

## Project Information

Job Name: \_\_\_\_\_

Location: \_\_\_\_\_

Catalog#: \_\_\_\_\_

Contact/Phone: \_\_\_\_\_

# MedLux® COVE

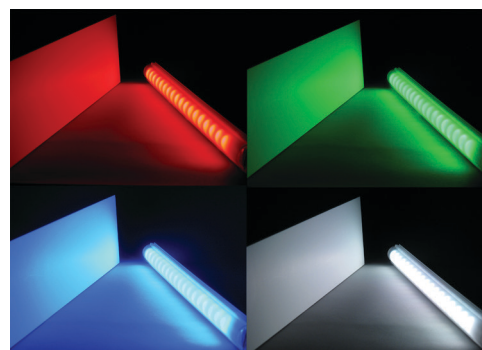
## LED cove accent lighting system

for MRI & non-MRI applications

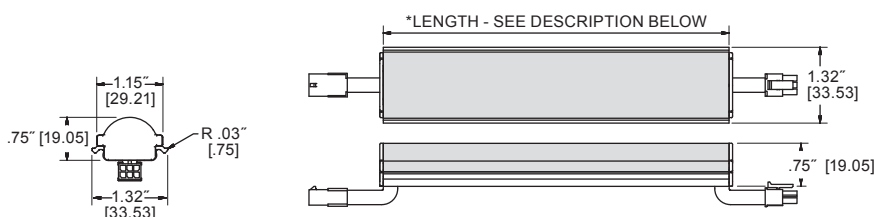
### PRODUCT DESCRIPTION

MedLux® Cove is offered in both MRI-Safe and non-MRI versions. The MRI system features a unique (patent pending) control method designed specifically for operating LEDs in an EMI free environment. Only reputable name brand LEDs are used assuring long-life and even color consistency.

The MRI-Safe system also uses a proprietary driver module requiring only one (1) power filter and three (3) signal filter channels for the entire system. A keypad/controller module allows for finite color adjustment of the system and six (6) user defined programmable color settings. White only systems are controlled by a standard MedLux® MDL Dimmer, or XLIM dimming interface modules.



LED light fixture in various color modes

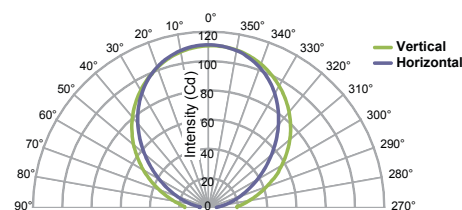
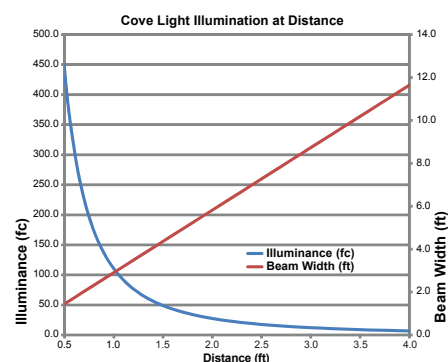


LED Cove light fixture dimensions with isometric drawing.

Lengths available: 6.125" (156mm), 12.125" (308mm), 18.125" (460mm), 36.125" (918mm), 48.125" (1.22m) and 72.125" (1.83m)

### GENERAL SPECIFICATIONS - RGB & White LED Cove Light Fixtures

Dimensions/Sizes	1.35"W x 0.75"H x 6.125", 12.125", 18.125", 36.125", 48.125" and 72.125" lengths
Construction	Enclosure base: Extruded ABS; LENS: Diffuse "Satin Ice" acrylic; End caps consist of injection molded diffuse "Satin Ice" acrylic
Light Source	RGB or White LEDs on 1" pitch, 1/3W per LED Net Lumens (white) - 227 per foot
Internal LED Board Length	1.00" x 5.93", x 11.93", x 17.93" or multiples thereof
Input	24VDC @ 0.125A max. per foot (3W per foot)
Colors Available	RGB - Continuously variable from a palette of 262,000 Fixed colors - Red, Green, Blue and Custom White - 2700K, 3000K, 3500K, 4000K, 5000K, 6500K
Electrical Interconnects	Gold plated plug & socket; Connector exit-right angle on each end of profile.
Safety Agency	UL2108, UL8750; cULus Listed, E361133
Mounting Method	Extruded plastic clip/rail system (supplied); Stainless steel hardware recommended



Note: Photometric information shown above applies only to white modules

# GENERAL SPECIFICATIONS Continued - Page 2

**MedLux® COVE**  
LED cove lighting system  
for MRI & non-MRI applications

## White/Monochrome Dimmer Kit (ECL-53-CR)

Dimensions	4.5"H x 2.75"W
Input Voltage	16VAC, 50/60Hz, or 15VDC to 24VDC Class 2 Power Source (16VAC Transformer, Mounting plate, and Connecting Cable supplied)
Input Power	2.4 Watts, 4.8 VA (Assuming Non-PFC Power Source)
Safety Rating	All circuitry meets NEC Class 2 requirements
Output	0 to 12 VDC, pulse width modulated, trapezoidal wave, 100mA max.
Operating Frequency	Operating frequency = 140Hz
Controls	ON - Press to activate dimmer, sets output to FULL ON ARROW UP - Press or Press-and-Hold to increase brightness ARROW DOWN - Press or Press-and-Hold to decrease brightness SAVE - Place current brightness setting into memory PRESET - Recall last "saved" brightness setting OFF - Press to turn lights OFF; dimmer "night light" remains active
Wiring Description	Class 2 Plenum rated signal cable and installation instructions supplied
Mounting	Separate standard single gang wall switch box, minimum 2"W x 2.75"H x 3"D (inside clearance, 20.3 cu. in. typical)



Medlux® Keypad/Controller Module  
for Dimming White/Monochrome LEDs

## RGB Keypad/Controller Module (ECL-47-KIT) **NOTE: Cannot be installed in the same room as the magnet.**

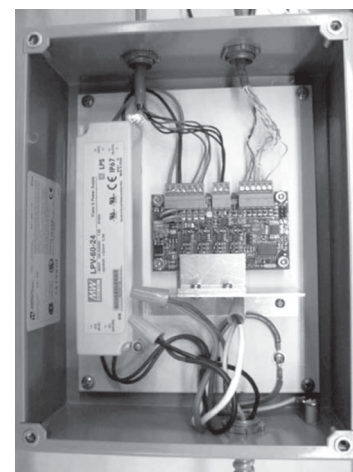
Input Power	16VAC or 15VDC to 24VDC @ 5VA from a Class 2 recognized power source (supplied with system)
Outputs	Four configurable signal channels providing: 130Hz PWM
Dimensions	Keypad is 4.5"H x 5.0"W, flush to wall; Controller is attached to keypad, 2.8"H x 1.9"W x 2.7"D
Wiring Description	Cat5 signal cable and installation instructions supplied
Mounting	Requires standard double-gang switchbox, with minimum depth = 3" <b>Note:</b> Keypad is too wide to permit side-by-side mounting in a quad-gang box
Maintenance	No user serviceable parts; May be cleaned with most household cleaning agents
Basic Operation	Cycles through a "rainbow" of color combinations; Cycle rate is user adjustable; "Color Hold" function allows any color to be selected and maintained statically indefinitely; Up to six (6) static selections can be placed in memory for immediate recall at any time.



Medlux® Keypad/Controller Module  
for Managing Multicolor LEDs

## Driver Module (ECL-42-01)

Power Input	24VDC at 1.1A maximum
Signal Inputs	PWM or Analog RGB (0-10VDC)
# of Output Channels	Four (R, G, B, W or A)
Output rating	10/20VAC at 250mA maximum per channel; Sufficient for 325 - 430 feet of cove strip
Modulation	Proprietary; MRI Compatible
Dimensions	11.5"H x 8"W x 5"D
Weight	6.1 lbs.
Safety Agency	UL8750, UL1310

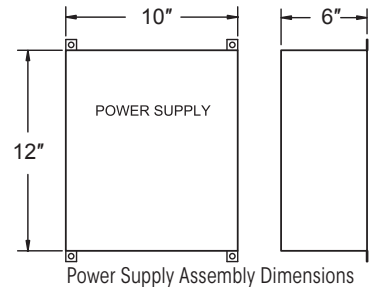


RGB Driver/Power Supply

## GENERAL SPECIFICATIONS Continued - Page 3

### Power Supply Assembly (ELT600-24U; 600W)

Output Voltage	24VDC +/- 3%
Output Current	(600W): 25A maximum
Input Voltage	110/220VAC (switch selectable) Note: Optional step-down transformer available
Input Current	(600W): 9.1A (1kVA) maximum @ 110V; 4.6A (1kVA) maximum @ 220V
Enclosure	NEMA Type 1 (supplied)
Dimensions	12"H x 10"W x 6"D
Weight	est. 16 lbs.
Safety Agency	UL60950; EN60601



### Facility & Signal Filters (Optional)

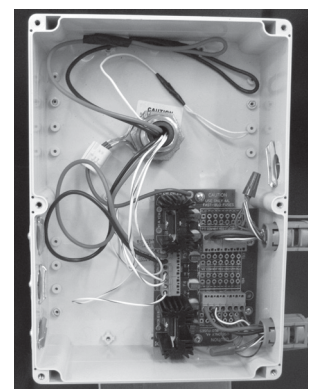
Facility Power filter (P/N 019-00011)	Input Rating: 277V AC/DC maximum, 2 x 30A maximum Attenuation: 3dB maximum at 300Hz; 110dB minimum at 1MHz Wiring: Standard L/N/E
Signal Filters (2 each) (P/N 019-00009)	Input Rating: 50VDC minimum, 2 x 300mA maximum Input Impedance: 600 Ohm minimum, signal to ground Attenuation: 3dB maximum at 23kHz; 110dB minimum at 1MHz Isolation: No cross-coupling between channels



Optional MRI Filter Driver Module

### Class 2 Wiring Distribution/Fuse Box (ECL-35M-xx/ECL-35V-xx; Includes fittings):

Input	50VDC maximum, 24A maximum (Class 1 wiring required)
Outputs (6 each)	50VDC maximum, 3.3A maximum (Class 2 wiring allowed) Note: Actual current available depends on input voltage per NEC section 725
Dimensions	10.5"H x 7.25"W x 3.75"D
Material	Polycarbonate, Enclosure rated
Weight	Est. 4 lbs.
Safety Agency	UL8750; UL1310; NEC section 725
Approval/Rating	ECL-35M-xx = for monochrome systems (white/any solid color) ECL-35V-xx = for variable color systems (RGB)



Distribution/Fuse Box

### Wiring Method

The MedLux® Cove System can have a total of 162 linear feet per power supply (480 Watts max. power). Class 2 wiring limits loading to no more than 3.33A per circuit and can operate a maximum of 27' per circuit with up to six (6) circuits per supply. Separate Class 2 cables must be routed to the approximate mid-point of each 27' run. Power and control feeds require appropriate facility and signal filters (supplied by others or offered as optional accessories).

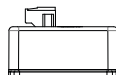
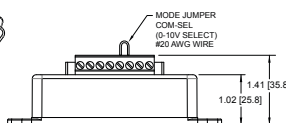
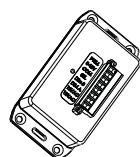
## Module Ordering Nomenclature

MODEL	LED COLOR OPTIONS			MODULE LENGTH OPTIONS	
<b>MCL</b>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
MEDLUX COVE LIGHT					
	27K	2700K		06	6.125" (156MM)
	30K	3000K		12	12.125" (308MM)
	35K	3500K		18	18.125" (460MM)
	40K	4000K		36	36.125" (918MM)
	50K	5000K		48	48.125" (1.222M)
	65K	6500K		72	72.125" (1.832M)
	RGB	MULTI-COLORED			
	RED	RED (FIXED)			
	GRN	GREEN (FIXED)			
	BLU	BLUE (FIXED)			

**CREATE YOUR MODULE NUMBERS HERE:** **MCL** -    -

## Optional XLIM Digital Dimming Interface Kit (Note: Use only with white/mono-chrome systems.)

Compatible with most 0-10V, PWM, or DSCI (Digital Serial Communications Interface) devices



DIMMING INTERFACE KIT CONTENTS	
DESCRIPTION	QTY
XLIM Dimmer Interface Assembly	1
Transformer Kit, 16VAC - [1] Transformer / [1] Cable, 15FT / [1] Cover Plate	1
100' Wire	1

NOTE: An interface module from the lighting control panel provider may also be required.

### Notes:

- Medlux Cove product is designed for use as accent lighting only.
- Monochrome options are recommended when extended periods of white illumination is required.
- Please review "Designing for Gradient Cables" by following the link below:  
[http://www.everbritelighting.com/downloads/Medlux/Designing\\_for\\_Gradient\\_Cables.pdf](http://www.everbritelighting.com/downloads/Medlux/Designing_for_Gradient_Cables.pdf)

P/N 006-00001K



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**L E D M E D I C A L L I G H T I N G**