WENDELIGHTING®

DIVISION OF JACKSEN INTERNATIONAL LTD

Wendel® RET- 415PL Recessed Optical Projector LED Retrofit

The Wendel® RET- 415PL Recessed LED Framing Projector is designed for retrofit into an existing Wendel® 415HIC Recessed Housing without re-wiring. Dimmer replacement and or dimmer re-programming may be required. The existing Wendel® 415HIC Recessed Housing provides the Retrofit LED Framing Projector with rotational adjustment using existing lockable fastening systems. The existing Ceiling Trim is re-usable and not included in the retrofit kit.

The existing 415HIC Recessed Housing includes a field removable 12 Volt transformer connected electrically by disconnects. The field removed 12 Volt Transformer is replaced by a provided LED Driver electrically connected to the same disconnects.

The inseparable LM2 (2 wire) Lighting Modules include the LED Driver, LED Chip, proprietary optics and dual heat sink technology delivering optimum LED cooling. Lighting Modules are assembled with the Projector (Adapter Cone) to which variable beam spread Objective Lens Focus Tubes are positioned within to highlight subject of many sizes and distances.

A white high color rendering LED light was discriminately selected to enhance fine art. A shaped light mask framed to art accentuates focus. Precision ground lenses focus upon independently locking light masking shutters for a securely shaped Focused Light Border “FB” (standard). For our proprietary Fade In® Light Border specify “FI.”

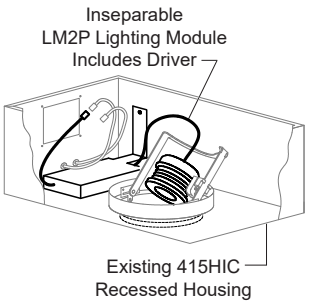


Patents: 9458991 B2 and 6,612,0761 B2

Wendelighting reserves the right to make changes without notice.

LM2P LIGHTING MODULE SPECIFICATIONS (CA T24-JA8)

Power:	120/277 VAC Input - 20 Watts
Driver/LED:	**LM2P** with **2790** Chip and Primary Optics JA8 Tested - 1300 Lumens @ 500mA (for tested life) - 67 Lumens/Watt (Estimated 1200 Lumens @ 450mA) JA8 Allowance on all LED Chip Options
Optics:	Proprietary
Luminaire:	Aluminum
Dimmer:	2 Wire Forward / Reverse Phase
Mounting:	Adjustable Locking Crossmember to Yoke
Rotation:	0° - 45° Vertical Tilt / 361° Horizontal Rotation
Listings:	- UL / CUL - Retrofit - Damp Location - Thermal Foldback Protection - California Title 24 Residential Lighting JA8 Recessed Tested Listing (See wendelighting.com/resources)



RECESSED OPTICAL PROJECTOR OPTIONS

RET - 415PL - LM __ __ - __ __ __ __ - __ __ - __ __ - __ __

RET — Retrofits Existing **Recessed 415HIC** Recessed Housing to a **LED Recessed Housing**

415PL — **Adapter Cone:** **Optical Framing Projector**

Lighting Module: (By Driver Type)

LM2P
(Standard)
Philips Xitanium 2 Wire Driver
Hybrid Forward / Reverse Phase Dimmable 2%
With ELV Dimming
120-277V In 450mA Out
Listed with CA Title 24 JA8

Contact Wendel for Availability of Lutron® Driver

LM2L
Lutron Hi-lume LTEA Tu-Wire Driver
Forward Phase Dimmable 1% 120V In 450mA Out
Use C·L Dimming or LTE Led Setting
LM Not Listed with CA Title 24 JA8

LED Chip Options (Chip Values @ 450mA:)

2798
2700K 98 CRI
1400 Lumens
R9 93

3098
(Standard Chip)
3000K 98 CRI
1500 Lumens
R9 88

2790
(Special Order)
2700K 90 CRI
1600 Lumens
R9 54

3090
(Special Order)
3000K 90 CRI
1700 Lumens
R9 60

Objective Lens Focus Tube (Beam Spread):

12°

25°

45°

60°

90°

Light Border:

FB
(Standard)
Focused
Light Border

FI
Fade in®
Light Border

Light Control Accessories:

SH
Extra Shutter (1)

MK
Light Mask Kit
(Fade In Required)

SC
Scissors

UV
Ultraviolet
Blocking Lens

1F
100 Kelvin Warming Filter
39mm Diameter

Color Filter Options: Additional 39mm Diameter Dichroic Color Filters Available Through Rosco

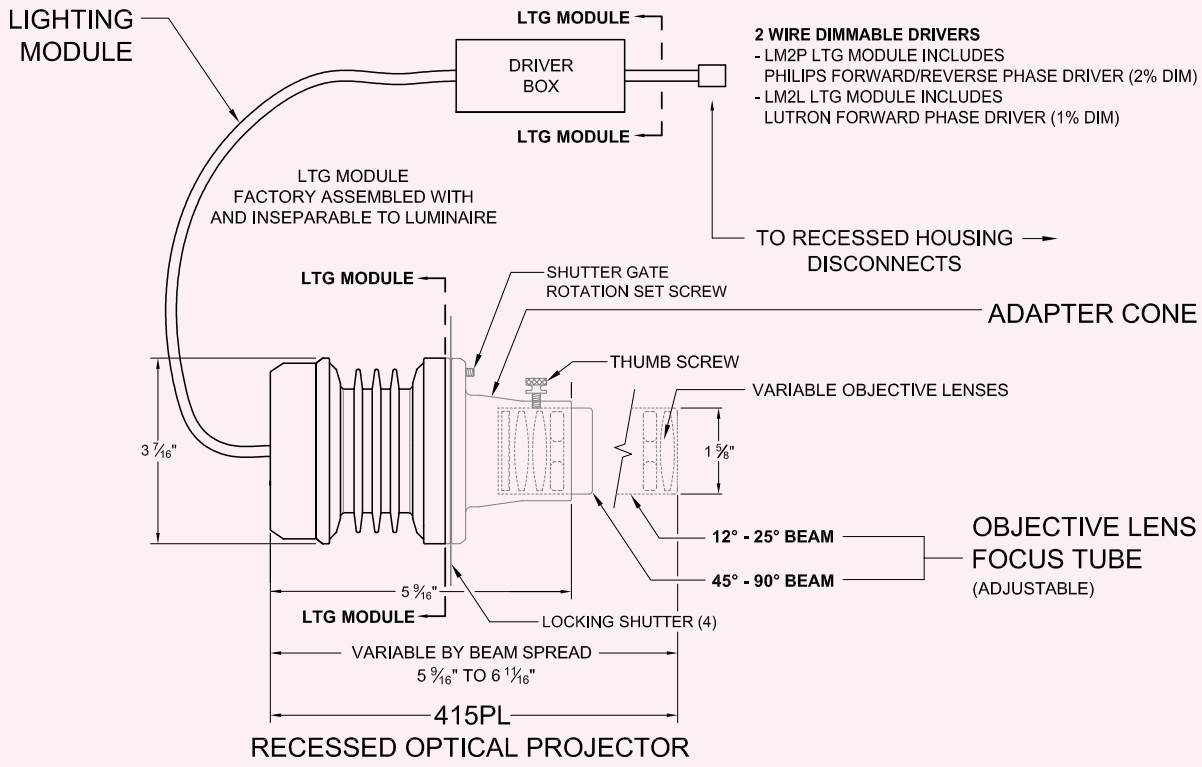
Philips and Xitanium are Trademarks of Signify

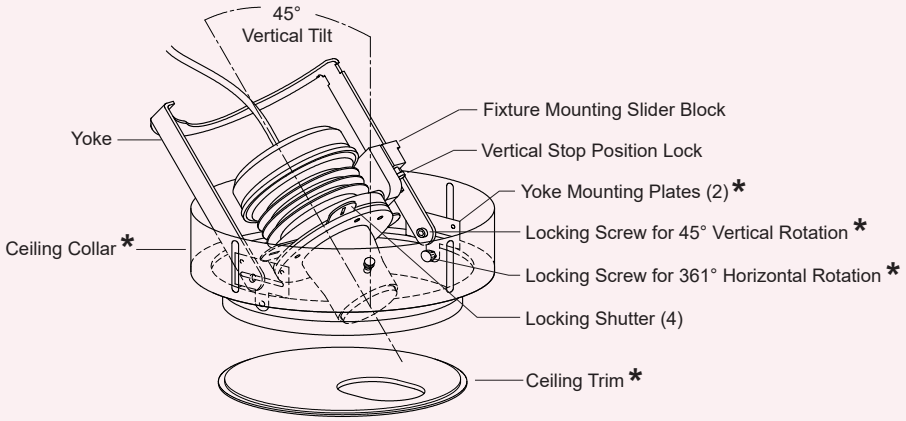
Lutron, Hi-lume, Tu-Wire, and EcoSystem are Trademarks of Lutron Electronics Co., Inc.

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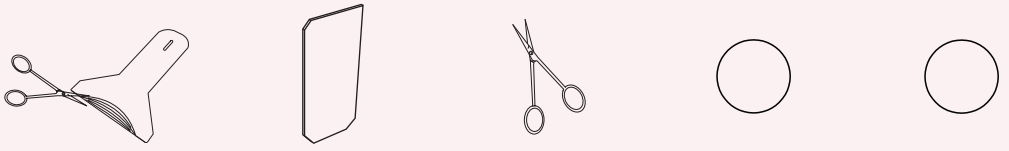
Wendel® RET- 415PL Recessed Optical Projector LED Retrofit





*Items Found in Existing 415HIC Housing and not Included in Retrofit Kit

LIGHT CONTROL ACCESSORIES



SH
FIELD CUTTABLE CURVED ETCH SHUTTER

LM
LIGHT MASK KIT
FOR MASKING GENERAL FORM OF NON-RECTILINEAR OBJECTS FADE IN BORDER REQUIRED

SC
SCISSORS

UV
ULTRAVIOLET BLOCKING LENS

1F
100 KELVIN WARMING FILTER

HOW TO SPECIFY
To specify, please visit *www.wendelighting.com/art-light-worksheets/* complete the appropriate Art Lighting Worksheet and forward the completed worksheet to our staff members at *info@wendelighting.com.*

WENDELIGHTING®

The name Wendelighting is a registered trademark to Jacksen International Ltd., Monrovia, California. The name encompasses Wendel® and Wenlux® as well as other types of Wendel/Wenlux lighting fixtures for both interior and exterior use.

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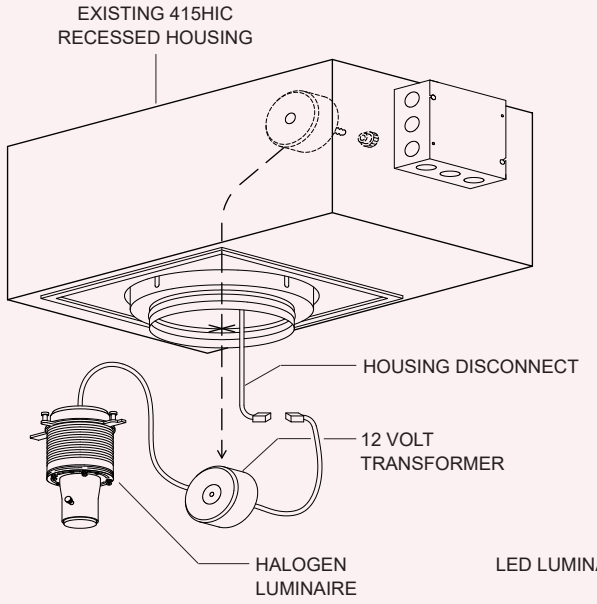
Wendel® RET- 415PL Recessed Optical Projector LED Retrofit

415HIC - RECESSED HOUSING LED RETROFIT

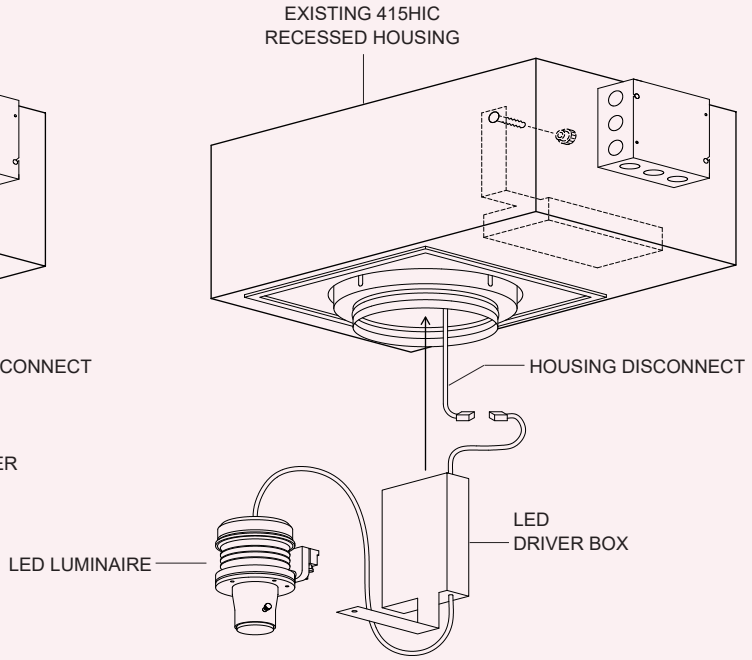
INSULATION CONTACT / AIR TIGHT

ATTIC AND BUILDING ENVELOPE INSTALLATION

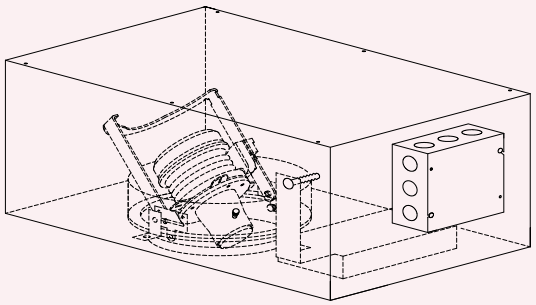
MINIMUM R38 INSULATION SURROUNDING AND COVERING RECESSED HOUSING REQUIRED FOR LED ASSEMBLY LIFE



REMOVE 12 VOLT TRANSFORMER AND HALOGEN LUMINAIRE



INSTALL LED DRIVER BOX AND LED LUMINAIRE



RECESSED LED RETROFIT

- THE LED RETROFIT IS DESIGNED FOR USE WITH AN EXISTING WENLUX 415HIC RECESSED HOUSING
- THE LED RETROFIT DOES NOT REQUIRE CEILING DAMAGE
- THE LED RETROFIT WORKS WITH EXISTING WIRING
- EXISTING DIMMER MIGHT NEED TO BE REPLACED AND OR DIMMER MODULE RE-PROGRAMMING MAY BE REQUIRED DEPENDING ON THE DIMMING CONTROLS USED

HOW TO SPECIFY

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