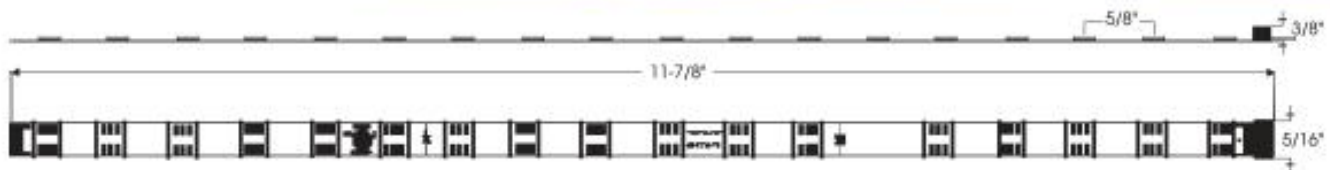




## LED FLEXIBLE LINEAR • DL-FLEX-UP ULTRA SERIES DL-FLEX-UP-ULTRA



### DESCRIPTION

DL-FLEX-UP-ULTRA uses the newest LEDs to provide high levels of light output while maximizing efficiency.

### SPECIFICATIONS

Beam Angle	120°
Input Voltage	24V DC
Lamp Life	50,000 hours
Dimensions	11-7/8" L x 3/8" W x 1/8" H per section
LEDs (per ft)	18
LED Spacing	5/8"
Operating Temperature	-22°F - 185°F
Max Run*	20'
Wiring	2-Wire
Min Run†	6 LEDs, ~4"
Mounting‡	Clips or Channel
Environment	Indoor, Dry
Certifications	UL USA LISTED
Warranty	5 Years – see published warranty terms for detailed information.

- \* Single runs cannot exceed 20'. For longer runs refer to the wiring diagram.
- † Cuts can only be made on the cutting mark.
- ‡ View accessories page for more information.

### FEATURES

- Low power consumption, low heat output.
- Optional aluminum mounting channel with clear or diffused lens covers.
- No ultra violet (UV/IR) radiation, no mercury.
- For a 90° bend or tighter, do so at the cutting mark.
- To make a 90° joint connection use the DL-FLEX-X-CONN connector, which can be trimmed for 2-way L connection or 3-way T connection.

### LUMEN DATA

Color Temp	Watts (per ft)	Lumens (per ft)	Efficacy (lm/W)	CRI
2400-2700K	4	310	78	80
3000-3300K	4	310	78	80
4000-4300K	4	315	79	80
6000-6500K	4	320	80	75

### ORDERING INFORMATION

Example: 

SERIES	MODEL	COLOR
DL-FLEX	UP-ULTRA	27
		30
		40
		60

DL-FLEX-UP-ULTRA is packed in 20' roll lengths. May be ordered in 1' increments. Specify amount of 1' lengths before ordering number for Example: 20 x DL-FLEX-UP-ULTRA-30

### Notes:

1. Exceeding the operating temperature values may damage the LEDs by reducing the lifespan, lumen output, and adversely impact color consistency.
2. It is recommended adequate airflow and heatsinking be taken into consideration in the installation and application of this product. Improper thermal management may lead to premature product failure.

### APPLICATIONS

- Cove and soffit lighting
- Path and contour marking
- Display lighting
- Under-shelf and under-cabinet lighting
- Accent and edge lighting
- Backlighting
- Signage

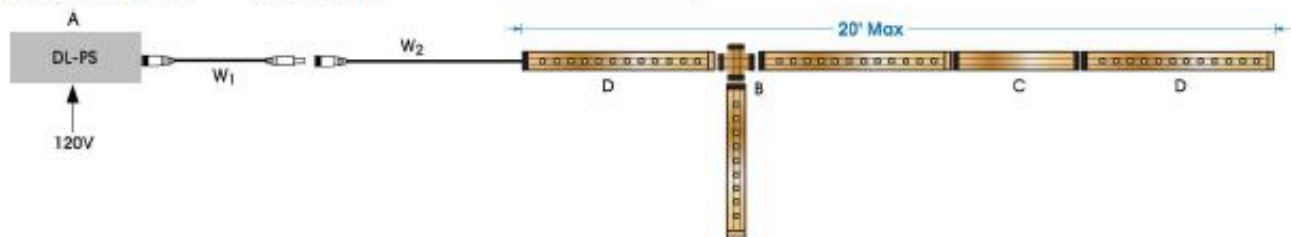
## LED FLEXIBLE LINEAR • DL-FLEX-UP ULTRA SERIES

### DL-FLEX-UP-ULTRA

#### WIRING DIAGRAMS

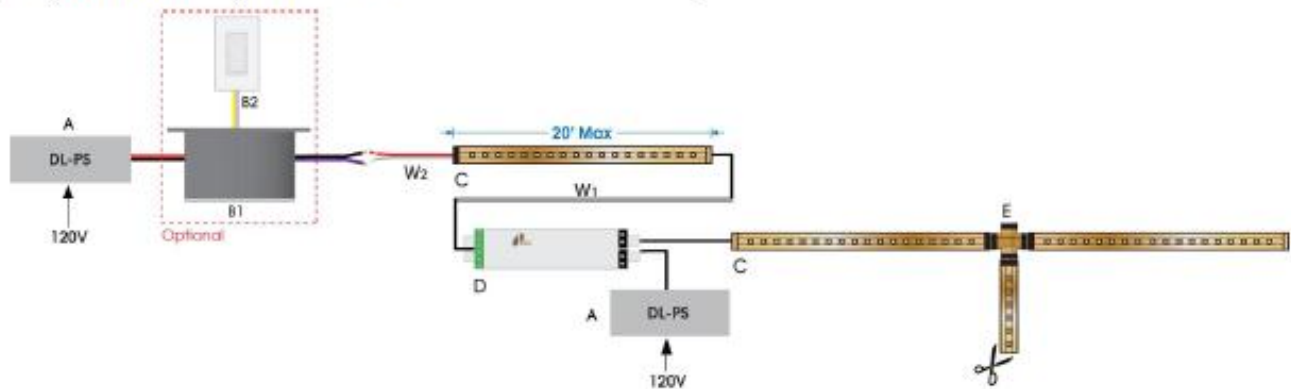
##### 24V • PLUG & PLAY

A.	POWER SUPPLY	DL-PS-XX/24
B.	CONNECTOR	DL-FLEX-X-CONN
C.	CONNECTOR	DL-FLEX-CC8
D.	FIXTURE	DL-FLEX-UP-ULTRA
W1.	CONNECTOR	Included with power supply
W2.	CONNECTOR	DL-FLEX-PC



##### 24V • HARD-WIRE • DIMMING OPTION

A.	POWER SUPPLY	DL-PS-XX/24-JB
B1.	DIMMING	LC-DIM5A-HW (Requires Lutron DS-DV-TV-WH)
B2.	DIMMING	DS-DV-TV (Requires LC-DIM5A-HW)
C.	FIXTURE	DL-FLEX-UP-ULTRA
D.	REPEATER	LC-200-RPT
E.	CONNECTOR	DL-FLEX-X-CONN
W1.	CONNECTOR	DL-FLEX-PT-HW
W2.	CONNECTOR	DL-FLEX-PC-HW



#### PHOTOMETRIC DATA

DL-FLEX-UP-ULTRA-30					DL-FLEX-UP-ULTRA-40					DL-FLEX-UP-ULTRA-60				
Height	120"	Lux	Light Output	Dimensions	Height	120"	Lux	Light Output	Dimensions	Height	120"	Lux	Light Output	Dimensions
12"		1560.8 lx	145 fc	17'L x 16'W	12"		1614.6 lx	150 fc	18'L x 15'W	12"		1668.4 lx	155 fc	18'L x 16 1/2'W
18"		839.6 lx	78 fc	25'L x 22 1/2'W	18"		850.3 lx	79 fc	24'L x 23'W	18"		861.1 lx	80 fc	25'L x 23'W
24"		484.4 lx	45 fc	32'L x 31'W	24"		495.1 lx	46 fc	32'L x 30 1/2'W	24"		505.9 lx	47 fc	32 1/2'L x 29 1/2'W

**LED FLEXIBLE LINEAR • DL-FLEX-UP ULTRA SERIES**  
**DL-FLEX-UP-ULTRA**

**DL-FLEX Series Power Supply Guide for Max Runs**

If the Max Load of a power supply exceeds the fixture's Max Run, then you may install multiple runs per given power supply.

**Wattage** = Max power capacity of power supply.

**Max Load** = Fixture quantity a power supply can power.

**Max Run** = Maximum length of a single fixture.

<b>Hard-Wire Power Supplies (Junction Box Included)</b>		<b>DL-FLEX-UP-ULTRA</b>	
		<b>4 W/Ft</b>	
<b>Model Number</b>	<b>Wattage</b>	<b>Max Run</b>	<b>Max Load</b>
DL-PS - 20 / 24 - JB	20	20 ft	5.0 ft
DL-PS - 25 / 24 - DIM-JB	25	20 ft	6.2 ft
DL-PS - 35 / 24 - JB	35	20 ft	8.7 ft
DL-PS - 60 / 24 - JB	60	20 ft	15.0 ft
DL-PS- 60 / 24 - JBS	60	20 ft	15.0 ft
DL-PS - 100 / 24 - JB	96	20 ft	24.0 ft
DL-PS - 150 / 24 - JB	150	20 ft	37.5 ft
DL-PS - 320 / 24 - JB	312	20 ft	78.0 ft
DL-PS - 120 / 24 - JB	2 x 60*	20 ft	2 x 15 ft
DL-PS - 180 / 24 - JB	3 x 60*	20 ft	3 x 15 ft
DL-PS - 200 / 24 - JB	2 x 96*	20 ft	2 x 24 ft
* Consists of multiple power supplies.			
<b>Plug &amp; Play Power Supplies</b>		<b>DL-FLEX-UP-ULTRA</b>	
		<b>4 W/Ft</b>	
<b>Model Number</b>	<b>Wattage</b>	<b>Max Run</b>	<b>Max Load</b>
DL-PS - WP 24 / 24	24	20 ft	6.0 ft
DL-PS - 24 / 24	24	20 ft	6.0 ft
DL-PS - 48 / 24	48	20 ft	12.0 ft
DL-PS - 60 / 24	60	20 ft	15.0 ft
DL-PS - 100 / 24	90	20 ft	22.5 ft

Notes :

Wattage must be de-rated if power supply operates at max temperature range.

Refer to specification sheets for more information.

**LED FLEXIBLE LINEAR • DL-FLEX-UP ULTRA SERIES**  
**DL-FLEX-UP-ULTRA**

**DL-FLEX Series Power Supply Guide for Max Runs**

If the Max Load of a power supply exceeds the fixture's Max Run, then you may install multiple runs per given power supply.

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Hard-Wire Power Supplies (Junction Box Included)		DL-FLEX-UP-ULTRA	
		4 W/Ft	
Model Number	Wattage	Max Run	Max Load
DL-PS - 20 / 24 - JB	20	20 ft	5.0 ft
DL-PS - 25 / 24 - DIM-JB	25	20 ft	6.2 ft
DL-PS - 35 / 24 - JB	35	20 ft	8.7 ft
DL-PS - 60 / 24 - JB	60	20 ft	15.0 ft
DL-PS- 60 / 24 - JBS	60	20 ft	15.0 ft
DL-PS - 100 / 24 - JB	96	20 ft	24.0 ft
DL-PS - 150 / 24 - JB	150	20 ft	37.5 ft
DL-PS - 320 / 24 - JB	312	20 ft	78.0 ft
DL-PS - 120 / 24 - JB	2 x 60*	20 ft	2 x 15 ft
DL-PS - 180 / 24 - JB	3 x 60*	20 ft	3 x 15 ft
DL-PS - 200 / 24 - JB	2 x 96*	20 ft	2 x 24 ft
* Consists of multiple power supplies.			
Plug & Play Power Supplies		DL-FLEX-UP-ULTRA	
		4 W/Ft	
Model Number	Wattage	Max Run	Max Load
DL-PS - WP 24 / 24	24	20 ft	6.0 ft
DL-PS - 24 / 24	24	20 ft	6.0 ft
DL-PS - 48 / 24	48	20 ft	12.0 ft
DL-PS - 60 / 24	60	20 ft	15.0 ft
DL-PS - 100 / 24	90	20 ft	22.5 ft

Notes :

Wattage must be de-rated if power supply operates at max temperature range.

Refer to specification sheets for more information.

## LED FLEXIBLE LINEAR • DL-FLEX-UP ULTRA SERIES DL-FLEX-UP-ULTRA

### PLUG & PLAY ACCESSORIES



**DL-FLEX-PC**  
19" Input Power Connector. (13-1/4" Cable / 5-7/8" FLEX-UP tape). Male DC plug connects to equipment with female DC plug (e.g.: DL-PS power supply, DL-PS accessories) FLEX-UP tape accepts FLEX-UP connector. May be used as a "Live End" connector for DL-FLEX-UP.



**DL-FLEX-PC2**  
14" Input Power Connector. (13-1/4" Cable / 3/8" FLEX-UP tape). Male DC plug connects to equipment with female DC plug (e.g.: DL-PS power supply, DL-PS accessories). FLEX-UP tape accepts FLEX-UP connector. May be used as a "Live End" connector for DL-FLEX-UP.



**DL-FLEX-PT**  
14" Output Power Connector. (13-1/4" Cable / 1/2" FLEX-UP tape with FLEX-UP connector). Female DC plug connects to equipment with male DC plug (e.g.: LC-200-RPT, DL-PS accessories) FLEX-UP connector accepts FLEX-UP tape.



**DL-FLEX-X-CONN**  
Universal, "L", "X" & "T" connector  
Connects up to four DL-FLEX strips  
Cut to make 2-way "L" connection  
or 3-way "T" connection



**DL-FLEX-UP-4-(27/30/40/60/B/G)**  
4" Linear Strip with FLEX-UP connector on one end. May be connected to cut ends. Readily accepts end of DL-FLEX-UP. Output: 2700K, 3000K, 4000K, 6000K, Blue, Green. Max Watt: 0.46W



**DL-FLEX-UP-6-(R/Y)**  
6" Linear Strip with FLEX-UP connector on one end. May be connected to cut ends. Readily accepts end of DL-FLEX-UP. Output: Red, Yellow. Max Watt: 0.7W



**DL-FLEX-CC6**  
6" Flexible mid-connector. To reach across or hide behind gaps

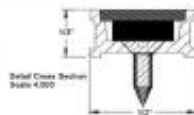
**DL-FLEX-CC12**

12" Flexible mid-connector. To reach across or hide behind gaps

### MOUNTING ACCESSORIES



**DL-FLEX-CH6**  
Aluminum Mounting Channel  
6'L x 1/2"W x 1/3"H



**DL-FLEX-CH6CLIP**  
Mounting Clip for DL-FLEX-CH6  
Recommended 24" between Clips for most installations.  
(Sold as a pair).



**DL-FLEX-DC6**  
Clear acrylic lens to protect DL-FLEX  
91.5% light transmittance, 1% haze  
Length: 6"  
For use with DL-FLEX-CH6



**DL-FLEX-FL6**  
Frosted acrylic lens to protect DL-FLEX  
85% light transmittance, 4% haze  
Length: 6"  
For use with DL-FLEX-CH6



**LLMFH-C/C-CH6**  
Mounting Channel for carpet to carpet installation  
Includes clear lens  
Field cuttable  
Length: 6"



**LLMFH-C/W-CH6**  
Mounting Channel for carpet to wood/tile installation  
Includes clear lens  
Field cuttable  
Length: 6"



**DL-FLEX-CH-LE**  
End cap for DL-FLEX-CH6  
Hole allows cable to pass through  
For use with DL-FLEX-PC2, DL-FLEX-PC2-HW,  
DL-FLEX-PT, or DL-FLEX-PT-HW.



**DL-FLEX-CH-EC**  
End Cap for DL-FLEX-CH6  
Use for a finished look