2	420.0	416.8	417.8	412.9	412.5	406.7	405.7
25°	403.2	404.2	407.3	402.4	408.3	400.4	403.2	394.2	396.2
27.5°	391.5	391.7	395.2	392.8	393.9	387.8	388.1	380.4	379.0
30°	381.0	382.0	387.1	383.1	385.1	378.1	380.0	369.9	370.9
32.5°	373.7	371.6	375.8	371.8	375.4	368.4	368.7	361.0	359.6
35°	356.8	356.8	358.8	358.8	358.8	351.9	350.7	343.6	342.6
37.5°	339.2	338.4	345.2	340.0	342.4	336.7	334.5	327.6	326.4
40°	329.5	325.5	331.5	329.5	329.5	324.5	322.4	316.3	314.3
42.5°	315.7	314.9	319.4	318.2	320.6	312.5	310.3	303.4	302.2
45°	295.1	296.1	301.2	299.2	301.2	296.2	290.1	285.0	283.0
47.5°	277.7	276.1	281.0	280.8	282.8	275.3	272.5	264.8	264.4
50°	264.8	264.8	268.8	267.9	269.8	263.9	258.7	252.6	250.6
52.5°	251.9	250.3	255.1	254.9	255.3	250.1	245.0	239.7	238.5
55°	229.4	230.4	234.5	234.5	235.5	230.5	223.4	217.2	214.3
57.5°	208.4	207.8	211.6	212.8	212.8	207.9	201.5	196.4	195.3
60°	193.0	194.0	197.1	199.1	199.1	194.2	187.0	181.9	179.9
62.5°	178.5	178.7	182.5	183.8	185.4	179.6	173.2	168.1	166.1
65°	157.7	156.7	160.7	162.7	162.7	157.8	151.6	146.5	144.5
67.5°	134.0	135.4	138.7	139.9	140.9	135.0	129.0	125.7	124.7
70°	120.3	119.3	123.3	125.3	126.3	120.4	115.2	111.1	110.2
72.5°	105.7	105.5	108.7	110.8	111.0	105.0	100.7	97.4	94.8
75°	83.9	84.9	86.9	86.9	86.9	83.0	79.8	76.8	74.8
77.5°	62.5	63.4	65.3	67.1	66.1	62.5	59.4	56.4	54.6
80°	49.5	50.5	51.5	52.5	51.5	49.6	46.5	43.4	42.4
82.5°	36.6	36.8	39.4	39.6	38.6	36.6	34.4	31.3	31.1
85°	18.2	19.2	21.2	21.2	20.2	19.2	17.2	15.1	14.1
87.5°	4.0	4.8	6.5	8.0	6.5	6.5	4.9	3.2	2.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.5	0.5	1.1	1.6	2.7	10.1	11.3	10.3	9.7
95°	2.7	2.7	4.1	12.8	12.8	20.8	28.4	27.7	27.7
97.5°	6.1	6.7	9.5	39.1	29.2	28.4	40.5	44.6	45.0
100°	8.8	9.4	14.9	63.7	43.2	36.6	43.2	52.7	54.7
102.5°	12.0	13.2	23.5	100.5	61.1	43.9	50.8	57.6	59.6
105°	18.2	20.2	49.3	168.5	93.2	58.2	64.2	67.6	68.2
107.5°	27.4	34.8	134.9	237.0	132.2	77.0	80.5	82.8	83.6
110°	37.1	53.0	234.4	278.3	161.4	91.4	89.1	95.2	93.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	62.5	109.0	344.0	312.2	190.6	108.4	97.3	107.1	107.9
115°	174.9	300.4	459.9	360.5	235.0	138.0	110.1	119.6	123.6
117.5°	439.0	522.3	521.0	405.2	277.7	172.7	125.5	130.0	134.5
120°	590.3	602.8	551.8	435.4	305.3	197.6	138.5	136.5	140.5
122.5°	646.5	636.3	575.0	461.9	333.4	223.6	155.2	143.5	147.0
125°	695.0	675.1	605.1	499.6	374.8	261.9	185.7	158.7	158.0
127.5°	721.8	701.1	634.6	532.4	412.9	301.7	220.4	180.2	174.1
130°	734.8	715.7	655.1	552.6	438.3	328.7	245.8	199.0	189.8
132.5°	750.5	729.7	669.7	573.2	462.6	354.1	271.2	221.7	210.9
135°	765.9	746.7	693.6	600.1	497.1	391.4	308.0	259.0	245.2
137.5°	779.6	762.1	715.5	621.2	528.1	428.2	346.9	299.2	282.3
140°	788.8	769.7	724.7	637.5	547.0	451.3	372.8	325.2	312.0
142.5°	792.1	780.3	734.4	651.2	568.1	473.4	398.7	349.6	337.4
145°	801.7	793.7	746.3	667.6	593.0	506.5	438.3	387.4	374.2
147.5°	807.9	796.0	757.2	685.3	617.3	536.1	474.2	425.3	413.1
150°	808.4	799.2	765.9	696.2	633.5	557.6	496.4	450.2	439.0
152.5°	812.7	801.4	770.2	705.5	645.4	575.8	518.5	475.6	463.3
155°	809.8	801.8	776.7	717.4	663.9	599.2	549.8	511.7	501.1
157.5°	809.8	800.0	777.5	726.6	681.7	624.9	578.9	543.8	535.8
160°	804.4	800.4	778.0	733.2	690.9	639.4	598.4	566.4	555.8
162.5°	802.2	795.6	779.1	737.6	699.0	651.2	615.1	584.8	576.9
165°	792.9	786.9	772.6	739.6	711.8	672.2	639.6	612.5	608.5
167.5°	782.2	777.6	768.2	742.8	720.3	688.0	660.5	638.6	633.2
170°	774.6	767.4	763.8	744.5	724.7	697.6	674.0	654.3	648.4
172.5°	761.7	760.8	757.9	740.3	728.5	706.1	686.4	668.4	664.6
175°	746.3	746.3	748.3	737.4	733.5	715.0	701.0	690.1	684.1
177.5°	728.5	729.0	733.3	732.8	733.3	722.8	718.7	708.4	707.4
180°	724.7	724.7	724.7	724.7	724.7	724.7	724.7	724.7	724.7

(END OF REPORT)