RETRO**FICIENT**

COMMERCIAL RETROFIT DOWNLIGHTS

prescolite
ABOVE AND BEYOND

RETROFICIENT

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RETRO**FICIENT**

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An industry first

To address the huge market potential for commercial retrofit projects, Prescolite has developed Retroficient, the industry's first universal listed commercial retrofit downlight.

Retroficient provides an easy, cost effective way to upgrade any competitive commercial housing to more energy efficient sources in existing spaces.

In fact, in less than five minutes you can install a product that is a great solution for retrofit projects, while adding unparalleled optical value to the application.

Available with LED and CFL options Retroficient offers:

- **Energy savings for building upgrades**
- **Award-winning Watts Per Square Foot optics**
- **Quick-Link socket cup for easy assembly**
- **Quick and easy installation that can be done from below the ceiling**
- **The best solution for green retrofit applications**

Additionally, its universal configuration is simple to specify as a better alternative to self-ballasted compact fluorescent lamps.

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ABOVE AND BEYOND

MODULAR DESIGN

HOUSING

BALLASTED WHIP ASSEMBLY

REFLECTOR
(ORDER SEPERATELY)

UNIVERSAL FLANGE RING

SLIDE BARS

FULLY ASSEMBLED

Modular Design

Retroficient features a modular design that is composed of individually distinct units that can be easily assembled. Additionally, the Quick-Link socket cup offers user-friendly installation benefits.

EXCLUSIVE 5-AXIS J-BOX

Patented 5-Axis J-Box
To accommodate for obstacles that might be above the ceiling, the orientation of Prescolite's patent-pending tooless j-box is very flexible. It includes 5 Axis points and an arm that allows for full range of movement.

RETROFICIENT

Retroficient is Fast and Simple to Install – In less than five minutes and 6 simple steps you can install a product that is a great solution for retrofit projects.

1 **Make Wire Connections**

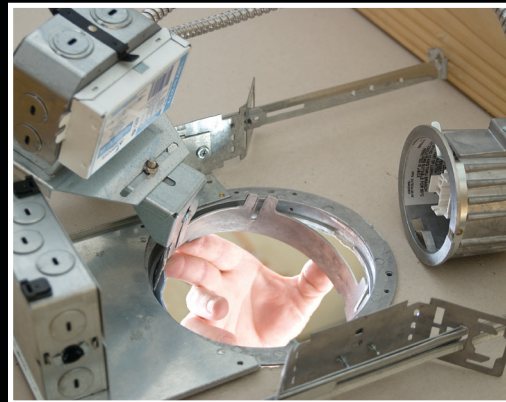**2** **Install Supply Wires To J-Box**

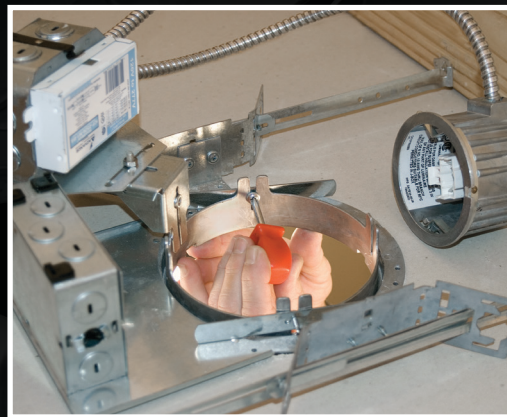**3** **Reinstall Ballast Cover Plate**

4 Mount Housing Assembly Into The Aperture

*Note: The SD housing option for small diameter apertures installs differently. See www.prescolite.com for installation instructions for this option.

5 Secure Housing into Ceiling with Slide Bars

To view a short installation video that proves just how quick and easy Retroficient is to install, download a barcode reader application to your smart phone – and then scan the QR code, shown at right.

6   **Install Lamp and Reflector**

RETROFICIENT

Designed for optimal life and lumen maintenance, Prescolite has added the RLF6LED and RLF8LED, a 6" and 8" commercial retrofit downlight with remote phosphor technology to it's Retroficient line.

RLF6LED/RLF8LED

Available in three different color temperatures, 3000K, 3500K and 4000K, the RLF6LED/RLF8LED also features the following benefits:

- Light Engine utilizes Philips Fortimo remote phosphor technology for controlled color consistency fixture to fixture
- Universal 120-277V high efficiency LED driver with 0-10V dimming standard
- Universal design is compatible with most commercial or architectural 6" & 8" Recessed Downlights
- Easy installation from below the ceiling. Perfect for retrofitting into drywall ceiling applications
- No bar hangers required
- Minimum 50,000 hour at 70% lumen maintenance system life, over 50 lumens/watt delivered
- Non-IC rated. Suitable for wet locations and through wiring
- Photometrics tested per IESNA-LM-79-2008 standards
- Luminaires are certified by a National Recognized Testing Lab (NRTL), either UL or CSA.

SEE REFLECTOR COLORS & FINISHES ON PAGE 10

Additionally, if critical temperatures are reached on the driver or LED module, an integrated thermal feedback loop will gradually reduce current to protect its system life.
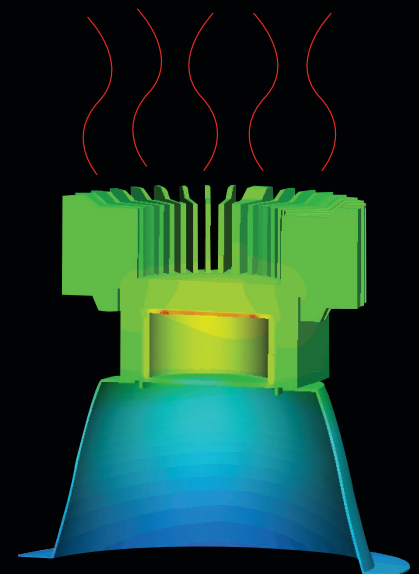
THERMAL MANAGEMENT

HIGH EFFICIENCY HEAT SINK

Designed to dissipate heat on three sides, this module level heat sink facilitates heat transfer away from the LEDs to external heat sink for natural convection.

The thermal management system keeps the module well within thermal specifications to ensure maximum lumen output and long life.

The thermal feedback loop capability of LiteFrame LED offers inherent protection for the electrical components of the driver and LED module. When ambient temperatures rise above limits (approximately 50° C) that might jeopardize the integrity of these components, the unit will dim down to levels to reduce its operating heat. This ensures the 50,000 hour life of the product at 40° C and allows for the 5 year warranty of the product.
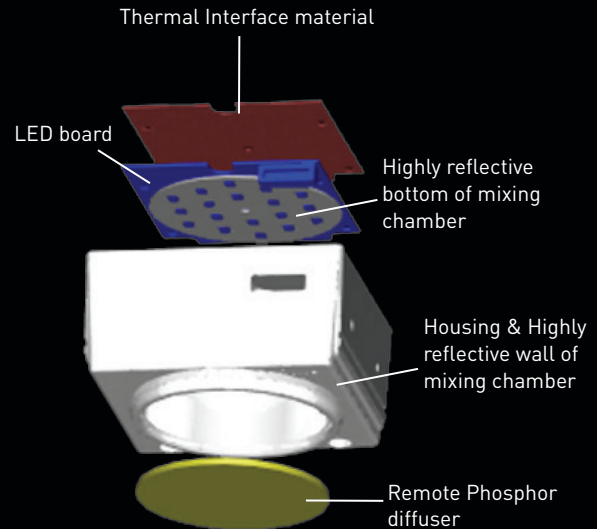
5 YEAR WARRANTY

ISO VIEW

REMOTE PHOSPHOR

Offering high-quality white light with high efficiencies, Philips Fortimo LED DLM module uses a plain PCB with royal blue LEDs and a remote phosphor film layer. The distance from the LED source to the phosphor film, lowers the heat exposure on the phosphor. This ensures the absence of color shift over time.

Offering consistency between fixtures – and consistent color over time – the refraction of the lens provides perfect uniformity. Custom optic features also include:

- CFL-like distribution and beam edge
- Superior brightness control
- Increased efficiency and wide spacing benefits

Additionally, the mixing chamber has higher efficacy due to larger portion of lumens exiting the diode and aids in color distribution and uniformity.

Thermal Interface material

LED board

Highly reflective bottom of mixing chamber

Housing & Highly reflective wall of mixing chamber

Remote Phosphor diffuser

LED MODULE

FORTIMO
by **PHILIPS**

PHILIPS FORTIMO –
REMOTE PHOSPHOR TECHNOLOGY
LED modules use high brightness royal blue LEDs
White light achieved when illuminating remote lens with phosphor film layer
Remote location of lens exposes phosphor to less heat, increasing life and color quality
Offers increased efficiency and better uniformity and color consistency
Less susceptible to heat degradation than phosphor applied directly on the chip

RETRO**FICIENT**

Comply with industry standards with Watts Per Square Foot Optics

With new, more aggressive mandates for energy conservation in existing facilities, as well as an increased emphasis on the importance of energy-efficient lighting sources, Prescolite's Retroficient products can be a great fit to meet requirements for:

- ARRA federal stimulus dollars
- LEED certified projects
- ASHRAE
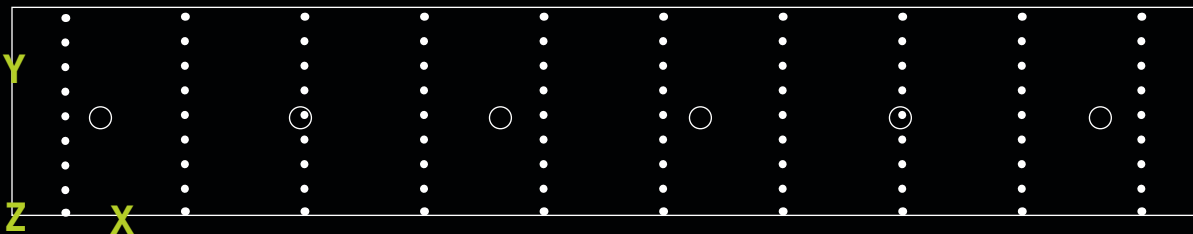- California Title 24

W/FT² OPTICS

WATTS PER SQUARE FOOT OPTICS

The Retroficient collection uses Prescolite's exclusive Watts Per Square Foot Optics reflectors for use with compact fluorescent sources, which feature more lumens per watt, high fixture efficacies, and energy-saving benefits

- UNIFORMITY
- WIDE SPACING
- HIGH EFFICIENCY
- HIGH FIXTURE EFFICACY
- 60 DEGREE CUTOFF
- BRIGHTNESS CONTROL
- SHALLOW OVERALL HEIGHT
- STOCKED FOR IMMEDIATE SHIPMENT

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Corridor Retrofit

65W BR30 to WFT2 Optics   40' X 6' X 9'; 80/50/20 refl   6 downlights

65W BR30	W/FT² (6" 32W V)	W/FT² (6" 26W V)
Avg. 16.1 fc	Avg. 22.7 fc	Avg. 18.9 fc
Watts 390	Watts 198	Watts 166
W/FT² 1.6	W/FT² 0.8	W/FT² 0.7

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- No bar hangers required
- Minimum 50,000 hour at 70% lumen maintenance system life, over 50 lumens/watt delivered
- Non-IC rated. Suitable for wet locations and through wiring
- Photometrics tested per IESNA-LM-79-2008 standards
- Luminaires are certified by a National Recognized Testing Lab (NRTL), either UL or CSA.

RLF6LED/RLF8LED CATALOG LOGIC

SPECIFICATION INFORMATION

ORDERING EXAMPLE: RLF6LED 6LFLED530K

HOUSING	LED	FINISH	REFLECTORS	ACCESSORIES

RLF6LED — 6LFLED5 — 30K

HOUSING

RLF6LED
6" High Efficacy LED Housing with 0-10V Dimming to 10%

RLF8LED
8" High Efficacy LED Housing with 0-10V Dimming to 10%

VOLTAGE

BLANK
120V-277V

HOUSING OPTIONS

SD[1]
Small Diameter

TRIM

6LFLED5[3]
6" Open Reflector/Light Engine Assembly, Nominal 18 watt 1100 lumen module

6LFLED7[4]
6" Open Reflector/Light Engine Assembly, Nominal 34 watt and 2000 lumen module

8LFLED5[3]
8" Open Reflector/Light Engine Assembly, Nominal 18 watt and 1100 lumen module

8LFLED7[4]
8" Open Reflector/Light Engine Assembly, Nominal 34 watt and 2000 lumen module

LED COLOR TEMP

30K
3000 Kelvin

35K
3500 Kelvin

40K
4000 Kelvin

REFLECTOR FINISH

Blank
Alzak Semi-Diffuse

REFLECTOR COLOR

Blank
Clear Alzak

CG
Champagne Gold Alzak

BL
Black Alzak

WE
Wheat Alzak

LW
Light Wheat Alzak

PW
Pewter Alzak

WH[2]
White Paint

REFLECTOR OPTIONS

WT
White Trim

WF[1]
Wide Flange

ACCESSORIES

RWD6[1]
Retrofit Wide Diameter Housing Kit (6")

RWD8[1]
Retrofit Wide Diameter Housing Kit (8")

LFSC6
6" reflector screw cover

LFSC8
8" reflector screw cover

LG1S
Dual-Lite 100 VA Surface Mount LiteGear Emergency Lighting Inverter

LG1R
Dual-Lite 100 VA recessed Mount LiteGear Emergency Lighting inverter

LG1T
Dual-Lite 100 VA Recessed Ceiling T-Grid Mount LiteGear Emergency Lighting Inverter

LG2S
Dual-Lite 250 VA SUrface Mount LiteGear Emergency Lighting Inverter

HOUSING COMPATIBILITY GUIDE

Ordering Guidelines	6 INCH		8 INCH	
	MIN	MAX	MIN	MAX
Requires SD Housing Option	5-15/16	6-1/8	7-15/16	8-1/8
All Standard Housings	6-1/8	6-1/2	8-1/8	8-3/4
Requires RWD Kit Accessory & WF Reflector Option	6-1/2	6-7/8	8-3/4	9-1/8

Dimensions shown are for the diameter of the frame flange at it's narrowest point

NOTES

[1]See housing capability guide for hole diameter compatibility on page 2
[2]Requires WT option
[3]Philips Fortimo 1100Lm LED module
[4]Philips Fortimo 2000Lm LED module
*See spec sheet or www.prescolite.com for LiteGear Compatibility Matrix

ALERA LIGHTING

ARCHITECTURAL AREA LIGHTING

BEACON PRODUCTS

COLUMBIA LIGHTING

COMPASS

DEVINE LIGHTING

HUBBELL CONTROL SOLUTIONS

HUBBELL INDUSTRIAL LIGHTING

HUBBELL OUTDOOR LIGHTING

KIM LIGHTING

KURT VERSEN

LITECONTROL

PRESCOLITE

PRECISION-PARAGON [P2]

PROGRESS LIGHTING

SPAULDING LIGHTING

SPORTSLITER SOLUTIONS

STERNER

WHITEWAY

prescolite

PR1070 7/16

HUBBELL

Hubbell Lighting, Inc.