

Vectorwo	orks	File	Edit	View	Modify	Model	Spotligh	t Tools	Text	Event Planning	Window	Help	_
Tool Sets		Nev	N			ЖN	(	Copenhage	en_Set_v2	2013_v2014.vwx -	- EDUCATION	VAL VERSIC	N - WA
st Insertion	Non	Оре	en			жо	t		:)	Screen Plane	;)	🖆 🗧 )	R 8
ghting Pipe	ZI	Ope	en Rec	ent			ctangular Ma	rquee Mode					-
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aight Truss		Sav	e			жs							
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ght Position Ol	tt	Sav	e As Te	emplate									
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		Doo	cument	t Settin	as	•	Docu	ment Pref	ferences				
ign and Distr.					<b>5</b> -		Spotl	ight Prefe	rences	Setup universe	e and automat	ic import and	1
nging		Imp	oort			•		-		export option	s.	5'-0"	_
strument Su	•	Exp	ort			•	Units						
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toGrid		Pag	e Setu	p		∖сжР							
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vision	-	Shape	Data	Render									

• Now to sync with Lightwrite



Preferences

- Check box "Use automatic Lightwrite Data Exchange"
- Check box "perform a complete export on exit"
- VW will save an .XML file in the same location as your plot



☑ Use automatic Vectorworks Data Exchange	Reconcile whenever LW receives a full export
Choose Vectorworks .xml file Help	Enclose VW channels in parentheses
Macintosh HD:Users:gkindred:Dropbox:Pace Translations:Lighting:Plot:Translations, PLOT, Loadin xml	Dimmer Format: Dimmer [i.e. 642] \$
	Note: Data Exchange does NOT use the VW Universe field
CAUTION: If you are using VW 2009, or a version of VW 2010 older than IN VECTORWORKS. This will cause Data Exchange to become corrupted. versions of Vectorworks.	VW 2010 Service Pack 1, DO NOT COPY AND PASTE LIGHTING DEVICES Using Edit/Duplicate, Mirror, and Option/Alt+dragging are OK in all

Spotlight Instrument Field	Lightwright Worksheet Columns	Data type (if changeable)	
Label Legend		V	
Inst Type	Instrument Type	<ul> <li>(Cannot be reassigned)</li> </ul>	
Unit Number	Unit#	<ul> <li>(Cannot be reassigned)</li> </ul>	
Gobo 2		V	
Gobo 1	Gobo	T	
Color	Color	T	
Circuit Name	Circuit Name	T	
Circuit Number	Circuit#	T	
Dimmer	Dimmer	V	
Channel	Channel	T	1
Position	Position	T	
Wattage	Wattage	T	
Purpose	Purpose	T	
User Field 1		T	

This feature requires Vectorworks 2009 or later.

For each Spotlight field, choose the Lightwright column you want it to automatically share data with.

In lightwrite click the • VW logo in the top toolbar

- This will open the data • exchange window
- Check box "Use automatic Vectorworks Data Exchange"
- Check box "Reconcile whenever LW receives a full export"
- Click use defaults
- When you click OK it  $\bullet$ will generate your LW

Save as Default

Use Defaults

Cancel

OK

ble

L	.ightwrigh	t 5	File	Edit	Worksheet	Utilities	Maintenance	Setup	Winde	ow	Help			_	-	_	
	000						Purpose			.3_v2	2014.vv	wx - EC	DUC/	ATION/	AL V	ERSION -	- WATERMARKE
	; ⇒ ∘≈≋ (						Position									TransLW_	4_2.lw5
	10 1 11	$\rho$	All	Pos	Ch Dm	Ckt C#	Accessory	ype		Pur	Ckt	List	:	Lib	G	o Back	
4	÷'-0"	S	F	L – Boo	kmark1	S F2 -	Color			okmark3 S			F4 - Bo	F4 - Bookmark4 🏾 🎾			
٩			,	View:		ALL	Gobo Gobo Size								) (	Show W	orknotes
			Sorte	d by:	Po	osition	Circuit Name Color Frame	2							(	Append	STRIFUTES
17		•►	Positio	n		Unit#	Focus Cuts						W	attage		Purpose	
			1 PIPE			0 1	Focus L/R					6	2	100w	0	HOUSE	
	1	•	1 PIPE			2	Focus Note					6	3	100w	0	HOUSE	
:		•	1 PIPE			Q 3	Focus U/D					6	3	100w	0	HOUSE	
Т. Ю	10'-0"		2 PIPE				Scenery					6	3	100w	0	HOUSE	
E			2 PIPE			0 3	User 1					6	2	100w	0	HOUSE	
	]		3 PIPE			0 1	User 10					6	3	25w	0	OUTSIDE C	OLOR

Now that your data is imported:

- Click Maintenance
- Click Position

00	List Maintenance: Tra	ansLW_4_2.lw5	
<b>(</b>	Note		
Position		Note	
1 PIPE			
2 PIPE			
3 PIPE			
4 PIPE			
5 PIPE			
6 PIPE			
7 PIPE			
8 PIPE			
9 PIPE			•
10 PIPE			
11 PIPE			
US ADDED			
ADDED L			
ADDED R			
A PIPE			
B PIPE			
C PIPE			
D PIPE			
E PIPE			
F PIPE			
1 BOOM L			
2 BOOM L			
3 BOOM L			
1 BOOM R			
US GROUND ROW			
DS GROUNDROW			
Drag the left edge of rows to chang	e their order		
Always Capitalized	Remove	Remove Unused	Att List Add
Keep Alphabetized	Alphabetize	Print	Close

In Position Maintenance

- Ensure all your positions are present and spelled correctly
- Organize your positions by dragging:
  - FOH, Overstage, Booms, Set Electrics

0	O List	Mainten	ance: Tr	ansl	LW_4_2.1	w5	A state of the second second			
6	J 💿 🖲 Î 🛛 🐮 ?	Note	Physic	al	Vectorw	vorks				
ŧ	Instrument Type	Stock Qty	Watts	۵	Frame Label	per ckt	Gobo Size 🕑	DMX Qty	Weight (lbs)	Attrib
8	50 DEG S4 LED				۲	1	<b>€</b>			
8	HOUSE LIGHT				•	1	<b>▼</b> €			
8	COLORFORCE 12				•	1	▼ 🕑			
8	S4 PAR MFL				•	1	▼ 🕞			
U	ROBE SPOT				•	1	• €			
U	ROBE FLOOD				•	1	<b>▼</b> (6)			
8	6" FRESNEL				•	1	•			
8	50 DEG S4 JR				v	1	▼ 🕞			
8	36 DEG S4 JR				•	1	• 🕞			

In Instrument Type Maintenance

- Ensure all your Instruments are present and spelled correctly
- Here you can add stock qty, apply wattage to all units.

The same in color and gobo Maintenance

 Ensure all your info is present and spelled correctly

Э	0			List Maintena	and
	6			Note	
	ŧ	Colo	or		
		NC			
		🔿 R11	9		
		C L20	2+R119		
		🔿 L00	3+R119		
		C L20	2		
		110			
		CLR			
		RBG	A		
		RBG	AW		

•	0 0								
	All Pos	Ch Dm Ckt C#	Az↓ Pos Ch	Now to error check					
S	F1 - Boo	kmark1 S F2 -	Bookmark2 S						
	Manu	A11	Hold						
	view:	ALL		<ul> <li>Click Position</li> </ul>					
	Sorted by:	√ ALL Global		<ul> <li>This will bring up the position choose list</li> </ul>					
•►	Position	Position	trument Type	Click your first position					
	1 PIPE	Purpose	USE LIGHT	This opposition					
•	1 PIPE	Channel	USE LIGHT	• This opens just that					
	1 PIPE	Dimmer	USE LIGHT	position					
•	2 PIPE	Instrument Type	USE LIGHT						
	2 PIPE	Wattage	USE LIGHT						
•	2 PIPE	Accessory	USE LIGHT						
	3 PIPE	Color	LORFORCE 12						
•	3 PIPE	Coho	LORFORCE 12						
0	3 PIPE	Cobo	LORFORCE 12	Position Choose List					
•	4 PIPE	Gobo Size	PAR MFL	Q Q					
•	4 PIPE	Circuit Name	PAR MFL	Choose one or more names from the list or enter a new one here:					
•	4 PIPE	Circuit#	RESNEL						
	4 PIPE		PAR MFL						
	4 PIPE	Marked	RESNEL	Cnoose All Maintenance Cancel OK					
				1 PIPE       10 PIPE       E PIPE         2 PIPE       11 PIPE       F PIPE         3 PIPE       US ADDED       1 BOOM L         4 PIPE       ADDED L       2 BOOM L         5 PIPE       ADDED R       3 BOOM L         6 PIPE       A PIPE       1 BOOM R         7 PIPE       B PIPE       US GROUND ROW         8 PIPE       C PIPE       D S GROUNDROW         9 PIPE       D PIPE					

•	0									TransL	N_4_2.1	w5			and the second second second			
$\rho$	All Pos	Ch	Dm	Ckt	C#	Az↓ Po	os Ch	Dm	Pur	Ckt	List	Lib	Go Bac	k				/ 🙆 🕇
S	F1 – Book	mark1	S	F2	2 – Book	mark2	S	F3 – B	lookma	ark3	S	F4 - B	okmark4		2			
	View:		Pos	ition		, Hold:	5											
			8 0	DIDE		5								w Works	notor			
			01			_ Ľ								W WORKI	notes			
	Sorted by:		Pos	ition		,							🗌 Арр	pend				
•► F	osition	U	nit#	Instrum	nent Type	<u>:</u>		Wattage	Pu	rpose			Color			Gobo	Channel	Dim
• 8	3 PIPE	0	1	S4 PAR	MFL		0	575w	©  F/	L – COOL			L202+R	R119		0	(7)	0
• 8	8 PIPE	0	2	50 DEG	S4 JR		0	575w	O DS	BAX			L202+R	R119		0	(41)	3
. 8	B PIPE	0	3	36 DEC	S4 JR		0	575w	💮 WI	NDOW SPEC	2		L003+R	R119		0	(105)	2
• 8	8 PIPE	0	5	S4 PAR	MFL		0	575w	@ F/	L - COOL			L202+R	R119		0	(8)	0
. 8	B PIPE	0	5	36 DEG	S4 JR		0	575w	© WI	NDOW SPEC	2		L003+R	R119		0	(106)	2
• 8	B PIPE	0	6	50 DEG	S4 JR		0	575w	O DS	BAX			L202+R	R119		0	(42)	0
. 8	B PIPE	0	7	6" FRES	NEL		0	500w	© F/	L – WARM			NC			0	(17)	5
• 8	8 PIPE	0	8	S4 PAR	MFL		0	575w	@ F/	L - COOL			L202+R	R119		0	(9)	0
. 8	B PIPE	0	9	6" FRES	NEL		0	500w	© F/	L – WARM			INC			0	(18)	5
• 8	B PIPE	0	10	50 DEG	S4 JR		0	575w	O DS	BAX			L202+R	R119		0	(43)	3
• 8	3 PIPE	0	11	6" FRES	NEL		0	500w	© F/	L – WARM			NC			0	(19)	9
<u>.</u>																	 	
	WORKSHEET	FOCL	IS LAY	YOUT							Irregu	lar numl	pering at	# 5			11 items	

Now search for errors at each position (purpose, color, gobo, ch#, unit#:

- If your unit numbers are off it will alert you
- Click the 'N' in the top right corner (red circle) and it will go to the next hanging position
- Step through all your positions this way looking for errors

0	00						Trans	_W_4_2.lv	v5	and the second second			
	All Pos	Ch	Dm Ckt	C#	Az↓ Pos Cł	n Dm Pu	r Ckt	List	Lib	Go Back			🙆 🕇
S	F1 - Bo	okmark1	S	F2 – Bo	okmark2 S	F3 – Bookm	nark3	S	F4 - Bo	okmark4	25		
	View		ALL		Hold: 5								i i
					5				()	Show Wo	rknotes		
	Sorted by:		Channel		▼ F/L - COOL					Append			
•>	Channel	Position	U	nit#	Instrument Type	٧	Vattage	Accessor	у	Purpose	Color	Gobo	Dim
	(1) ③	4 PIPE	0	1	S4 PAR MFL	0	575w 😳			F/L - COOL	C L202+R119	0	
•	(2) 📿	4 PIPE	0	2	S4 PAR MFL	0	575w 🕐			F/L - COOL	L202+R119	0	
0	(3) 😳	4 PIPE	0	4	S4 PAR MFL	0	575w 💮			F/L – COOL	L202+R119	$\bigcirc$	
•	(4) 📿	6 PIPE	0	1	S4 PAR MFL	0	575w 🕑	R Constantin		F/L - COOL	L202+R119	0	
0	(5) 💮	6 PIPE	0	2	S4 PAR MFL	0	575w			F/L – COOL	L202+R119	$\bigcirc$	
	(6) 📿	6 PIPE	0	4	S4 PAR MFL	0	575w 🕑			F/L - COOL	L202+R119	0	
0	(7) 💮	8 PIPE	0	1	S4 PAR MFL	0	575w 🔅			F/L – COOL	L202+R119	$\bigcirc$	
	(8) 📿	8 PIPE	0	5	S4 PAR MFL	0	575w 🕑		10000	F/L - COOL	L202+R119	0	
0	(9) 😳	8 PIPE	0	8	S4 PAR MFL	0	575w 💮			F/L – COOL	L202+R119	$\bigcirc$	
•	(11) 💮	4 PIPE	0	3	6" FRESNEL	0	500w 🕑			F/L – WARM	NC	0	

Now set View to "ALL" and Sort by" "Channel"

- Look through the cannel list and ensure you channels and purposes are correct
- Check systems (groups of channels that work together) all have the correct color/ gobo
- LW is a powerful tool. Explore all the options in view and sort

Works	sheet	Utilities	Maintenance	Setup	Wir
	:	Workno Add Wo	otes orknote	第K て第K	
Ch	Dm	Limits		•	Dm
ark1	Chi	Countin Live Co Error C Loads & Reports	ng ount Window hecking & Channels Rep s	₹₩C	Boo
sition		Rearran	nge Hookup		
PIPE		Auto D	immer Assignin	ıg	
PIPE		Free Sp	ace Window		
PIPE					

TransLW_4_2.lw5
LOADS & CHANNELS IN SYSTEM A
Load Range Qty Channels
Lights 1.2kw or less 72 (1-9), (11-19), (21-26), (31-38), (41-43), (51-55), (61-65), (71-74), (81-84), (91-96), (101), (103-106), (108-110), (200-204)
Total: 72 channels
The smallest single load is 25 watts.
The largest single load is 575 watts.

LW can check for dimmer usage and any load issues

- Click Utilities
- Click Loads & Channels Report
- This will bring up the Loads & Channels report
- Here you can see how many chanels you are using and the amont of wattage each use
- This is good for dimmer counting, but
   be aware LEDs/ML will
   count on this report
   but do not need
   dimmers

	Utilities	Maintenance	Setup	Wind	dow	Help			
	Workno Add Wo	otes orknote	жк ⊼ж√			Hanging TransL	Position	ns.p Iw5	
I	Limits		•	Dm	Pur	Ckt	List	L	
4	Countin Live Co Error C Loads &	ng ount Window hecking & Channels Rep	⊂#C	Current Worksheet Instrument Type Accessory Color					
	Rearran Auto D Free Sp	s nge Hookup immer Assignir bace Window	ıg		Wa	ttage 575w (2) 575w (2) 575w (2)	Accesso	ory	
1	6 I	34 FAR MIL			0	575w 💮			
				COLOR Sheets 7 s	COUNT s of C	Color s of	R119		
			-	3 s 13 T	heets	of	L202		

LW can also count various entities

• Click Utilities

. . . . .

- Click Counting
- A drop down menu comes up
- Here you can generate repots on color, instruments, and gobos

Uti	ilities	Maintenance	Setup Window Help		
			Dimming & Control Dimmer Format	lunk — Gmail (6	messages)
Ckt	t C#	Az↓ Pos	Footnotes	ib Go Back	
S	F2 -	Bookmark2	Color Scrolls	4 - Bookmark4	25
ALL			Wheels		
		5	Marks	🔹 📄 Show Wor	rknotes
anne	el		Show Title & Page Header	Append	
	Unit#	Instrument Ty	People & Network	Purpose	Color
0	1	S4 PAR MFL	Vocabulary	F/L - COOL	L202+R1
0	2	S4 PAR MFL	Column Names & Definitions	F/L - COOL	L202+R1
0	4	S4 PAR MFL	Focus Charts	F/L - COOL	L202+R1
0	1	S4 PAR MFL	Flag Colors	F/L - COOL	L202+R1
0	2	S4 PAR MFL	EKovs	F/L - COOL	L202+R1
0	4	S4 PAR MFL	rkeys	F/L - COOL	L202+R1
0	1	S4 PAR MFL	Sorting	F/L - COOL	L202+R1
0	5	S4 PAR MFL	Bohuild All Corts	F/L - COOL	L202+R1
0	8	S4 PAR MFL	Rebuild All Solts	F/L - COOL	L202+R1
0	3	6" FRESNEL		F/L - WARM	NC
0	5	6" FRESNEL		F/L – WARM	O NC

Now to set up your Title

- Click setup
- Click Show Title & Page
  Header
- This will bring up the Show title window
- Enter the info like the example below
- Be sure to include you're phone number

● ○ ○ Show Title	e & Page Header: TransLW_4_2.lw5
Show Title:	
TRANSLATIONS	
Information for Long Headers:	
Pace Univeristy	Schaberle Studio Theater, NY
LD: Graham Kindred	ME: Romo Hallahan
646-221-7346	
Show File note: LW5 fr	om Windows

•	(15) 🕐	6 PIPE	5	6" FRESNEL					
•	(16) 💮	6 PIPE	7	6" FRESNEL					
•	(17) 💮	8 PIPE	7	6" FRESNEL					
	(18) 💮	8 PIPE	9	6" FRESNEL					
•	(19) 💮	8 PIPE 💮	11	6" FRESNEL					
•	(21) 💮	F PIPE 💮	1	50 DEG S4 JR					
•	(22) 💮	F PIPE 💮	2	50 DEG S4 JR					
•	(23) 💮	F PIPE 💮	3	50 DEG S4 JR					
•	(24) 🕥	ADDED R 💮	1	50 DEG S4 JR					
•	(25) 💮	ADDED R 💮	2	50 DEG S4 JR					
•	(26) 🕥	A PIPE 💮	1	50 DEG S4 JR					
•	(31) 💮	5 PIPE 💮	1	COLORFORCE 12					
•	(32) 🕥	5 PIPE 💮	2	COLORFORCE 12					
	(33) 💮	5 PIPE	3	COLORFORCE 12					
•	(34) 💮	5 PIPE	4	COLORFORCE 12					
	(35) 💮	7 PIPE 💮	1	COLORFORCE 12					
•	(36) 💮	7 PIPE 💮	2	COLORFORCE 12					
	(37) 💮	7 PIPE	3	COLORFORCE 12					
	WORKSHEET FOCUS LAYOUT								

Layout in LW is very important

- Click LAYOUT at the bottom of the window
- This will open a window that shows how the paper work will print

000		Default LW5 Layouts.lwl	
< <>	Custom column widths	Layout is in show file	Zoom Out
Show column-edge guidelines	Show margin guidelines		

Trans la TIONS			45	СНА	NNEL HOOKUP		Page 1 of 1 4/7/15
Pace Unive LD: Graha 646-221-	eristy am Kii 7346	ndred				Schaberle Studio ME: Ro	Theater, NY mo Hallahan
Channel	Dm	Position	U#	Purpose	Inst Type & Access & Watt	Color	Gobo
(1)		4 PIPE	1	F/L - COOL	S4 PAR MFL 575w	OL202+R119	

In the Layout tab you can:

- Drag and position the information in the header
- Add show logos (next slide)
- Organize the paperwork columns as needed

lities	Maintenance	Setup	Paperwork	Attribs	Layout	Window	Help			-	
	Custom c	olumn wi	De dths	anging Posi fault LW5 L Layout is in	Margin Option Tempo Clone	ns 1s orary Settir 	ıgs			Zoom O	Jut
5	v Show marg	gin guide	lines		Show Paper Show Page# Date Time	Title work Title Filename				C.	
					Picture			Cu	urrent Layout Picture	1 of 1	
·1ā,	TIONS		СПА		Body ( Focus Focus	Columns Chart Obje Cover Page	ects e Graphic	√ Ci Ne	ew Show Picture	7/15	
/ indre 6	d				Dotted Thin V Thick Extra	d Vertical L /ertical Line Vertical Lir Space	ine e ne	S:hab	erle Studio Thea ME: Romo H	iter, NY allahan	
Pos	ition	U# Pu	rnose	Inst	AND Co	naina	A. W. 187	Colo	r Go	bo	

In the Layout tab :

- Click Layout, Hover over Picture
- Click "New Show Picture"
- Navigate to the show logo, you can resize as needed

000	Print F	aperwork						
Layout:	31							
Watermark:	I	None			•	SETUP		
Limit:	First Page#							
Check the paperwork you want printed, and how many copies of each:								
Paperwork Title		Complete	Partial	Blank	Qty	Attributes		
Worksheet		1			0	Normal		
Marks Listing		٧	¥	1	0	Normal		
Channel Hookup		<b>·</b>	¥	1	1	Normal		
Dimmer Hookup		<i>b</i> /	1	1	0	Normal		
Instrument Schedu	le	1	1	1	1	Normal		
Circuit Name Hook	up	<i>b</i> /	1	1	0	Normal		
Circuit# Hookup		*	1	1	0	Normal		
System Hookup		<i>b</i> /			0			
Color Schedule		*	1	1	0	Normal		
Gobo Schedule		b*	¥	1	0	Normal		
Gobo Size Schedul	e	▶∕	1	1	0	Normal		
User 1 Schedule		<b>b</b> ⁄	¥	1	0	Normal		
Lines O. Coloradula		1.4		1.1	0	Mannal		
Print in Color		No Table o	f Contents					
Highlight Changes		No Focus C	over Page					
Print Only Items With Changes No Footnotes on Each Page								
Print Related Worknotes     No Footnote Summary Pages								
Color swatches are dr	awn only when printing in color!	Clea	r All		Cancel	ОК		

Ready to print

- Click File, Print
- This will open print paperwork window
- Select Channel Hookup
- Select Instrument Schedule
- These are the two
  most common
- Explore other LW paperwork and think how they could help you or a ME to get your show up.