Xceed LED & CFL

Lytecaster

PHILIPS
LIGHTOLIER

Philips Lightolier adds LED to Xceed.

Round or square

	LED		CFL		
Nominal lumens	750	1000	333	650	900
Lamping	n/a	n/a	13	18	26
Input Wattage	16	19.7	15	20	29
Efficiency (lm/w)	47	52	22	33	31
Energy Star	No	Yes	Yes	Yes	Yes
Title 24	No	Yes	Yes	Yes	Yes

Note: Energy Star and Title 24 are not available for wall wash or dual-tap ballast.

Architectural features

- Round or square aperture; 5 5/16"
- Energy-efficient LED & CFL options
- Shallow 3½" fixture depth
- Downlight, wall wash and sloped ceiling trims
- Standard wet location listed
- Energy Star & California Title 24 options

Installation convenience

- CFL option ships with 2700K or 3500K lamp
- LED 50,000 life (L70) based on IESNA-LM80-2008
- Twist and lock CFL lamp holder for easy replacement
- Offset aperture for near-joist installation

Performance

- 82 CRI LED option
- Integral glass diffusion lenses
- CFL dimming to 15%
- LED dimming to 10%

Features at a glance

White light LED board.

3 1/2" low profile height is ideal for restricted plenums.

Pivoting mechanism on frame allows for 90° adjustment of mounting bar.

Mixing chamber with specular reflector optimizes reflectivity and efficiency.

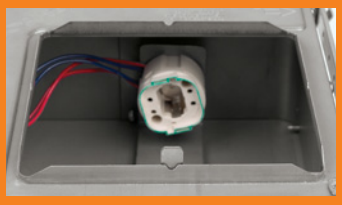
Dimming range

LED: 100% – 10% CFL: 100% – 15%
See specification sheet(s) for dimmer compatibility.

Warranty

5 year warranty covering all components.

CFL lamping details



Twist and Lock lamp holder to ensure easy relamping. (1) Triple Tube 4-pin base 2700K or 3500K Compact Fluorescent lamp included.

LED light engine

White light LED board designed to maximize efficacy and color consistency with mixing chamber.

Rolled metal prevents sharp edges.

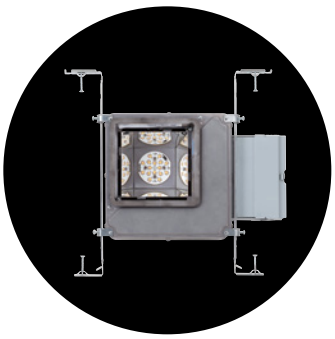
Insulated ceiling, AirSeal® ready housing.

Easily adaptable to suspended ceiling applications.

Innovative top/bottom junction access allows for easy wiring and installation.

Swivel-Lock Mounting Bars.

(Underside): Offset aperture hole allows for installation close to joists.



LED specific test data

Independent test data

LM-79 Electrical and Photometric Measurements of Solid-State Lighting Products

An IES-approved method to quantify the performance of the fixture's total luminous flux, luminous efficacy (l/w), luminous intensity (candelas) and chromaticity, CRI and color temperature.

This method specifies that products should be tested with absolute rather than relative photometry. Absolute photometry takes into account the performance of the LEDs as used in a particular fixture in it's production configuration. The impact of the fixture's orientation and thermal management is accounted for in this method.

LM-80 Measuring Lumen Maintenance of LED Light Sources

An IES-approved method to determine the lumen maintenance of LED light sources.

The LED manufacturers provide life ratings for individual LED's at specific drive currents and operating temperatures.

In turn, the luminaire manufacturer measures the drive current and temperature in their LED fixture. The data is crossed to estimate LED life in a fixture.

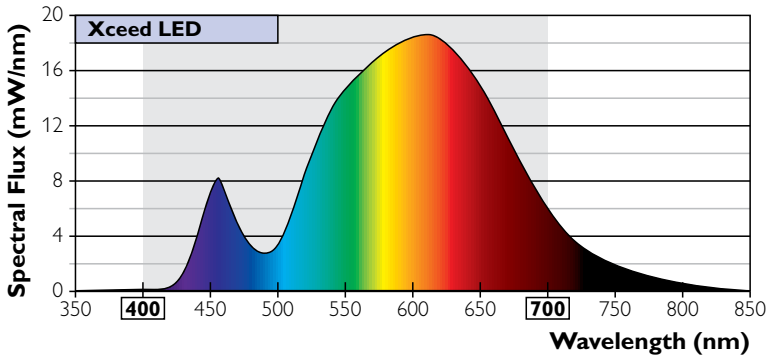
L70 is the life at which the fixture delivers 70% of initial light output.

Evaluating color rendering

Color performance and CRI

CRI presents some challenges as a definitive color evaluation tool and is considered by many in the industry to be an incomplete metric. Currently, it is still the only internationally agreed upon metric to measure color and is useful provided its limitations are understood. In consideration of our specifier's desire to go beyond CRI and evaluate the full color spectrum we are also providing the spectral power distribution of our LED and CFL Xceed options as well as those of the incandescent lamp.

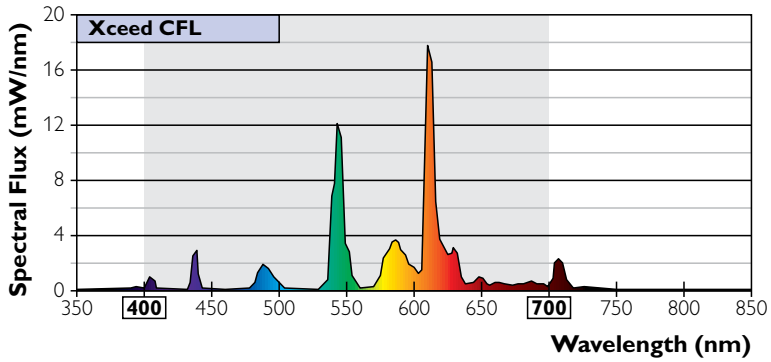
Color Advantages of Xceed LED



Xceed LED

Xceed LED's color spectrum is broader than Xceed CFL, and it renders more colors, more accurately than traditional compact fluorescent fixtures, including Xceed CFL.

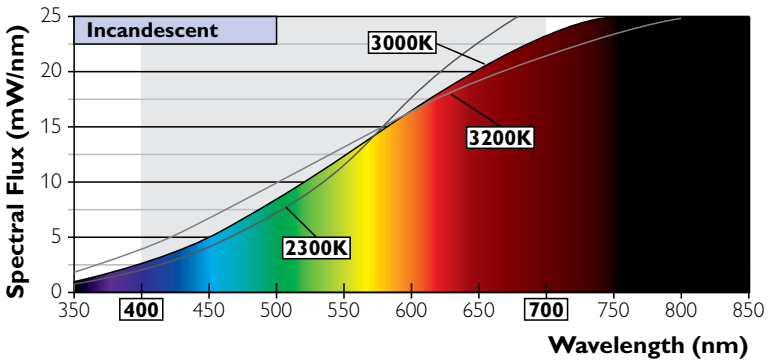
Xceed LED features an 82 CRI typical, 80 minimum.



Xceed CFL

Xceed CFL features the typical spectral distribution of the technology. While the CRI remains high, the spiked distribution shows the limitations of the color rendering ability of this lamp source.

Xceed CFL features an 82 CRI standard lamp.



Incandescent

The incandescent source is the lamp technology on which CRI is based. Thus, the color rendering index for an incandescent lamp is close to 100. The color spectrum is heavily weighted in the red portion, which limits color rendering of blue and other cooler colors.

Ordering guide

Round and square aperture

LED

Round Frame-in Kit*	Square Frame-in Kit*	Description	Input	Wattage
1050LRN06D1	1050LSQ06D1	IC AirSeal Frame-in Kit dimming	120 V	16 W
1050LRN09D1	1050LSQ09D1	IC AirSeal Frame-in Kit dimming	120 V	20 W

*Add "N" suffix for preset nail.
Remote step down transformer available for 277 V applications. Philips Lightolier catalog no. 7997.

Light Engine Round	Light Engine Square	Description	Input	Wattage	Lumens Delivered	Color Temp
1050LRN0627	1050LSQ0627	LED Light Engine	120 V	16 W	650	2700K
1050LRN0635	1050LSQ0635	LED Light Engine	120 V	16 W	750	3500K
1050LRN0927	1050LSQ0927	LED Light Engine	120 V	20 W	900	2700K
1050LRN0935	1050LSQ0935	LED Light Engine	120 V	20 W	1000	3500K

Reflector Trim Round	Reflector Trim Square	Description
1050LRNDL	1050LSQDL	Downlight reflector
1050LRNSLW	1050LSQSLW	Lensed wall wash reflector

Compact Fluorescent

Frame-in Kit* Round	Frame-in Kit* Square	Description	Input	Wattage	Lumens Delivered
1050RN13ES	1050SQ13ES	IC AirSeal Frame-in Kit	120 V	13W TTT (30W)	333
1050RN18ES	1050SQ18ES	IC AirSeal Frame-in Kit	120 V	18W TTT (41W)	650
1050RN26ES	1050SQ26ES	IC AirSeal Frame-in Kit	120 V	26W TTT (48W)	900
1050DRN26ES	1050DSQ26ES	IC AirSeal Frame-in Kit dimming	120 V	26W TTT (28W)	900
1050RN13CMU	1050SQ13CMU	Non-IC AirSeal Frame-in Kit	120/277 V	13W TTT (16W)	333
1050RN18CMU	1050SQ18CMU	Non-IC AirSeal Frame-in Kit	120/277 V	18W TTT (20W)	650
1050RN26CMU	1050SQ26CMU	Non-IC AirSeal Frame-in Kit	120/277 V	26W TTT (29W)	900

*Add "35" for 3500K CFL lamp, "N" suffix for preset nail.
ES denotes Energy Star.

Reflector Trim Round	Reflector Trim Square	Description
1050RNDL	1050SQDL	Downlight reflector
1050RNSLW	1050SQSLW	Lensed wall wash reflector
___	1050SQINFBW	Wall recessed

Round Aperture

Square Aperture

Aperture Options
Clear diffuse with white flange (CDW)
Clear diffuse with clear diffuse flange (CDP)
White baffle with white flange (WB)
White Splay with white flange (WC)
Warm diffuse with warm flange (WDP)*
Warm diffuse with white flange (WDW)*
*CLF trims only.

Lensed Indirect

1050SQINFBW
SQ Indirect Flush, White
CFL frame-in kits only.

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Philips Lightolier
631 Airport Road
Fall River, MA 02720
Phone (508) 679-8131
Fax (508) 674-4710
www.lightolier.com

3015 Rue Louis Amos
Lachine (Quebec) H8T 1C4
Phone (514) 636-0670
www.canlyte.com