



Linear T6 Fluorescent System

NIPPO
seamlessline®

The unique design qualities of T6
Fluorescent allows for smooth
and continuous illumination
while
eliminating socket shadows, and is
ideal for direct or indirect lighting.

www.nippo-web.com / us



Fixture



UL Listed for dry location
Through-wire installation

model number
SAL-UW 1000 A M
1 2 3

1 LENGTH

- * 500 = 503mm (19 13/16")
- 850 = 853mm (33 9/16")
- 1000 = 1003mm (39 1/2")
- 1250 = 1253mm (49 5/16")
- 1500 = 1503mm (59 3/16")

2 VOLTAGE

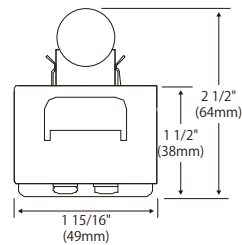
- A = 120 V
- C = 277 V

3 DIMMING

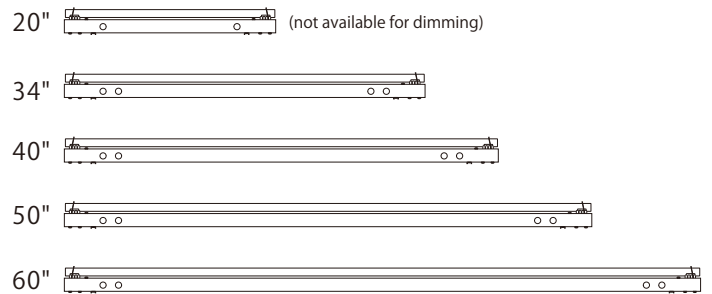
- M = dimming
- blank = non dimming

* 500 not dimmable

Section



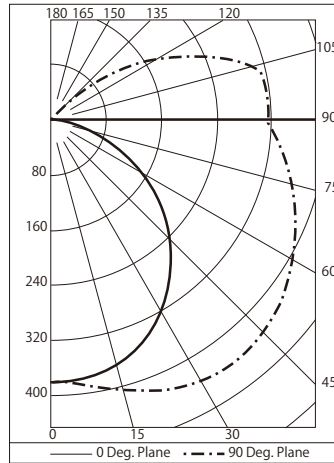
nominal length



	voltage	catalog no.	O.A.length	Input current (A)	Input wattage (W)	Weight (lb)	Lamp wattage (W)	Lumen (lm) *
	120	<input type="checkbox"/> SAL-UW850AM	33 9/16" (853mm)	0.32	35	2.3	27	2240
		<input type="checkbox"/> SAL-UW1000AM	39 1/2" (1003mm)	0.36	40	2.4	31	2630
		<input type="checkbox"/> SAL-UW1250AM	49 5/16" (1253mm)	0.40	46	2.7	38	3350
		<input type="checkbox"/> SAL-UW1500AM	59 3/16" (1503mm)	0.47	54	2.9	45	3970
dimming	277	<input type="checkbox"/> SAL-UW850CM	33 9/16" (853mm)	0.18	35	2.3	27	2240
		<input type="checkbox"/> SAL-UW1000CM	39 1/2" (1003mm)	0.20	40	2.4	31	2630
		<input type="checkbox"/> SAL-UW1250CM	49 5/16" (1253mm)	0.22	46	2.7	38	3350
		<input type="checkbox"/> SAL-UW1500CM	59 3/16" (1503mm)	0.24	54	2.9	45	3970
non dimming	120	<input type="checkbox"/> SAL-UW500A	19 3/16" (503mm)	0.19	22	2.6	17	1350
		<input type="checkbox"/> SAL-UW850A	33 9/16" (853mm)	0.26	31	3.0	27	2240
		<input type="checkbox"/> SAL-UW1000A	39 1/2" (1003mm)	0.32	38	3.2	30	2630
		<input type="checkbox"/> SAL-UW1250A	49 5/16" (1253mm)	0.38	45	3.4	39	3350
		<input type="checkbox"/> SAL-UW1500A	59 3/16" (1503mm)	0.44	52	3.7	46	3970
	277	<input type="checkbox"/> SAL-UW500C	19 3/16" (503mm)	0.08	22	2.6	17	1350
		<input type="checkbox"/> SAL-UW850C	33 9/16" (853mm)	0.12	33	3.0	27	2240
		<input type="checkbox"/> SAL-UW1000C	39 1/2" (1003mm)	0.14	38	3.2	30	2630
		<input type="checkbox"/> SAL-UW1250C	49 5/16" (1253mm)	0.17	47	3.4	39	3350
		<input type="checkbox"/> SAL-UW1500C	59 3/16" (1503mm)	0.19	52	3.7	46	3970

*4200, 3500, 3000, 2800K, 2500K

PHOTOMETRY



Tested by
LUMINARE TESTING LABORATORY, INC.
Test Report #07915 Dated 02-05-2004
Fixture: SAL-UW1000A

ZONAL CAVITY COEFFICIENTS EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

CEILING	80				70				50		
	WALL RCR	70	50	30	10	70	50	30	10	50	30
0	108	108	108	108	103	103	103	103	93	93	93
1	95	89	84	80	90	85	80	76	77	73	70
2	85	76	68	62	80	72	65	60	65	60	55
3	77	66	57	51	73	63	55	49	57	50	45
4	70	58	49	42	66	55	47	40	50	43	38
5	64	50	41	35	60	48	40	33	44	37	31
6	58	45	36	29	55	43	34	28	39	32	26
7	53	40	31	25	50	38	30	24	35	28	23
8	49	36	27	22	46	34	26	21	31	24	19
9	45	32	24	18	43	31	23	18	28	21	17
10	42	29	21	16	40	28	21	16	25	19	15

CANDLE DISTRIBUTION

VERT. ANG.	HORIZONTAL ANGLE			FLUX
	0.0	45.0	90.0	
0	381	381	381	
5	380	383	383	37
15	366	390	407	110
25	338	391	429	179
35	296	384	440	236
45	243	364	435	272
55	182	335	418	285
65	118	299	391	277
75	57	260	361	253
85	13	223	329	220
90	3	209	316	
95	3	209	314	203
105	2	178	302	172
115	2	110	219	106
125	2	44	132	50
135	2	0	48	12
145	0	0	0	0
155	0	0	0	0
165	0	0	0	0
175	0	0	0	0
180	0	0	0	0

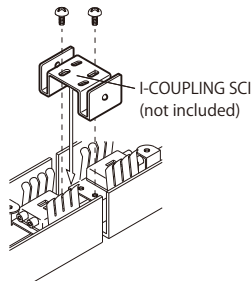
LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXTURE
0-30	326	12.8	13.5
0-40	562	22.0	23.3
0-60	1120	43.9	46.4
0-90	1870	73.3	77.5
90-120	481	18.8	19.9
90-130	530	20.8	22.0
90-150	542	21.3	22.5
90-180	542	21.3	22.5
0-180	2412	94.6	100.0

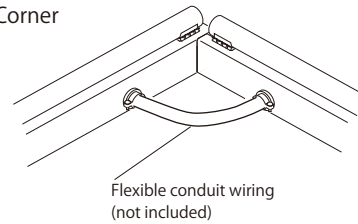
TOTAL LUMINAIRE
EFFICIENCY: 94.6%
CIE TYPE: SEMI-DIRECT
PLANE: 0-DEG 90-DEG
SPACING CRITERIA: 1.2 1.7

ADJOINING DETAIL

Straight

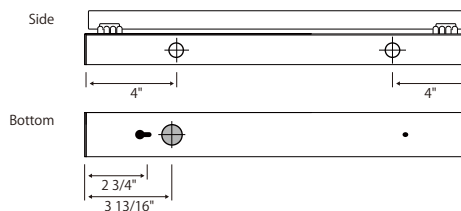


Corner



MOUNTING LOCATIONS

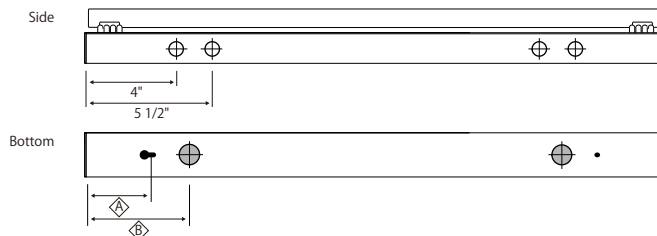
20" Fixture



- ⊕ 7/8" K.O. (accepts 1/2" fitting)
- ⊕ 5/8" K.O. (accepts 3/8" fitting)
- 3/8" x 3/16" Mounting Hole
- 3/16" Mounting Hole

34", 40", 50", 60" Fixture

Fixture Length	Mounting Hole 1	Mounting Hole 2	Mounting Hole 3
34"	3"	4 9/16"	
40"	5 15/16"	7 9/16"	
50"	8 15/16"	10 1/2"	
60"	13 13/16"	15 7/16"	



Products

Lamp



model number
FRT 1000 EN
1 2

1 LENGTH

- 500 = 495mm (19 1/2")
- 850 = 845mm (33 1/4")
- 1000 = 995mm (39 3/16")
- 1250 = 1245mm (49")
- 1500 = 1495mm (58 7/8")

2 COLOR TEMPERATURE

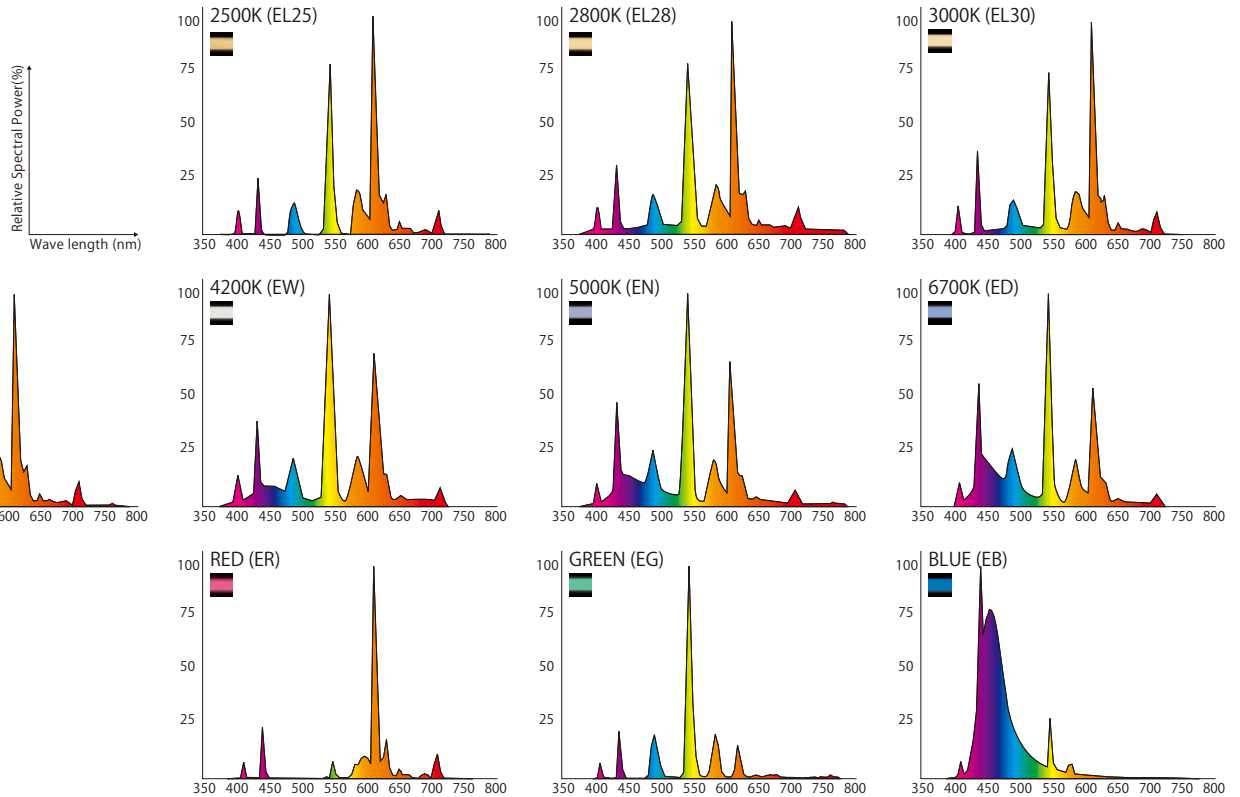
- EL25 = 2500K
- EL28 = 2800K
- EL30 = 3000K
- EW = 3500K
- EW = 4200K
- EN = 5000K
- ED = 6700K
- ER = red
- EG = green
- EB = blue

CRI : 88

Average rated life : 25,000 hours

COLOR TEMPERATURE

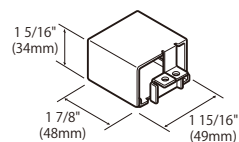
- EL25 = 2500K
- EL28 = 2800K
- EL30 = 3000K
- EW = 3500K
- EW = 4200K
- EN = 5000K
- ED = 6700K



- ER = red
- EG = green
- EB = blue

ACCESSORIES

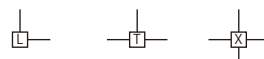
POWER FEED BOX SF



I-COUPLING SCI



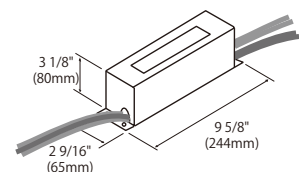
L-COUPLING SCL T-COUPLING SCT X-COUPLING SCX



DC to PWM Converter Unit

This unit can operate up to 20 fixtures by one unit with 0-10Vdc signal from Dimming control unit.

- UFDA-035AP 120volts,90mA
- UFDC-035AP 277volts,40mA



Phone 704-547-6500

www.NIPPO-web.com/us

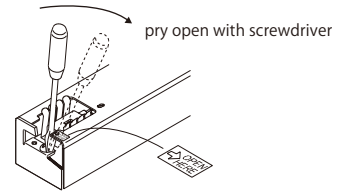
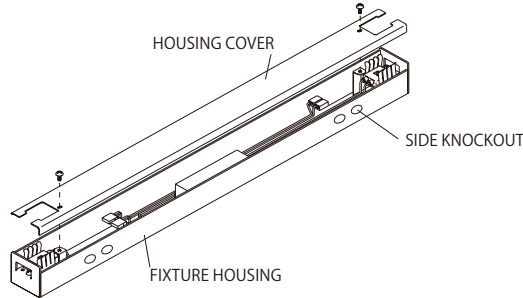
Verbatim Americas, LLC 1200 West W.T. Harris Blvd Charlotte, NC 28262

INSTALLATION

1. Remove HOUSING COVER by unscrewing and prying open with screwdriver (Fig.1).
2. Punch out the KNOCKOUT on the bottom or side of the fixture (Fig.2) or use POWER FEED BOX(not included in the fixture, refer to Fig.3)
3. Mount FIXTURE HOUSING by using SCREW HOLES at the bottom (Fig.4)
4. Wire according to N.E.C.and any applicable local codes (Fig.6&7)
5. Attach HOUSING COVER and tighten screws (Fig.1)

1&5

Fig.1



2

Fig.2

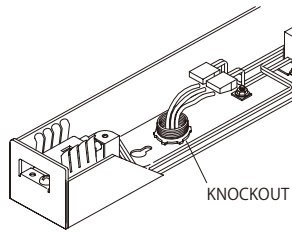
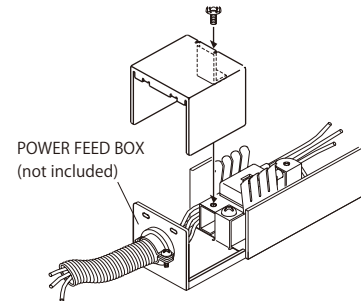
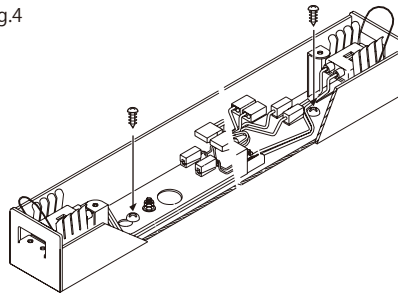


Fig.3



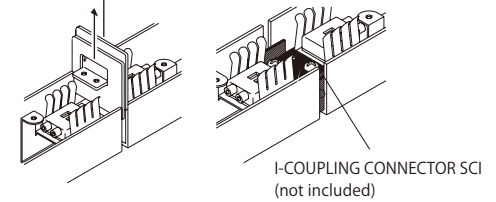
3

Fig.4



For connecting each fixture, remove the end plate and use I-coupling connector.

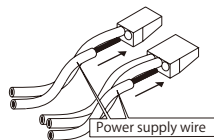
Fig.5



4

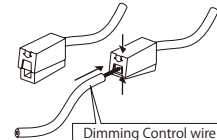
Connect Power supply wire into PUSH-IN connector.

Fig.6



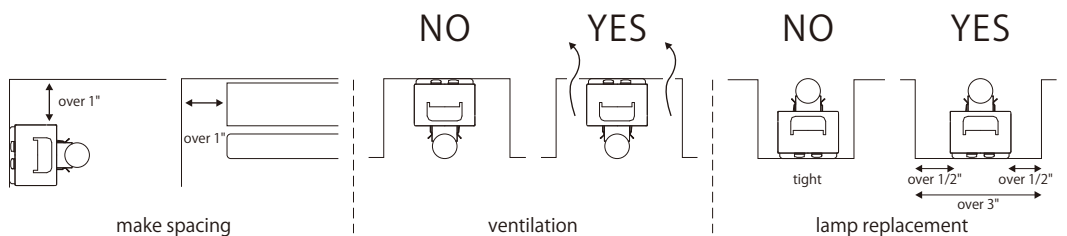
For dimming fixtures connect dimming control wire into clamp connector.

Fig.7



CAUTION

To prevent premature lamp failure or ballast failure - use the following guidelines



Dimming

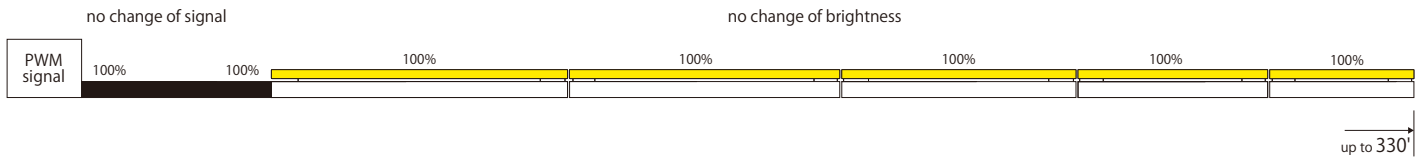
Consistent & smooth dimming by PWM

PWM (Pulse Width Modulation) delivers even illumination during dimming on continuous run lengths.

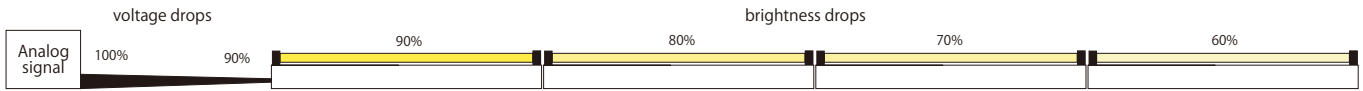


CONSISTENT

Maintains consistent levels of brightness from lamp to lamp even when mixing lamp lengths in a continuous run because the PWM signal is not affected by the length of wiring.

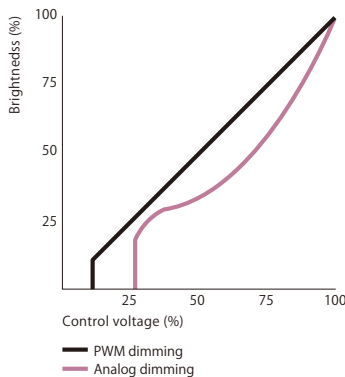


Analog signal / By others (0-10V) : Cannot effectively maintain consistent levels of brightness from lamp to lamp when mixing lamp lengths and in long continuous runs since voltage decreases at the end of the runs.



SMOOTH

PWM allows for dimming from 100% down to 10% without lamp flicker or striation, tracking evenly from lamp to lamp.



Compatible systems

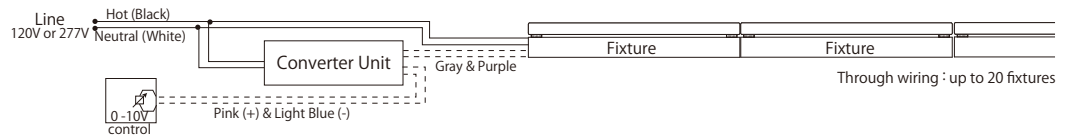
As of 12/5/06, Seamlessline has been tested with the following dimmers.

Dimmer (and its interface)

- Leviton Illumatech Fluorescent Dimmer IP710-DA(No interface)
- Lutron Grafik Eye 3000 Series (LUTRON GRX-PWM)
- Lutron Grafik Eye 4000,5000,6000,7000 Series (LUTRON GRX-PWM)
- Lutron HOMEWORKS (LUTRON GRX-PWM)
- ETC Unison DR Series (ETC's DC 0-10 Volt DA Converter)
- HUNT PS-010

WIRING DIAGRAM

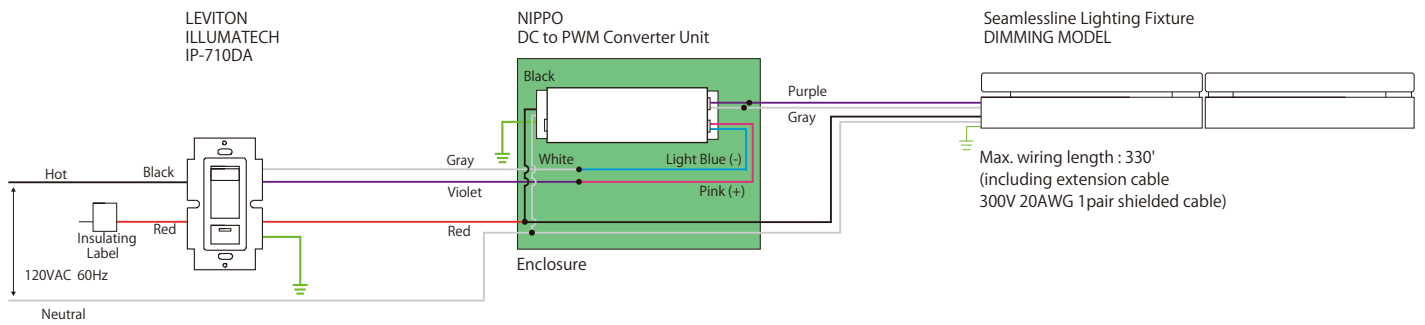
STANDARD



EXAMPLE 1 in case of 0-10V dimmer

LEVITON

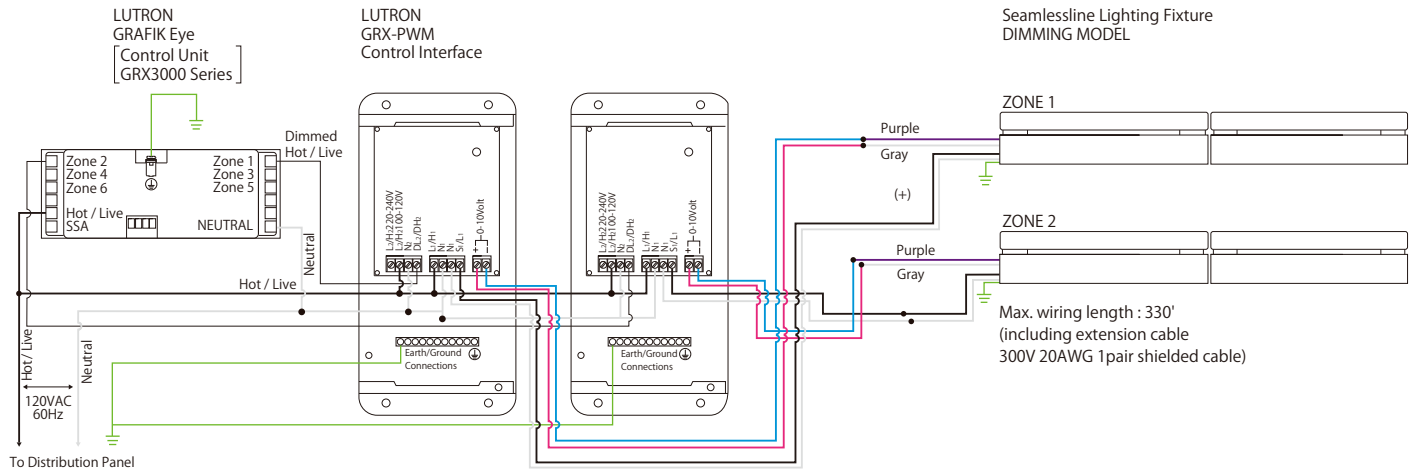
up to 20 fixtures



EXAMPLE 2 in case of PWM dimmer

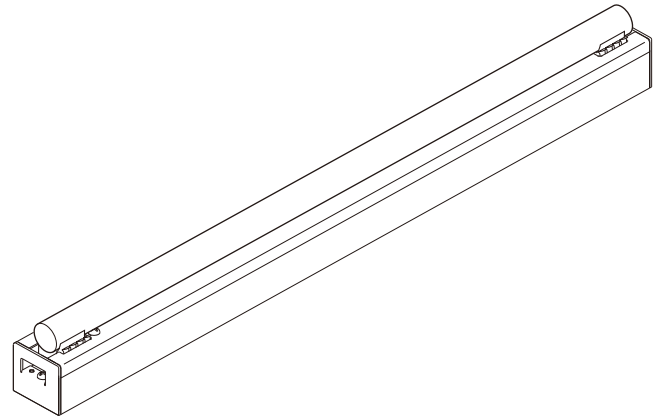
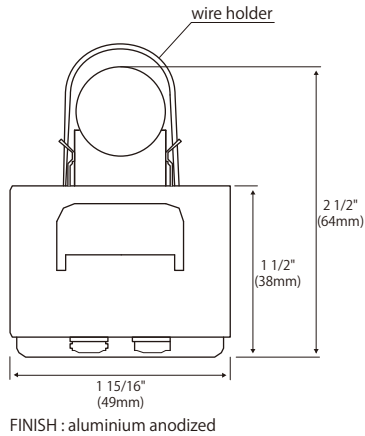
LUTRON

multi zones



for more information, please see LUTRON web page

ORDERING FORMAT



	FIXTURE		FLUORESCENT LAMP	ACCESSORIES			
	catalog no.	voltage	O.A.length	color (temp.)			
dimming	<input type="checkbox"/> SAL-UW850AM	120	33 9/16" (853mm)	<input type="checkbox"/> EL25 (2500K)	Dimming signal converter 0-10V DC to PWM signal <input type="checkbox"/> UFDA-035AP 120volts, 90mA for dimming signal one for one circuit <input type="checkbox"/> UFDC-035AP 277volts, 40mA for dimming signal one for one circuit		
	<input type="checkbox"/> SAL-UW1000AM		39 1/2" (1003mm)			<input type="checkbox"/> EL (2800K)	
	<input type="checkbox"/> SAL-UW1250AM		49 5/16" (1253mm)	<input type="checkbox"/> EL30 (3000K)			
	<input type="checkbox"/> SAL-UW1500AM		59 3/16" (1503mm)			<input type="checkbox"/> EWW (3500K)	
	<input type="checkbox"/> SAL-UW850CM	277	33 9/16" (853mm)	<input type="checkbox"/> EW (4200K)			
	<input type="checkbox"/> SAL-UW1000CM		39 1/2" (1003mm)			<input type="checkbox"/> EN (5000K)	
	<input type="checkbox"/> SAL-UW1250CM		49 5/16" (1253mm)	<input type="checkbox"/> ED (6700K)			
	<input type="checkbox"/> SAL-UW1500CM		59 3/16" (1503mm)			<input type="checkbox"/> ER (red)	
	non dimming	<input type="checkbox"/> SAL-UW500A	120	19 3/16" (503mm)			<input type="checkbox"/> EG (green)
		<input type="checkbox"/> SAL-UW850A		33 9/16" (853mm)		<input type="checkbox"/> EB (blue)	
<input type="checkbox"/> SAL-UW1000A		39 1/2" (1003mm)		<input type="checkbox"/> EG (green)			
<input type="checkbox"/> SAL-UW1250A		49 5/16" (1253mm)			<input type="checkbox"/> EB (blue)		
<input type="checkbox"/> SAL-UW1500A		59 3/16" (1503mm)		<input type="checkbox"/> EB (blue)			
<input type="checkbox"/> SAL-UW500C		277	19 3/16" (503mm)		<input type="checkbox"/> EB (blue)		
<input type="checkbox"/> SAL-UW850C			33 9/16" (853mm)	<input type="checkbox"/> EB (blue)			
<input type="checkbox"/> SAL-UW1000C			39 1/2" (1003mm)		<input type="checkbox"/> EB (blue)		
<input type="checkbox"/> SAL-UW1250C			49 5/16" (1253mm)	<input type="checkbox"/> EB (blue)			
<input type="checkbox"/> SAL-UW1500C			59 3/16" (1503mm)		<input type="checkbox"/> EB (blue)		

JOB NAME: _____

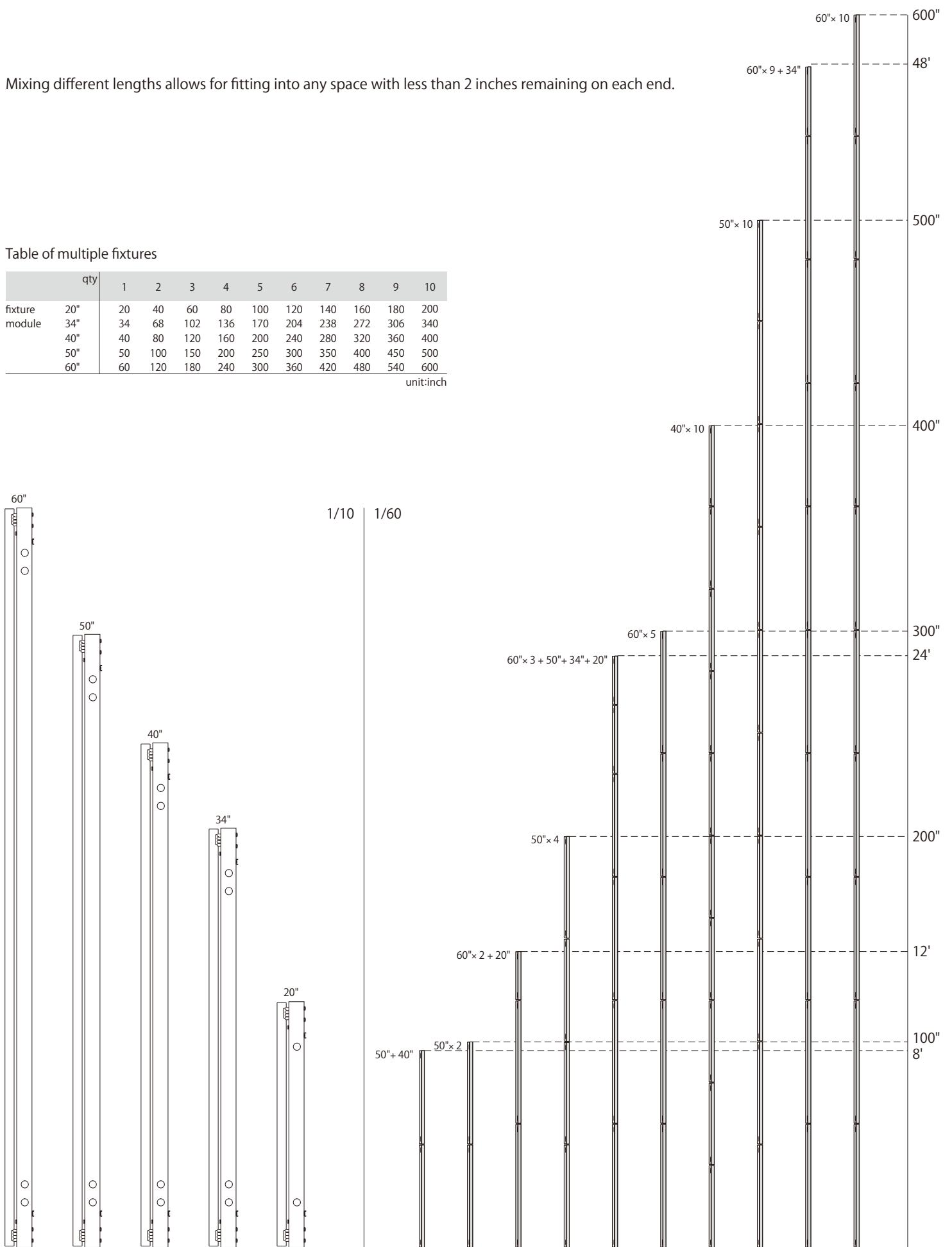
TYPE: _____

Mixing different lengths allows for fitting into any space with less than 2 inches remaining on each end.

Table of multiple fixtures

	qty	1	2	3	4	5	6	7	8	9	10
fixture	20"	20	40	60	80	100	120	140	160	180	200
module	34"	34	68	102	136	170	204	238	272	306	340
	40"	40	80	120	160	200	240	280	320	360	400
	50"	50	100	150	200	250	300	350	400	450	500
	60"	60	120	180	240	300	360	420	480	540	600

unit:inch





NIPPO ELECTRIC CO., LTD.

For more information,
Verbatim Americas, LLC
1200 West W.T. Harris Blvd
Charlotte, NC 28262
Phone 704-547-6500
Toll Free 877-NIPPO-11(647-7611)
E-mail : nippo@verbatim.com