

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: P522302

Luminaire Tested: **SQW-F-025U-050D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522302
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-050D-92765-1D-UNV-STD-W-4 (5700K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 500 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

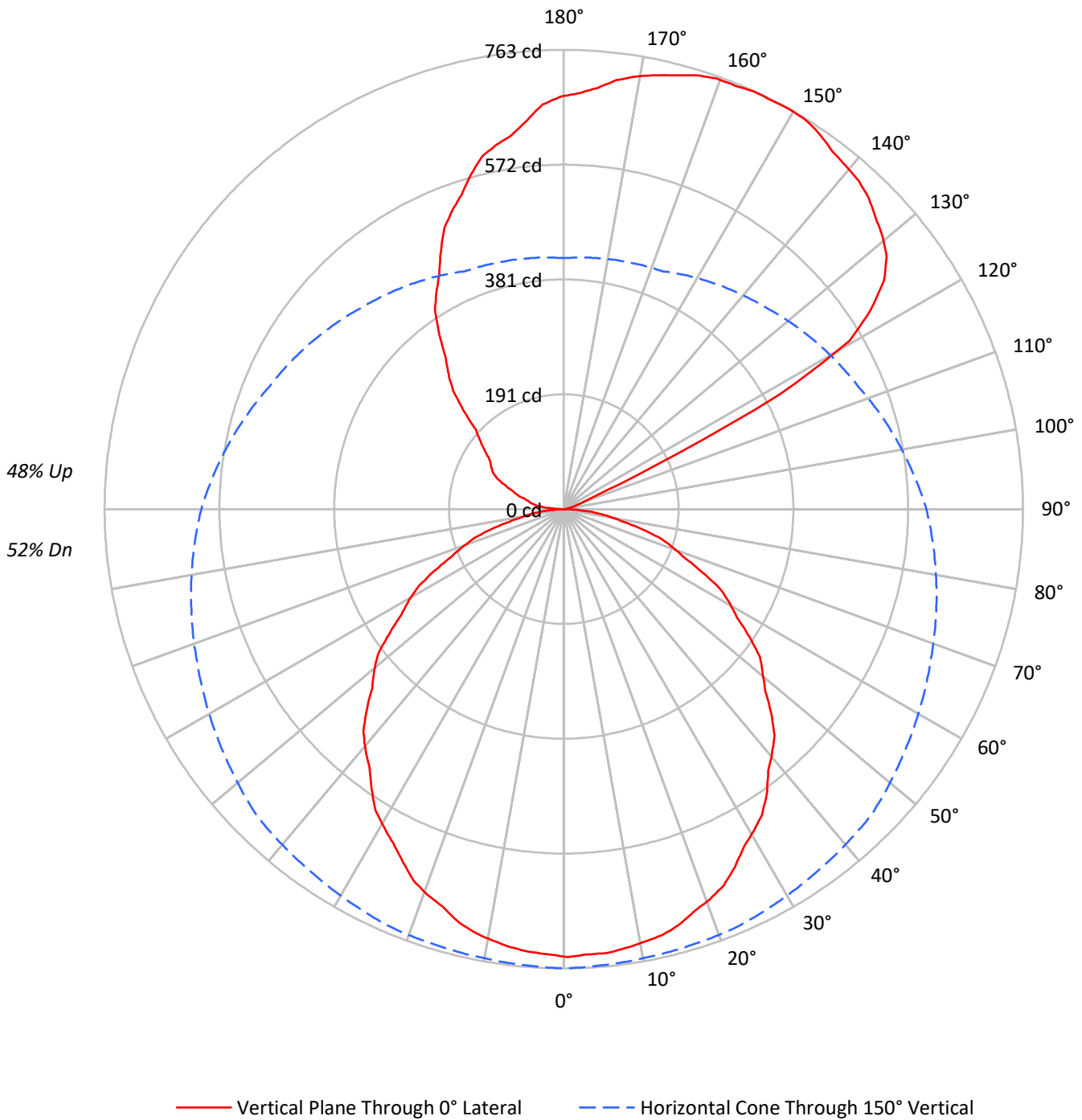
Lumens per Lamp: N/A
Luminaire Lumens: 3986.0 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 35.4
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				
RC	80					70					50					30				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	108	108	108	108	100	100	100	100	84	84	84	71	71	71	58	58	58	52		
1	98	94	90	86	91	87	83	80	74	71	69	62	60	59	51	50	49	44		
2	89	82	75	70	82	76	70	66	65	61	57	54	51	49	45	43	41	36		
3	81	72	64	58	75	67	60	55	57	52	48	48	44	41	40	37	35	31		
4	74	63	55	49	68	59	52	46	50	45	41	43	38	35	35	32	30	26		
5	68	56	48	42	63	52	45	40	45	39	35	38	34	30	32	28	26	23		
6	63	51	42	36	58	47	40	34	41	35	30	34	30	26	29	25	23	20		
7	58	46	37	32	53	43	35	30	37	31	27	31	27	23	26	23	20	17		
8	54	41	33	28	50	39	32	27	33	28	24	29	24	21	24	21	18	16		
9	50	38	30	25	46	35	28	24	31	25	21	26	22	19	22	19	16	14		
10	47	35	27	22	43	32	26	21	28	23	19	24	20	17	21	17	15	13		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	12009	12009	12009
5°	12003	12125	11951
10°	11986	12108	11899
15°	11972	12043	11813
20°	11887	11978	11668
25°	11738	11852	11475
30°	11572	11731	11315
35°	11440	11586	11105
40°	11228	11428	10914
45°	11024	11266	10661
50°	10741	11060	10394
55°	10514	10812	10007
60°	10211	10588	9629
65°	9647	10136	9081
70°	9116	9668	8464
75°	8409	8871	7742
80°	7299	7792	6509
85°	5502	6095	4909



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.4	1.8
10°-20°	201.1	5.0
20°-30°	302.5	7.6
30°-40°	361.2	9.1
40°-50°	371.5	9.3
50°-60°	334.2	8.4
60°-70°	252.8	6.3
70°-80°	143.7	3.6
80°-90°	38.0	1.0
90°-100°	18.0	0.5
100°-110°	77.9	2.0
110°-120°	222.3	5.6
120°-130°	337.9	8.5
130°-140°	365.5	9.2
140°-150°	349.2	8.8
150°-160°	287.2	7.2
160°-170°	187.7	4.7
170°-180°	64.9	1.6
0°-30°	573.9	14.4
0°-40°	935.1	23.5
0°-60°	1640.8	41.2
0°-90°	2075.3	52.1
90°-120°	318.2	8.0
90°-150°	1370.8	34.4
90°-180°	1911.0	47.9
0°-180°	3986.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	744	744	744	744	744	
5°	741	741	748	741	737	70
15°	716	717	720	712	707	202
25°	659	665	665	656	644	303
35°	580	587	588	575	563	362
45°	483	489	493	478	467	372
55°	374	381	384	369	356	334
65°	252	260	265	249	238	251
75°	135	139	142	132	124	142
85°	30	34	33	30	26	35
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°	743.8	743.8	743.8	743.8	743.8	743.8	743.8	743.8	743.8
2.5°	740.4	742.9	743.0	742.3	748.9	742.3	743.8	742.1	739.6
5°	740.6	740.6	740.6	739.8	748.1	738.7	740.6	737.4	737.4
7.5°	736.2	736.4	737.2	734.5	743.6	733.2	735.1	731.7	732.6
10°	731.1	732.1	732.1	730.2	738.5	728.1	730.0	725.8	725.8
12.5°	726.0	726.2	727.0	724.3	732.6	721.4	723.2	719.0	718.1
15°	716.2	716.2	717.3	713.2	720.5	710.1	712.0	706.7	706.7
17.5°	702.0	701.8	704.3	699.0	706.5	694.8	698.6	692.0	690.1
20°	691.8	690.8	695.0	688.8	697.1	684.7	687.6	680.1	679.1
22.5°	679.1	678.0	684.0	677.8	685.2	672.8	675.7	665.7	665.5
25°	658.9	657.9	665.3	659.1	665.3	653.9	655.7	645.1	644.1
27.5°	636.0	636.0	644.7	637.4	644.5	633.1	633.9	623.1	623.1
30°	620.7	620.7	630.3	623.0	629.2	617.8	618.6	606.9	606.9
32.5°	604.6	604.6	612.5	606.9	613.1	601.7	601.6	590.0	590.0
35°	580.4	578.3	586.8	581.6	587.8	576.4	575.1	563.4	563.4
37.5°	551.3	550.3	559.6	555.9	560.9	549.7	546.7	535.4	536.5
40°	532.7	531.6	540.1	538.1	542.2	531.8	526.3	516.8	517.8
42.5°	513.1	511.3	519.7	518.5	522.7	512.3	507.6	497.2	497.4
45°	482.8	482.8	489.2	489.2	493.4	482.0	477.5	466.9	466.9
47.5°	450.5	450.7	457.3	457.6	461.6	451.6	446.7	435.2	435.0
50°	427.6	428.6	436.1	437.2	440.3	432.0	425.5	414.9	413.8
52.5°	408.1	406.6	414.0	416.0	418.3	410.0	403.4	392.8	391.7
55°	373.5	374.5	380.9	384.1	384.1	376.8	369.3	358.6	355.5
57.5°	339.1	340.6	345.7	349.8	350.8	342.7	334.9	325.2	321.1
60°	316.2	315.2	323.6	326.8	327.9	320.6	312.0	302.3	298.2
62.5°	291.6	292.2	298.2	303.1	304.1	296.0	288.2	276.0	272.7
65°	252.5	255.6	260.0	263.2	265.3	259.0	249.4	239.8	237.7
67.5°	216.9	219.0	223.2	228.2	229.4	222.3	213.7	205.4	203.1
70°	193.1	195.2	199.5	202.7	204.8	198.6	189.9	182.4	179.3
72.5°	169.3	171.4	174.9	178.1	180.2	173.9	166.2	159.5	157.3
75°	134.8	136.8	139.0	141.1	142.2	138.0	131.6	125.2	124.1
77.5°	100.6	102.7	105.0	107.8	106.7	103.8	97.6	93.3	92.1
80°	78.5	80.6	83.8	84.9	83.8	81.7	76.4	72.1	70.0
82.5°	58.1	60.2	63.5	63.6	61.8	61.3	56.9	53.4	52.2
85°	29.7	31.8	34.0	35.0	32.9	32.9	29.7	26.5	26.5
87.5°	5.9	7.6	10.2	12.7	10.2	11.0	8.5	5.9	5.9
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)