

Project Information

Job Name: _____

Location: _____

Catalog#: _____

Contact/Phone: _____

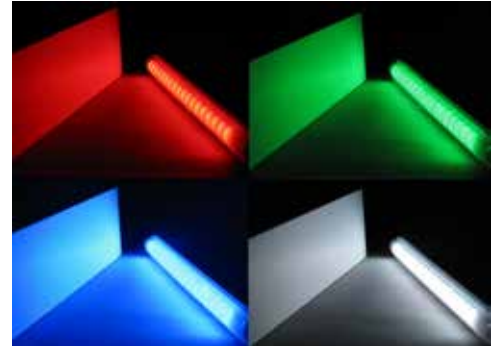
MedLux® COVE

LED cove lighting system
for MRI & non-MRI applications

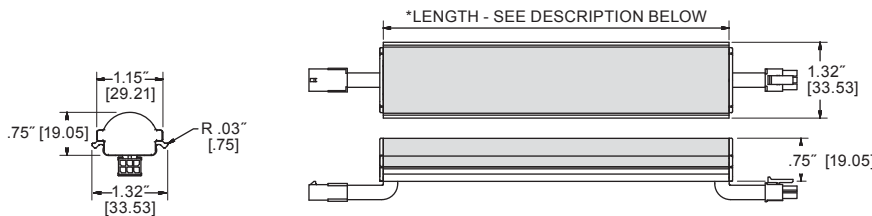
PRODUCT DESCRIPTION

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.

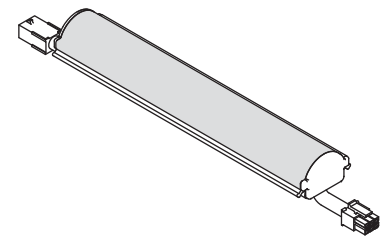


LED light fixture in various color modes



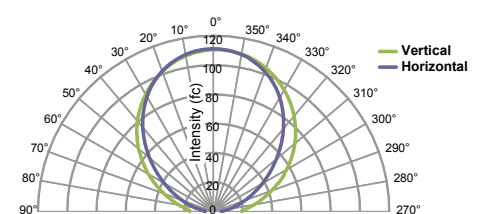
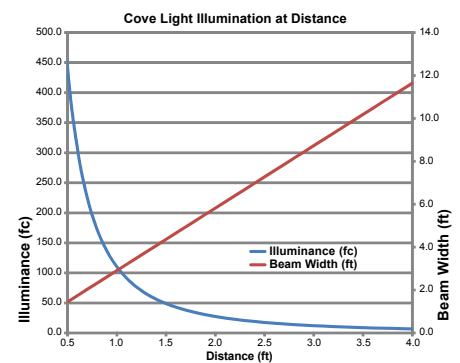
LED Cove light fixture dimensions with isometric drawing.

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
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; Optional extension harnesses available for corners
Safety Agency	UL2108, UL8750; cULus Listed, E361133; CSA C22.2 No. 9.0-96
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 48VDC 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)

Input Power	16VAC or 24VDC @ 5VA from a Class 2 recognized power source (supplied with system)
Outputs	Four configurable signal channels providing any one of the following: 130Hz PWM, BCD digital, RS-485 Serial
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" Note: 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-42-00)

Power Input	24VDC at 1.1A maximum
Signal Inputs	Analog RGB (0-10VDC); BCD Digital; DMX512-A or Proprietary Serial Data, both via RS-485 (two wire) data link
# 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

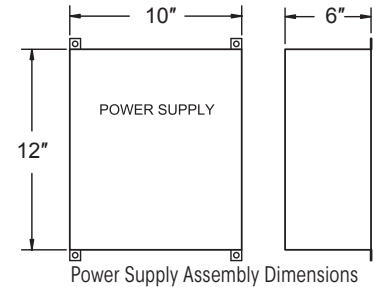


RGB Driver/Power Supply

GENERAL SPECIFICATIONS Continued - Page 3

Power Supply Assembly (ELT150-24U; 150W) / (ELT600-24U; 600W)

Output Voltage	24VDC +/- 3%
Output Current	(150W): 6.25A maximum (600W): 25A maximum
Input Voltage	110/220VAC (switch selectable) Note: Optional step-down transformer available
Input Current	(150W): 2.27A (250VA) max. @ 110V; 1.14A (250VA) max. @ 220V (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
Approval/Rating	U = UL, M = Medical (choose one) Note: Medical rated device available but not required due to nature of product/application.



Facility & Signal Filters (Supplied by third party)

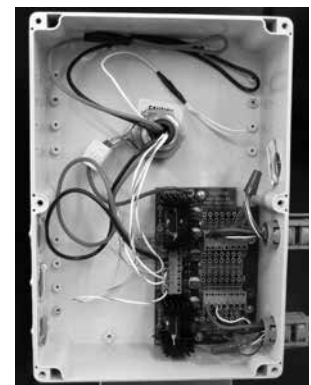
Facility Power filter (P/N 019-00011)	Input Rating: 277V AC/DC maximum, 2 x 30A maximum Attenuation: 3dB maximum at 300Hz; 110dB minimum at 1MHz Wiring: Standard L/N/E
Signal Filters (2 each) (P/N 019-00009)	Input Rating: 50VDC minimum, 2 x 300mA maximum Input Impedance: 600 Ohm minimum, signal to ground 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)

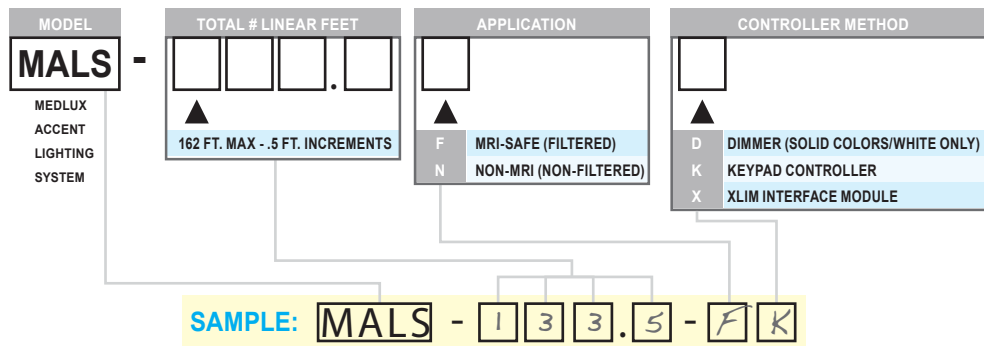


Distribution/Fuse Box

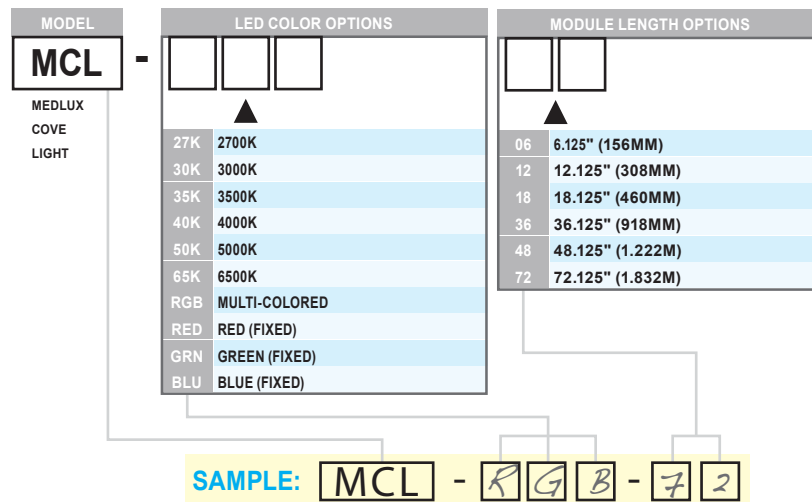
Wiring Method

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).

System Configuration Nomenclature - Part A



Module Ordering Nomenclature - Part B

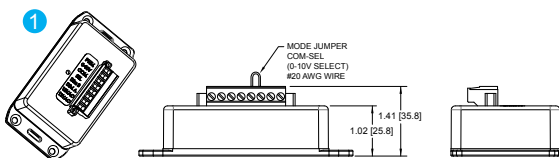


Note: Each application will have varying shapes and lengths. Repeat Part B entry for each size Cove Light Module required. The sum of the number of modules specified, multiplied by their length, should equal the total length specified in the MALS-xxx.x-xx system part number ordered.

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

X: Part #075-00055

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



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



075-00055 DIMMING INTERFACE KIT CONTENTS			
ITEM#	PART#	DESCRIPTION	QTY
1	600-0916	XLIM Dimmer Interface Assembly	1
2	050-00041	Transformer Kit, 16VAC - [1] Transformer / [1] Cable, 15FT / [1] Cover Plate	1
3	025-00036	100' Wire	1

P/N 006-00001K



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