BoxRayz® 400

AgiLight®
Light It Up

ONEwhite®
Global Color Consistency

Capzul®
Waterproof Encapsulation

VersaLenz
Advanced Optics

CC

UV RESISTANT

50,000 HRS
L70 LIFETIME
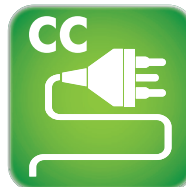
Ordering Information

Part Number	White Color Temperature	Module to Module Spacing		Number of Modules per Foot	per Meter	Nominal Light Output (lm)* per Module	per Meter
LS-BOX400-DLW-1B3	Daylight White	16"	406.4mm	0.75	2.5	400	1000
LS-BOX400-57K-1B3	5700K	16"	406.4mm	0.75	2.5	400	1000
LS-BOX400-50K-1B3	5000K	16"	406.4mm	0.75	2.5	400	1000
LS-BOX400-41K-1B3	4100K	16"	406.4mm	0.75	2.5	370	925
LS-BOX400-30K-1B3	3000K	16"	406.4mm	0.75	2.5	300	750
LS-BOX400-27K-1B3	2700K	16"	406.4mm	0.75	2.5	300	750
LS-BOX400-DLW-1B3-12	Daylight White	12"	305mm	1	3.3	400	1320

Note: DayLight White replaces T12 DL HO Fluorescent Lamps.
   4100K White replaces T12 CW HO Fluorescent Lamps

*±10%

Product Ratings

Luminous Efficacy	92 lm/W (DLW Color)
Wattage per Module	4.34 W (Max. 4.76W)
Input Current per Module	1.4 A
Ingress Protection	IP68 (Module) IP67 (Wire Connectors)
Operating Temperature	-40°C to +60°C (-40°F to +140°F)
L70 Lifetime	50,000 hours
Warranty	5 Year limited*

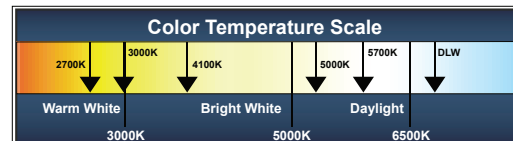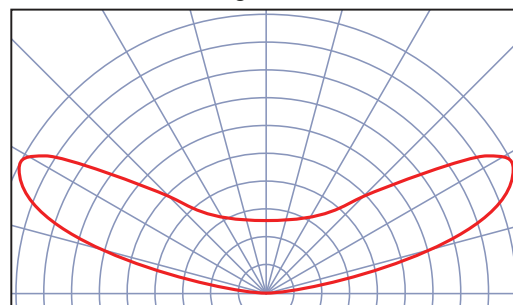* Altering the product in any way voids the warranty.

Population Density Guide[1]

Box Sign Depth (inch / mm)	Multiple Row (inch / mm)
5 / 125	12 / 305[2]
6 / 150	14 / 356[3]
7 / 180	16-18 / 406-457
8 / 200	18-24 / 457-610
9 / 230	21-24 / 533-610
10 / 250	20 / 508[4]

[1] Modules are spaced with wires at full stretch, unless noted otherwise.
7328 White Acrylic was used for testing the face light uniformity; other face materials may vary the module and row spacing to achieve the same face light uniformity and brightness.
[2] Modules' center to center spacing is at 12" / 305 mm
[3] Modules' center to center spacing is at 14" / 356 mm
[4] Module row spacing is reduced from value at a lower depth to maintain the acceptable face brightness

Luminous Intensity Distribution
B3 Batwing Beam Pattern

Applications
• Cabinet Signs
• Cloud Signs
• Accent Lighting

Color Temperature Scale

2700K	3000K	4100K	5000K	5700K	DLW
Warm White		Bright White		Daylight	
3000K		5000K		6500K	

c UL us   c UL us CLASSIFIED   IP68 standard   CE   RoHS COMPLIANT   This light source meets restrictions on hazardous substances.   LM-79   LM-80

System Wiring Diagram

BLACK (AC+)
WHITE (AC -)
GREEN (GND)
AC INPUT

DC OUTPUT

BoxRayz® 400 LED Modules
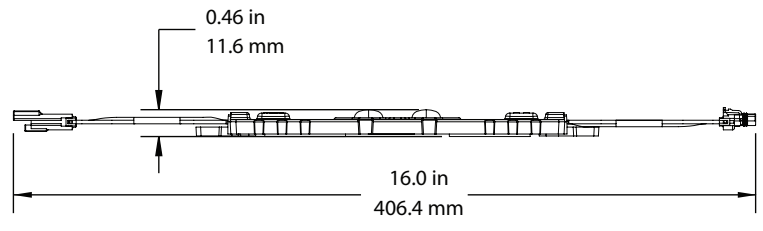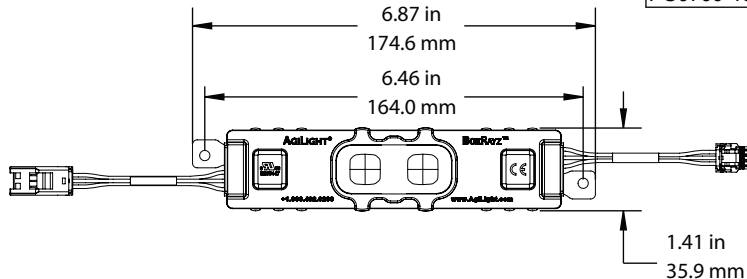
END PLUG
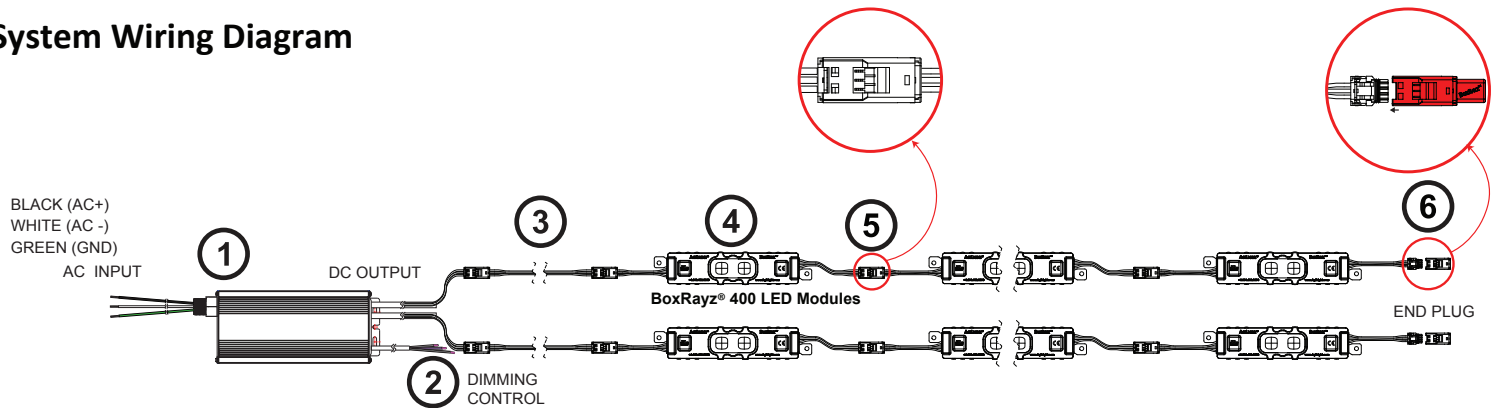
DIMMING CONTROL

System Component List

1. Class 2 constant current power supply 1.4A (PS0700-150W), dual output channels
2. 0-10V dimming control input
3. Jumper Cables between power supply and LED module string
4. BoxRayz® 400 LED modules
5. One-way plug-receptacle connectors
6. Endplug for closing the electrical connection loop

Plug-and-Play Interconnections

1. No more wire cutting during installation
   • Each LED module has its own set of connectors
   • Power supply, 18" and 36" jumper cables have matching connectors
2. Safe Electrical Interconnections
   • One-way connectors guarantee correct electrical connections
   • Waterproof, IP67 rating on all connector-to-wire packaging

Power Supply Load Chart

Power Supply	Output Voltage	# of Modules/ Power Supply		
		Single Channel Usage	Double Channel Usage	
PS0700-150W-100-277-2O	24-54V	9 to 16	(8 to 16)/Channel	(16 to 32) Total
PS0700-150W-100-277-2O-G1	29-54V	11 to 16	(10 to 16)/Channel	(20 to 32) Total

Module Dimensions

6.87 in
174.6 mm

6.46 in
164.0 mm

1.41 in
35.9 mm

0.46 in
11.6 mm

16.0 in
406.4 mm

BoxRayz® Accessories

18 in or 36 in
457 mm or 914 mm

1.54 in
39.2 mm

0.35 in
8.9 mm

0.49 in
12.4 mm

Part Number	Name	Wire Gauge	IP Rating	Connector Type	Box Quantity	Box Dimensions
AC-EPLG-00-3-BOXZ-1	LED String End Plug	N/A	IP67	1 Plug	1000 units/ box	(15.7 x 9.4 x 9.4)in (398 x 240 x 238)mm
AC-JUMP-18-3-BOXZ-1	18" jumper cable	22	IP67	1 Plug and 1 Receptacle	500 units/ box	(11.6 x 9.6 x 6.6)in (295 x 245 x 167)mm
AC-JUMP-36-3-BOXZ-1	36" jumper cable	22	IP67	1 Plug and 1 Receptacle	250 units/ box	(11.6 x 9.6 x 6.6)in (295 x 245 x 167)mm

BoxRayz® 400 Shipping Information

Model	SKU (Module)	Tray Quantity SKUs	Box Quantity SKUs	Case Quantity SKUs	Case Weight	Box Dimensions			Case Dimensions		
						W	D	H	W	D	H
LS-BOX400-XXX-1B3	1	16	64	256	50.0 lb 22.7 kg	20.3" 515mm	17.3" 440mm	3.4" 87.5mm	20.8" 528mm	17.8" 452mm	14.2" 361mm

⚠ **CAUTIONS**

1. These products are only suitable for connection to a Class 2 constant current power source.
2. These products are intended for use only when connected to a power source that complies with Class 2 voltage and energy limited circuit.
3. When these units are connected to a Class 2 circuit, they are not to draw a total wattage of greater than the secondary or output rating of the Class 2 supply.
4. These products may be secured in place in the end product by any means available.
5. These products are suitable for use in dry and damp locations. Not suitable for submersed applications.