breez™ Series

RECESSED INDIRECT LED LUMINAIRES

Frequently Asked Questions

PRODUCT

Q. What type of luminaire is the BREEZ™ Series LED?

A. Breez Series LED is an innovative recessed indirect LED luminaire that features an open gull-wing reflector with a highly-reflective coated surface. Breez delivers a volumetric distribution that blends well in the ceiling.

Q. How does the Breez Series LED luminaire work?

A. The optical system features an engineered reflector shape as well as a special highly-reflective coating that not only efficiently delivers light but also manages the exit angle of the light. The LED boards are shielded and secured in extruded aluminum frame sides for directional consistency. These elements along with other design details provide a minimal, unobtrusive installed appearance.

Q. What is the family nomenclature?

A. The Breez Series LED product uses 2BZL as the family designator. The remaining elements of the product nomenclature follow the same structure currently used for other LED products. Refer to Lithonia.com for specification sheets containing ordering information and nomenclature structure.

Q. Is Breez available in Fluorescent?

A. No. The Breez Series luminaire is specifically designed around the form factor and function of an LED source.

Q. Are there patents protecting the Breez Series design?

A. We have filed for several patents plus existing Acuity Brands' patents apply. Once new patents are issued, appropriate documentation will be updated to reflect patent numbers.

CONSTRUCTION

Q. Why is the end plate made from silver aluminum?

A. The alluminum material enhances the luminaire performance and eliminates shadow lines on the end plates. When illuminated, the alluminum surface reflects the white finish from surrounding surfaces.

Q. What is the overall depth of Breez Series LED?

A. Breez Series LED is only 3 5/8" deep. This low profile design should make it acceptable for most restricted plenum applications.

Q. How is Breez packaged from the factory?

A. Breez will be available in either unit or job pack configurations.

PERFORMANCE

Q. What is the CRI for the LED boards?

A. The CRI for the Breez Series LED boards is 82.

Q. What is the efficacy of the Breez Series LED luminaire?

A. Breez Series LED configurations deliver up to 110 LPW.

PRODUCTION/AVAILABILITY

Q. Where is Breez Series 2BZL produced?

A. Breez Series LED will be produced in Monterrey, MX and Conyers, GA.

Q. Will Breez Series LED be stocked?

A. Initially, we will not stock the Breez Series LED. We will revisit this issue after launch to determine what product and where it should be stocked.

Q. What is the lead time?

A. Initial production lead time is 10 days. We expect to reduce lead time on common configurations to 5 days.

CONFIGURATIONS / OPTIONS

Q. What sizes are available?

A. Breez Series LED is initially available in 2'x2' and 2'x4' configurations.

Q. Is surface mount available?

A. Surface-mount product will be available in the future.

Q. What are the options for lumen packages and LED color temps?

A. Lumen packages for 2'x2' are 2400, 3000 and 3400 lumens and for 2'x4', 4000, 4800 and 6000 lumens. CCT's available are 3000K, 3500K and 4000K.

Q. Is a US made product available?

A. Yes, include the USPOM nomenclature element to the product description and the fixtures will be produced domestically.

Continued...

LITHONIA LIGHTING®

Frequently Asked Questions *continued...*

CONFIGURATIONS / OPTIONS *continued...*

Q. Is 347V available?

A. Not initially. 347V requires a front-end transformer. Since additional certification testing will be required, 347V will be available in the Fall 2014.

Q. Is nLight® technology available?

A. Yes, both N80 and N100 will be available at launch.

Q. Is 0-10v dimming available?

A. Yes. Breez Series LED comes standard with a 0-10V digital eldoLED® driver that provides dimming to 1%.

Q. Is a battery pack for stand-alone emergency operation available?

A. The EL14L option will be available in the Summer 2014.

Q. Is Breez available in Relight?

A. Yes, both 2'x2' and 2'x4' Relight kits will be available in the Fall 2014.

Q. What type ceiling systems will accommodate Breez?

A. Breez is designed to fit in most grid ceiling applications. For installation in a hard ceiling, use of the DGA (drywall grid adaptor) option will be required.

SELLING

Q. Is Breez Series LED available through the TIP program?

A. Yes, visit the LLweb for details.

Q. Will product samples be available?

A. Yes, 2'x2' sample fixtures equipped with N100 nLight, a dimmer switch and cordset will be available in an easy-to-carry sample case. Additional selling tools will also be included in the sales sample kit. Contact your RVP, SSM or visit the LLweb for more information.

Q. Are there any comparable competitive products at this time?

A. Currently there are no direct competitive products in the market that embody the features, performance and technology utilized in the Breez Series LED.

INSTALLATION / MAINTENANCE / CLEANING

Q. Are there any special precautions required for installation?

A. Contractors should only handle the luminaire by the sides or ends during installation. Breez Series LED will be supplied with a plastic film covering the fixture face to help protect the reflective surface during installation.

Q. Can the reflector surface be cleaned?

A. Surface smudges can be cleaned using a mild (non-solvent) household detergent in water or windex and a soft cotton cloth or sponge.

GENERAL

Q. Who do I contact if I have a product issue?

A. Contact the FL Post Sales group at 1-800-858-7763 for any product issue.

Q. What is the warranty on Breez LED?

A. The warranty on the luminaire is 5 years and is supported by Acuity Brands. This includes the fixture, eldoLED driver and LED board assemblies.

DRIVERS

Frequently Asked Questions *continued...*

DRIVERS

Q. **What is the difference between the new driver options in the catalog number?**

A. You must specify the driver manufacturer, control type and dimming performance.

> **EZ1** the standard, is an **e**ldoLED ECOdrive, **Z**ero (0) to 10V input, that dims to **1**%.

> **EZB** is an optional **e**ldoLED SOLOdrive, **Z**ero (0) to 10V input, that dims to **b**lack.

> **EDB** is an optional **e**ldoLED SOLOdrive, **D**ali input, that dims to **b**lack.

> **EXB** is an optional **e**ldoLED POWERdrive, DM**X**/RDM input, that dims to **b**lack.
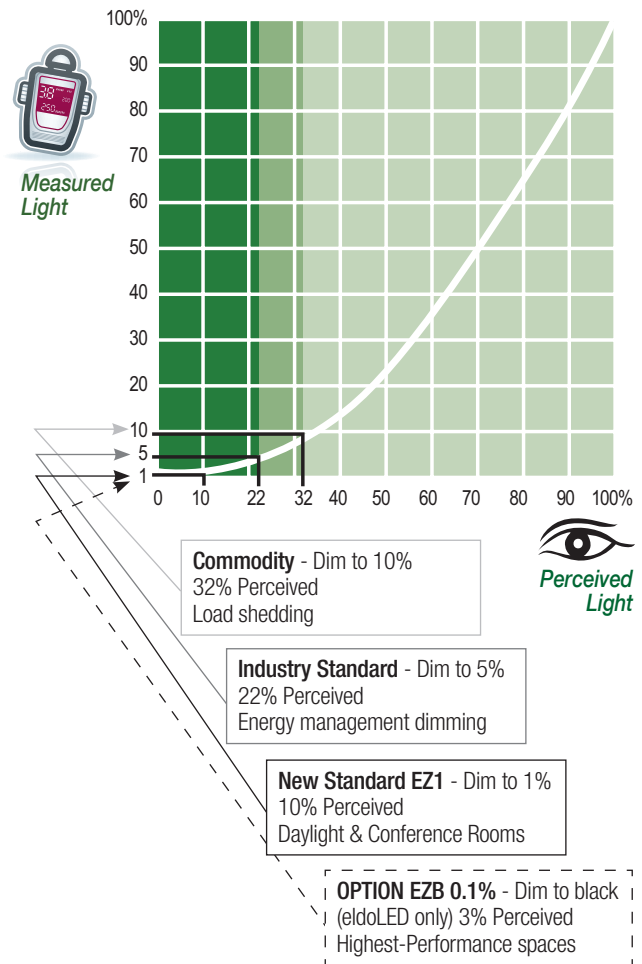
Q. **What are the advantages of the eldoLED drivers?**

A. eldoLED drivers provide the highest quality and performance in the industry, allowing LED dimming with the exceptional quality previously available only with incandescent and unparalleled electronic performance:

- Best resolution – continuous without any visible steps
- Best dimming range or contrast - down to 1% or even 0.1% then dim to black.
- Flicker-free - LED's driven from eldoLED drivers do not produce any perceivable, or visible stroboscopic flicker to assure the highest quality of light. (http://apps1.eere.energy.gov/buildings/publications/pdfs/ssl/poplawski_dimming_lightfair2012.pdf)
- Low inrush – eldoLED drivers operate well below the NEMA 410 standard for drivers and electronic ballasts, and 50W and below drivers have inrush so low it is difficult to measure. This low inrush, published on eldoLED tech sheets, does not create current surges that can damage controls, or spikes that can damage or disrupt other equipment on site. (http://en.wikipedia.org/wiki/Inrush_current)
- Low EMI – eldoLED drivers produce very little interference that could disrupt other equipment, eliminating the need for external filters (Ferrite beads) that are used in other designs to choke off noise. (http://en.wikipedia.org/wiki/Electromagnetic_interference)
- High Efficiency – 89% full load efficiency means that more LPW are delivered from the luminaire, advanced electronic off means fewer watts are consumed when fixture is electronically turned off (<0.5W)
- Output Accuracy – eldoLED drivers are programmable and deliver exactly the drive conditions to the LED's to meet the expected light level of the luminaire.

Q. **Why is Acuity Brands changing the LED dimming standard from 5% to 1%, and when would I choose dim to black in an application?**

A. The chart below shows the relationship between what the light-meter reads and what the eye perceives in terms of light levels.

Measured Light

Perceived Light

Commodity - Dim to 10%
32% Perceived
Load shedding

Industry Standard - Dim to 5%
22% Perceived
Energy management dimming

New Standard EZ1 - Dim to 1%
10% Perceived
Daylight & Conference Rooms

OPTION EZB 0.1% - Dim to black
(eldoLED only) 3% Perceived
Highest-Performance spaces

5% dimming with efficient electronic off, previously the LED standard in commercial indoor, is appropriate for many energy management and personal control applications. 5% dimming or 22% perceived light output falls short in conference rooms and can draw unwanted attention when turning off in daylight dimming applications.

Frequently Asked Questions *continued...*

1% dimming, the new standard, works even better for energy management, allowing lights to turn off without distraction when daylight dimming, and in addition can be used for creating an appropriately low light level when used in conference and meeting spaces, in addition these drivers can be wired for on/off operation, without dimming, from a wall switch.

0.1% then dim to black, a cost adder and eldoLED exclusive, that provides premium performance in applications such as restaurants, board rooms, theatres and houses of worship where incandescent dimming performance coupled to LED efficiency is essential. In addition to stable light output at 0.1% (incandescent by comparison is 0.06%) the source will then smoothly fade between this level and black, and more importantly will reverse between black and 0.1% for truly beautiful dimming performance.   This is a much more natural experience for the human eye. Please be aware this is not .9% better than the standard product it is 10 times lower, and 50 times lower than 5% dimming.

Q. **1% dimming has always been priced at a premium – is a deduct available to go to lower performance dimming?**

A. eldoLED ECOdrive delivers 1% dimming without a cost penalty, LED systems are continuously improving and delivering more, without paying more. Making it standard provides you with the ability to:

Meet customers high expectations for LED technology, providing seamless daylight dimming, and conference room light level adjustment – without the need to specify high cost premium products and create separate fixture types for these locations.

Lead with specified benefits, dimming range, inrush and flicker-free performance but not charge a premium verses lesser offerings from others when the job is specified at the performance level of others.

Offer One Company responsibility for a project outcome of superior performance, delivery and value. Luminaires, electronics and drivers are all designed, manufactured and supplied under the Acuity Brands umbrella.

Q. **Can the "EZ1" and "EZB" drivers work with nLight?**

A. Yes the "EZ1" interfaces with N100 and N80 options and provides power to the nLight network and auxiliary controls. The EZB can connect to the nLight network with N100 and N80 options, but network power needs to be provided from auxiliary nLight devices. Both can electronically connect to other nLight controlled fixtures but, of course, low end dimming range will be different.

Q. **Where can I get additional information about eldoLED?**

A. The eldoLED ECOdrive datasheet and suggested specification is available at http://www.acuitybrandslighting.com/library/ll/documents/specsheets/eldoled%20ecodrive%20datasheet_022814.pdf. SOLOdrive and POWERdrive technical information are found at http://www.eldoled.com/.   Specific questions can be addressed to nasales@eldoled.com. The OEM offering is represented by OEM Lighting Sales (http://www.oemlightingsales.com/contact.php) and Acuity sales channel management for OEM can be contacted at Philip.Lavee@AcuityBrands.com.

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