



CLASS PACK

Lighting System





Classroom Lighting - Customer Research

What Customers wanted was simple:

CLASS PACK

... Is the answer

Adequate Light on desks / whiteboard

Multiple Functions using simple controls

Lighting Power Density Code Compliance

First Costs within Budget

Reduced Energy & Maintenance Costs


- ✓ Meets IES and CHPS requirements
- ✓ Step-dim operation w/2 wall switches
- ✓ Power density of .74 W/ft²
- ✓ Lowers total installed cost
- ✓ Reduces energy up to 50%
and lamp usage by 70%

IESNA – Illuminating Engineering Society of North America

CHPS – Collaborative on high performance Schools



Class Pack Lighting System is...

-  Optimized Solution to Deliver Light for Today's Classroom
-  Material Handling and Installation - Made Easy
-  High-Performance, Energy-Saving 2-Lamp System
-  More Sustainable from Start to Finish



Class Pack Lighting System Delivers

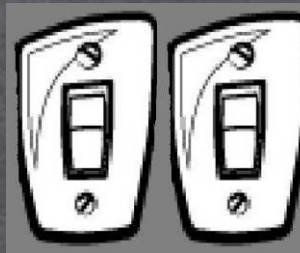
Optimized Lighting Solution for Today's Classroom

- Meets IESNA and CHPS lighting level standards
- Provides 3 light level settings plus off with 2 simple wall switches
 - Instructional Setting
 - AV Setting
 - Day lighting/Presentation Setting

Class Pack Lighting Settings

Instructional

61 fc horizontal level same as a typical 3-lamp lensed fixture



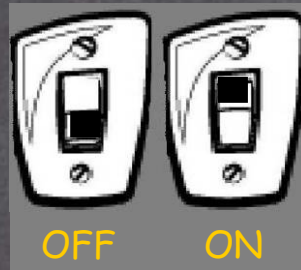
ON ON



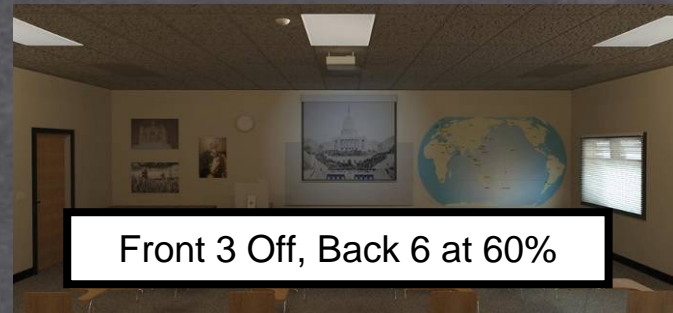
All Fixtures at 100%

AV

28 fc horizontal level at desk, and 5 fc vertical level at screen...Better performance the typical 3-lamp lensed fixture



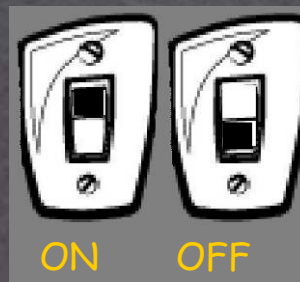
OFF ON



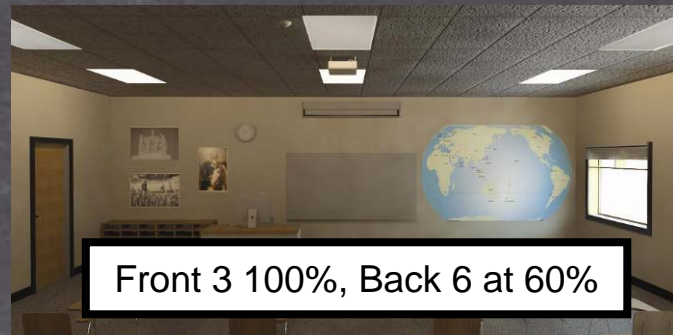
Front 3 Off, Back 6 at 60%

Day lighting/Presentation

Back 2 rows dimmed down to 60% to conserve energy during peak day light hours

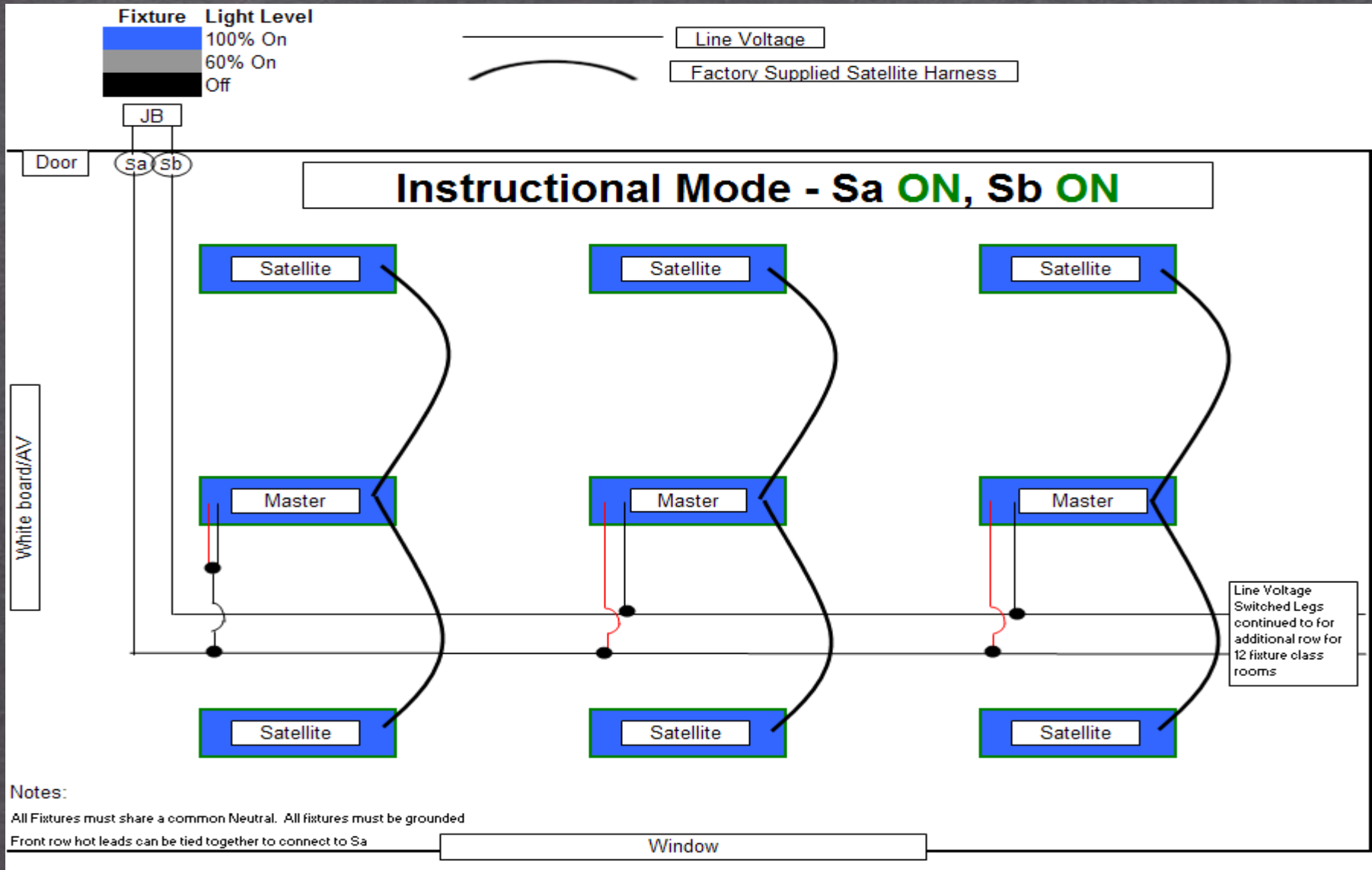


ON OFF

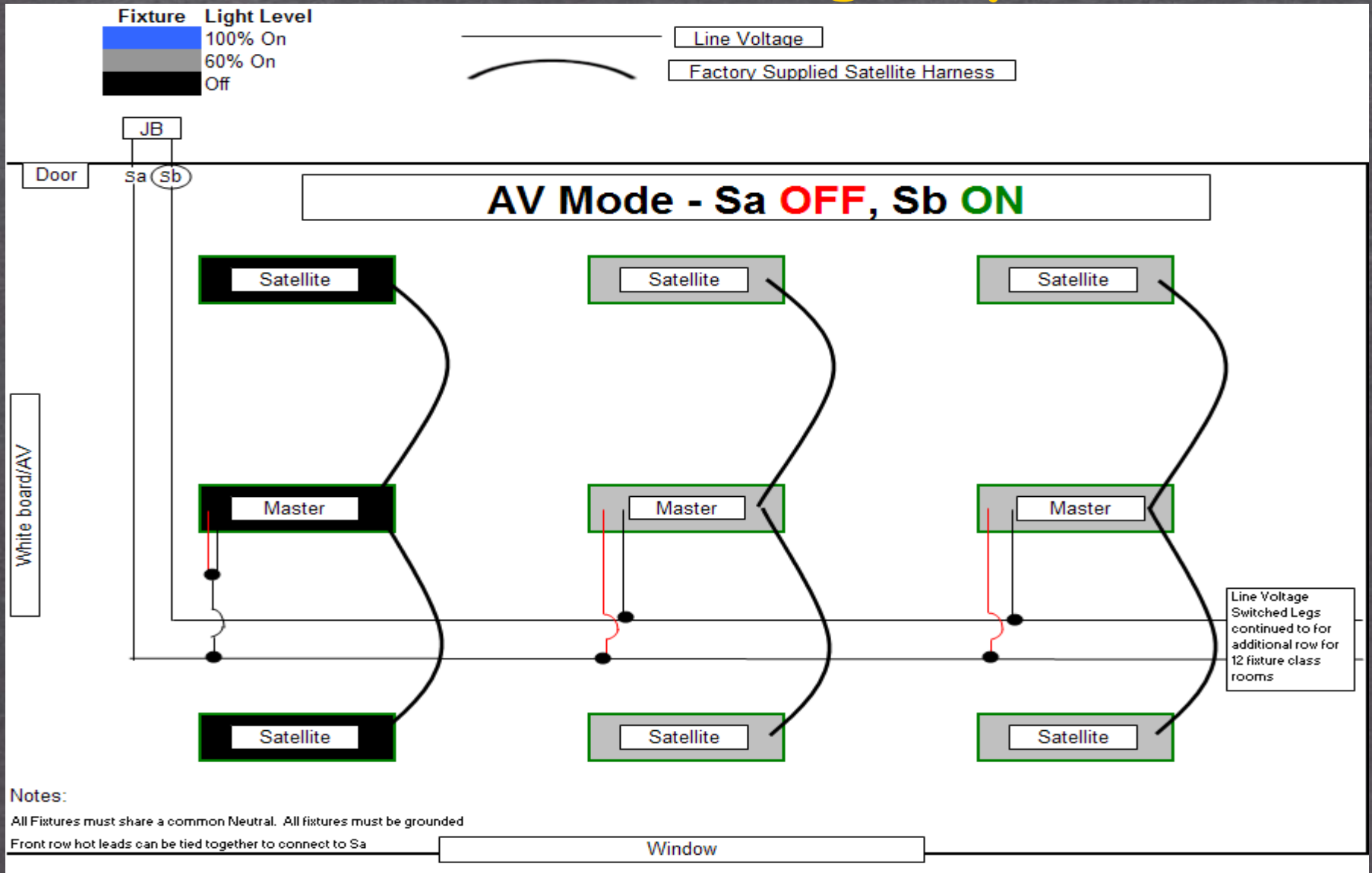


Front 3 100%, Back 6 at 60%

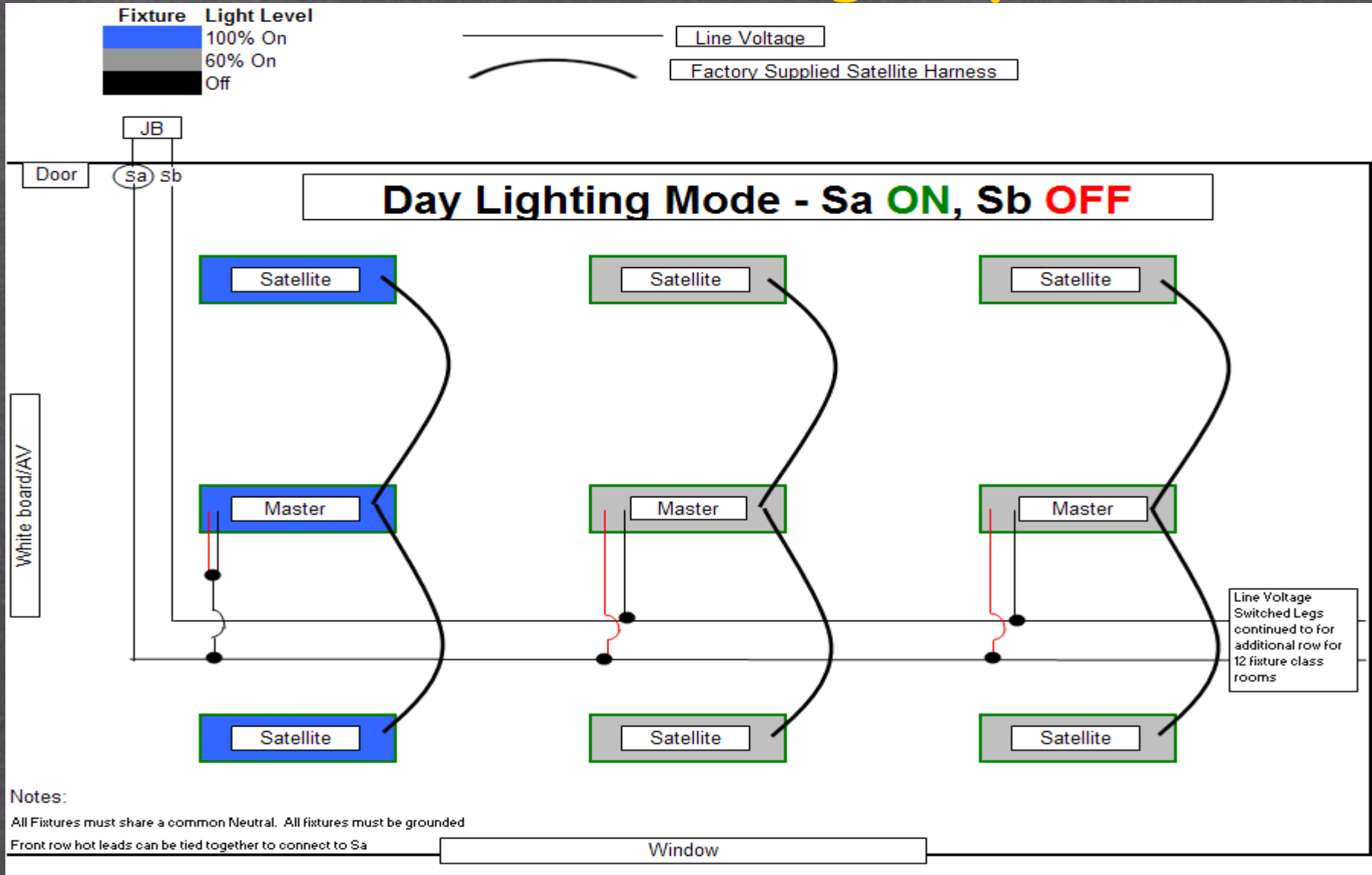
Class Pack Wiring Layout



Class Pack Wiring Layout



Class Pack Wiring Layout



Three options allow you to choose your look



SP8 Specification Lensed

School Standard

Durable A12 .125
or A19 .156 lens

85% Efficient



ES8 Louvered

White Louver

Crisp appearance

Durability of steel

86% Efficient



RT8 Volumetric

Volumetric Lighting

Progressive appearance

Improved Shielding

83% Efficient



Class Pack Lighting System Delivers

Reduced Installation Cost

- Easier material handling
- Minimized installation labor
- Reduced installation material costs

Class Pack Lighting System Material Handling - MADE EASY!



- From Delivery truck to classroom without unpacking and repacking
 - CP9 for 9 fixture classrooms
 - CP12 for 12 fixture classrooms
- Job pack minimizes time and waste
 - no sorting, counting or unpacking.
- Minimizes damage from handling
- 30" wide pallet moves easily through doorways
- Unique cartoning allows fixtures stand in place until ready to install

Typically more than half of contractors labor is in the pre-installation phase!

Class Pack Lighting System

(2) GE 3 Lamp High Ballast Factor Step Dim Ballasts

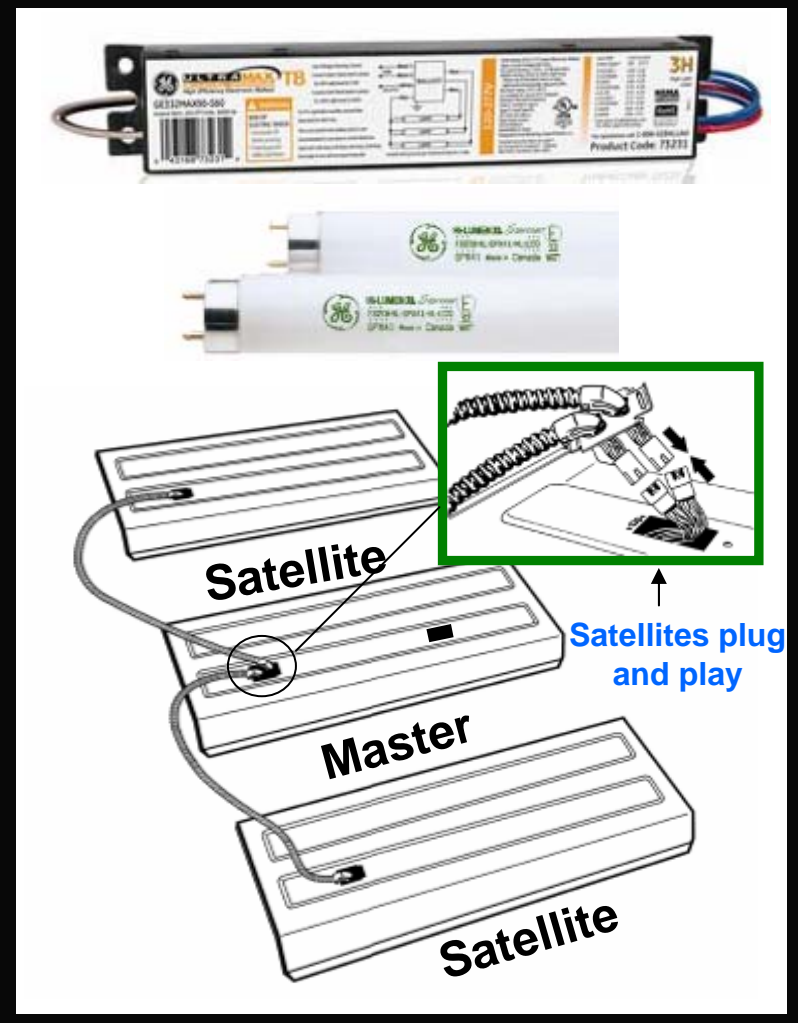


(6) GE F32 "Super T8" Lamps



Class Pack's Innovative Labor Saving Tandem Wiring

- Only 1 connection to power per 3 fixtures
- Satellites plug and play with prewired connectors





Class Pack Lighting System Delivers

Budget Conscious Operating Costs

- Energy cost savings and easy code compliance with low installed Watts/Square Foot
- Reduced lighting system maintenance
- Better Warranty



Class Pack Reduces Operating Costs

Energy Cost Savings*

- $(144W) \times 450 \times 2400 \text{ hrs/yr} \times \$0.10/\text{kwh} = \$15,500/\text{yr}$
- $(74W) \times 450 \times 2400 \text{ hrs/yr} \times \$0.10/\text{kwh} = \$8,000/\text{yr}$



Lamp Maintenance Annualized*

- $450 \times 4 \text{ lamps} @ 2400 \text{ hrs/yr} @ 20,000 \text{ hr life} = 216 \text{ lamps/yr}$
- $450 \times 2 \text{ lamps} @ 2400 \text{ hrs/yr} @ 36,000 \text{ hr life} = 60 \text{ lamps/yr}$



Better lamp and ballast warranty

- One for one replacement for any failed lamps or ballasts
- Premium warranty for long life lamps

Utility Rebate eligibility in many areas

- NEMA Premium ballasts
- CEE Qualified lamps

*(per 50 classrooms @ 9 fixtures each)

Lamp and Ballast System Warranty - Standard



Fluorescent Programmed Start System Limited Warranty for Schools

GE Consumer & Industrial
Lighting

GE Consumer & Industrial, Lighting ("GE") is pleased to provide the following limited warranty covering the GE fluorescent lamps listed below and GE linear fluorescent electronic ballasts purchased directly from GE or as part of lighting fixture manufactured by a GE authorized OEM when used in educational facilities operating less than 2,000 hours per year.

- **3** year lamp warranty w/ IS ballast (XL/HL Super T8 lamp)
- **4** year lamp warranty w/ PS ballast (XL/HL Super T8 lamp)
- **5** year ballast warranty
 - **36** hour replacement ballasts delivery - **800** # for warranty support



Lamps &
ballasts
provided **FREE**
during the
warranty
period

UltraMax Instant Start Dimming Warranty limitations:

- * No limitation on high to low switching cycles
- * Use with occupancy sensors is limited < 5 on/off cycles per day or 3000 total
- * 5 on/off per day x 5 days/wk x 40 weeks/year x 3 years = Max 3000 on/off cycles during warranty period




UltraStart Programmed Start Warranty limitations:

- Recommended minimum on/off cycles 15 minutes
- See GE Warranty Statement for exact details.



Class Pack Lighting System Delivers

 A Better Environment Inside and Out

-  Reduced initial packaging waste
-  1700 Fewer lamps discarded over 20 year life
-  Fewer ballasts disposed over life

Acuity Brands Lighting is proud to support sustainable business practices & organizations



Class Pack - Your Solution for Classroom Lighting

- High Performance Lighting for Today's Classroom
 - Quantity & Quality of Light / Simple to Operate Controls
- Reduced installation cost
 - Smarter Packaging, Fewer connections, LST quick connect whips
- Budget Conscious Operating costs
 - Low Watts/Sq Ft, Fewer longer life components, Better Warranty and Utility Rebates in some areas
- Better Environment - Inside and Out
 - Energy / Waste Stream / Reduction of Hazardous Substances



Questions?



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