

## A-HBA SERIES

### T5 HIGH BAY LUMINAIRE



**Housing:** 22GA steel.

**Finish:** Baked white enamel, galvanized or post powdercoat steel.

**Construction:** CNC formed and mechanically joined.

**Options:** 11GA wireguard, prismatic or clear lens.

SPEC	NOM.	DESCRIPTION
Finish	P G W	Powdercoat gloss white Galvanized Baked white enamel
Dimension	24	Nominal 20" wide x 48" long
Lamping	6	<b>T5 = 54W or 28W per lamp</b> <b>Lamps are not included unless otherwise noted</b> (6) lamps in cross section
Ballast	S5 H5 DS DH	Standard Electronic T5 28W High Output Electronic T5 54W Dimming Standard Electronic T5 28W Dimming High Output Electronic T5 54W <i>Specify type &amp; voltage if dimming</i>
Lens	--- WG AC PR PC	Open - no designation needed 11 Gauge galvanized wireguard Clear acrylic lens .090" thick A12 prismatic acrylic .110" thick Clear polycarbonate lens .090" thick

**Mounting:** Suspended or surface mounted.

**Distribution:** Narrow to medium. Replacement for HID high bay.

**Electrical:** Electrical: Electronic Standard or High output options;  
Program Start Ballast is factory standard; <10% THD; Inherent thermal protection; Dimming and Emergency available.

**Labels:** UL/CUL listed. Damp Location.

SPEC	NOM.	DESCRIPTION
Voltage	U H 1B 2B	Universal volt 120-277 (factory standard) 347-480 volt Emergency Battery Back-up 120v Emergency Battery Back-up 277v (T5 std = 500 lumens or T5HO = 825 lumens)
Reflector	E W	Enhanced Aluminum 95% reflective White Aluminum 90%+ reflective
Mounting	--- --- SP C Y	Surface Mounted (standard) - no designation needed Chain Suspended (by others) - no designation needed 2.5" Single Point Box (stem mount) 8ft Powercord, black 18//3 wire Y-fit Grippler® Toggle 12" Y x 8' long Shows as separate line item on order: part# H-Y12"HNGR-10'
Options	O A R AB L	360° degree occupancy sensor Aisle occupancy sensor Relay A/B Switched Lamps Installed (shows as separate line item on order)

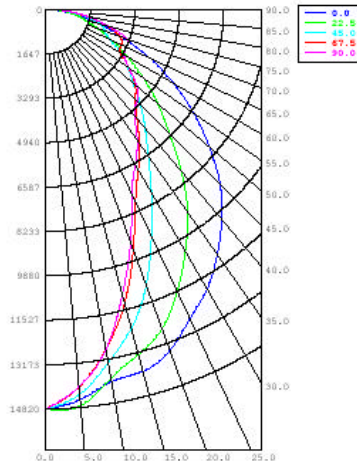
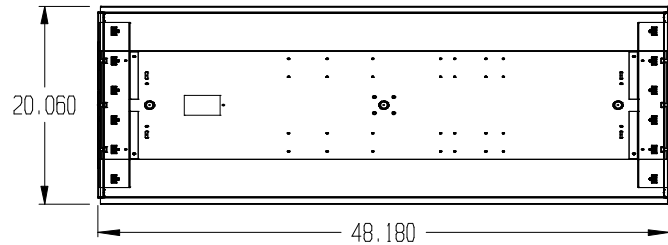
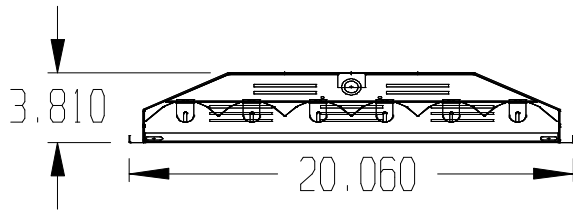
#### ORDERING NOMENCLATURE GUIDE

**Standard Fixture: A-HBAW246H5UE**

Catalog # for a HBA Type Fixture - Baked White Enamel - Nominal 2 ft x 4 ft Long - 6 Lamps in cross section - High Output T5 Electronic Ballast - Open/No Lens - Universal Voltage - Enhanced Reflector - Standard Surface Mount - No Options.

Amerillum Product	Series	Finish	Dimension	Lamping	Ballast	Lens	Voltage	Reflector	Mounting	Options
<b>A -</b>	<b>HBA</b>		<b>24</b>	<b>6</b>						

**A-HBA SERIES  
T5 HIGH BAY LUMINAIRE**



**PRODUCT NUMBER = A-HBAW246H5UE**

**FIXTURE EFFICIENCY = 93.9%**

**S.M.H. = .75**

**WATTAGE = 351W (BASED ON 277V)**

**RCR TABLE AVAILABLE**

**IES PHOTOMETRIC FILE AVAILABLE**

**SPECIFICATION CHARACTERISTICS**

- **Narrow to Medium Distribution Utilizing Energy Efficient Components Throughout**
- **Highly Efficient Luminaire – Over 93%**
- **Replaces 400 - 750 Watt HID High Bay**
- **Instant On, Long Life, Lower Energy Consumption, No Color Shift**
- **Uniform Illumination**
- **Vented for Optimum Lamp Performance**
- **Quick-Wire Access Plate**
- **Dimming, Emergency, Occupancy Sensor or Light Level Sensor Options**
- **Multiple Mounting Options: Surface Mount, Chain or Gripple Ready, Single Point Mounting Box or Cord**
- **Multiple Lens Options: Wire Guard, Prismatic, Clear Acrylic, or Clear Polycarbonate Lens**
- **Multiple Finish Options: Gloss White Post Powdercoated, Galvanized or Baked White Enamel Steel**
- **Short Lead Times**

## A-EH8 SERIES

### T8 ECONOMY HIGH BAY LUMINAIRE



**Housing:** 22GA steel.

**Finish:** Baked white enamel, galvanized or post powdercoat steel.

**Construction:** CNC formed and mechanically joined.

**Options:** 11GA wireguard, prismatic or clear lens.

SPEC	NOM.	DESCRIPTION
Finish	P G W	Powdercoat gloss white Galvanized Baked white enamel
Dimension	34	Nominal 30" wide x 48" long
Lamping	8	<b>T8 = 32W per lamp</b> <b>Lamps are not included unless otherwise noted</b> (8) lamps in cross section
Ballast	S L H D P SP HP	Standard Electronic T8 Low Output Electronic T8 High Output Electronic T8 Electronic Dimming T8 - specify type & voltage Program Start Electronic T8 Standard Output/Program Start Combination T8 High Output/Program Start Combination T8
Lens	--- WG AC PR PC	Open - no designation needed 11 Gauge galvanized wireguard Clear acrylic lens .090" thick A12 prismatic acrylic .110" thick Clear polycarbonate lens .090" thick

**Mounting:** Suspended or surface mounted.

**Distribution:** Narrow to medium. Replacement for HID high bay.

**Electrical:** Electronic Low, Standard or High output options; Instant Start is factory standard; <10% THD; Inherent thermal protection; Dimming and Emergency available.

**Labels:** UL/CUL listed. Damp Location.

SPEC	NOM.	DESCRIPTION
Voltage	U H 1B 1B	Universal volt 120-277 (factory standard) 347-480 volt Emergency Battery Back-up 120v Emergency Battery Back-up 277v (T8 = 500 lumens)
Reflector	E W	Enhanced Aluminum 95% reflective White Aluminum 90%+ reflective
Mounting	--- --- SP C Y	Surface Mounted (standard) - no designation needed Chain Suspended (by others) - no designation needed 2.5" Single Point Box (stem mount) 8ft Powercord, black 18/3 wire Y-fit Gripple® Toggle 6" Y x 8' long Shows as separate line item on order: part# H-Y6"HNGR-10'
Options	O A R AB L	360° degree occupancy sensor Aisle occupancy sensor Relay A/B Switched Lamps Installed (shows as separate line item on order)

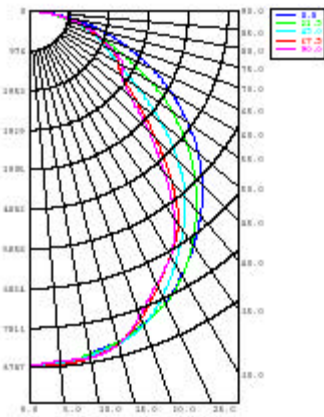
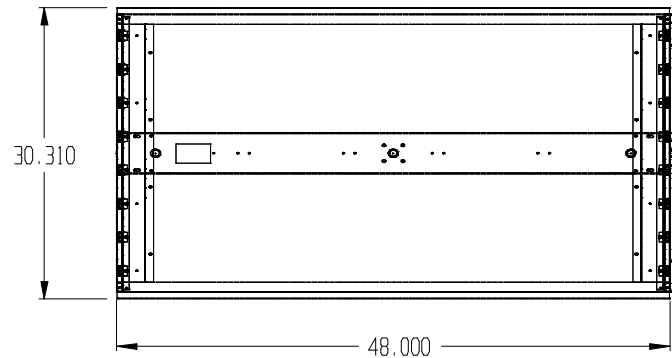
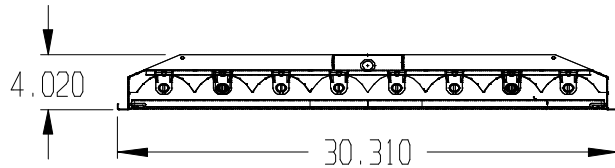
#### ORDERING NOMENCLATURE GUIDE

**Standard Fixture: A-EH8W348HUE**

Catalog # for a EH8 Type Fixture - Baked White Enamel - Nominal 3 ft x 4 ft Long - 8 Lamps in cross section - High Output T8 Electronic Ballast - Open/No Lens - Universal Voltage - Enhanced Reflector - Standard Surface Mount - No Options.

Amerillum Product	Series	Finish	Dimension	Lamping	Ballast	Lens	Voltage	Reflector	Mounting	Options
<b>A -</b>	<b>EH8</b>		<b>34</b>	<b>8</b>						

**A-EH8 SERIES  
T8 ECONOMY HIGH BAY LUMINAIRE**



**A-EH8 SERIES**  
**T8 ECONOMY HIGH BAY LUMINAIRE**



**Housing:** 22GA steel.

**Finish:** Baked white enamel, galvanized or post powdercoat steel.

**Construction:** CNC formed and mechanically joined.

**Options:** 11GA wireguard, prismatic or clear lens.

SPEC	NOM.	DESCRIPTION
Finish	P G W	Powdercoat gloss white Galvanized Baked white enamel
Dimension	24	Nominal 23" wide x 48" long
Lamping	4 6	<b>T8 = 32W per lamp</b> <b>Lamps are not included unless otherwise noted</b> (4) lamps in cross section (6) lamps in cross section
Ballast	S L H D P SP HP	Standard Electronic T8 Low Output Electronic T8 High Output Electronic T8 Electronic Dimming T8 - specify type & voltage Program Start Electronic T8 Standard Output/Program Start Combination T8 High Output/Program Start Combination T8
Lens	--- WG AC PR PC	Open - no designation needed 11 Gauge galvanized wireguard Clear acrylic lens .090" thick A12 prismatic acrylic .110" thick Clear polycarbonate lens .090" thick

**Mounting:** Suspended or surface mount.

**Distribution:** Narrow to medium. Replacement for HID high bay.

**Electrical:** Electronic Low, Standard or High output options; Instant Start is factory standard; <10% THD; Inherent thermal protection; Dimming and Emergency available.

**Labels:** UL/CUL listed. Damp Location.

SPEC	NOM.	DESCRIPTION
Voltage	U H 1B 2B	Universal volt 120-277 (factory standard) 347-480 volt Emergency Battery Back-up 120v Emergency Battery Back-up 277v (T8 = 500 lumens)
Reflector	E W	Enhanced Aluminum 95% reflective White Aluminum 90%+ reflective
Mounting	--- --- SP C Y	Surface Mounted (standard) - no designation needed Chain Suspended (by others) - no designation needed 2.5" Single Point Box (stem mount) 8ft Powercord, black 18/3 wire Y-fit Grippler® Toggle 6" Y x 8' long Shows as separate line item on order: part# H-Y6"HNGR-10'
Options	O A R AB L	360° degree occupancy sensor Aisle occupancy sensor Relay A/B Switched Lamps Installed (shows as separate line item on order)

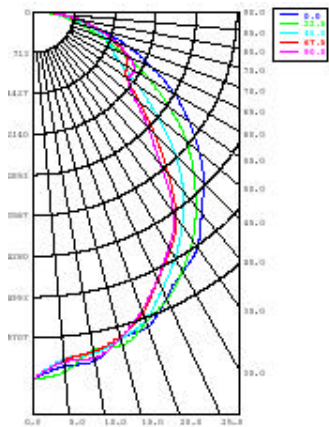
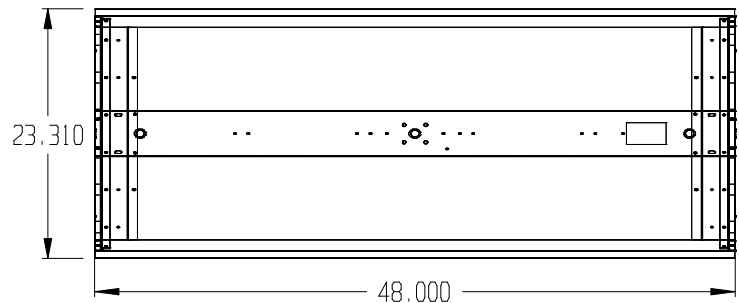
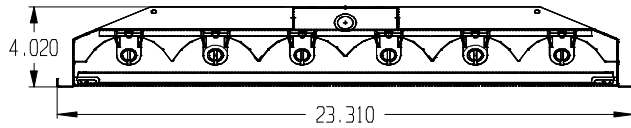
**ORDERING NOMENCLATURE GUIDE**

**Standard Fixture: A-EH8W246HUE**

Catalog # for a EH8 Type Fixture - Baked White Enamel - Nominal 2 ft x 4 ft Long - 6 Lamps in cross section - High Output T8 Electronic Ballast - Open/No Lens - Universal Voltage - Enhanced Reflector - Standard Surface Mount - No Options.

Amerillum Product	Series	Finish	Dimension	Lamping	Ballast	Lens	Voltage	Reflector	Mounting	Options
<b>A -</b>	<b>EH8</b>		<b>24</b>							

**A-EH8 SERIES  
T8 ECONOMY HIGH BAY LUMINAIRE**



**PRODUCT NUMBER = A-EH8W246HUE**

**FIXTURE EFFICIENCY = 93.5%**

**S.M.H. = 1.12**

**WATTAGE = 211 (BASED ON 277V)**

**RCR TABLE AVAILABLE**

**IES PHOTOMETRIC FILE AVAILABLE**

**SPECIFICATION CHARACTERISTICS**

- **Narrow to Medium Distribution Utilizing Energy Efficient Components Throughout**
- **Highly Efficient Luminaire – Over 93%**
- **Replaces 250 Watt - 400 Watt HID High Bay**
- **Instant On, Long Life, Lower Energy Consumption, No Color Shift**
- **Uniform Illumination**
- **Vented for Optimum Lamp Performance**
- **Quick-Wire Access Plate**
- **Dimming, Emergency, Occupancy Sensor or Light Level Sensor Options**
- **Multiple Mounting Options: Surface Mount, Chain or Gripple Ready, Single Point Mounting Box or Cord**
- **Multiple Lens Options: Wire Guard, Prismatic, Clear Acrylic, or Clear Polycarbonate Lens**
- **Multiple Finish Options: Gloss White Post Powdercoated, Galvanized or Baked White Enamel Steel**
- **Short Lead Times**



**A-WPC SERIES**  
**MEDIUM WALL PACK COMPACT FLUORESCENT LUMINAIRE**



**Housing:** Heavy-duty die cast aluminum.

**Finish:** Post powdercoat bronze color.

**Hardware:** Stainless Steel (standard). Stainless tamperproof available.

**Lens:** Cast glass.

SPEC	NOM.	DESCRIPTION
Finish	---	Powdercoat Bronze (standard)
Dimension	11	Nominal 9" x 13"
Lamping	1 2	<b>T4 = 26W, 32W or 42W per lamp</b> 841k lamps included unless otherwise specified. (1) CF lamping (2) CF lamping (not available with 42W)
Ballast	E26 E32 E42	Electronic 26watt CF Ballast Electronic 32watt CF Ballast Electronic 42watt CF Ballast (1 lamp only)
Lens	---	Glass Lens - no designation needed

**Mounting:** Surface mounted.

**Distribution:** Wide.

**Electrical:** Electronic Program Start is factory standard; <10% THD; Inherent thermal protection.

**Labels:** UL/CUL Listed. Damp Location.

SPEC	NOM.	DESCRIPTION
Voltage	U 3	Universal volt 120-277 (standard) 347 volt
Reflector	E	Enhanced Aluminum 95% reflective
Mounting	---	Surface/Wall Mounted - no designation needed
Options	P D L T	Photocell Sensor 90° Shield for Dark Sky Lamps Included is a standard option Torx tamperproof stainless steel screws

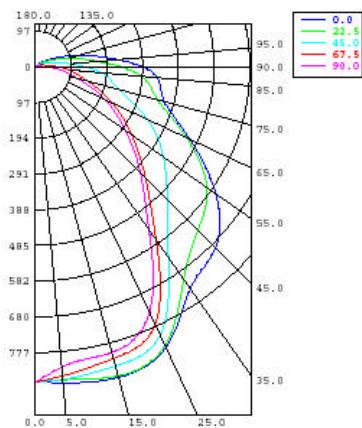
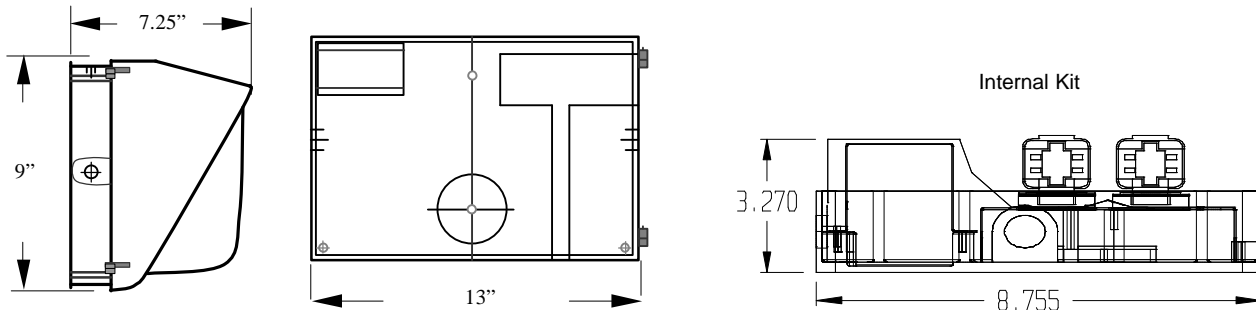
**ORDERING NOMENCLATURE GUIDE**

**Standard Fixture: A-WPC112E26UEL**

Catalog # for a WPC Type Fixture - Post Powdercoated Bronze - Nominal 9" x 13" - 2 Lamps - Standard 26W CF Electronic Ballast - Glass Lens - Universal Voltage - Enhanced Reflector - Standard Surface Mount - Lamps Included.

Amerillum Product	Series	Finish	Dimension	Lamping	Ballast	Lens	Voltage	Reflector	Mounting	Options
<b>A -</b>	<b>WPC</b>	---	<b>11</b>			---		<b>E</b>	---	<b>L</b>

**A-WPC SERIES**  
**MEDIUM WALL PACK COMPACT FLUORESCENT LUMINAIRE**



**PRODUCT NUMBER** = A-WPC112E26UEL  
**FIXTURE EFFICIENCY** = 80.4%  
**S.M.H.** = 1.14  
**WATTAGE** = 59W (BASED ON 277V)  
**RCR TABLE AVAILABLE**  
**IES PHOTOMETRIC FILE AVAILABLE**

**SPECIFICATION CHARACTERISTICS**

- **Wide Distribution Utilizing Energy Efficient Components Throughout**
- **Highly Efficient Luminaire – Over 80%**
- **Meets requirements for \*Dark Sky\* in 1-26, 2-26, 1-32, 2-32, 1-42 Configuration Utilizing Optional Hood**
- **Stainless Steel Hardware for Long Life. Stainless Tamperproof Option Available.**
- **Instant On, Long Life, Lower Energy Consumption, No Color Shift**
- **Uniform Illumination. Wide Distribution Spreads Light for Maximum Coverage.**
- **Heavy Duty Die Cast Aluminum Housing**
- **Surface Mount. Easy Ballast Access through Mounting Plate Provides Quick Maintenance**
- **High Impact Cast Glass Lens**
- **Photocell Sensor Option**
- **Bronze Post Powdercoated Finish**
- **Short Lead Times**



## A-W SERIES

### T8 STANDARD WRAP



**Housing:** 22GA steel.

**Finish:** Baked white enamel or post powdercoat steel.

**Construction:** CNC formed and mechanically joined.

**Lens:** Prismatic, acrylic wrap with optional wireguard.

SPEC	NOM.	DESCRIPTION
Finish	--- P	Baked white enamel – no designation needed Powdercoat gloss white
Dimension	12 13 14 18	Nominal 9" wide x 24" long Nominal 9" wide x 36" long Nominal 9" wide x 48" long Nominal 9" wide x 96" long
Lamping	1 2 3 4 6	<b>T8 = 32W, 25W, 17W per lamp</b> <b>Lamps are not included unless otherwise noted</b> (1) lamp in cross section (2,3,4ft) (2) lamps in cross section (2,3,4ft); 1 in cross (8ft) (3) lamps in cross section (2,3,4ft); 1&2 in cross (8ft) (4) lamps - 2 in cross section (8ft only) (6) lamps - 3 in cross section (8ft only)
Ballast	S L H D P SP HP	Standard Electronic T8 Low Output Electronic T8 High Output Electronic T8 Electronic Dimming T8 – specify type & voltage Program Start Electronic T8 Standard Output/Program Start Combination T8 High Output/Program Start Combination T8

**Mounting:** Suspended or surface mounted.

**Distribution:** Medium to wide.

**Electrical:** Electronic Low, Standard or High output options; Instant Start is factory standard; <10% THD; Inherent thermal protection; Dimming and Emergency available.

**Labels:** UL/CUL listed. Damp Location.

SPEC	NOM.	DESCRIPTION
Lens	PW PG	Prismatic acrylic wrap Prismatic acrylic wrap + 11 GA galvanized wireguard
Voltage	U H 1B 2B	Universal volt 120-277 (factory standard) 347-480 volt Emergency Battery Back-up 120v Emergency Battery Back-up 277v (T8 = 500 lumens factory standard)
Reflector	E W P	Enhanced Aluminum 95% reflective White Aluminum 90%+ reflective Premium Aluminum 86% reflective
Mounting	--- --- C Y	Surface Mounted (standard) - no designation needed Chain Suspended (by others) - no designation needed 8ft Powercord, black 18/3 wire Y-fit Gripple® Toggle 6" Y x 8' long Shows as separate line item on order: part# H-Y6"HNGR-10'
Options	AB O A R L	A/B Switched 360° degree occupancy sensor Aisle occupancy sensor Relay Lamps Installed (shows as separate line item on order)

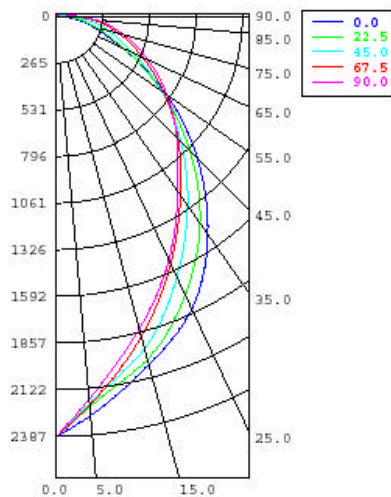
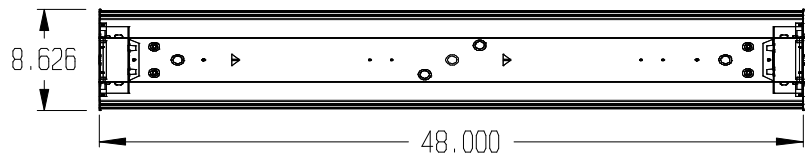
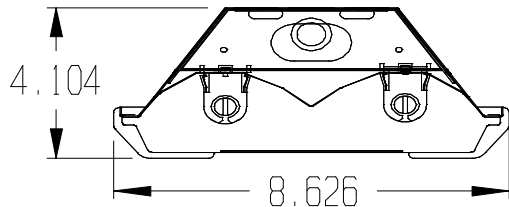
#### ORDERING NOMENCLATURE GUIDE

**Standard Fixture: A-W142SPWUE**

Catalog # for a W Type Fixture - Baked White Enamel - Nominal 1 ft x 4 ft Long - 2 Lamps in cross section - Standard T8 Electronic Ballast - Prismatic Wrap Lens - Universal Voltage - Enhanced Reflector - Standard Surface Mount - No Options.

Amerillum Product	Series	Finish	Dimension	Lamping	Ballast	Lens	Voltage	Reflector	Mounting	Options
<b>A -</b>	<b>W</b>									

**A-W SERIES  
T8 STANDARD WRAP**



**PRODUCT NUMBER = A-W142SPWUE**

**FIXTURE EFFICIENCY = 81.1%**

**S.M.H. = .88**

**WATTAGE = 52W (BASED ON 277V)**

**RCR TABLE AVAILABLE**

**IES PHOTOMETRIC FILE AVAILABLE**

**SPECIFICATION CHARACTERISTICS**

- **Medium to Wide Distribution Utilizing Energy Efficient Components Throughout**
- **Highly Efficient Luminaire – Over 81%**
- **Instant On, Long Life, Lower Energy Consumption, No Color Shift**
- **Uniform Illumination**
- **Low Profile, Space-Saving Design**
- **Ballast Access Gained Without Tools**
- **Dimming, Emergency Options**
- **Multiple Mounting Options: Surface Mount, Chain or Gripple Ready or Cord**
- **Prismatic Wrap Acrylic Lens for Wide, Even Distribution**
- **Multiple Finish Options: Gloss White Post Powdercoated or Baked White Enamel Steel**
- **Short Lead Times**

**A-CM SERIES**  
**T8 or T5 CORNER MOUNT RADIAL LENS**



**Housing:** 22GA steel.

**Finish:** Baked white enamel or post powdercoat steel.

**Construction:** CNC formed and mechanically joined.

**Lens:** Proprietary high-performance, radial, linear lens.

SPEC	NOM.	DESCRIPTION
Finish	--- P	Baked white enamel – no designation needed Powdercoat gloss white
Dimension	12 13 14 18	Nominal 5" wide x 24" long Nominal 5" wide x 36" long Nominal 5" wide x 48" long Nominal 5" wide x 96" long
Lamping	1 2 3 4	<b>T8 = 32W, 25W, 17W per lamp</b> <b>T5 = 54W, 39W, 21W or 28W, 21W, 14W per lamp</b> <b>Lamps are not included unless otherwise noted</b> (1) lamp in cross section (2,3,4ft) (2) lamps in cross section (2,3,4ft); 1 in cross (8ft) (3) lamps in cross section (2,3,4ft) (4) lamps - 2 in cross section (8ft only)
Ballast	S L H D P SP HP  S5 H5	<b>T8</b> Standard Electronic T8 Low Output Electronic T8 High Output Electronic T8 Electronic Dimming T8 – specify type & voltage Program Start Electronic T8 Standard Output/Program Start Combination T8 High Output/Program Start Combination T8  <b>T5</b> Standard Electronic T5 28W High Output Electronic T5 54W

**Mounting:** Suspended or surface mounted.

**Distribution:** Wide.

**Electrical:** Electronic Low, Standard or High output options; Instant Start is factory standard for T8, Program Start for T5; <10% THD; Inherent thermal protection; Dimming and Emergency available.

**Labels:** UL/CUL listed. Damp Location.

SPEC	NOM.	DESCRIPTION
Lens	RL	Radial linear acrylic
Voltage	U H 1B 2B	Universal volt 120-277 (factory standard) 347-480 volt Emergency Battery Back-up 120v Emergency Battery Back-up 277v (T8 = 500 lumens factory standard) (T5 std = 500 lumens or T5HO = 825 lumens)
Reflector	E W P	Enhanced Aluminum 95% reflective White Aluminum 90%+ reflective Premium Aluminum 86% reflective
Mounting	--- --- C Y	Surface Mounted (standard) - no designation needed Chain Suspended (by others) - no designation needed 8ft Powercord, black 18/3 wire with 3 prong, 120v plug Y-fit Gripple® Toggle 6" Y x 8' long Shows as separate line item on order: part# H-Y6"HNGR-10'
Options	G L	Fully Gasketed for bug reduction Lamps Installed (shows as separate line item on order)

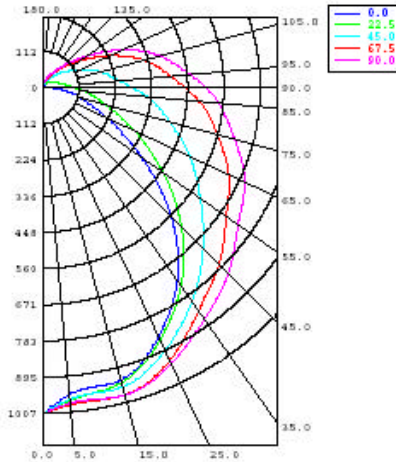
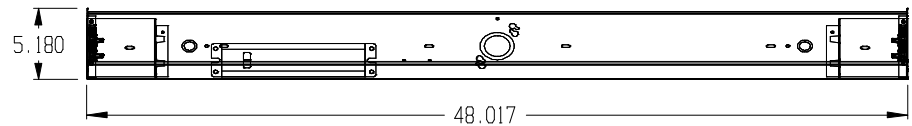
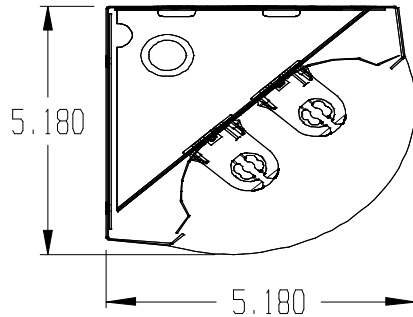
**ORDERING NOMENCLATURE GUIDE**

**Standard Fixture: A-CM142SRLUE**

Catalog # for a CM Type Fixture - Baked White Enamel - Nominal 1 ft x 4 ft Long - 2 Lamps in cross section - Standard T8 Electronic Ballast - Radial Lens - Universal Voltage - Enhanced Reflector - Standard Surface Mount - No Options.

Amerillum Product	Series	Finish	Dimension	Lamping	Ballast	Lens	Voltage	Reflector	Mounting	Options
<b>A -</b>	<b>CM</b>	---				<b>RL</b>				

**A-CM SERIES**  
**T8 or T5 CORNER MOUNT RADIAL LENS**



**PRODUCT NUMBER = A-CM142SRLUE**

**FIXTURE EFFICIENCY = 71.5%**

**S.M.H. = 1.34**

**WATTAGE = 52W (BASED ON 277V)**

**RCR TABLE AVAILABLE**

**IES PHOTOMETRIC FILE AVAILABLE**

**SPECIFICATION CHARACTERISTICS**

- **Wide Distribution Utilizing Energy Efficient Components Throughout**
- **Highly Efficient Luminaire – Over 71%**
- **Instant On, Long Life, Lower Energy Consumption, No Color Shift**
- **Uniform Illumination**
- **Dimming, Emergency Options**
- **Multiple Mounting Options: Surface Mount, Chain or Gripple Ready or Cord**
- **Proprietary Radial Linear Acrylic Lens for Wide, Even Distribution**
- **Multiple Finish Options: Gloss White Post Powdercoated or Baked White Enamel Steel**
- **Short Lead Times**



# A-SD112P13AC1



## Applications

- Schools
- Universities
- Hospitals
- Commercial Buildings
- Adheres to IES recommendations for schools and university applications.
- Retrofit over existing recessed incandescent or electrical boxes.

## COMPACT FLUORESCENT WALL PACK LUMINAIRE

### Features

- Engineered for use with various lamp types and quantities.
- Fully post powder coated finish.
- Tamper proof design.
- Vandal resistant.
- Polycarbonate lens.
- Meets requirements for access to junction box.
- Manufactured using ultra energy efficient components.
- Wide distribution spreads light for low ceiling heights.
- Ballast wiring is concealed for safety.
- High aesthetic appeal.
- Ballast design is configured to that if one lamp fails the other lamp stays lit.

### Specifications

- Fixture height is 3" nominal.
- Fixture width is 11" nominal.
- 24GA CRSW Housing.
- CAD/CAM engineered and manufactured.
- Performance is verified by photometrics.
- Lens is White Acrylic.
- Easy ballast access through lens provides quick maintenance.
- UL listed as suitable for use in damp locations.

2835 La Mirada Dr. Vista Ca, 92083 • Ph# 877/727-7675 • Fax# 760-727-7695 • sales@amerillum.com



A-SD112P13AC1

## Dimensional Data

Mechanical, dimensional and photometric information is subject to change without notice.

### Options

- Dimming systems.
- Lamps installed.
- Special packaging.
- Various lens and styles.
- Internal single element fuse.
- Custom mounting systems.
- 277 volt option.
- Acrylic lens.

### Photometrics

Fixture  
Efficiency

S.M.H.

Fixture  
Wattage

Full photometric report available upon request.

### Electrical

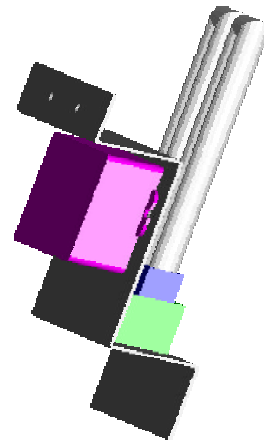
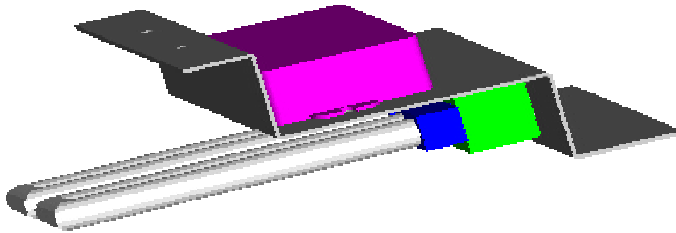
- Positive locking plug in socket.
- Ballasts are thermally protected, Class P, non-PCB and HPF is standard. Sound rating A. UL listed.
- AWM, TFN or THHN wire used throughout, UL listed, rated for required temperatures.

## Ordering Information

A	-	SD	-	11	-	1	-	P13	-	AC	-		-	1	-							
				Size			Lamps			Ballast			Lens/Door			Lens Pattern			Voltage			Material Options
				"1" = 11" Round			"1" = 1 lamp "2" = 2 lamp "3" = 3 lamp			"P13" = PL13 Lamp			"AC" = Acrylic Lens Translucent White						"1" = 120 volt "2" = 277 volt			

2835 La Mirada Dr. Vista Ca, 92083 • Ph# 877/727-7675 • Fax# 760/727-7695 • sales@amerillum.com

**A-PLC SERIES**  
**COMPACT FLUORESCENT STEP BRACKET KIT**



**Housing:** 16GA steel.

**Finish:** Post powdercoat gloss white.

**Construction:** CNC formed and mechanically joined.

**Mounting:** Surface mounted. Retrofit over existing incandescent or electrical boxes.

SPEC	NOM.	DESCRIPTION
Finish	---	Powdercoat gloss white (standard)
Dimension	11	Nominal 6" x 6"
Lamping	1 2	<b>T4 = 13W, 18W, 26W, 32W or 42W per lamp</b> <b>841k lamps included unless otherwise specified.</b> (1) CF lamping (2) CF lamping (not available with 42W)
Ballast	<b>E13</b> <b>E18</b> <b>E26</b> <b>E32</b> <b>E42</b>	Electronic 13watt CF Ballast Electronic 18watt CF Ballast Electronic 26watt CF Ballast Electronic 32watt CF Ballast Electronic 42watt CF Ballast (1 lamp only)

**Distribution:** Wide.

**Electrical:** Electronic Program Start is factory standard; <10% THD;  
Inherent thermal protection.

**Labels:** UL/CUL Listed. Damp Location.

SPEC	NOM.	DESCRIPTION
Voltage	<b>U</b> <b>3</b>	Universal volt 120-277 (standard) 347 volt
Reflector	<b>E</b>	Enhanced Aluminum 95% reflective (standard)
Mounting	---	Surface/Wall Mounted - no designation needed
Options	<b>L</b>	<u>Lamps Included is a standard option</u>

**ORDERING NOMENCLATURE GUIDE**

**Standard Fixture: A-PLC111E42UEL**

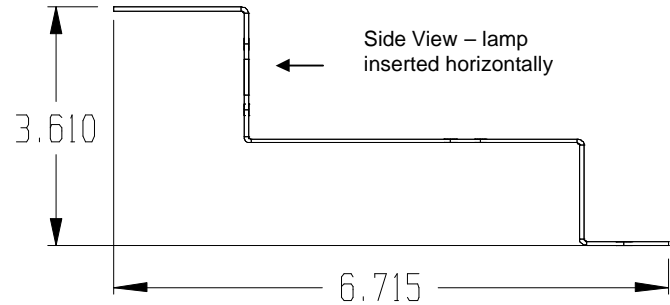
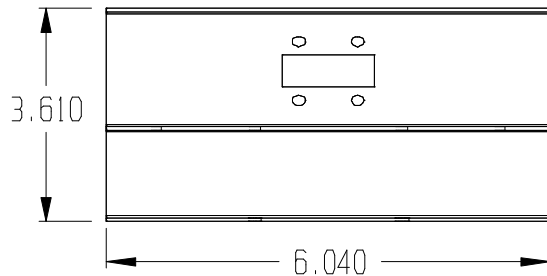
Catalog # for a PLC Type Fixture Kit - Post Powdercoated Gloss White - Nominal 6" x 6" - 1 Lamp - Standard 42W CF Electronic Ballast - Universal Voltage - Enhanced Reflector - Standard Surface Mount - Lamps Included.

Amerillum Product	Series	Finish	Dimension	Lamping	Ballast	Voltage	Reflector	Mounting	Options
<b>A -</b>	<b>PLC</b>	---	<b>11</b>				<b>E</b>	---	<b>L</b>



**A-PLC SERIES**  
**COMPACT FLUORESCENT STEP BRACKET KIT**

Top View



PHOTOMETRIC CURVE DRAWING IS NOT AVAILABLE

**PRODUCT NUMBER = A-PLC111E42UEL**

**FIXTURE EFFICIENCY = NOT AVAILABLE**

**S.M.H. = NOT AVAILABLE**

**WATTAGE = 49W (BASED ON 277V)**

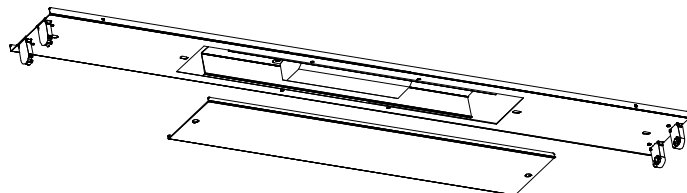
**RCR TABLE NOT AVAILABLE**

**IES PHOTOMETRIC FILE NOT AVAILABLE**

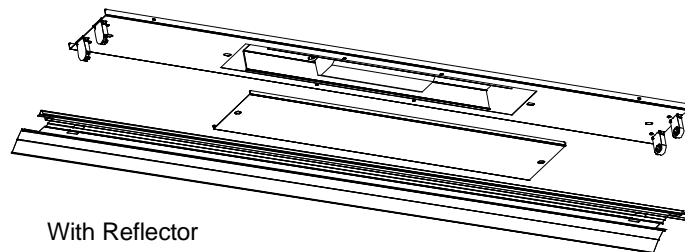
**SPECIFICATION CHARACTERISTICS**

- **Wide Distribution Utilizing Energy Efficient Components Throughout**
- **Highly Efficient Luminaire**
- **Instant On, Long Life, Lower Energy Consumption, No Color Shift**
- **Uniform Illumination. Wide Distribution Spreads Light for Maximum Coverage.**
- **Retrofit over Existing Recessed Incandescent or Electrical Boxes**
- **Easy Ballast Access through Mounting Plate Provides Quick Maintenance**
- **Gloss White Post Powdercoated Finish**
- **Short Lead Times**

**A-BA142S425RU or A-BA184S425RUE**  
**FULLY ASSEMBLED BALLAST COVER ACCESS PLATE RETROFIT SYSTEM**



Without Reflector



With Reflector

**Dimension:** .020 nominal thickness, multi-faceted reflector surface. 24GA steel ballast cover and access plate.

**Finish:** Enhanced aluminum (Miro4), Painted white aluminum, or Premium aluminum available. Baked white enamel kit parts.

**Construction:** CNC formed and mechanically joined.

**Mounting:** Ballast cover systems are mounted using #8 Tek screw hardware. Access plate provided for easy ballast access.

SPEC	NOM.	DESCRIPTION
Ballast Cover Kit Type	BA	Fully Assembled Ballast Cover Access Plate Kit
Dimension	14 16 18	Nominal 48" long Nominal 72" long (custom – consult factory) Nominal 96" long
Lamping	1 2 3 4 6	<b>T8 = 32W, 25W or 17W per lamp</b> <b>Lamps are not included unless otherwise noted</b> (1) lamp in cross section (2,3,4ft) (2) lamps in cross section (2,3,4ft); 1 in cross (6,8ft) (3) lamps in cross section (2,3,4ft) (4) lamps - 2 in cross section (6,8ft only) (6) lamps - 3 in cross section (6,8ft only)
Ballast	S L H D P SP HP	<b>T8</b> Standard Electronic T8 Low Output Electronic T8 High Output Electronic T8 Electronic Dimming T8 – specify type & voltage Program Start Electronic T8 Standard Output/Program Start Combination T8 High Output/Program Start Combination T8

**Fixture Includes:** Ballast cover, access plate, ballast saddle, ballast, lamp holders and quarter-turns. Fully assembled. Ready for installation.

**Electrical:** Electronic Low, Standard or High output options; Instant Start is factory standard; <10% THD; Inherent thermal protection; Dimming and Emergency available.

**Labels:** UL/CUL listed.

SPEC	NOM.	DESCRIPTION
Channel Width	4 425 45 475 5	<u>Standard Channel Widths</u> 4.00" channel width 4.25" channel width 4.50" channel width 4.75" channel width 5.00" channel width
	Custom Fill in: - - - -	<u>Custom Channel Widths</u> Consult Factory for any channel widths not shown. See Survey Sheet for instructions on how to measure channel sizes. We can design specific channel sizes from 2.75" – 10", up to 3 lamps in cross section.
Lamp holders	R	Ratchet/rotary, positive-locking, long lampholders included.
Voltage	U H 1B 2B	Universal volt 120-277 (factory standard) 347-480 volt Emergency Battery Back-up 120v Emergency Battery Back-up 277v (T8 = 500 lumens factory standard)
Reflector	--- E W P	No Reflector Enhanced Aluminum 95% reflective White Aluminum 90%+ reflective Premium Aluminum 86% reflective
Options	F M2 M3 M4	GL Fuse Master 2 Lamp order slave separate under K-BC Master 3 Lamp Master 4 Lamp (Slave ordered separately – see K-BC cut sheet or contact factory for assistance)

**ORDERING NOMENCLATURE GUIDE**

**Standard Fixture: A-BA142S425RU**

Catalog # for a Fully Assembled Ballast Cover Access Plate Kit - Nominal 1 ft x 4 ft Long - 2 Lamps in cross section - 4.25" channel width - Standard T8 Electronic Ballast - Includes lampholders - Universal Voltage - No reflector - No options.

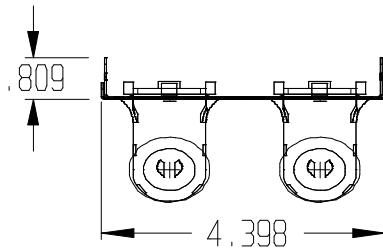
Above kit includes 1, 4ft ballast cover, 1 ballast access plate, 1 ballast saddle, 1 ballast and 4 lampholders, all fully assembled.

Amerillum Kit	Kit Type	Dimension	Lamping	Ballast	Channel Width	Lampholders	Voltage	Reflector	Options
<b>A -</b>	<b>BA</b>					<b>R</b>			

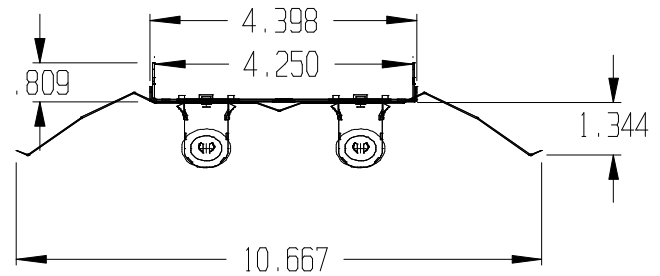
**A-BA142S425RU or A-BA184S425RUE**

**FULLY ASSEMBLED BALLAST COVER ACCESS PLATE RETROFIT SYSTEM**

**End View**

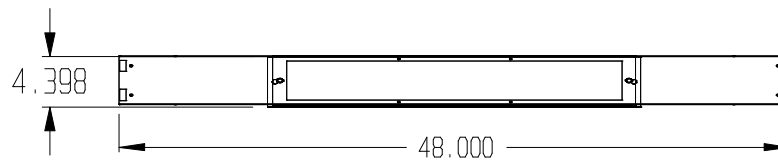


**Without Reflector**



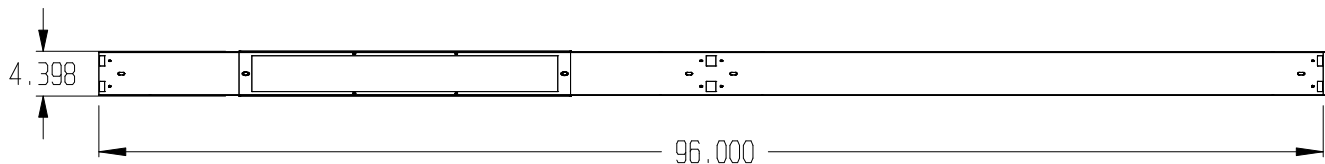
**With Reflector**

**1 x 4 Kit**



Ballast Cover Shown Fits  
4.25" Channel  
Shown Without Reflector

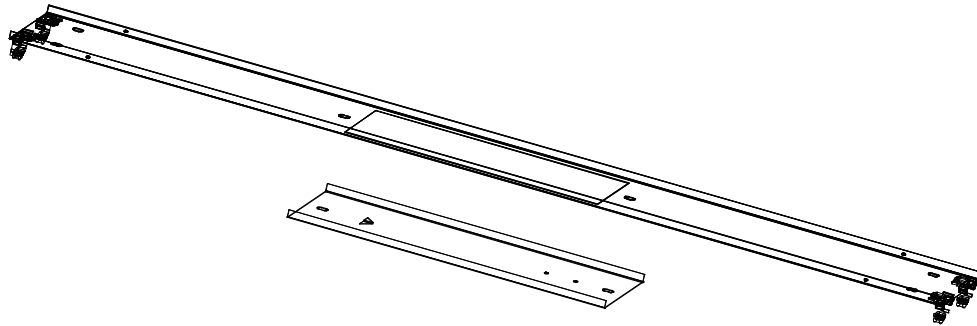
**1 x 8 Kit**



**SPECIFICATION CHARACTERISTICS**

- Includes Baked White Enamel 24GA Steel One-Piece Ballast Cover
- Includes Baked White Enamel 24GA Steel Ballast Access Plate
- Includes Baked White Enamel 22GA Steel Ballast Saddle
- Includes Positive Locking, Rotary Style, Heavy-Duty Lampholders
- Includes Quarter-Turn Fasteners for Ease of Ballast Access
- Ballast is Included and is Wired and Attached for Immediate Installation
- Instant On, Long Life, Lower Energy Consumption, No Color Shift
- Mounted Using #8 Tek Screw Hardware (not provided) for Easy Ballast Access
- Multiple Finish Options: Enhanced Aluminum (Miro4), Painted White Aluminum, Premium Aluminum or No Reflector Option
- Can be Specifically Designed to your Custom Field Application. Consult Factory.
- Short Lead Times

**K-BA142-425R or K-BA184-425R**  
**TWO PIECE BALLAST COVER ACCESS PLATE RETROFIT SYSTEM**



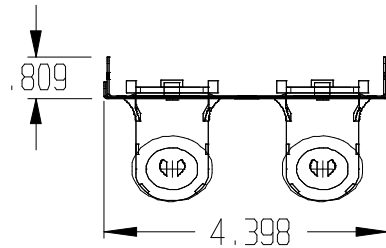
<b>Dimension: 24GA steel ballast cover and access plate.</b>  <b>Finish: Baked white enamel.</b>  <b>Construction: CNC formed. Engineered using state of the art CAD/CAM systems.</b>			<b>Mounting: Two-piece ballast cover systems are mounted using #8 Tek screw hardware. Access plate provided for easy ballast access.</b>  <b>Kit Includes: Ballast cover, access plate and lamp holders.</b>  <b>Labels: UL/CUL listed.</b>		
SPEC	NOM.	DESCRIPTION	SPEC	NOM.	DESCRIPTION
Ballast Cover Kit Type	BA	Two Piece Ballast Cover Access Plate Kit	Channel Width	4 425 45 475 5	<u>Standard Channel Widths</u> 4.00" channel width 4.25" channel width 4.50" channel width 4.75" channel width 5.00" channel width
Dimension	12 13 14 16 18	Nominal 24" long (custom – consult factory) Nominal 36" long (custom – consult factory) Nominal 48" long Nominal 72" long (custom – consult factory) Nominal 96" long		Custom-Fill in: ----	<u>Custom Channel Widths</u> Consult Factory for any channel widths not shown. See Survey Sheet for instructions on how to measure channel sizes. We can design specific channel sizes from 2.75" – 10", up to 3 lamps in cross section.
Lamping	1 2 3 4 6	<b>T8 = 32W, 25W or 17W per lamp</b> <b>Lamps are not included unless otherwise noted</b> (1) lamp in cross section (2,3,4ft) (2) lamps in cross section (2,3,4ft); 1 in cross (6,8ft) (3) lamps in cross section (2,3,4ft) (4) lamps - 2 in cross section (6,8ft only) (6) lamps - 3 in cross section (6,8ft only)	Lampholders	R	Ratchet/rotary, positive-locking, long lampholders included.

**ORDERING NOMENCLATURE GUIDE**

<b>Standard Fixture: K-BA142-425R</b> Catalog # for a Two Piece Ballast Cover Access Plate Kit - Nominal 1 ft x 4 ft Long - 2 Lamps in cross section - 4.25" channel width - Includes lampholders. Above kit includes 1, 4ft ballast cover, 1 ballast access plate and 4 lampholders.					
Amerillum Kit	Ballast Cover Kit Type	Dimension	Lamping	Channel Width	Lampholders
<b>K -</b>	<b>BA</b>				<b>R</b>

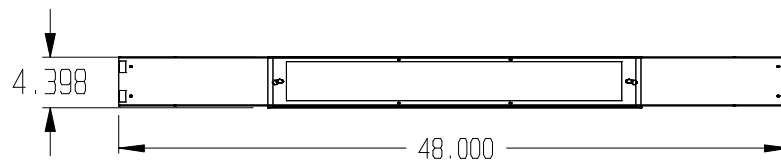
**K-BA142-425R or K-BA184-425R**  
**TWO PIECE BALLAST COVER ACCESS PLATE RETROFIT SYSTEM**

**End View**

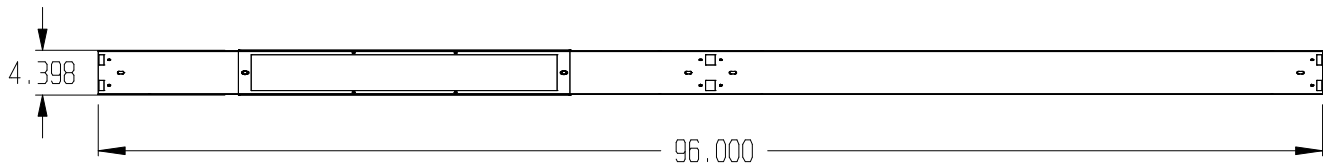


Ballast Cover Shown  
Fits 4.25" Channel

**1 x 4 Kit**

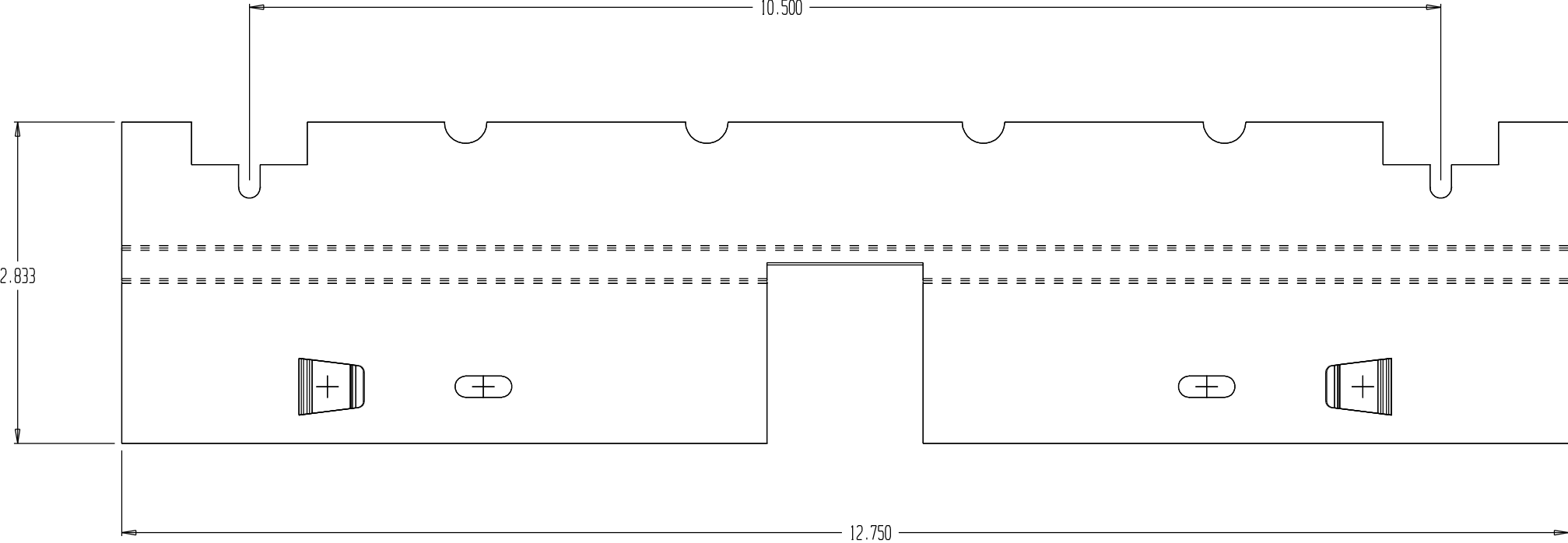


**1 x 8 Kit**

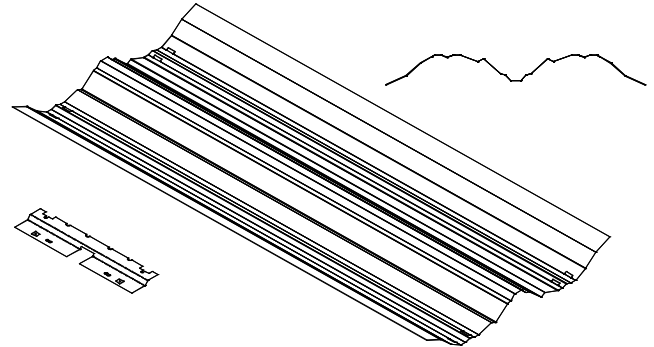
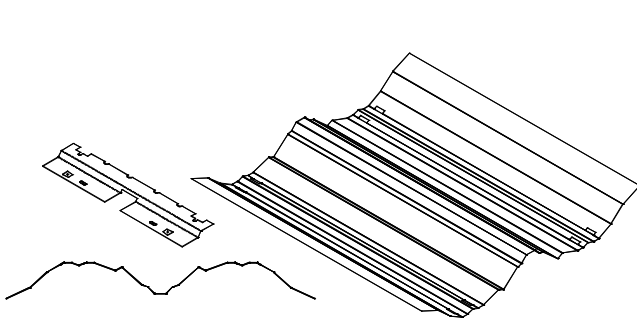


**SPECIFICATION CHARACTERISTICS**

- Includes Baked White Enamel 24GA Steel One-Piece Ballast Cover
- Includes Baked White Enamel 24GA Steel Ballast Access Plate
- Includes Positive Locking, Rotary Style, Heavy-Duty Lampholders
- Mounted Using #8 Tek Screw Hardware (not provided) for Easy Ballast Access
- Can be Specifically Designed to your Custom Field Application. Consult Factory.
- Short Lead Times



**K-EN222TSHOPTI or K-EN242TSHOPTI**  
**TROFFER SHALLOW OPTIMUM PERFORMANCE RETROFIT SYSTEM**



**Dimension:** .020 nominal thickness, multi-faceted reflector surface. 24GA brackets.

**Finish:** Enhanced aluminum (Miro4), Painted white aluminum, or Premium aluminum available. Baked white enamel brackets.

**Construction:** CNC formed. Engineered using state of the art CAD/CAM systems.

SPEC	NOM.	DESCRIPTION
Reflector	EN WH PR	Enhanced Aluminum 95% reflective White Aluminum 90%+ reflective Premium Aluminum 86% reflective
Dimension	22 24	Nominal 20" wide x 24" long Nominal 20" wide x 48" long
Lamping	2	<b>T8 = 17 or 32W per lamp</b> <b>Lamps are not included unless otherwise noted</b>  (2) lamps in cross section

**Mounting:** Reflector systems are mounted using "Quick-Tab" mounting for easy ballast access. Ballast mounts on existing fixture can.

**Kit Includes:** Reflector and socket brackets.

**Labels:** UL/CUL listed.

SPEC	NOM.	DESCRIPTION
Fixture Type	T	Retrofit for Troffer Fixture
Kit Type	SHOPTI	2 Lamp Shallow Optimum Performance
<b>Additional parts:</b> Lampholders are not included in kit. Please order separately if required.		
Sockets	LH-BP-ST-SNP-T8	Short, snap-in, T8 lampholders  <i>4 sockets per reflector are required.</i>

**ORDERING NOMENCLATURE GUIDE**

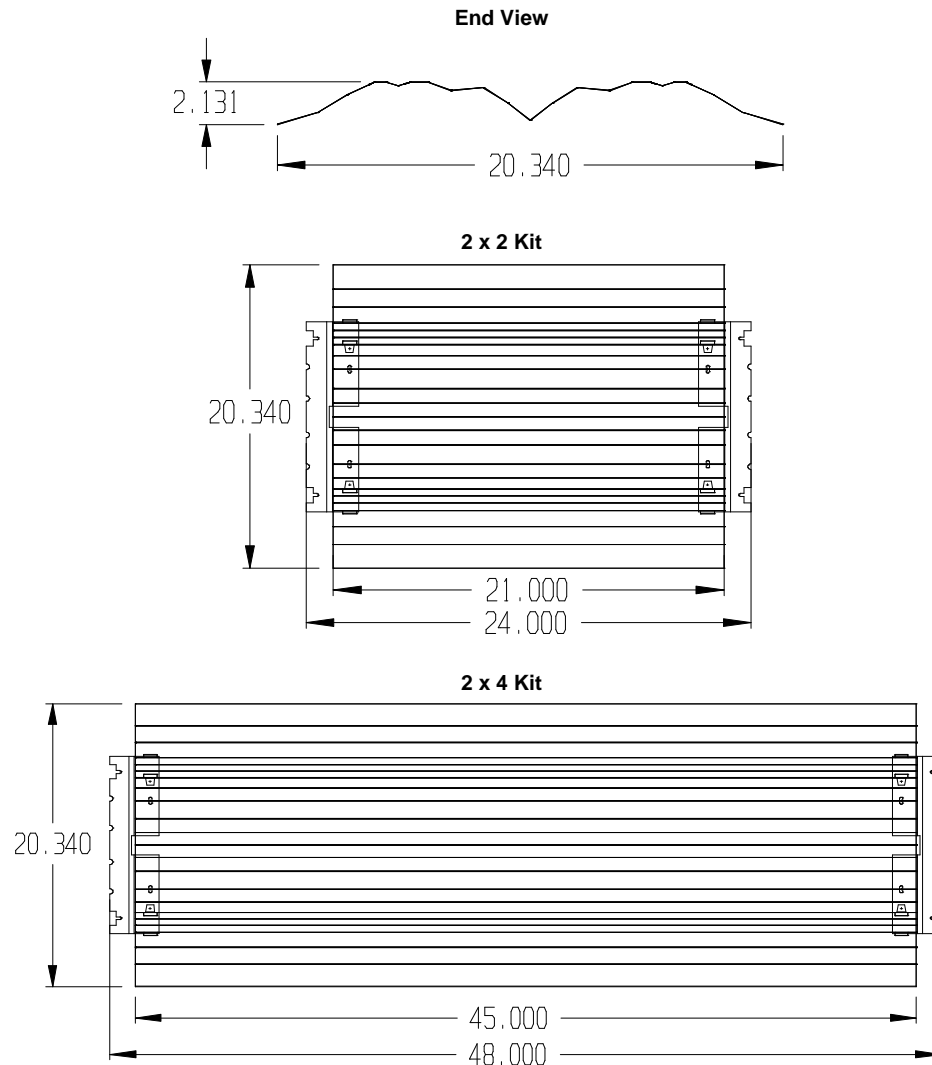
**Standard Fixture: K-EN242TSHOPTI**

Catalog # for a SHOPTI Kit - Enhanced Reflector - Nominal 2 ft x 4 ft Long - 2 Lamps in cross section. Kit includes 2, 2lamp brackets. Select quantity of sockets if desired.

Amerillum Kit	Reflector	Dimension	Lamping	Fixture Type	Type of Kit	Qty of Sockets
<b>K -</b>			<b>2</b>	<b>T</b>	<b>SHOPTI</b>	



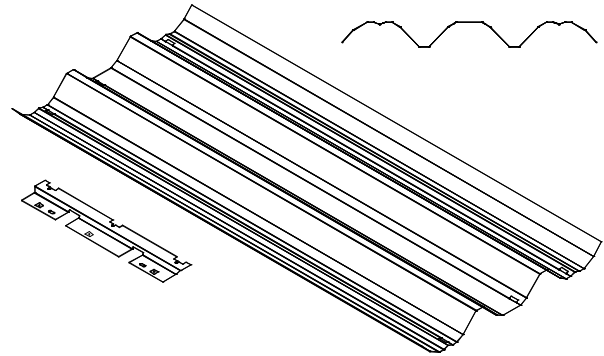
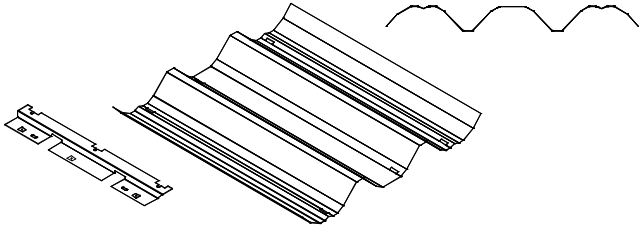
**K-EN222TSHOPTI or K-EN242TSHOPTI**  
**TROFFER SHALLOW OPTIMUM PERFORMANCE RETROFIT SYSTEM**



**SPECIFICATION CHARACTERISTICS**

- Includes Baked White Enamel 24GA Steel Socket Brackets
- “Quick-Tab” Mounting for Easy Ballast Access
- Multiple Finish Options: Enhanced Aluminum (Miro4), Painted White Aluminum, or Premium Aluminum
- Short Lead Times

**K-EN223TSHDC or K-EN243TSHDC**  
**TROFFER SHALLOW FOR DEEP CELL LOUVER RETROFIT SYSTEM**



**Dimension:** .020 nominal thickness, multi-faceted reflector surface. 24GA brackets.

**Finish:** Enhanced aluminum (Miro4), Painted white aluminum, or Premium aluminum available. Baked white enamel brackets.

**Construction:** CNC formed. Engineered using state of the art CAD/CAM systems.

SPEC	NOM.	DESCRIPTION
Reflector	EN WH PR	Enhanced Aluminum 95% reflective White Aluminum 90%+ reflective Premium Aluminum 86% reflective
Dimension	22 24	Nominal 20" wide x 24" long Nominal 20" wide x 48" long
Lamping	3	<b>T8 = 17 or 32W per lamp</b> <b>Lamps are not included unless otherwise noted</b> (3) lamps in cross section

**Mounting:** Reflector systems are mounted using "Quick-Tab" mounting for easy ballast access. Ballast mounts on existing fixture can.

**Kit Includes:** Reflector and socket brackets.

**Labels:** UL/CUL listed.

SPEC	NOM.	DESCRIPTION
Fixture Type	T	Retrofit for Troffer Fixture
Kit Type	SHDC	2 Lamp Shallow for Deep Cell Louvered Fixtures
<b>Additional parts:</b> Lampholders are not included in kit. Please order separately if required.		
Sockets	LH-BP-ST-SNP-T8	Short, snap-in, T8 lampholders  <i>6 sockets per reflector are required</i>

**ORDERING NOMENCLATURE GUIDE**

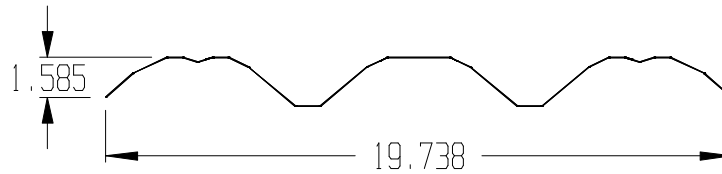
**Standard Fixture: K-EN243TSHDC**

Catalog # for a SHDC Kit - Enhanced Reflector - Nominal 2 ft x 4 ft Long - 3 Lamps in cross section. Kit includes 2, 3lamp brackets. Select quantity of sockets if desired.

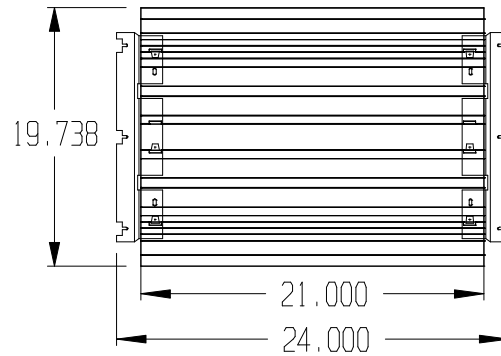
Amerillum Kit	Reflector	Dimension	Lamping	Fixture Type	Type of Kit	Qty of Sockets
<b>K -</b>			<b>3</b>	<b>T</b>	<b>SHDC</b>	

**K-EN223TSHDC or K-EN243TSHDC**  
**TROFFER SHALLOW FOR DEEP CELL LOUVER RETROFIT SYSTEM**

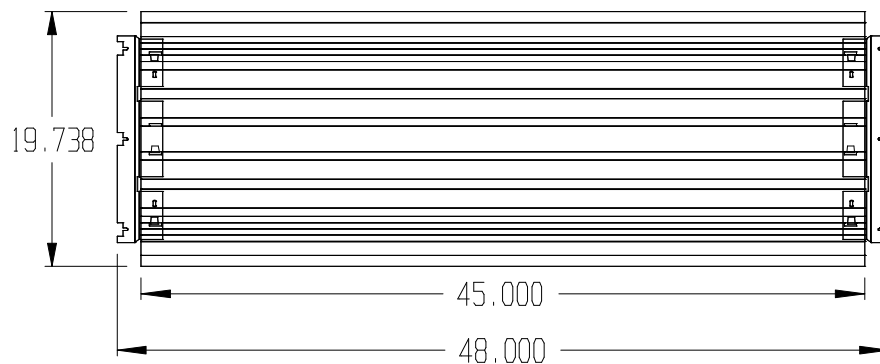
**End View**



**2 x 2 Kit**



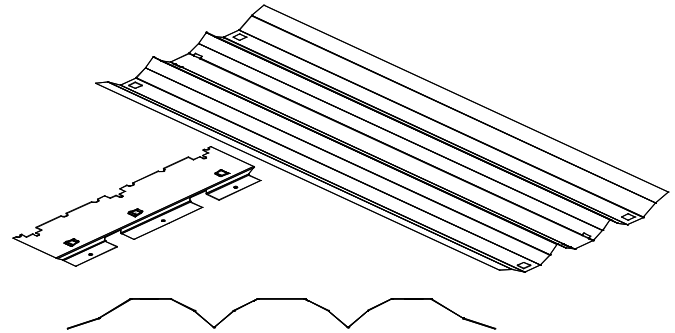
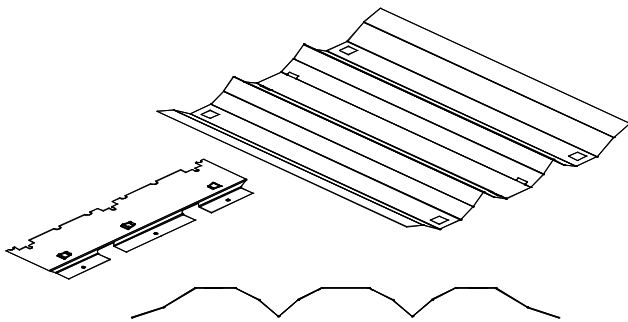
**2 x 4 Kit**



**SPECIFICATION CHARACTERISTICS**

- Includes Baked White Enamel 24GA Steel Socket Brackets
- "Quick-Tab" Mounting for Easy Ballast Access
- Multiple Finish Options: Enhanced Aluminum (Miro4), Painted White Aluminum, or Premium Aluminum
- Short Lead Times

**K-EN223TCOM or K-EN243TCOM**  
**TROFFER COMMODITY RETROFIT SYSTEM**



**Dimension:** .020 nominal thickness, multi-faceted reflector surface. 24GA brackets.

**Finish:** Enhanced aluminum (Miro4), Painted white aluminum, or Premium aluminum available. Baked white enamel brackets.

**Construction:** CNC formed. Engineered using state of the art CAD/CAM systems.

SPEC	NOM.	DESCRIPTION
Reflector	EN WH PR	Enhanced Aluminum 95% reflective White Aluminum 90%+ reflective Premium Aluminum 86% reflective
Dimension	22 24	Nominal 19" wide x 24" long Nominal 19" wide x 48" long
Lamping	3	<b>T8 = 17 or 32W</b> <b>Lamps are not included unless otherwise noted</b> (3) lamps in cross section

**Mounting:** Reflector systems are mounted using "Quick-Tab" mounting for easy ballast access. Ballast mounts on existing fixture can.

**Kit Includes:** Reflector and socket brackets.

**Labels:** UL/CUL listed.

SPEC	NOM.	DESCRIPTION
Fixture Type	T	Retrofit for Troffer Fixture
Kit Type	COM	3 Lamp Troffer Commodity
<b>Additional parts:</b> Lampholders are not included in kit. Please order separately if required.		
Sockets	LH-BP-ST-SNP-T8	Short, snap-in, T8 lampholders  <i>6 sockets per reflector are required</i>

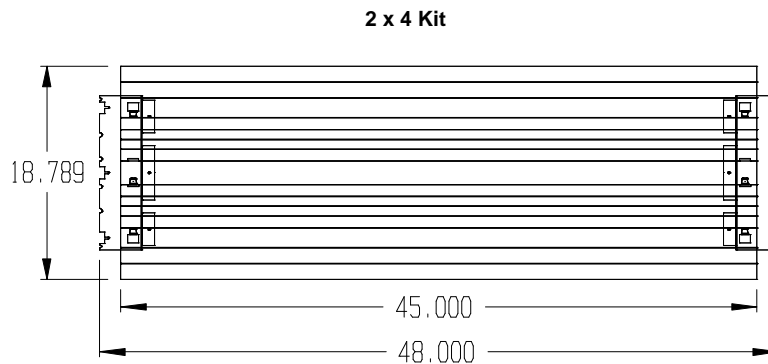
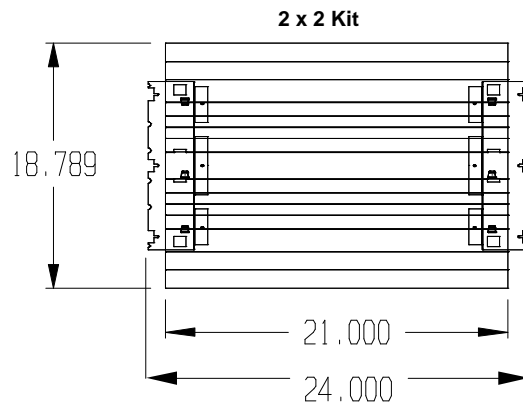
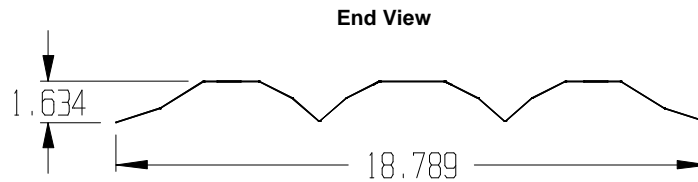
**ORDERING NOMENCLATURE GUIDE**

**Standard Fixture: K-EN243TCOM**

Catalog # for a TCOM Kit - Enhanced Reflector - Nominal 2 ft x 4 ft Long - 3 Lamps in cross section. Kit includes 2, 3lamp brackets. Select quantity of sockets if desired.

Amerillum Kit	Reflector	Dimension	Lamping	Fixture Type	Type of Kit	Qty of Sockets
<b>K -</b>			<b>3</b>	<b>T</b>	<b>COM</b>	

**K-EN223TCOM or K-EN243TCOM  
TROFFER COMMODITY RETROFIT SYSTEM**



**SPECIFICATION CHARACTERISTICS**

- Includes Baked White Enamel 24GA Steel Socket Brackets
- “Quick-Tab” Mounting for Easy Ballast Access
- Multiple Finish Options: Enhanced Aluminum (Miro4), Painted White Aluminum, or Premium Aluminum
- Short Lead Times

## OCTRON® FO28 XP® SUPERSAVER® ECOLOGIC®

EXtended Performance Fluorescent Lamps



**SYLVANIA 28 Watt OCTRON FO28 XP SUPERSAVER ECOLOGIC lamps operate on standard T8 instant start systems and provide 12.5% energy savings over standard 32 Watt OCTRON lamps.** At \$.10/kWh and 4000 hours of operation per year, the 12.5% savings translates to a savings of \$5.70 per fixture per year for a 4-lamp fixture with a normal ballast factor, instant start ballast. The 95% lumen maintenance of the OCTRON FO28/800XP/SS/ECO lamp assures that light levels are maintained while energy is saved. These lamps pass the Federal TCLP test, classifying them as non-hazardous waste in most states. Group relamp to realize the benefits of these OCTRON lamps in your facility.

### Application Information

#### Applications

Retail  
Office  
Schools  
Hospitals  
Industrial  
Many applications with T8 instant start ballasts currently using 32W T8 lamps

#### Fixtures

Contact your local fixture agent for available fixtures.

#### Ballast Information

Contact your OSRAM SYLVANIA representative for a list of compatible electronic operating systems.

#### Application Notes

1. Recommended to be used on T8 F32 Instant Start circuit with minimum starting voltage of 550V rms.

- 28 Watt, 4-foot, SUPERSAVER energy saving, T8 lamp
- 12.5% energy savings compared to standard 32W T8 lamp
- ECOLOGIC – Designed to pass TCLP<sup>1</sup>
- Initial lumens – 2725 (850 is 2600)
- 95% lumen maintenance at 8000 hours
- 3000K, 3500K, 4100K & 5000K
- 85 CRI (850 is 80 CRI)
- Retrofit lamp for existing T8 instant start systems
  - 24,000 hours average rated life @ 3 hrs per start
  - 36,000 hours average rated life @ 12 hrs per start
- Approved on OSRAM SYLVANIA QUICKTRONIC® PSX and PSN ballasts.
  - 36,000 hours average rated life @ 3 hrs per start
  - 42,000 hours average rated life @ 12 hrs per start
- Minimum starting temperature: 60°F
- Not dimmable
- Not for use in air handling fixtures

SYLVANIA OCTRON T8 ECOLOGIC fluorescent lamps are designed to pass the Federal Toxicity Characteristic Leaching Procedure (TCLP) criteria for classification as non-hazardous waste in most states<sup>2</sup>.



1. TCLP test results are based on NEMA LL Series standards and are available on request.
2. Lamp disposal regulations may vary; check your local & state regulations.

### Product Availability

Lamp Type	Wattage	Color Temperature	CRI
FO28/830XP/SS/ECO	28	3000K	85
FO28/835XP/SS/ECO	28	3500K	85
FO28/841XP/SS/ECO	28	4100K	85
FO28/850XP/SS/ECO	28	5000K	80

#### Application Notes (continued)

2. Not recommended to be used: (1) with Rapid Start circuits unless the open circuit voltage is greater than 550V, (2) at lamp ambient temperatures below 60°F or in drafty locations, (3) on dimming ballasts or (4) on inverter-operated emergency lighting systems unless any of the above equipment is specifically listed for 28 watt lamps. Any of the above situations could result in lamp starting and stabilization problems, or system compatibility issues.
3. If an operating lamp is exposed to drafts or the ambient temperature falls below 60 degrees F, striation (a rhythmic pulsing pattern of light running down the tube) and/or reduction in lamp brightness may occur. While visually disconcerting, neither behavior is damaging to the lamp and removing the cause (draft or temperature) will return the lamp to normal operation.
4. Fixture must conform to ANSI C78.81-2005 requirements for luminaire design.



### Sample Specification

Lamp(s) shall be OCTRON® F028 XP® SUPERSAVER® ECOLOGIC® 4-foot lamp(s) having medium bi-pin bases. Lamp(s) shall be designed to pass the Federal TCLP test in force at the time of manufacture. Lamp(s) shall have an average rated life of 24,000 hours at 3 hours per start when operated on T8 instant start ballasts, 2725 initial lumens (2600 for 5000K), 95% lumen maintenance at 8000 hours, a correlated color temperature of (3000K, 3500K, 4100K or 5000K) and a CRI of (80, 85). The OCTRON SUPERSAVER ECOLOGIC lamp(s) shall be operated on QUICKTRONIC electronic, high frequency ballasts with complete system warranty from the manufacturer covering lamps and ballast.

### Warranty Information

**QUICK 60+® warranty** for OSRAM SYLVANIA lamp and ballast combination  
Limited 36 month lamp warranty and a five year ballast warranty is possible if both lamps and ballast are provided by OSRAM SYLVANIA. See the QUICK 60+ warranty for details and restrictions.

### System Comparison

4-Lamp Systems: F028/800XP/SS/ECO vs F032/700/ECO

Lamp Type	Initial Lumens	Average Rated Life (hrs.)	Ballast	Ballast Factor	System Watts	System Lumens @ 8000 hrs.	Relative Lumens	Relative Lamp Life	% Energy Savings
F032/741/ECO	2800	15,000	4-lamp IS	.88	114	8870	100%	100%	-
F028/841XP/SS/ECO	2725	24,000	4-lamp IS	.88	100	9112	103%	160%	12.5
F032/741/ECO	2800	15,000	4-lamp IS-L	.77	98	7761	100%	100%	-
F028/841XP/SS/ECO	2725	24,000	4-lamp IS-L	.77	86	7973	103%	160%	12.5
F028/841XP/SS/ECO	2725	36,000	4-lamp PSX	.71	82/80	7352	95%	240%	17/19

1. Ballast is universal input, data is presented 120V/277V

### Ordering and Specification Information

Item Number	Ordering Abbreviation	Watts	Bulb	Base	Initial Lumens	Mean Lumens <sup>1</sup>	Avg. Rated Life (hrs.) <sup>2</sup>	CCT	CRI
22177	F028/830XP/SS/ECO	28	T8	Medium bi-pin	2725	2590	24,000	3000K	85
22178	F028/835XP/SS/ECO	28	T8	Medium bi-pin	2725	2590	24,000	3500K	85
22179	F028/841XP/SS/ECO	28	T8	Medium bi-pin	2725	2590	24,000	4100K	85
22184	F028/850XP/SS/ECO	28	T8	Medium bi-pin	2600	2470	24,000	5000K	80

1. Measured @ 8000 hours, 94% of initial lumens at 9600 hours, and 93% of initial lumens at 12,000 hours.

2. Based on 3 hours/start on instant start ballasts. At 12 hours/start, average rated life = 36,000 hours on instant start ballasts.

### Ordering Guide

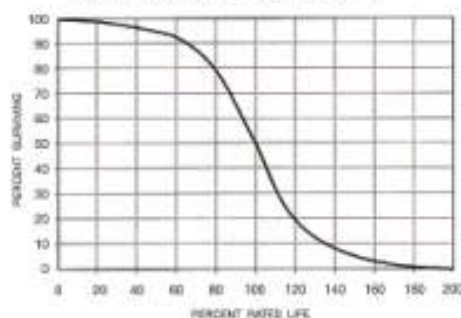
F0	28	/	8	35	XP	/	SS	/	ECO
Fluorescent	Wattage = 28		CRI = 85	Color Temperature	EXtended		SUPERSAVER		ECOLOGIC
OCTRON				30 = 3000K 35 = 3500K 41 = 4100K 50 = 5000K	Performance				

### Dimensions

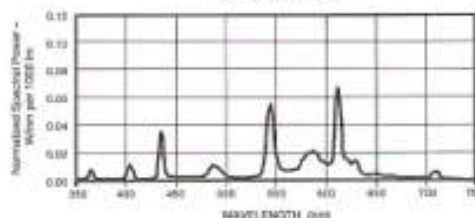
	(A) Maximum Overall Length (in.)	(B) Base Face to Opposite Pin (in.)	(C) Max. Base Face to Base Face (in.)	(D) Max. Outside Diameter (in.)
F028	47.78"	Min. 47.41" Max. 47.50"	47.22"	1.1"

### Technical Information

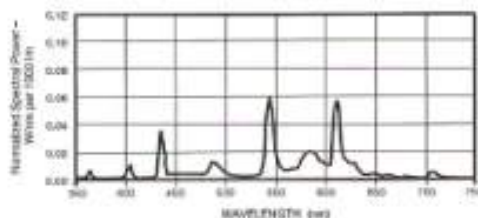
#### Typical Fluorescent Lamp Mortality



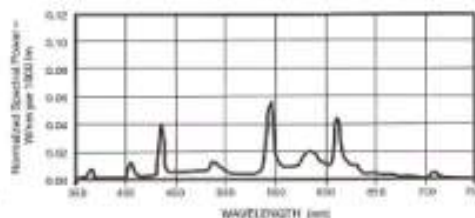
#### OCTRON 830



#### OCTRON 835



#### OCTRON 841



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Visit our website: [www.sylvania.com](http://www.sylvania.com)

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# DULUX® T/E/IN/EOL ECO®

## 4-Pin Amalgam Compact Fluorescent Lamps



- End-of-Life (EOL) shutdown protection
- Designed to pass Federal TCLP Test\*
- Improved high temperature performance
  - Maintains 90% lumens from 40° to 140°F ambient
- Operates on various ballast systems
  - Flicker free start on electronic ballasts
  - Compatible with QUICKTRONIC® System CF
- Less power consumption than incandescent of comparable light output
- High luminous efficacy
- Long 12,000 hour average rated life
  - Reduces relamping requirement and related cost
- Rare earth tri-phosphor with 82 CRI
- 2700K, 3000K, 3500K and 4100K



\* Regulations may vary. Check your local and state regulations.

ECOLOGIC® is a comprehensive program of OSRAM SYLVANIA focused on addressing environmental issues at all stages of lamp life.

**SYLVANIA DULUX T/E/IN/EOL ECO amalgam compact fluorescent lamps are ideal for use in a wide range of applications, including high temperatures. They are designed to be operated on energy efficient electronic and dimming ballasts.**

DULUX T/E/IN/EOL ECO amalgam lamps are ideal for fixtures where shorter overall length lamps with higher lumen packages are required and where lamps may operate at elevated temperatures. In addition, the delta tube configuration of these lamps provides an even light distribution.

### System Comparison

*Compact Fluorescent vs Incandescent*

Lamp Type	Rated Lamp Life	System Lumens	System Wattage	System LPW	Energy' Savings
100W Incandescent	750 hrs.	1710	100W	17	–
DULUX T/E/IN 26W w/ QUICKTRONIC CF	12,000 hrs.	1830	28W	65	\$86.00
150W Incandescent	750 hrs.	2740	150W	18.5	–
DULUX T/E/IN 42W w/ QUICKTRONIC CF	12,000 hrs.	3200	46W	70	\$124.00
200W Incandescent	750 hrs.	3650	200W	19	–
DULUX T/E/IN 57W w/ QUICKTRONIC CF	12,000 hrs.	4300	62W	69	\$165.00

1. Based on \$.10/kWh over 12,000 hours.

### Application Information

#### Applications

Recessed ceiling fixtures  
Industrial lighting  
Showcase lighting  
Wall sconces  
Task lighting  
Exit signs  
Garden and walkway lighting

#### Fixtures

Contact your local fixture agent for available fixtures.

#### Ballast Information

Contact your OSRAM SYLVANIA representative for a list of compatible operating systems.

#### Application Notes

1. 4-Pin lamps designed for dimming and electronic ballast operation.
2. Minimum starting temperature depends on ballast.
3. Rule of thumb: to estimate the appropriate compact fluorescent lamp wattage, divide the incandescent wattage by 4.
4. Equipment manufacturers are advised to consult ANSI and IEC standards for the maximum allowable dimensions and temperature to insure compatibility with similar products.
5. QUICKTRONIC System CF electronic ballasts available for all wattages: 18W, 26W, 32W, 42W, 57W & 70W.

SEE THE WORLD IN A NEW LIGHT **SYLVANIA**



## Sample Specification

Lamp(s) shall be (a) DULUX (CF18DT/E/IN, CF26DT/E/IN, CF32DT/E/IN, CF42DT/E/IN, CF57DT/E/IN or CF70DT/E/IN) EOL ECO lamps, with end-of-life shutdown protection and pass existing Federal TCLP limits. Lamp(s) shall have an average rated life of 12,000 hours, a correlated color temperature of (2700K, 3000K, 3500K or 4100K), and a CRI of 82. Lamps shall have a (GX24q-2, GX24q-3, GX24q-4, GX24q-5 or GX24q-6) plug-in, 4-pin base and be suitable for use on electronic and dimming ballasts. Lamps shall be operated by QUICKTRONIC ballasts. Both lamps and ballasts are covered by the QUICK 60+ system warranty.

## Warranty Information

### QUICK 60+ warranty for OSRAM SYLVANIA lamp and ballast combination

Limited 6 month lamp warranty and a five year ballast warranty is possible if both lamps and ballasts are provided by OSRAM SYLVANIA. See the QUICK 60+ warranty for details and restrictions.

## Ordering and Specification Information

Item Number	Ordering Abbreviation	NEMA Generic Designation	Base	Watts	Volts <sup>1</sup>	Amps <sup>1</sup>	Initial Lumens	Mean Lumens <sup>2</sup>	Color Temp.	CRI	Av. Rated Life(hrs.) <sup>3</sup>
20875	CF18DT/E/IN/827	CFM18W/GX24q/27	GX24q-2	18	80	.210	1200	1032	2700K	82	12,000
20876	CF18DT/E/IN/830	CFM18W/GX24q/30	GX24q-2	18	80	.210	1200	1032	3000K	82	12,000
20877	CF18DT/E/IN/835	CFM18W/GX24q/35	GX24q-2	18	80	.210	1200	1032	3500K	82	12,000
20878	CF18DT/E/IN/841	CFM18W/GX24q/41	GX24q-2	18	80	.210	1200	1032	4100K	82	12,000
20879	CF26DT/E/IN/827	CFM26W/GX24q/27	GX24q-3	26	80	.300	1800	1548	2700K	82	12,000
20880	CF26DT/E/IN/830	CFM26W/GX24q/30	GX24q-3	26	80	.300	1800	1548	3000K	82	12,000
20881	CF26DT/E/IN/835	CFM26W/GX24q/35	GX24q-3	26	80	.300	1800	1548	3500K	82	12,000
20882	CF26DT/E/IN/841	CFM26W/GX24q/41	GX24q-3	26	80	.300	1800	1548	4100K	82	12,000
20883	CF32DT/E/IN/827	CFM32W/GX24q/27	GX24q-3	32	100	.320	2400	2064	2700K	82	12,000
20884	CF32DT/E/IN/830	CFM32W/GX24q/30	GX24q-3	32	100	.320	2400	2064	3000K	82	12,000
20885	CF32DT/E/IN/835	CFM32W/GX24q/35	GX24q-3	32	100	.320	2400	2064	3500K	82	12,000
20886	CF32DT/E/IN/841	CFM32W/GX24q/41	GX24q-3	32	100	.320	2400	2064	4100K	82	12,000
20887	CF42DT/E/IN/827	CFM42W/GX24q/27	GX24q-4	42	135	.320	3200	2752	2700K	82	12,000
20888	CF42DT/E/IN/830	CFM42W/GX24q/30	GX24q-4	42	135	.320	3200	2752	3000K	82	12,000
20871	CF42DT/E/IN/835	CFM42W/GX24q/35	GX24q-4	42	135	.320	3200	2752	3500K	82	12,000
20890	CF42DT/E/IN/841	CFM42W/GX24q/41	GX24q-4	42	135	.320	3200	2752	4100K	82	12,000
20895	CF57DT/E/IN/827 <sup>4</sup>	CFM57W/GX24q/27	GX24q-5	57	182	.320	4300	3698	2700K	82	12,000
20896	CF57DT/E/IN/830 <sup>4</sup>	CFM57W/GX24q/30	GX24q-5	57	182	.320	4300	3698	3000K	82	12,000
20897	CF57DT/E/IN/835 <sup>4</sup>	CFM57W/GX24q/35	GX24q-5	57	182	.320	4300	3698	3500K	82	12,000
20899	CF57DT/E/IN/841 <sup>4</sup>	CFM57W/GX24q/41	GX24q-5	57	182	.320	4300	3698	4100K	82	12,000
20794	CF70DT/E/IN/827 <sup>4,5</sup>	CFM70W/GX24q/27	GX24q-6	70	220	.320	5200	4470	2700K	82	12,000
20795	CF70DT/E/IN/830 <sup>4,5</sup>	CFM70W/GX24q/30	GX24q-6	70	220	.320	5200	4470	3000K	82	12,000
20796	CF70DT/E/IN/835 <sup>4,5</sup>	CFM70W/GX24q/35	GX24q-6	70	220	.320	5200	4470	3500K	82	12,000
20797	CF70DT/E/IN/841 <sup>4,5</sup>	CFM70W/GX24q/41	GX24q-6	70	220	.320	5200	4470	4100K	82	12,000

1. @ 25 KHz

2. Measured at 40% (4800 hours) of rated life.

3. Based on 3 hours per start. Number of operating hours when half have failed and half are still operating.

4. EOL protection incorporated into all 57W and 70W DULUX T/E ballasts per NEMA guidelines.

5. TCLP testing in progress; expect results by June 2005.

## Ordering Guide

CF	26	DT	/	E	/	IN	/	835
Compact Fluorescent	Wattage 18, 26, 32, 42, 57 or 70 watts	DULUX Triple		For electronic and dimming ballasts		Amalgam		82 CRI 27 = 2700K 30 = 3000K 35 = 3500K 41 = 4100K

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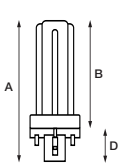
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### Special Markets

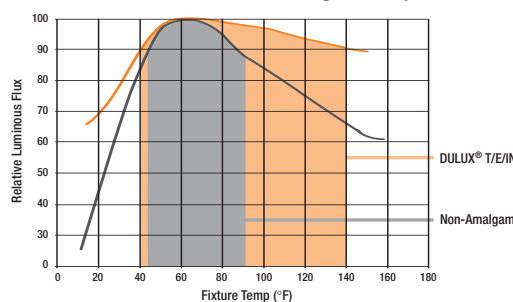
Phone: 1-800-265-2852  
Fax: 1-800-667-6772

## Dimensions

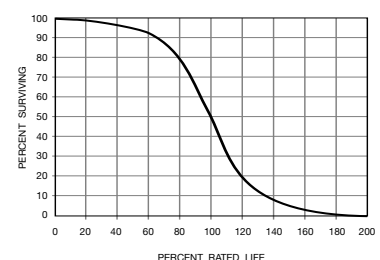
	(A) MOL [in. (mm)]	(B) Max. Base Face to Top of Lamp [in. (mm)]	(C) Max. Base Width [in. (mm)]	(D) Guide Post [in. (mm)]
	CF18T/E/IN 4.77 (111) CF26T/E/IN 4.96 (126) CF32T/E/IN 5.60 (142) CF42T/E/IN 6.42 (163) CF57T/E/IN 7.76 (197) CF70T/E/IN 9.25 (235)	3.74 (95) 4.33 (110) 4.96 (126) 5.79 (147) 7.13 (181) 8.62 (219)	1.90 (49) 1.90 (49) 1.90 (49) 1.90 (49) 1.90 (49) 1.90 (49)	0.62 (16) 0.62 (16) 0.62 (16) 0.62 (16) 0.62 (16) 0.62 (16)

## Technical Information

90% Lumen Performance Range  
DULUX® T/E/IN vs. Non-Amalgam Lamps



Typical Fluorescent Lamp Mortality



# DULUX® T/E/IN/EOL ECO®

## 4-Pin Amalgam Compact Fluorescent Lamps



- End-of-Life (EOL) shutdown protection
- Designed to pass Federal TCLP Test\*
- Improved high temperature performance
  - Maintains 90% lumens from 40° to 140°F ambient
- Operates on various ballast systems
  - Flicker free start on electronic ballasts
  - Compatible with QUICKTRONIC® System CF
- Less power consumption than incandescent of comparable light output
- High luminous efficacy
- Long 12,000 hour average rated life
  - Reduces relamping requirement and related cost
- Rare earth tri-phosphor with 82 CRI
- 2700K, 3000K, 3500K and 4100K



\* Regulations may vary. Check your local and state regulations.

ECOLOGIC® is a comprehensive program of OSRAM SYLVANIA focused on addressing environmental issues at all stages of lamp life.

**SYLVANIA DULUX T/E/IN/EOL ECO amalgam compact fluorescent lamps are ideal for use in a wide range of applications, including high temperatures. They are designed to be operated on energy efficient electronic and dimming ballasts.**

DULUX T/E/IN/EOL ECO amalgam lamps are ideal for fixtures where shorter overall length lamps with higher lumen packages are required and where lamps may operate at elevated temperatures. In addition, the delta tube configuration of these lamps provides an even light distribution.

### System Comparison

*Compact Fluorescent vs Incandescent*

Lamp Type	Rated Lamp Life	System Lumens	System Wattage	System LPW	Energy' Savings
100W Incandescent	750 hrs.	1710	100W	17	–
DULUX T/E/IN 26W w/ QUICKTRONIC CF	12,000 hrs.	1830	28W	65	\$86.00
150W Incandescent	750 hrs.	2740	150W	18.5	–
DULUX T/E/IN 42W w/ QUICKTRONIC CF	12,000 hrs.	3200	46W	70	\$124.00
200W Incandescent	750 hrs.	3650	200W	19	–
DULUX T/E/IN 57W w/ QUICKTRONIC CF	12,000 hrs.	4300	62W	69	\$165.00

1. Based on \$.10/kWh over 12,000 hours.

### Product Availability

Lamp	Wattage	Rated Lumens
CF18DT/E/IN	18	1200
CF26DT/E/IN	26	1800
CF32DT/E/IN	32	2400
CF42DT/E/IN	42	3200
CF57DT/E/IN	57	4300
CF70DT/E/IN	70	5200

### Application Information

#### Applications

Recessed ceiling fixtures  
Industrial lighting  
Showcase lighting  
Wall sconces  
Task lighting  
Exit signs  
Garden and walkway lighting

#### Fixtures

Contact your local fixture agent for available fixtures.

#### Ballast Information

Contact your OSRAM SYLVANIA representative for a list of compatible operating systems.

#### Application Notes

1. 4-Pin lamps designed for dimming and electronic ballast operation.
2. Minimum starting temperature depends on ballast.
3. Rule of thumb: to estimate the appropriate compact fluorescent lamp wattage, divide the incandescent wattage by 4.
4. Equipment manufacturers are advised to consult ANSI and IEC standards for the maximum allowable dimensions and temperature to insure compatibility with similar products.
5. QUICKTRONIC System CF electronic ballasts available for all wattages: 18W, 26W, 32W, 42W, 57W & 70W.

SEE THE WORLD IN A NEW LIGHT **SYLVANIA**



## Sample Specification

Lamp(s) shall be (a) DULUX (CF18DT/E/IN, CF26DT/E/IN, CF32DT/E/IN, CF42DT/E/IN, CF57DT/E/IN or CF70DT/E/IN) EOL ECO lamps, with end-of-life shutdown protection and pass existing Federal TCLP limits. Lamp(s) shall have an average rated life of 12,000 hours, a correlated color temperature of (2700K, 3000K, 3500K or 4100K), and a CRI of 82. Lamps shall have a (GX24q-2, GX24q-3, GX24q-4, GX24q-5 or GX24q-6) plug-in, 4-pin base and be suitable for use on electronic and dimming ballasts. Lamps shall be operated by QUICKTRONIC ballasts. Both lamps and ballasts are covered by the QUICK 60+ system warranty.

## Warranty Information

### QUICK 60+ warranty for OSRAM SYLVANIA lamp and ballast combination

Limited 6 month lamp warranty and a five year ballast warranty is possible if both lamps and ballasts are provided by OSRAM SYLVANIA. See the QUICK 60+ warranty for details and restrictions.

## Ordering and Specification Information

Item Number	Ordering Abbreviation	NEMA Generic Designation	Base	Watts	Volts <sup>1</sup>	Amps <sup>1</sup>	Initial Lumens	Mean Lumens <sup>2</sup>	Color Temp.	CRI	Av. Rated Life(hrs.) <sup>3</sup>
20875	CF18DT/E/IN/827	CFM18W/GX24q/27	GX24q-2	18	80	.210	1200	1032	2700K	82	12,000
20876	CF18DT/E/IN/830	CFM18W/GX24q/30	GX24q-2	18	80	.210	1200	1032	3000K	82	12,000
20877	CF18DT/E/IN/835	CFM18W/GX24q/35	GX24q-2	18	80	.210	1200	1032	3500K	82	12,000
20878	CF18DT/E/IN/841	CFM18W/GX24q/41	GX24q-2	18	80	.210	1200	1032	4100K	82	12,000
20879	CF26DT/E/IN/827	CFM26W/GX24q/27	GX24q-3	26	80	.300	1800	1548	2700K	82	12,000
20880	CF26DT/E/IN/830	CFM26W/GX24q/30	GX24q-3	26	80	.300	1800	1548	3000K	82	12,000
20881	CF26DT/E/IN/835	CFM26W/GX24q/35	GX24q-3	26	80	.300	1800	1548	3500K	82	12,000
20882	CF26DT/E/IN/841	CFM26W/GX24q/41	GX24q-3	26	80	.300	1800	1548	4100K	82	12,000
20883	CF32DT/E/IN/827	CFM32W/GX24q/27	GX24q-3	32	100	.320	2400	2064	2700K	82	12,000
20884	CF32DT/E/IN/830	CFM32W/GX24q/30	GX24q-3	32	100	.320	2400	2064	3000K	82	12,000
20885	CF32DT/E/IN/835	CFM32W/GX24q/35	GX24q-3	32	100	.320	2400	2064	3500K	82	12,000
20886	CF32DT/E/IN/841	CFM32W/GX24q/41	GX24q-3	32	100	.320	2400	2064	4100K	82	12,000
20887	CF42DT/E/IN/827	CFM42W/GX24q/27	GX24q-4	42	135	.320	3200	2752	2700K	82	12,000
20888	CF42DT/E/IN/830	CFM42W/GX24q/30	GX24q-4	42	135	.320	3200	2752	3000K	82	12,000
20871	CF42DT/E/IN/835	CFM42W/GX24q/35	GX24q-4	42	135	.320	3200	2752	3500K	82	12,000
20890	CF42DT/E/IN/841	CFM42W/GX24q/41	GX24q-4	42	135	.320	3200	2752	4100K	82	12,000
20895	CF57DT/E/IN/827 <sup>4</sup>	CFM57W/GX24q/27	GX24q-5	57	182	.320	4300	3698	2700K	82	12,000
20896	CF57DT/E/IN/830 <sup>4</sup>	CFM57W/GX24q/30	GX24q-5	57	182	.320	4300	3698	3000K	82	12,000
20897	CF57DT/E/IN/835 <sup>4</sup>	CFM57W/GX24q/35	GX24q-5	57	182	.320	4300	3698	3500K	82	12,000
20899	CF57DT/E/IN/841 <sup>4</sup>	CFM57W/GX24q/41	GX24q-5	57	182	.320	4300	3698	4100K	82	12,000
20794	CF70DT/E/IN/827 <sup>4,5</sup>	CFM70W/GX24q/27	GX24q-6	70	220	.320	5200	4470	2700K	82	12,000
20795	CF70DT/E/IN/830 <sup>4,5</sup>	CFM70W/GX24q/30	GX24q-6	70	220	.320	5200	4470	3000K	82	12,000
20796	CF70DT/E/IN/835 <sup>4,5</sup>	CFM70W/GX24q/35	GX24q-6	70	220	.320	5200	4470	3500K	82	12,000
20797	CF70DT/E/IN/841 <sup>4,5</sup>	CFM70W/GX24q/41	GX24q-6	70	220	.320	5200	4470	4100K	82	12,000

1. @ 25 KHz

2. Measured at 40% (4800 hours) of rated life.

3. Based on 3 hours per start. Number of operating hours when half have failed and half are still operating.

4. EOL protection incorporated into all 57W and 70W DULUX T/E ballasts per NEMA guidelines.

5. TCLP testing in progress; expect results by June 2005.

## Ordering Guide

CF	26	DT	/	E	/	IN	/	835
Compact Fluorescent	Wattage 18, 26, 32, 42, 57 or 70 watts	DULUX Triple		For electronic and dimming ballasts		Amalgam		82 CRI 27 = 2700K 30 = 3000K 35 = 3500K 41 = 4100K

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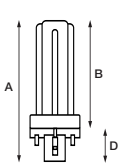

### Industrial & Commercial

Phone: 1-800-263-2852  
Fax: 1-800-667-6772

### Special Markets

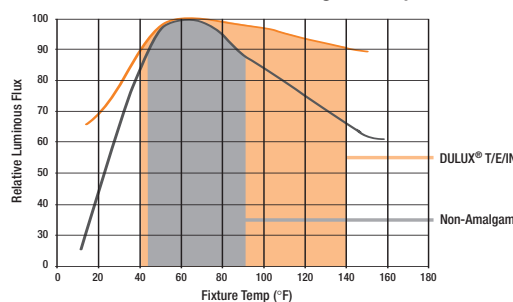
Phone: 1-800-265-2852  
Fax: 1-800-667-6772

## Dimensions

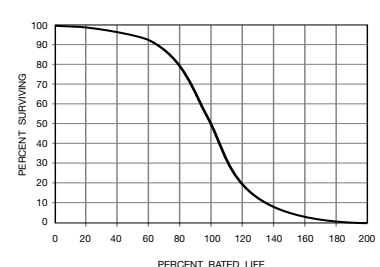
	(A) MOL [in. (mm)]	(B) Max. Base Face to Top of Lamp [in. (mm)]	(C) Max. Base Width [in. (mm)]	(D) Guide Post [in. (mm)]
	CF18T/E/IN 4.77 (111)	3.74 (95)	1.90 (49)	0.62 (16)
	CF26T/E/IN 4.96 (126)	4.33 (110)	1.90 (49)	0.62 (16)
	CF32T/E/IN 5.60 (142)	4.96 (126)	1.90 (49)	0.62 (16)
	CF42T/E/IN 6.42 (163)	5.79 (147)	1.90 (49)	0.62 (16)
	CF57T/E/IN 7.76 (197)	7.13 (181)	1.90 (49)	0.62 (16)
	CF70T/E/IN 9.25 (235)	8.62 (219)	1.90 (49)	0.62 (16)

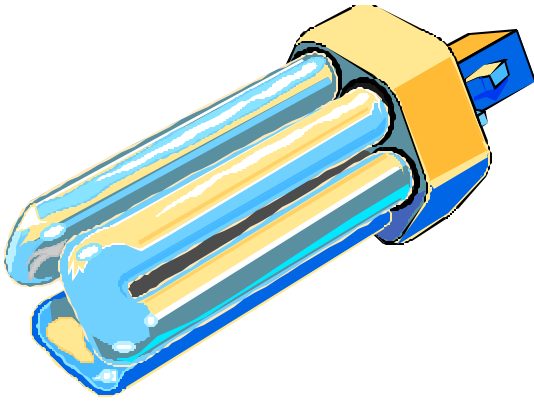
## Technical Information

90% Lumen Performance Range  
DULUX® T/E/IN vs. Non-Amalgam Lamps



Typical Fluorescent Lamp Mortality





**SYLVANIA, DULUX<sup>®</sup>T lamps are ideal for fixtures where shorter overall length and higher lumen packages are required. They are more compact than the 18 and 26 watt DULUX<sup>®</sup> D.**

\* DULUX is a registered trademark of OSRAM GmbH Germany, used under license by OSRAM SYLVANIA INC.

## Product Information Bulletin

### DULUX<sup>®</sup> T (2-Pin) Compact Fluorescent Lamps

- Uses about 75% less energy than incandescent lamps of comparable lumen output
- 10,000 hour average rated life
  - Reduces re-lamping and related costs
- 82 CRI, rare earth triphosphors
- 2700K color temperature
- High luminous efficacy
- Designed for operation on magnetic ballasts
- Plug-in base with integral starter and interference suppresser
- Smallest base available compared to lamps of equal or greater wattage
- Direct replacement for 18 and 26 watt Dulux D

The delta tube configuration of the DULUX T lamp is preferred by fixture manufacturers for its radially symmetrical light output.

#### PRODUCT AVAILABILITY

Lamp Type	Wattage	Rated Lumens
CF18DT/827	18	1200
CF26DT/827	26	1800

#### 1 LAMP SYSTEM COMPARISONS

Lamp Type	Ballast Factor	System Lumens	System Wattage	System LPW	Energy Savings
100 Watt -Incandescent	N/A	1750	100	17	-
26 Watt -DULUX T	0.95	1710	33	52	67%

#### APPLICATION INFORMATION

##### Typical Applications:

- Downlights
- Sconces
- Wall washers
- Task lights
- Pendant fixtures

##### Application Notes:

- Designed for preheat magnetic ballast operation
- Equipment manufacturers are advised to consult the relevant ANSI and IEC standards for the maximum allowable dimensions and temperature to insure compatibility with similar products

#### ORDERING AND SPECIFICATION INFORMATION

Package Quantity = 50

Item Number	Ordering Abbreviation	Base	Watts	Volts	Amps.	Initial Lumens	Mean Lumens	Color Temp.	CRI	Rated Life	Min. Start-ing Temp. (F/ C)
20756	CF18DT/827	GX24d-2	18	100	0.225	1,200	1080	2700K	82	10,000	-4/-20
20752	CF26DT/827	GX24d-3	26	105	0.325	1,800	1620	2700K	82	10,000	14/-10



## ORDERING GUIDE

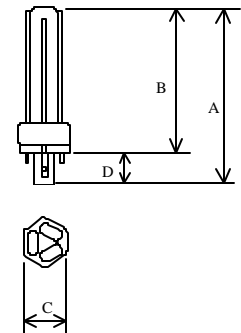
Compact Fluorescent \_\_\_\_\_ **CF18DT/827** \_\_\_\_\_ 27=2700K  
18=Watts \_\_\_\_\_ 8=82 CRI  
\_\_\_\_\_ **DULUX® Triple**

## SAMPLE SPECIFICATION

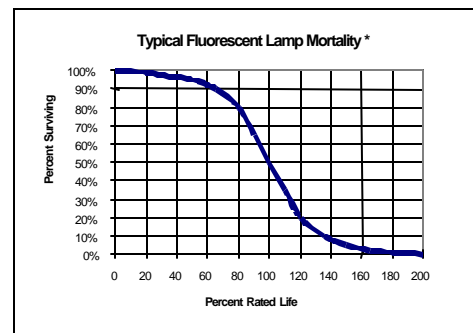
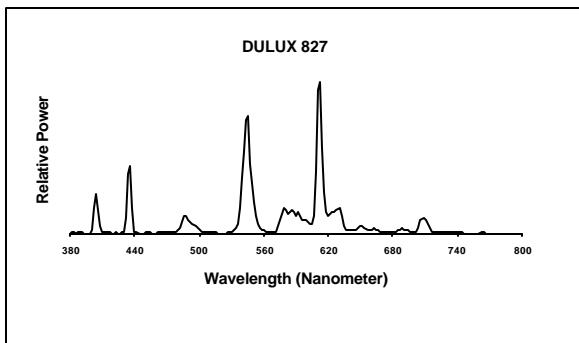
Lamps shall be DULUX T CF18DT/827 or CF26DT/827. The lamps shall have a correlated color temperature of 2700 K and an 82 CRI. Lamps shall have a 2-pin base (GX24d-2 or GX24d-3) with integral starter.

## DIMENSIONS

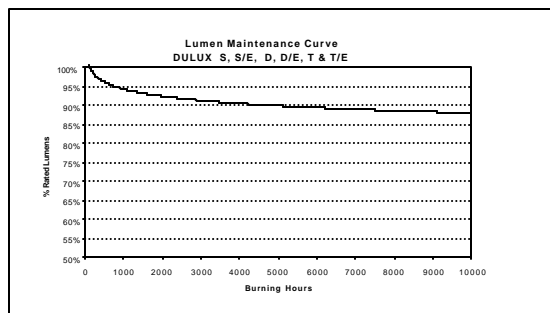
Ordering Abbreviation	(A) Max. Overall Length [in (mm)]	(B) Max. Base Face to Top of Lamp [in (mm)]	(C) Max. Base width [in (mm)]	(D) Guide Post [in (mm)]
CF18DT	4.84 (123)	3.85 (98)	1.90 (49)	0.9 (23)
CF26DT	5.43 (138)	4.43 (112.5)	1.90 (49)	0.9 (23)



## TECHNICAL INFORMATION



\* Source: IES Lighting Book



## FOR ORDERS AND GENERAL INFORMATION

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**OSRAM**  
**SYLVANIA**

# OCTRON® 800 XP™ ECOLOGIC®

## Fluorescent Lamps



- **EX**tended **P**erformance OCTRON ECOLOGIC T8 designed to pass Federal TCLP test\*
- Average rated life of 24,000 hours
  - 20% longer than conventional T8
  - Maintains 95% lumens at 8000 hrs.
  - 94% at 9600 hrs.
  - Improved CRI - 85
  - Available in 2700K, 3000K, 3500K, 4100K & 5000K
  - 17W, 25W, 32W & 40W
- Compatible with QUICKTRONIC electronic, high frequency ballasts
- Extend re-lamp cycles
- Options
  - Higher light levels
  - Use fewer fixtures
  - Use low-power ballast
  - Use fewer lamps with high power ballast

The SYLVANIA OCTRON 800 XP ECOLOGIC fluorescent lamps provide 20% longer life, higher initial and maintained lumens, improved color rendition and longer relamp periods compared to conventional T8 lamps. Because of their longer life, OSRAM SYLVANIA offers an improved system warranty with the use of OCTRON 800 XP ECOLOGIC lamps on our QUICKTRONIC® electronic ballasts. (See QUICK 60+® warranty on page 2.)

OCTRON 800 XP ECOLOGIC lamps operate on the same ballasts as OCTRON T8 lamps. OCTRON lamps are designed to operate on instant start, rapid start and programmed rapid start ballasts. These ballasts include standard, high and low power models thus offering the choice to maximize light output or energy savings.

ECOLOGIC® is a comprehensive program of OSRAM SYLVANIA focused on addressing environmental issues at all stages of lamp life.



SYLVANIA OCTRON 800 XP ECOLOGIC fluorescent lamps are designed to satisfy the Federal Toxicity Characteristic Leaching Procedure (TCLP) criteria for classification as non-hazardous waste in most states.\*

\*Regulations may vary. Check your local and state regulations.

### Application Information

Applications	Application Notes
Office	1. Lamps starting down to 0°F (dependent on ballast)
Schools	2. Operation below 50°F may affect lumen output or lamp operation.
Retail	3. For cold temperature applications, use in enclosed fixture or use tube guard to maximize lamp performance.
General lighting	4. For rapid start operation, check with ballast manufacturer for ground plane requirement.
	5. For maximum energy savings, operate on electronic instant start ballast.

### Product Availability

LampType	Initial Lumens	Average Rated Life (hrs)*
F017/830XP/ECO	1400	24,000
F017/835XP/ECO	1400	24,000
F017/841XP/ECO	1400	24,000
F025/830XP/ECO	2250	24,000
F025/835XP/ECO	2250	24,000
F025/841XP/ECO	2250	24,000
F032/827XP/ECO	3000	24,000
F032/830XP/ECO	3000	24,000
F032/835XP/ECO	3000	24,000
F032/841XP/ECO	3000	24,000
F032/850XP/ECO	3000	24,000
F040/830XP/ECO	3870	24,000
F040/835XP/ECO	3870	24,000
F040/841XP/ECO	3870	24,000

\*Based on 3hrs/start on 60 hertz magnetic rapid start ballast

**SYLVANIA**



### Sample Specification

Lamp(s) shall be OCTRON 800XP ECOLOGIC lamp(s) (FO32/800XP/ECO, FO17/800XP/ECO, FO25/800XP/ECO or FO40/800XP/ECO) having medium bi-pin bases. Lamp(s) shall be designed to pass the existing Federal TCLP test in force at time of manufacture. Lamp(s) shall have an average rated life of 24,000 hours, (3000, 1400, 2250, 3870) initial lumens, (2850, 1330, 2138, 3677) mean lumens at 8000 hours, a correlated color temperature of (2700K, 3000K, 3500K, 4100K or 5000K) and a CRI of 85. The OCTRON lamp(s) shall be operated on dedicated QUICKTRONIC ballasts with complete system warranty from the manufacturer covering lamp(s) and ballast(s).

### Warranty Information

**QUICK 60+ warranty**  
**OSRAM SYLVANIA lamp and ballast combination**  
Limited three year lamp warranty and a five year ballast warranty is possible if both lamps and ballasts are provided by OSRAM SYLVANIA. See the QUICK 60+ warranty for details and restrictions.

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### Special Markets

Phone: 1-800-265-2852  
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## System Comparison

Lamp Type	Lamp Lumens	Lamp Life (hrs)	# Lamps	Ballast	bf	System Watts	System Lumens	System Lumens @8000 hrs	Relative Lumens	% Life	% Energy Savings
F032/700/ECO	2800	20,000	3	QT3x32ISN	0.90	87	7560	6800	100%	100%	-
F032/800/ECO	2950	20,000	3	QT3x32ISN	0.90	87	7965	7330	108%	100%	0%
F032/800XP/ECO	3000	24,000	3	QT3x32ISN	0.90	87	8100	7695	113%	120%	0%
F032/800XP/ECO	3000	24,000	3	QT3x32ISL	0.77	76	6930	6585	97%	120%	13%
F032/800XP/ECO	3000	24,000	3	QT3x32ISH	1.18	112	10,620	10,090	148%	120%	-29%
F032/800XP/ECO	3000	24,000	2	QT2x32ISH	1.20	78	7200	6840	101%	120%	10%

## Ordering and Specification Information

OCTRON 800 XP ECOLOGIC SERIES LINEAR T8 FLUORESCENT LAMPS, (85 CRI, MEDIUM BI-PIN BASE)

Item Number	Ordering Abbreviation	Nominal Length (in)	Average Rated Life (Hours)*	Initial Lumens	Mean Lumens @8000 hrs.	Mean Lumens @9600 hrs.	Color Temp.	CRI
21785	F017/830XP/ECO	24	24,000	1400	1330	1316	3000K	85
21778	F017/835XP/ECO	24	24,000	1400	1330	1316	3500K	85
21907	F017/841XP/ECO	24	24,000	1400	1330	1316	4100K	85
21910	F025/830XP/ECO	36	24,000	2250	2138	2115	3000K	85
21776	F025/835XP/ECO	36	24,000	2250	2138	2115	3500K	85
21774	F025/841XP/ECO	36	24,000	2250	2138	2115	4100K	85
22039	F032/827XP/ECO	48	24,000	3000	2850	2820	2700K	85
21759	F032/830XP/ECO	48	24,000	3000	2850	2820	3000K	85
21763	F032/835XP/ECO	48	24,000	3000	2850	2820	3500K	85
21767	F032/841XP/ECO	48	24,000	3000	2850	2820	4100K	85
22026	F032/850XP/ECO	48	24,000	3000	2850	2820	5000K	85
21912	F040/830XP/ECO	60	24,000	3870	3677	3638	3000K	85
21911	F040/835XP/ECO	60	24,000	3870	3677	3638	3500K	85
21916	F040/841XP/ECO	60	24,000	3870	3677	3638	4100K	85

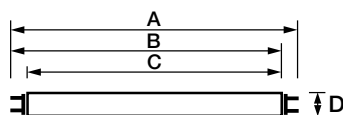
\* Based on 3 hours per start on magnetic rapid start ballast. Average rated life of 18,000 hrs. at 3 hrs/start and 26,000 hrs. at 12 hrs/start on instant start ballasts.

## Ordering Guide

F0	32	/	835	XP	/	ECO
Fluorescent	Wattage:		8=85 CRI	EXtended		ECOLOGIC
OCTRON	17, 25, 32		27=2700K	Performance		
	or 40 watts		30=3000K			
			35=3500K			
			41=4100K			
			50=5000K			

F096/800XP/ECO lamps are also available.  
For 6500K color temperature lamps, ask about the OCTRON 865 XP ECOLOGIC family of lamps.

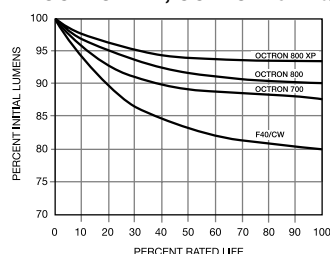
## Dimensions



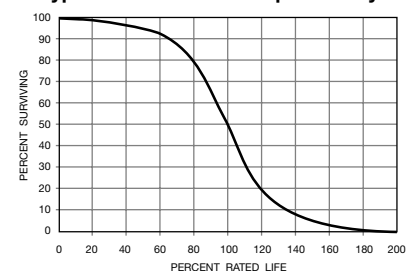
Lamp Type	(A) Max. Overall Length (in)	(B) Base Face to Opposite Pin (in)	(C) Max. Base Face to Base Face (in)	(D) Max. Outside Diameter (in)
F017	23.78	23.41	23.50	1.1
F025	35.78	35.40	35.50	1.1
F032	47.78	47.41	47.50	1.1
F040	59.61	59.24	59.33	1.1

## Technical Information

Lumen Maintenance  
OCTRON XP, OCTRON & F40/CW



Typical Fluorescent Lamp Mortality\*



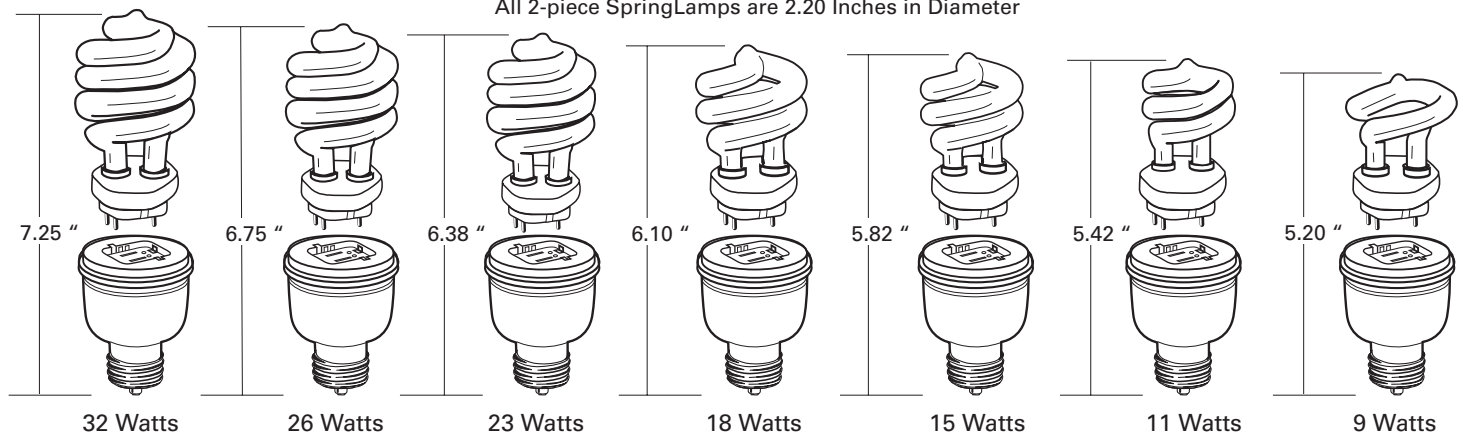
\* Source: IES Lighting Book

# SpringLamp® 2-Piece SPECIFICATIONS

**Lamp Type:** 2-Piece SpringLamp® Compact Fluorescent, 159 series NPF, 160 series HPF

Item #	Watts	Incandescent Wattage Comparison	Initial Lumens	Color Rendering Index	Input Line Current	Total Harmonic Distortion	Power Factor	Replacement Lamps
15909L	9	35	400	82	.16A	<150%	> .50	35009
15911L	11	40	550	82	.19A	<150%	> .50	35011
15915L	15	60	930	82	.24A	<150%	> .50	35015
15918L	18	60	1150	82	.29A	<150%	> .50	35018
15923L	23	90	1400	82	.35A	<150%	> .50	35023
15926L	26	100	1750	82	.45A	<150%	> .50	35026
15932L	32	120	2100	82	.49A	<150%	> .50	35032
16009L	9	35	400	84	.09A	< 33%	> .90	35009
16011L	11	40	550	84	.11A	< 33%	> .90	35011
16015L	15	60	930	84	.15A	< 33%	> .90	35015
16018L	18	75	1150	84	.18A	< 33%	> .90	35018
16023L	23	90	1400	84	.20A	< 33%	> .90	35023
16026L	26	100	1750	84	.23A	< 33%	> .90	35026

All 2-piece SpringLamps are 2.20 Inches in Diameter



## Features and Benefits:

- Long life, 10,000 hour average rated lamp life  
50,000 hour average rated ballast life
- Lasts 7 years, based on 4 hours use per day
- Lasts 10-13 times longer than similar incandescent
- Replace less often, ideal for hard to reach places
- Lower maintenance and labor costs for lamp replacements
- 2700°K color temperature closest to incandescent light
- Quick run-up time
- Instant start, flicker free
- End of Life logic guards against violent failures
- World class phosphor insures high lumen output and excellent lumen maintenance

## Specifications ( at full brightness )

End of Life Protection-----	Yes
Ballast Type -----	Electronic
Starting Method -----	Modified Rapid Start
Input Line Voltage -----	120VAC
Input Line Frequency -----	60HZ
Lamp Life (rated) -----	10,000 Hours
Ballast Life (rated) -----	50,000 Hours
Color Temperature -----	2700°K
Minimum Starting Temperature --	-20 ° F
Maximum Operating Temperature -	160 ° F
U.L. / C.U.L. Listed -----	Yes
FCC Compliance -----	Part 18, Subpart C
Lamp Operating Frequency -----	45 KHZ
Lamp Current Crest Factor -----	< 1.60
Maximum Open Circuit Voltage --	600V

## Applications:

- Use anywhere a standard incandescent is used.



Perfect for:

- Table lamps
- Floor lamps
- Ceiling fixtures
- Closet lights



ISO 9002  
CERTIFIED

12 MONTH  
WARRANTY

**TCPI** TECHNICAL  
CONSUMER  
PRODUCTS, INC.  
*Lighting the Way to Energy Efficiency*

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PHONE: (330) 995-6111 or 1-800-324-1496  
FAX: (330) 995-6188  
E-MAIL: sales@springlamp.com  
www.tcpi.com

SL159/160-403

# SYLVANIA DULUX® EL

## Electronic Compact Fluorescent Lamps



**Classic A-line, Twist and Triple lamps may be used to replace ordinary incandescent lamps, while Mini Twist lamps with improved efficacy and a diminutive shape are ideal for smaller fixtures.**

DULUX EL lamps are also available to replace incandescent reflector lamps. The modular Circline lamp is popular for use in table and floor lamps. The Decor and Globe lamps may be used in chandeliers and vanity fixtures, respectively.

With excellent color rendition across a broad range of color temperature options, DULUX EL lamps are a brilliant alternative to incandescent and halogen.

- Saves 75% in energy compared to similar lumen output incandescent lamps
- Variety of shapes and wattages to satisfy most applications
- 6000 – 10,000 hour average rated lamp life
- Flicker-free starting
- 2700K – warm white deluxe, similar to incandescent
- 3000K – soft white, similar to halogen lamps
- 3500K – *Daylight EXTRA™*, white and more natural light
- 4100K
- 5000K – Full Spectrum
- 82 CRI
- Circline available in 8" diameter
- Medium base for easy replacement of ordinary incandescent lamps



### Product Availability

Lamp Type	Wattage
General Purpose Triple	20W, 23W
Mini Twist	7W, 11W, 13W, 19W, 23W, 30W
Twist	20W, 23W, 27W, 30W, 40W, 65W
3-Way Twist	28W
Modular Circline	30W
Classic	9W, 14W A19, A-shape
Globe	9W/G25, 15W/G30
Bullet	15W/B20
Decor	4W, 7W, 9W
Reflector	9W/R20, 14W/R20, 15W/BR30, 16W/BR30, 20W/BR40, 22W/PAR38, 23W/BR40, 23W/PAR38
Dimmable	15W/BR30
Super Mini Twist	13W
Dura One	23W/BR30

### Application Information

#### Applications

Sconces  
Table lamps  
Ceiling fixtures  
Decorative & vanity fixtures  
Security lighting  
Difficult to service areas

#### Application Notes

1. DULUX EL lamps cannot be installed on dimming circuits, unless the lamp is labelled as dimmable.
2. Outdoor application — use only in enclosed fixtures to avoid exposure to weather

3. Do not use in emergency exit fixtures or lights
4. Do not use on electronic timers, photocells, lighted switches or any other switches that do not meet UL20 Sec. 7.6.15
5. Meets CSA, FCC and UL requirements
6. Never disassemble or modify lamp except for replacing 30W Circline lamps
7. Use only 120V AC, 60Hz circuit
8. Install and remove lamp from fixture grasping plastic base
9. Best performance achieved when operated at 77°F/25°C
10. 40 Watt lamp is designed for base down orientation only



## Ordering and Specification Information

	Item Number	Ordering Abbreviation	Pkg.	Bulb Type	Replaced Incandescent Wattage	Nominal Wattage	Initial Lumens	Color Temp.	CRI	Average Rated Life (hrs.)
Mini Twist	29451	CF7EL/MINITWIST/2700K	1/box, 6/cs	Mini Twist	25	7	375	2700K	82	8000
	29379	CF7EL/MINITWIST/1	1/box, 6/cs	Mini Twist	25	7	375	3000K	82	8000
	29371	CF7EL/MINITWIST/BL/1	1/blister, 6/cs	Mini Twist	25	7	375	3000K	82	8000
	29378	CF11EL/MINITWIST/1	1/box, 6/cs	Mini Twist	40	11	600	3000K	82	8000
	29364	CF11EL/MINITWIST/BL/1	1/blister, 6/cs	Mini Twist	40	11	600	3000K	82	8000
	29449	CF13EL/SUPERMINITWIST/BL/1	1/blister, 10cs	Mini Twist	60	13	900	3000K	82	10,000
	29588	CF13EL/SUPERMINITWIST/5K/1BL	1/blister, 10cs	Mini Twist	60	13	800	5000K	82	10,000
	29409	CF13EL/MINITWIST/2700K	1/box, 6/cs	Mini Twist	60	13	800	2700K	82	10,000
	29376	CF13EL/MINITWIST/1	1/box, 6/cs	Mini Twist	60	13	800	3000K	82	8000
	29116	CF13EL/MINITWIST/BL/1	1/blister, 6/cs	Mini Twist	60	13	800	3000K	82	8000
	29151	CF13EL/MINITWIST/DAY	1/box, 6/cs	Mini Twist	60	13	800	3500K	82	8000
	29169	CF13EL/MINITWIST/DAY/BL/1	1/blister, 6/cs	Mini Twist	60	13	800	3500K	82	8000
	29567	CF13EL/MINITWIST/4100K	1/box, 6/cs	Mini Twist	60	13	800	4100K	82	10,000
	29626	CF13EL/MINITWIST/5000K/BL/1	1/blister, 6/cs	Mini Twist	60	13	800	5000K	82	10,000
	29410	CF19EL/MINITWIST/2700K	1/box, 6/cs	Mini Twist	75	19	1200	2700K	82	10,000
	29396	CF19EL/MINITWIST	1/box, 6/cs	Mini Twist	75	19	1200	3000K	82	8000
	29347	CF19EL/MINITWIST/BL/1	1/blister, 5/cs	Mini Twist	75	19	1200	3000K	82	8000
	29411	CF23EL/MINITWIST/2700K	1/box, 6/cs	Mini Twist	100	23	1600	2700K	82	10,000
	29397	CF23EL/MINITWIST	1/box, 6/cs	Mini Twist	100	23	1600	3000K	82	8000
	29394	CF23EL/MINITWIST/BL/1	1/blister, 5/cs	Mini Twist	100	23	1600	3000K	82	8000
	29417	CF23EL/MINITWIST/DAY/BL/1	1/blister, 5/cs	Mini Twist	100	23	1600	3500K	82	8000
	29576	CF23EL/MINITWIST/5K/1BL	1/blister, 6/cs	Mini Twist	100	23	1600	5000K	82	8000
	29564	CF23EL/MINITWIST/4100K	1/box, 6/cs	Mini Twist	100	23	1600	4100K	82	10,000
	29578	CF30EL/MINITWIST/DAY	1/box, 5/cs	Mini Twist	100	30	2000	3500K	82	6000
Twist	29287	CF20EL/TWIST	1/box, 6/cs	Twist	75	20	1200	3000K	82	10,000
	29288	CF23EL/TWIST	1/box, 6/cs	Twist	90	23	1450	3000K	82	10,000
	29412	CF27EL/TWIST/2700K	1/box, 6/cs	Twist	100	27	1750	2700K	82	10,000
	29390	CF27EL/TWIST	1/box, 6/cs	Twist	100	27	1750	3000K	82	10,000
	29415	CF30EL/TWIST/2700K	1/box, 6/cs	Twist	100	30	2000	2700K	82	10,000
	29395	CF30EL/TWIST	1/box, 6/cs	Twist	100	30	2000	3000K	82	10,000
	29392	CF30EL/TWIST/1/BL	1/blister, 5/cs	Twist	100	30	2000	3000K	82	6000
	29147	CF40EL/TWIST/2700K	1/box, 6/cs	Twist	150	40	2600	2700K	82	8000
	29481	CF40EL/TWIST/1BL	1/blister, 10cs	Twist	150	40	2600	3000K	82	6000
	29508	CF65EL/TWIST	1/box, 6/cs	Twist	200	65	4200	4100K	82	8000
3-Way Twist	29523	CF28EL/3WAY/TWIST/2700K	1/box, 6/cs	Twist	30	12	600	2700K	82	6000
				Twist	70	19	1100	2700K	82	6000
				Twist	100	28	1800	2700K	82	6000
	29351	CF28EL/3WAY/TWIST/1	1/box, 6/cs	Twist	30	12	600	3000K	82	6000
				Twist	70	19	1100	3000K	82	6000
				Twist	100	28	1800	3000K	82	6000
	29349	CF28EL/3WAY/TWIST/1/BL	1/blister, 5/cs	Twist	30	12	600	3000K	82	6000
				Twist	70	19	1100	3000K	82	6000
				Twist	100	28	1800	3000K	82	6000
Classic A-line	29468	CF14EL/A19	1/box, 6/cs	A	60	14	800	3000K	82	6000
	29485	CF14EL/A19/3K/BL	1/blister, 6/cs	A	60	14	800	3000K	82	8000
	29526	CF9WEL/FAN/2BL	2/blister, 12/cs	A	40	9	475	3000K	82	8000
Bullet	29196	CF14EL/B/830/MED	1/box, 6/cs	B20	60	15	700	3000K	82	6000
Triple	29308	CF20EL/830/MED/1	1/box, 6/cs	T4	75	20	1200	3000K	82	10,000
	29310	CF23EL/830/MED/1	1/box, 6/cs	T4	90	23	1450	3000K	82	10,000

	Item Number	Ordering Abbreviation	Pkg.	Bulb Type	Replaced Incandescent Wattage	Nominal Wattage	Initial Lumens	Color Temp.	CRI	Average Rated Life (hrs.)
<b>Globe</b>	29495	CF9EL/G25/3K/1/BL	1/blister, 6/cs	G25	40	9	495	3000K	82	8000
	29414	CF9EL/G25/2700K	1/box, 6/cs	G25	40	9	495	2700K	82	8000
	29528	CF9WEL/G25/2PK	2/blister, 12/cs	G25	40	9	495	3000K	82	8000
	29195	CF14EL/G/830/MED	1/box, 6/cs	G30	60	14	700	3000K	82	6000
	29533	CFEL15W/G30/5000K	1/box, 6/cs	G30	60	15	700	5000K	82	6000
<b>Décor</b>	29121	CF4EL/DECO/CANDELABRA/1/BL	1/blister, 6/cs	FLAME	15	4	170	3000K	82	6000
	29167	CF7EL/DECO/MEDIUM/1/BL	1/blister, 6/cs	FLAME	25	7	280	3000K	82	6000
	29584	CF9EL/CANDELABRA/2BL/12	2/blister, 12/cs	FLAME	40	9	450	3000K	82	8000
<b>Specialty</b>	29346	CF14EL/A19/1/BL/Yellow	1/pk8 box, 5/cs	A19	n/a	14	405	—	82	6000
	29294	CF30EL/CIRC/830/MED	1/box, 6/cs	8" dia.	100	30	1800	3000K	82	10,000 <sup>1</sup>
<b>Reflector</b>	29465	CF15EL/BR30/DIMMABLE/2700K <sup>2</sup>	1/blister, 6/cs	BR30	65	15	600	2700K	82	6000
	29667	CF15EL/BR30/DIMMABLE/1/BL	1/blister, 6/cs	BR30	65	15	600	3000K	82	6000
	29565	CF16EL/BR30/1/BL/6	1/blister, 6/cs	BR30	65	16	750	3000K	82	8000
	29590	CF16EL/BR30	1/box, 6/cs	BR30	65	16	750	3000K	82	8000
	29591	CF16EL/BR30/2700K	1/box, 6/cs	BR30	65	16	750	2700K	82	8000
	29399	CF20EL/BR40/2700K	1/box, 6/cs	BR40	75	20	900	2700K	82	8000
	29442	CF23EL/BR40/BL/1	1/blister, 6/cs	BR40	90	23	1250	3000K	82	8000
	29363	CF20EL/BR40	1/box, 6/cs	BR40	75	20	900	3000K	82	8000
	29535	CF23RC/BR30/2700K	1/box, 6/cs	BR30	90	23	1100	2700K	82	15,000
	29539	CF15EL/BR30/5000K/BL/1	1/blister, 6/cs	BR30	65	15	560	5000K	82	6000
	29624	CF14EL/R20/2700K	1/box, 6/cs	R20	60	14	495	2700K	82	8000
	29638	CF9EL/R20/2700K	1/box, 6/cs	R20	40	9	300	2700K	82	8000
	29587	CF14EL/R20/BL/1	1/blister, 6/cs	R20	60	14	500	3000K	82	8000
	29586	CF23EL/PAR38/BL/1	1/blister, 6/cs	PAR38	75	23	1450	3000K	82	8000
	29359	CF22EL/PAR38/2700K	1/box, 6/cs	PAR38	75	22	950	2700K	82	6000

<sup>1</sup> Average Rated Life: 10,000 hours for lamp, 50,000 hours for ballast

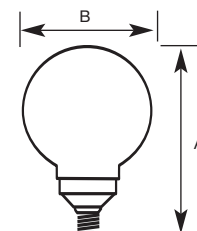
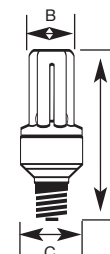
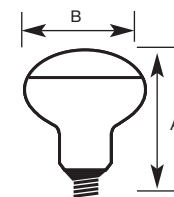
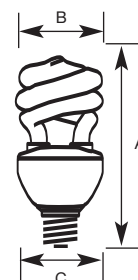
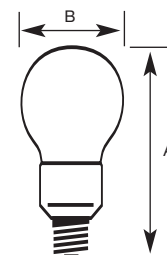
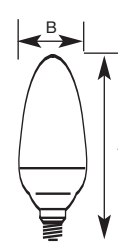
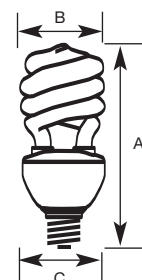
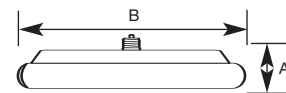
<sup>2</sup> May be used with standard electronic incandescent wall dimmers.

Operating temperature range of all DULUX EL lamps is 0° to 100°F. Operating temperature range of Bullet lamp is 0° to 122°F.

## Dimensions

### SOFT WHITE DULUX EL Triple, Twist, Globe, Bullet, DECO & Classic (A)

	(A) MOL (in.)	(B) Diameter (in.)	(C) Base Width (in.)
CF7EL Mini Twist	4.40	1.82	1.60
CF11EL MiniTwist	4.50	1.82	1.60
CF13EL Mini Twist	4.60	1.82	1.60
CF19EL Mini Twist	4.80	2.25	2.05
CF23EL Mini Twist	5.75	2.25	2.05
CF30EL Mini Twist	4.93	2.69	2.00
CF13EL Super Mini Twist	4.06	1.40	1.90
CF15EL Twist	5.10	2.28	2.17
CF20EL Twist	5.50	2.28	2.17
CF23EL Twist	5.90	2.28	2.17
CF27EL Twist	6.10	2.28	2.17
CF30EL Twist	5.13	2.50	2.17
CF40EL Twist	5.25	2.69	2.06
CF28/3WAY Twist	5.75	2.60	2.17
CF65EL Twist	7.85	3.78	2.76
CF14EL/A19	4.75	2.40	
CF14EL/A19 (29485)	5.00	2.325	1.875
CF15EL/B	5.50	2.40	
CF15EL Triple	5.60	1.49	2.05
CF20EL Triple	6.30	1.49	2.05
CF23EL Triple	6.93	1.49	2.05
CF9EL/G25	4.25	3.125	
CF20EL	6.42	2.00	
CF23EL	6.93	2.00	
CF11EL/G25	4.60	3.20	
CF14EL/G30	5.50	3.55	
CF15EL/G30	6.50	3.90	
CF4/EL/DECO/CANDELABRA	4.25	1.40	
CF9WEL Fan	4.00	1.69	
CF7/EL/DECO/MEDIUM	5.00	2.88	
CF9EL/CANDELABRA	4.25	1.70	
CF30EL/CIRC/830/MED	2.80	8.00	
CF9EL/R20	3.94	1.68	
CF14EL/R20/BL/1	4.50	3.25	1.90
CF15EL/BR30	5.60	3.75	
CF15EL/R30	5.80	3.75	
CF16EL/BR30	5.70	3.75	
CF20EL/BR40	6.50	4.69	
CF23EL/BR40	6.50	4.69	
CF23RC/BR30	5.56	3.81	
CF22EL/PAR38/2700K	6.25	4.75	2.125
CF23EL/PAR38	6.25	4.75	2.125





## Lamp Comparison

DULUX® EL	CFL		Similar Incandescent	Incandescent		Watts Saved	Energy* Savings	CFL Life vs. Incandescent
	Lumens	Life		Lumens	Life			
CF7EL/MINITWIST	375	8000	25A/W	160	2500	18	\$14	3 x
CF11EL/MINITWIST	600	8000	40A/W	465	1500	29	\$23	5 x
CF13EL/MINITWIST	800	8000	60A/W	850	1000	47	\$37	8 x
CF13EL/MINITWIST	800	10,000	60A/W	850	1000	47	\$47	10 x
CF19EL/MINITWIST	1200	8000	75A/W	1170	750	56	\$44	11 x
CF19EL/MINITWIST	1200	10,000	75A/W	1170	750	56	\$56	13 x
CF23EL/MINITWIST	1600	8000	100A/W	1690	750	77	\$61	11 x
CF23EL/MINITWIST	1600	10,000	100A/W	1690	750	77	\$77	13 x
CF30EL/MINITWIST	2000	6000	100A/W	1690	750	70	\$42	8 x
CF13EL/SUPERMINITWIST	900	10,000	60A/W	850	1000	47	\$47	10 x
CF20EL/TWIST	1200	10,000	75A/W	1170	750	55	\$55	13 x
CF23EL/TWIST	1450	10,000	90A/W	1450	750	67	\$67	13 x
CF27EL/TWIST	1750	10,000	100A/W	1690	750	73	\$73	13 x
CF30EL/TWIST	2000	6000	100A/W	1690	750	70	\$42	8 x
CF40EL/TWIST	2600	8000	150A/W	2640	750	110	\$88	11x
CF40EL/TWIST	2600	6000	150A/W	2640	750	110	\$66	8 x
CF65EL/TWIST	4200	8000	250A/W	3800	1000	185	\$148	8 x
CF28EL/3WAY/TWIST (12W)	600	6000	30/100A21	270	1200	18	\$10	5 x
CF28EL/3WAY/TWIST (19W)	1100	6000	30/100A21	860	1200	51	\$30	5 x
CF28EL/3WAY/TWIST (28W)	1800	6000	30/100A21	1130	1200	72	\$43	5 x
CF14EL/A19	800	6000	60A/W	850	1000	46	\$27	6 x
CF14EL/A19	800	8000	60A/W	850	1000	46	\$36	8 x
CF15EL/B/830/MED	700	6000	60A/W	850	1000	45	\$27	6 x
CF15EL/830/MED	850	10,000	60A/W	850	1000	45	\$45	10 x
CF20EL/830/MED	1200	10,000	75A/W	1170	750	55	\$55	13 x
CF23EL/830/MED	1450	10,000	90A/W	1450	750	67	\$67	13 x
CF9EL/G25	495	8000	40G25	370	1500	31	\$24	4 x
CF9WEL/G25	450	8000	40G25	370	1500	31	\$25	5 x
CF9WEL/FAN	450	8000	40A/W	370	1500	31	\$25	5 x
CF15EL/G/830/MED	700	6000	60G25/W	680	1500	45	\$27	4 x
CF4EL/DECO/CANDELABRA	160	6000	15B10	125	1500	11	\$6	4 x
CF9EL/CANDELABRA	450	8000	40A/W	370	1500	31	\$25	5 x
CF7EL/DECO/MEDIUM	280	6000	25F/CL	210	1500	18	\$10	4 x
CF14EL/A19/YELLOW	475	6000	60A/Y/RP	550	1000	46	\$27	6 x
CF30EL/CIRC/830/MED	1800	10,000	100A/W	1690	750	70	\$70	13 x
CF9EL/R20	495	8000	40R20	370	1500	31	\$25	5 x
CF14EL/R20/BL/1	495	8000	50R20/FL	330	2000	36	\$28	4 x
CF15EL/BR30	560	6000	65BR30/FL	620	2000	50	\$30	3 x
CF16EL/BR30	750	8000	65BR30/FL	620	2000	49	\$39	4 x
CF20EL/BR40	900	8000	75BR40/FL	680	2000	55	\$44	4 x
CF23EL/BR40	1250	8000	90BR40/FL	1300	750	67	\$54	10 x
CF23RC/BR30	1200	15,000	90BR40/FL	1300	750	67	\$101	20 x
CF22EL/PAR38	950	6000	75PAR/W	650	2000	53	\$31	3 x
CF23EL/PAR38	950	8000	75PAR/W	900	750	52	\$42	10 x

\*Energy savings over life of EL lamp at \$0.10/kWh

## Sample Specification

Lamp shall be a DULUX® EL (20 or 23 Watt Triple) or (20, 23, 27, 30, 40 or 65 Watt Twist) electronic compact fluorescent lamp. Lamps shall have a 52mm (15, 20, 23 Watt Triple or 30 Watt Twist) or 55 mm (15, 20, 23, 27, 30, 40 or 65 Watt Twist) base diameter. Lamp shall have a correlated color temperature of (2700K, 3000K, 3500K or 5000K) and a CRI of 82. Average rated lamp life shall be (6000, 8000 or 10,000) hours.

Lamp shall be a DULUX EL Mini Twist (7, 11, 13, 19, 23 or 30 Watt). Lamp shall have a correlated color temperature of (2700K, 3000K, 3500K or 4100K) and a CRI of 82. Average rated lamp life shall be (8000 or 10,000) hours.

Lamp shall be a DULUX EL 15 Watt BR30 or R30 reflector compact fluorescent lamp. Lamp shall have a correlated color temperature of (2700K, 3000K, 3500K or 5000K) and a CRI of 82. Average rated lamp life shall be (6000 or 8000) hours.

Lamp shall be a DULUX EL 14 Watt A-LINE electronic, compact fluorescent lamp. Lamp shall have a correlated color temperature of 3000K and a CRI of 82. Average rated lamp life shall be 6000 hours.

Lamp shall be a DULUX EL Globe (9 or 15 Watt) electronic, compact fluorescent lamp. Lamp shall have a correlated color temperature of (2700K, 3000K or 5000K) and a CRI of 82. Average rated lamp life shall be (6000 or 8000) hours.

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### Industrial Commercial

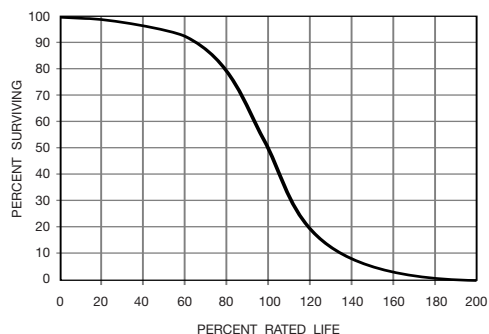
Phone: 1-800-263-2852  
Fax: 1-800-667-6772

### Special Markets

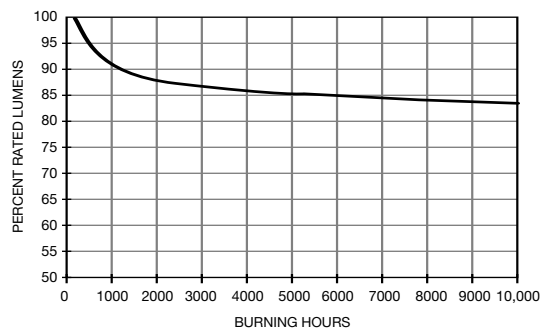
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Fax: 1-800-667-6772

## Technical Information

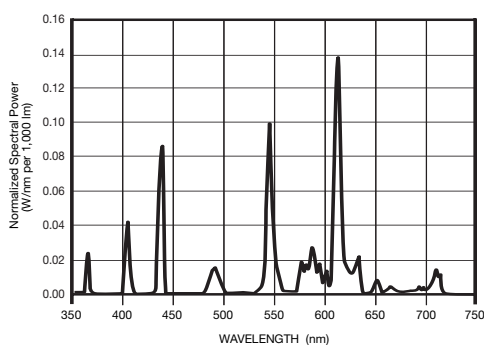
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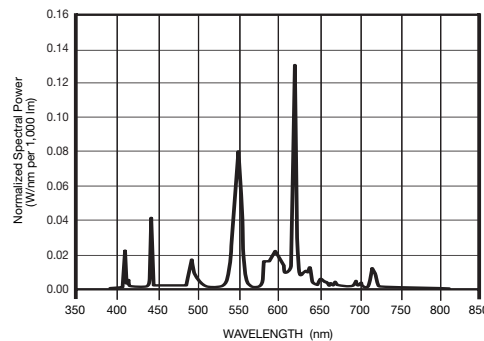
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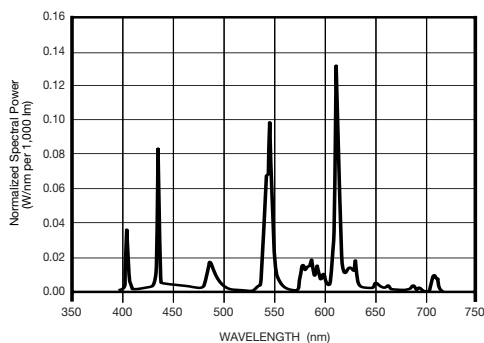
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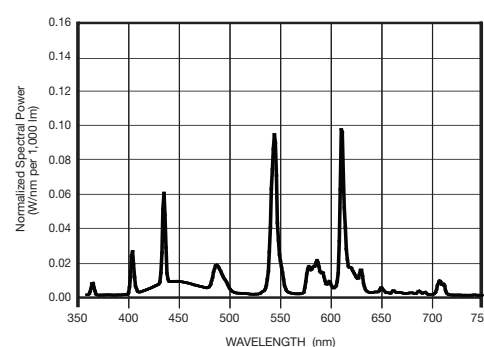
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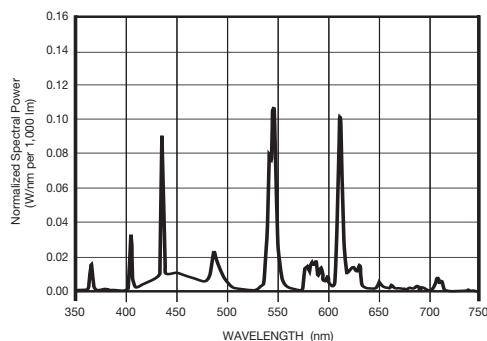
Dulux EL 3500K (Daylight EXTRA™)



Dulux EL 4100K



Dulux EL 5000K



## Ordering Guide

CF	15	EL	/	R30	/	830	/	MED
Compact Fluorescent	Wattage: 15 watts	Electronic Ballast		R = Reflector, BR = Bulged Reflector B = Bullet, C = Circline, CL = Classic, G = Globe, TWIST 30 = 30/8" (3.75") diameter 40 = 40/8" (5.0") diameter		8 = 82 CRI 30 = 3000K		Medium Base





## DULUX® S ECOLOGIC™

### Low Mercury Compact Fluorescent Lamps

- Designed to pass TCLP\*
- Less power consumption than incandescent of comparable light output\*
- Reduced greenhouse gas and mercury emissions from power generation compared to incandescent
- Two-pin lamps with integral starter
- Available in 2700K, 3000K, 3500K, 4100K & 5000K\*
  - \* Not all colors available in all wattages
- Special DULUX S red, green and blue
- 82 CRI
- 10,000-hour average rated life

\* Based on OSRAM SYLVANIA TCLP test protocol.

SYLVANIA DULUX® S ECOLOGIC compact fluorescent lamps are designed to meet the Federal Toxic Characteristic Leaching Procedure (TCLP) criteria for classification as non-hazardous waste in most states.\*\*

DULUX S ECOLOGIC lamp sizes provide even light distribution and serve as energy saving replacements for incandescent lamps having comparable light output.

DULUX is a registered trademark of OSRAM GmbH, Germany, used under license by OSRAM SYLVANIA Inc.

\*\* Always check your local and state regulations.

ECOLOGIC™ is a comprehensive program focused on addressing environmental issues at all stages of lamp life.



#### PRODUCT AVAILABILITY

Lamp Type	Watts	Rated Lumens
CF5DS/800/ECO	5W	230
CF7DS/800/ECO	7W	400
CF9DS/800/ECO	9W	520
CF13DS/800/ECO	13W	720

#### SYSTEM COMPARISON

Lamp Type	Ballast Factor	System Lumens	System Watts	System Efficacy	Energy Savings
One – 90W Incandescent	1.0	1510	90	16.8	—
Two – 13W DULUX S	0.95	1520	31	49	65%

#### APPLICATION INFORMATION

##### Applications

- Down lights
- Wall sconces
- Recessed ceiling fixtures
- Exit signs
- Showcase
- Task lighting

##### Application Notes

- Preheat lamps designed for magnetic ballast operation
- See minimum lamp starting temperatures on back page

## ORDERING AND SPECIFICATION INFORMATION

Package Quantity = 50

Item Number	Ordering Abbreviation	NEMA Generic Designation	Base	Watts	Volts	Amps	Initial Lumens	Mean Lumens	Av. Rated Life (hrs.)*	CRI	Min. Starting Temp. (F/C)**
20325	CF5DS/827/ECO	CF5W/G23/827	G23	5	35	.180	230	210	10,000	82	-22°/-30°
20303	CF5DS/841/ECO	CFT5W/G23/841	G23	5	35	.180	230	210	10,000	82	-22°/-30°
20327	CF7DS/827/ECO	CFT7W/G23/827	G23	7	45	.180	400	360	10,000	82	-4°/-20°
20310	CF7DS/835/ECO	CFT7W/G23/835	G23	7	45	.180	400	360	10,000	82	-4°/-20°
20304	CF7DS/841/ECO	CFT7W/G23/841	G23	7	45	.180	400	360	10,000	82	-4°/-20°
20307	CF7DS/850/ECO	CFT7W/G23/850	G23	7	45	.180	400	360	10,000	82	-4°/-20°
20329	CF9DS/827/ECO	CFT9W/G23/827	G23	9	59	.180	580	520	10,000	82	14°/-10°
20333	CF9DS/835/ECO	CFT9W/G23/835	G23	9	59	.180	580	520	10,000	82	14°/-10°
20305	CF9DS/841/ECO	CFT9W/G23/841	G23	9	59	.180	580	520	10,000	82	14°/-10°
20308	CF9DS/850/ECO	CFT9W/G23/850	G23	9	59	.180	580	520	10,000	82	14°/-10°
20331	CF13DS/827/ECO	CFT13W/GX23/827	GX23	13	59	.180	800	720	10,000	82	14°/-10°
20283	CF13DS/830/ECO	CFT13W/GX23/830	GX23	13	59	.180	800	720	10,000	82	14°/-10°
20335	CF13DS/835/ECO	CFT13W/GX23/835	GX23	13	59	.180	800	720	10,000	82	14°/-10°
20306	CF13DS/841/ECO	CFT13W/GX23/841	GX23	13	59	.180	800	720	10,000	82	14°/-10°
20309	CF13DS/850/ECO	CFT13W/GX23/850	GX23	13	59	.180	800	720	10,000	82	14°/-10°

\*Based on 3 hrs per start

\*\*At rated line voltage

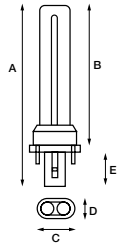
### SAMPLE SPECIFICATION

Lamp(s) shall be (a) DULUX S ECOLOGIC (CF5/ECO, CF7/ECO, CF9/ECO, CF13/ECO) low mercury compact fluorescent 2-pin lamp(s). Lamp(s) shall have a correlated color temperature of (2700K, 3000K, 3500K, 4100K or 5000K). Lamp(s) shall comply with the existing Federal TCLP limits.

### ORDERING GUIDE

CF	9	DS	/	8	27
Compact Fluorescent	Wattage: 5, 7, 9 and 13 watts	DULUX Single		8 = 82 CRI	27 = 2700K 30 = 3000K 35 = 3500K 41 = 4100K 50 = 5000K

### DIMENSIONS

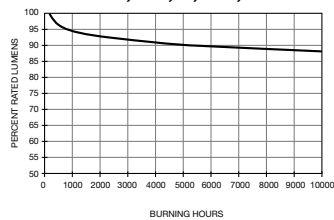


Ordering Abbreviation	(A) MOL [in (mm)]	(B) Max. Base Face to Top of Lamp [in (mm)]	(C) Max. Base Length [in (mm)]	(D) Max. Base Width [in (mm)]	(E) Max. Guide Post Length [in (mm)]
CF5DS	4.21 (107)	3.26 (83.0)	1.28 (32.5)	0.83 (21.0)	0.9 (23)
CF7DS	5.31 (135)	4.41 (112.0)	1.28 (32.5)	0.83 (21.0)	0.9 (23)
CF9DS	6.50 (165)	5.60 (142.0)	1.28 (32.5)	0.83 (21.0)	0.9 (23)
CF13DS	7.09 (180)	6.10 (155.0)	1.28 (32.5)	0.83 (21.0)	0.9 (23)

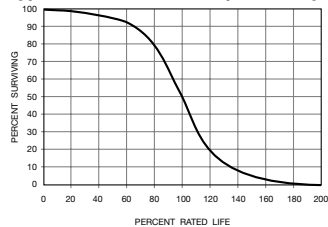
T4 Diameter Tubing = 0.5 inches (12.7mm)

### TECHNICAL INFORMATION

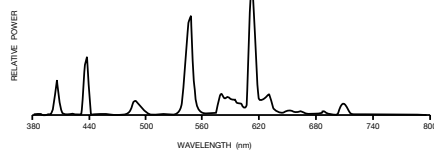
**Lumen Maintenance Curve**  
DULUX S, S/E, D, D/E, T & T/E



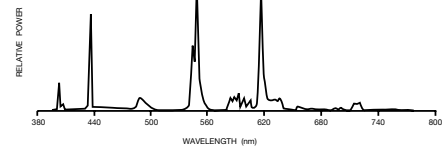
**Typical Fluorescent Lamp Mortality**



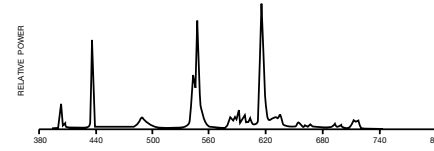
**DULUX 827**



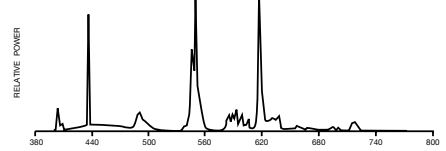
**DULUX 835**



**DULUX 830**



**DULUX 841**



### FOR ORDERS AND GENERAL INFORMATION

OSRAM SYLVANIA National Customer Support Center, 18725 N. Union Street, Westfield, IN 46074

#### Industrial & Commercial

Phone: 1-800-562-4671  
Fax: 1-800-255-5043

#### National Accounts

Phone: 1-800-762-7191  
Fax: 1-800-562-4674

#### Special Markets

Phone: 1-800-762-7191  
Fax: 1-800-762-7192

In Canada: OSRAM SYLVANIA LTD. Headquarters, 2001 Drew Road, Mississauga, ON L5S 1S4

#### Industrial & Commercial

Phone: 1-800-263-2852  
Fax: 1-800-667-6772

#### Special Markets

Phone: 1-800-265-2852  
Fax: 1-800-667-6772



# QUICKTRONIC® T8 Instant Start UNIVERSAL VOLTAGE

High Efficiency Series

Low Ballast Factor

## Lamp/Ballast Guide

### 32W T8 - OCTRON®

#### QHE ISL SC Models

- 1-lamp QHE1x32T8/UNV
- 2-lamp QHE2x32T8/UNV
- 3-lamp QHE3x32T8/UNV
- 4-lamp QHE4x32T8/UNV

#### Also operates:

FBO32, FBO31, FO25, FBO24, FO17, FBO16, FO30/SS (30W), FBO30/SS (30W), FBO29/SS (29W), FO28/SS (28W) & FO25/SS (25W)

#### FO40T8 operation:

- 1 lamp on 2L ballast
- 2 lamps on 3L ballast
- 3 lamps on 4L ballast

**Note:** FO40T8 0°F Starting Temp.

## SYLVANIA QUICKTRONIC

**High Efficiency (QHE)** energy-saving electronic T8 ballasts save up to 6% over standard electronic ballasts without compromising light output or lamp life. The added energy savings also provides for a quicker payback. QHE ballasts also meet the most demanding utility rebate standards.

## SYLVANIA QUICKTRONIC

**High Efficiency (QHE)** operates OCTRON T8 lamps with maximum efficacy and high lumen output, and provides **30-50% energy savings** when compared to F40T12 magnetic systems.

Small can enclosure allows for low profile fixture design. Small size also provides transportation, inventory and ergonomic benefits.

This product is also offered in new banded packaging and pallet packs.



## SYLVANIA QUICKTRONIC

**High Efficiency (QHE)** is also covered by our QUICK 60+® warranty, the first and most comprehensive lamp & ballast system warranty in the industry.

Parallel circuitry is utilized to keep the remaining lamps lit if one or more should go out.

## Key System Features

- **High Efficiency Systems** over 90% efficient
- **Over 100 LPW (lumens/watt)** with OCTRON SUPERSAVER® lamps
- **Lowest power T8 I.S. Systems**
- **Universal voltage (120-277)**
- **Small Can enclosure size**
- **30-50% Energy savings**
- **-20°F (-29°C) min. starting temp.** for OCTRON lamps
- **60°F (16°C) min. starting temperature** with OCTRON SUPERSAVER lamps
- **<10% THD**
- **Virtually eliminates lamp flicker**

## System Information

## SYLVANIA QUICKTRONIC

**High Efficiency (QHE)** operates from 120V through 277V, eliminating "wrong voltage" wiring errors and reducing the number of models in inventory by half.

## SYLVANIA QUICKTRONIC

**High Efficiency (QHE)** uses instant start operation to provide the highest system efficacy and to assure low temperature starting capability. Instant start also provides for maximum remote wiring distances.

## SYLVANIA QUICKTRONIC

**High Efficiency (QHE)** electronic ballasts have very low harmonic distortion (<10% THD) for high system performance.

Ballast operates at >42kHz to reduce potential interference with infrared control systems.

A complete OSRAM SYLVANIA System Performance Guide showing performance characteristics for all combinations of lamps and ballasts is available upon request.

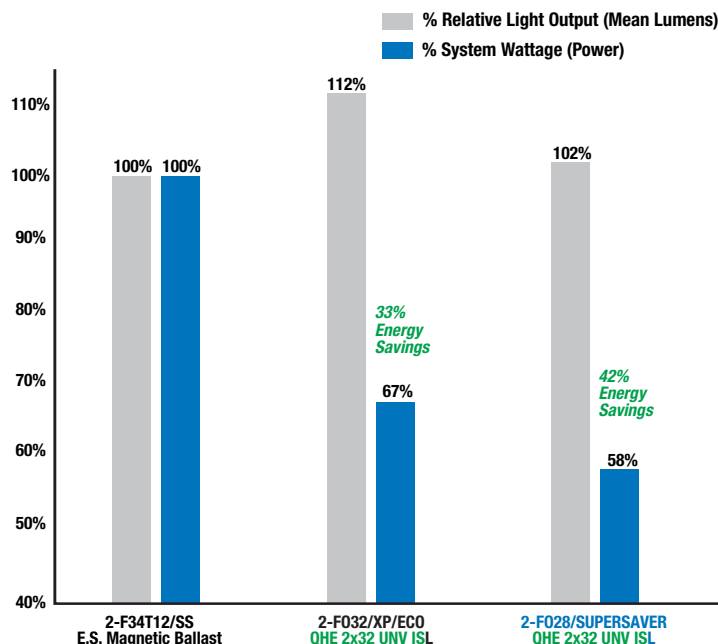
System Type (2-lamp)	Input Wattage	Initial Lumens	System LPW	Mean Lumens	Energy Savings
F34T12 - E.S. Magnetic Ballast	72	4660	65	3960	Baseline
F032/XP - QHE2x32T8/UNV ISL-SC	48	4680	98	4445	33%
F028/SS - QHE2x32T8/UNV ISL-SC	42	4250	101	4040	42%

## Application Information

## SYLVANIA QUICKTRONIC

**High Efficiency** is ideally suited for:

- Any applications where the lowest power T8 systems are needed for **maximum energy savings**
- Energy Retrofits
- Commercial & Retail
- Hospitality & Institutional
- New Construction



# Low Ballast Factor T8 Instant Start UNV VOLTAGE High Efficiency Systems

## <10% THD High Efficiency Electronic T8 Fluorescent Systems (Low Ballast Factor)

Item Number	OSRAM SYLVANIA Description	Input Voltage (VAC)	Input Current (AMPS)	Lamp Type	Rated Lumens (lm)	No. of Lamps	Ballast Factor (BF)	System Lumens	Input Wattage (W)	System Efficacy (lm/W)
49861	QHE 1X32T8/UNV ISL-SC	120-277	0.21/0.09	F032/XP	3000	1	0.78	2340	25	94
			0.20/0.09	F030/SS	2850	1	0.78	2220	24	93
			<b>0.19/0.08</b>	<b>F028/SS</b>	<b>2725</b>	<b>1</b>	<b>0.78</b>	<b>2125</b>	<b>22</b>	<b>97</b>
			0.17/0.08	F025/SS	2475	1	0.78	1930	20	97
49863	QHE 2X32T8/UNV ISL-SC	120-277	0.41/0.18	F032/XP	3000	2	0.78	4680	48	98
			0.38/0.16	F030/SS	2850	2	0.78	4445	45	99
			<b>0.35/0.15</b>	<b>F028/SS</b>	<b>2725</b>	<b>2</b>	<b>0.78</b>	<b>4250</b>	<b>42</b>	<b>101</b>
			0.32/0.14	F025/SS	2475	2	0.78	3860	37	104
49865	QHE 3X32T8/UNV ISL-SC	120-277	0.61/0.27	F032/XP	3000	3	0.78	7020	71	99
			0.58/0.25	F030/SS	2850	3	0.78	6670	68	98
			<b>0.53/0.23</b>	<b>F028/SS</b>	<b>2725</b>	<b>3</b>	<b>0.78</b>	<b>6380</b>	<b>63</b>	<b>101</b>
			0.48/0.21	F025/SS	2475	3	0.78	5790	55	105
49867	QHE 4X32T8/UNV ISL-SC	120-277	0.80/0.35	F032/XP	3000	4	0.78	9360	95	99
			0.75/0.32	F030/SS	2850	4	0.78	8890	89	100
			<b>0.71/0.31</b>	<b>F028/SS</b>	<b>2725</b>	<b>4</b>	<b>0.78</b>	<b>8500</b>	<b>84</b>	<b>101</b>
			0.62/0.27	F025/SS	2475	4	0.78	7720	74	104

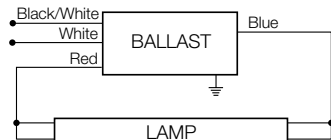
Products listed above are 10 packs.

### 840 PC Pallet Packs

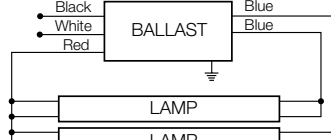
49862 QHE1x32T8/UNV-ISL-SC-PAL 49864 QHE2x32T8/UNV-ISL-SC-PAL  
49866 QHE3x32T8/UNV-ISL-SC-PAL 49868 QHE4x32T8/UNV-ISL-SC-PAL

### 10 PC Banded Packs

49837 QHE1x32T8/UNV-ISL-SC-B 49838 QHE2x32T8/UNV-ISL-SC-B  
49839 QHE3x32T8/UNV-ISL-SC-B 49840 QHE4x32T8/UNV-ISL-SC-B

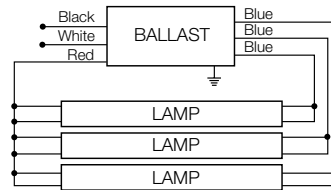


QUICKTRONIC 1x32



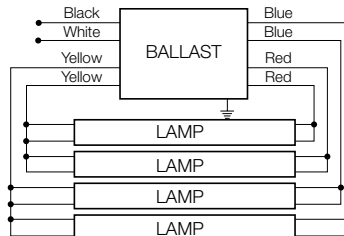
Note: For one lamp application, cap any blue lead. Insulate to 600 volts.

QUICKTRONIC 2x32



Note: For two lamp application, cap any blue lead. Insulate to 600 volts.

QUICKTRONIC 3x32



Note: For three lamp application, cap any unused blue lead. Insulate to 600 volts.

QUICKTRONIC 4x32

### Dimensions:

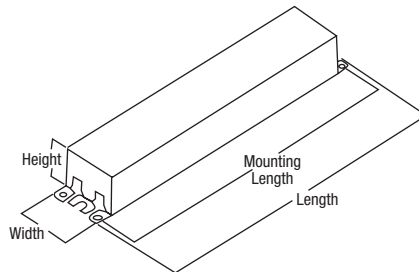
Overall: 9.5" L x 1.68" W x 1.18" H  
Mounting: 8.90"

### Packaging:

Quantity: 10 pieces/840 pieces  
Weight: 1.6 lbs each (approx)

### Wiring:

Leads only (no connectors provided)



Item Number ——— **49863 QHE 2 x 32T8 / UNV ISL-SC** ——— Case Size  
QUICKTRONIC High Efficiency ——— Starting/Ballast Factor  
Number of Lamps ——— Line Voltage (120-277V)  
Primary Lamp Wattage

## Performance Guide

Data based upon SYLVANIA OCTRON® XP™ lamps shown. QUICKTRONIC QHE Instant Start ballasts are also compatible with other lamp manufacturers equivalent lamp types that meet ANSI specifications.

QHE Instant Start ballasts will operate F17, F25 and F32 (and the U-Bend equivalent) T8 lamps. Complete performance data is available in the QUICKSYSTEMS section of the SYLVANIA Electronic Ballast Catalog.

## Specifications<sup>1</sup>

**Starting Method:** Instant Start

**Ballast Factor:** 0.78

**Circuit Type:** Parallel

**Lamp Frequency:** > 40KHz

**Lamp CCF:** Less than 1.7

**Starting Temp:**<sup>1</sup>

-20°F for OCTRON T8 lamps;  
60°F for SUPERSAVER® T8 lamps  
0°F for F040T8

**Input Frequency:** 50/60 Hz

**Low THD:** < 10%

**Power Factor:** > 98%

**Voltage Range:** 108-305V

UL Listed Class P, Type 1 Outdoor  
CSA Certified (where applicable)  
70°C Max Case Temperature  
FCC 47CFR Part 18 Non-Consumer  
Class A Sound Rating  
ANSI C62.41 Cat. A Transient Protection  
Remote Mounting up to 20 feet<sup>1</sup>

<sup>1</sup> Operation below 50°F may affect light output or lamp operation – see "Low Temp. Starting" definition.

## System Life / Warranty

QUICKTRONIC products are covered by our QUICK 60+® warranty, a comprehensive lamp and ballast system warranty. For additional details, refer to our QUICK 60+ warranty bulletin.

## Ordering Guide

Specifications subject to change without notice.



# QUICKTRONIC® T8 Instant Start UNIVERSAL VOLTAGE

High Efficiency Series

Low Ballast Factor

## Lamp/Ballast Guide

### 32W T8 - OCTRON®

#### QHE ISL SC Models

- 1-lamp QHE1x32T8/UNV
- 2-lamp QHE2x32T8/UNV
- 3-lamp QHE3x32T8/UNV
- 4-lamp QHE4x32T8/UNV

#### Also operates:

- FBO32, FBO31, FO25, FBO24, FO17, FBO16, FO30/SS (30W), FBO30/SS (30W), FBO29/SS (29W), FO28/SS (28W) & FO25/SS (25W)

#### FO40T8 operation:

- 1 lamp on 2L ballast
- 2 lamps on 3L ballast
- 3 lamps on 4L ballast

**Note:** FO40T8 0°F Starting Temp.

## SYLVANIA QUICKTRONIC

**High Efficiency (QHE)** energy-saving electronic T8 ballasts save up to 6% over standard electronic ballasts without compromising light output or lamp life. The added energy savings also provides for a quicker payback. QHE ballasts also meet the most demanding utility rebate standards.

## SYLVANIA QUICKTRONIC

**High Efficiency (QHE)** operates OCTRON T8 lamps with maximum efficacy and high lumen output, and provides **30-50% energy savings** when compared to F40T12 magnetic systems.

Small can enclosure allows for low profile fixture design. Small size also provides transportation, inventory and ergonomic benefits.

This product is also offered in new banded packaging and pallet packs.



## SYLVANIA QUICKTRONIC

**High Efficiency (QHE)** is also covered by our QUICK 60+® warranty, the first and most comprehensive lamp & ballast system warranty in the industry.

Parallel circuitry is utilized to keep the remaining lamps lit if one or more should go out.

## Key System Features

- **High Efficiency Systems** over 90% efficient
- **Over 100 LPW (lumens/watt)** with OCTRON SUPERSAVER® lamps
- **Lowest power T8 I.S. Systems**
- **Universal voltage (120-277)**
- **Small Can enclosure size**
- **30-50% Energy savings**
- **-20°F (-29°C) min. starting temp.** for OCTRON lamps
- **60°F (16°C) min. starting temperature** with OCTRON SUPERSAVER lamps
- **<10% THD**
- **Virtually eliminates lamp flicker**

## System Information

## SYLVANIA QUICKTRONIC

**High Efficiency (QHE)** operates from 120V through 277V, eliminating "wrong voltage" wiring errors and reducing the number of models in inventory by half.

## SYLVANIA QUICKTRONIC

**High Efficiency (QHE)** uses instant start operation to provide the highest system efficacy and to assure low temperature starting capability. Instant start also provides for maximum remote wiring distances.

## SYLVANIA QUICKTRONIC

**High Efficiency (QHE)** electronic ballasts have very low harmonic distortion (<10% THD) for high system performance.

Ballast operates at >42kHz to reduce potential interference with infrared control systems.

A complete OSRAM SYLVANIA System Performance Guide showing performance characteristics for all combinations of lamps and ballasts is available upon request.

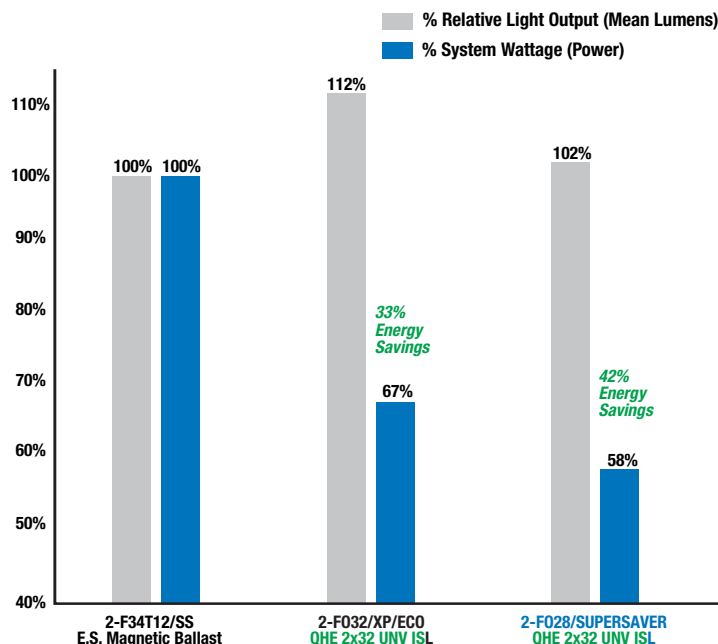
System Type (2-lamp)	Input Wattage	Initial Lumens	System LPW	Mean Lumens	Energy Savings
F34T12 - E.S. Magnetic Ballast	72	4660	65	3960	Baseline
F032/XP - QHE2x32T8/UNV ISL-SC	48	4680	98	4445	33%
F028/SS - QHE2x32T8/UNV ISL-SC	42	4250	101	4040	42%

## Application Information

## SYLVANIA QUICKTRONIC

**High Efficiency** is ideally suited for:

- Any applications where the lowest power T8 systems are needed for **maximum energy savings**
- Energy Retrofits
- Commercial & Retail
- Hospitality & Institutional
- New Construction



# Low Ballast Factor T8 Instant Start UNV VOLTAGE High Efficiency Systems

## <10% THD High Efficiency Electronic T8 Fluorescent Systems (Low Ballast Factor)

Item Number	OSRAM SYLVANIA Description	Input Voltage (VAC)	Input Current (AMPS)	Lamp Type	Rated Lumens (lm)	No. of Lamps	Ballast Factor (BF)	System Lumens	Input Wattage (W)	System Efficacy (lm/W)
49861	QHE 1X32T8/UNV ISL-SC	120-277	0.21/0.09	F032/XP	3000	1	0.78	2340	25	94
			0.20/0.09	F030/SS	2850	1	0.78	2220	24	93
			<b>0.19/0.08</b>	<b>F028/SS</b>	<b>2725</b>	<b>1</b>	<b>0.78</b>	<b>2125</b>	<b>22</b>	<b>97</b>
			0.17/0.08	F025/SS	2475	1	0.78	1930	20	97
49863	QHE 2X32T8/UNV ISL-SC	120-277	0.41/0.18	F032/XP	3000	2	0.78	4680	48	98
			0.38/0.16	F030/SS	2850	2	0.78	4445	45	99
			<b>0.35/0.15</b>	<b>F028/SS</b>	<b>2725</b>	<b>2</b>	<b>0.78</b>	<b>4250</b>	<b>42</b>	<b>101</b>
			0.32/0.14	F025/SS	2475	2	0.78	3860	37	104
49865	QHE 3X32T8/UNV ISL-SC	120-277	0.61/0.27	F032/XP	3000	3	0.78	7020	71	99
			0.58/0.25	F030/SS	2850	3	0.78	6670	68	98
			<b>0.53/0.23</b>	<b>F028/SS</b>	<b>2725</b>	<b>3</b>	<b>0.78</b>	<b>6380</b>	<b>63</b>	<b>101</b>
			0.48/0.21	F025/SS	2475	3	0.78	5790	55	105
49867	QHE 4X32T8/UNV ISL-SC	120-277	0.80/0.35	F032/XP	3000	4	0.78	9360	95	99
			0.75/0.32	F030/SS	2850	4	0.78	8890	89	100
			<b>0.71/0.31</b>	<b>F028/SS</b>	<b>2725</b>	<b>4</b>	<b>0.78</b>	<b>8500</b>	<b>84</b>	<b>101</b>
			0.62/0.27	F025/SS	2475	4	0.78	7720	74	104

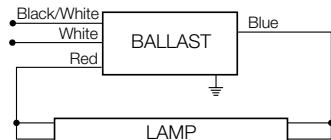
Products listed above are 10 packs.

### 840 PC Pallet Packs

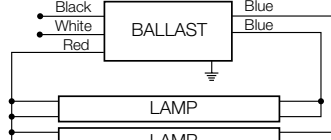
49862 QHE1x32T8/UNV-ISL-SC-PAL 49864 QHE2x32T8/UNV-ISL-SC-PAL  
49866 QHE3x32T8/UNV-ISL-SC-PAL 49868 QHE4x32T8/UNV-ISL-SC-PAL

### 10 PC Banded Packs

49837 QHE1x32T8/UNV-ISL-SC-B 49838 QHE2x32T8/UNV-ISL-SC-B  
49839 QHE3x32T8/UNV-ISL-SC-B 49840 QHE4x32T8/UNV-ISL-SC-B

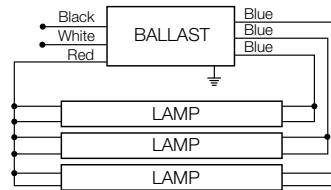


QUICKTRONIC 1x32



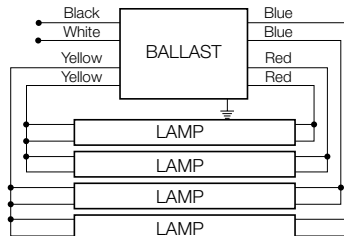
Note: For one lamp application, cap any blue lead. Insulate to 600 volts.

QUICKTRONIC 2x32



Note: For two lamp application, cap any blue lead. Insulate to 600 volts.

QUICKTRONIC 3x32



Note: For three lamp application, cap any unused blue lead. Insulate to 600 volts.

QUICKTRONIC 4x32

### Dimensions:

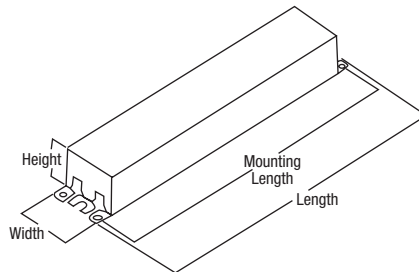
Overall: 9.5" L x 1.68" W x 1.18" H  
Mounting: 8.90"

### Packaging:

Quantity: 10 pieces/840 pieces  
Weight: 1.6 lbs each (approx)

### Wiring:

Leads only (no connectors provided)



Item Number ——— **49863 QHE 2 x 32T8 / UNV ISL-SC** ——— Case Size  
QUICKTRONIC High Efficiency ——— Starting/Ballast Factor  
Number of Lamps ——— Line Voltage (120-277V)  
Primary Lamp Wattage

## Performance Guide

Data based upon SYLVANIA OCTRON® XP™ lamps shown. QUICKTRONIC QHE Instant Start ballasts are also compatible with other lamp manufacturers equivalent lamp types that meet ANSI specifications.

QHE Instant Start ballasts will operate F17, F25 and F32 (and the U-Bend equivalent) T8 lamps. Complete performance data is available in the QUICKSYSTEMS section of the SYLVANIA Electronic Ballast Catalog.

## Specifications<sup>1</sup>

**Starting Method:** Instant Start

**Ballast Factor:** 0.78

**Circuit Type:** Parallel

**Lamp Frequency:** > 40KHz

**Lamp CCF:** Less than 1.7

**Starting Temp:**<sup>1</sup>

-20°F for OCTRON T8 lamps;  
60°F for SUPERSAVER® T8 lamps  
0°F for F040T8

**Input Frequency:** 50/60 Hz

**Low THD:** < 10%

**Power Factor:** > 98%

**Voltage Range:** 108-305V

UL Listed Class P, Type 1 Outdoor  
CSA Certified (where applicable)  
70°C Max Case Temperature  
FCC 47CFR Part 18 Non-Consumer  
Class A Sound Rating  
ANSI C62.41 Cat. A Transient Protection  
Remote Mounting up to 20 feet<sup>1</sup>

<sup>1</sup> Operation below 50°F may affect light output or lamp operation – see "Low Temp. Starting" definition.

## System Life / Warranty

QUICKTRONIC products are covered by our QUICK 60+® warranty, a comprehensive lamp and ballast system warranty. For additional details, refer to our QUICK 60+ warranty bulletin.

## Ordering Guide

Specifications subject to change without notice.

## Electronic T8 Fluorescent Systems

# QUICKTRONIC® T8 Instant Start (PLUS) & Universal Voltage

Professional Series

High Light Output

### Lamp/Ballast Guide

#### 32W T8 - OCTRON®

- 2-lamp QT2x32T8/ISH-SC
- 3-lamp QT3x32 PLUS
- 3-lamp QTP3x32T8 UNV ISH SC
- 4-lamp QHE4x32 277 ISH

#### Also operates:

- FO30/SS (30W Lamp),
- FBO30/SS (30W Lamp) &
- FO28/SS (28W Lamp)

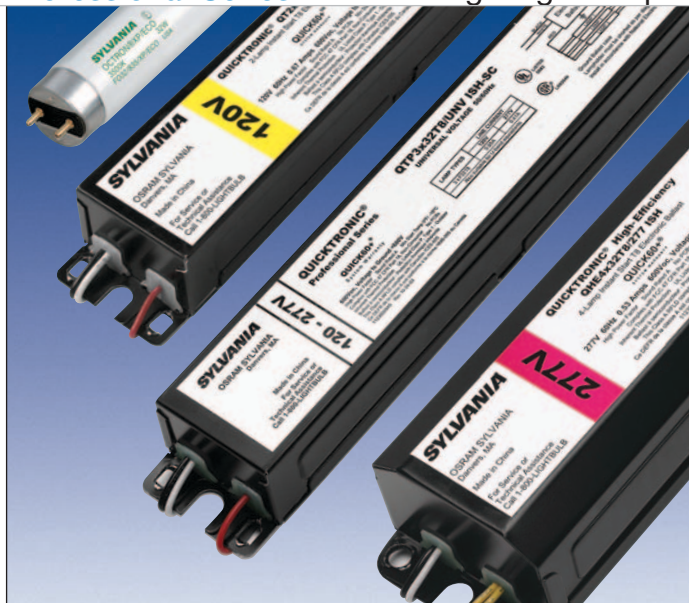
#### SYLVANIA QUICKTRONIC

**32 ISH (PLUS)** operates OCTRON FO32, FBO32 and FBO31 T8 lamps with increased lumen output and high system efficacy.

SYSTEM 32 ISH provides 20% more lumen output than F40T12 magnetic systems while saving nearly 20% in energy. Compared to standard T8 systems, 32PLUS provides 30% more light output.

High light output and multi-lamp capability for up to three lamps allows fewer ballasts to be used in a fixture and provides tandem wiring options. Also, parallel circuitry is utilized to keep the remaining lamps lit if one or more should go out.

Setting the standard for quality, SYSTEM 32 ISH is also covered by our QUICK 60+® warranty, the first and most comprehensive system warranty in the industry.



SYSTEM 32 ISH is available in two and three lamp models in 120V and 277V (and two lamps 347V) to cover a wide range of applications.

New QTP 3 lamp Universal Voltage (120-277) model and new 4 lamp QHE 277V model available.

### Key System Features

- New low profile available 1.18" high "Small Can"
- Standard enclosure size (4 lamp) and PLUS models
- 120% Ballast factor\* (118)
- 30% More light output than standard T8 systems
- 0°F (-18°C) min. starting temp. for OCTRON lamps
- 60°F (16°C) min. starting temperature with OCTRON SUPERSAVER® lamps
- Full lamp life
- Virtually eliminates lamp flicker
- Compatible with most powerline carrier systems\*
- High power factor
- Low harmonic distortion
- Low in-rush current
- Lightweight
- UL, CSA, FCC

### System Information

SYSTEM 32 ISH uses instant start operation to provide the highest system efficacy and to assure low temperature starting capability. Instant start also provides for maximum remote wiring distances. Lamps are operated at their rated current, but a higher frequency to provide maximum light output while ensuring rated lamp life.

SYSTEM 32 ISH electronic ballasts have low harmonic distortion with corresponding low in-rush current\* for optimal system performance.

SYSTEM 32 ISH electronic circuitry is designed to be compatible with powerline carrier systems.\*

A complete OSRAM SYLVANIA System Performance Guide showing performance characteristics for all combinations of lamps and ballasts is available upon request.

\* Except Universal Voltage and High Efficiency models

System Type (2-lamp)		Input Wattage	Initial Lumens	System LPW
F40T12	Std. Magnetic Ballast	96	5795	60
	E.S. Magnetic Ballast	86	5795	67
F34T12	E.S. Magnetic Ballast	72	4750	66
F032/XP	QT2x32T8/ISH-SC	78	7200	92
F028/SS	QT2x32T8/ISH-SC	67	6540	98
FB40T12/D41	E.S. Mag. Ballast	86	5795	67
F40TT5	Electronic Ballast (I.S.)	75	6000	80
FB032/XP	QT2x32T8/ISH-SC	78	6960	89
FB030/XP/SS	QT2x32T8/ISH-SC	73	6720	92

New QTP 3x32T8/UNV ISH-SC model operates from 120V through 277V, eliminating "wrong voltage" wiring errors and reducing the number of models in inventory by half.

### Application Information

#### SYLVANIA QUICKTRONIC 32 ISH

is ideally suited for:

- Commercial
- Retail
- Hospitality
- Institutional
- Schools
- New Construction
- Retrofit
- Direct Lighting
- Indirect Lighting
- Surface Mount
- Cove Lighting

# T8 Instant Start High Ballast Factor

## <20% THD Electronic T8 Fluorescent Systems

Item** Number	Description	Input Voltage (VAC)	Input Current (AMPS)	Lamp <sup>1</sup> Type	Rated <sup>2</sup> Lumens (lm)	No. of Lamps	Ballast Factor (BF)	System Lumens	Input Wattage (W)	System Efficacy (lm/W)
49923	QT 2x32T8/120 ISH-SC	120	0.67	F032/XP	3000	2	1.20	7200	78	92
49924	QT 2x32T8/277 ISH-SC	277	0.29	F032/XP	3000	2	1.20	7200	78	92
49525	QT 3x32/120 PLUS	120	0.96	F032/XP	3000	3	1.18	10600	112	95
49526	QT 3x32/277 PLUS	277	0.42	F032/XP	3000	3	1.18	10600	112	95
49226	QT 2x32/347 PLUS***	347	0.23	F032/XP	3000	2	1.20	7200	78	92

### QUICKTRONIC® Professional & QUICKTRONIC QHE High Efficiency Models <10%THD

49845*	QTP 3x32T8/UNV ISH-SC	120-277	0.95/0.41	F032/XP	3000	3	1.18	10600	114/111	93/96
49521*	QHE 4x32T8/277 ISH	277	0.53	F032/XP	3000	4	1.15	13800	148	93

\*New product - check with OSRAM SYLVANIA for availability.

\*\*\*49226 QT 2x32/347 PLUS will be discontinued and replaced by 49927 QT 2x32T8/347 ISH-SC.

\*\*Available in 840 PC Pallet Pack

\*\*Available in 500 PC Pallet Pack

49973 QT 2x32T8/120 ISH-SC  
49974 QT 2x32T8/277 ISH-SC  
49846 QTP 3x32T8/UNV ISH-SC

49522 QHE 4x32T8/277 ISH

## Performance Guide

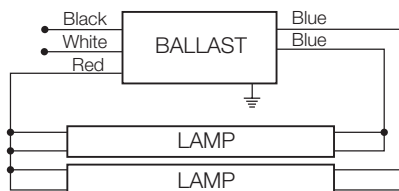
Data shown based upon SYLVANIA OCTRON® F032/XP™ lamp(s). QUICKTRONIC® 32PLUS is also compatible with other lamp manufacturers equivalent lamp types that meet ANSI specifications.

All models will also operate F32 (and the U-Bend equivalent) T8 lamps. Complete performance data is available in the QUICKSYSTEMS section of the SYLVANIA Electronic Ballast Catalog.

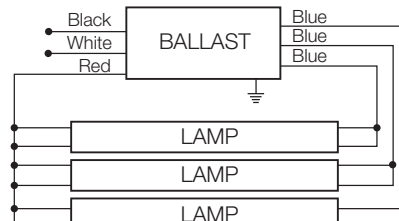
## Specifications<sup>1</sup>

**Starting Method:** Instant Start  
**Ballast Factor:** 1.18-1.20  
**Circuit Type:** Parallel  
**Lamp Frequency:**  
**All SC & QHE models:** > 40KHz  
QT standard enclosure > 20KHz  
**Lamp CCF:** Less than 1.7  
**Starting Temp.:**<sup>1</sup>  
0°F for OCTRON® T8 lamps;  
60°F for SUPERSAVER® T8 lamps  
**Input Frequency:** 60 Hz  
**Low THD:** < 20%  
QTP & QHE models < 10%  
**Power Factor:** > 97%  
QTP & QHE models > 98%  
**Voltage Range:** +/- 10% of Rated Input

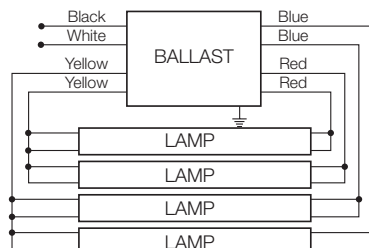
UL Listed Class P, Type 1, Outdoor  
CSA Certified  
70°C Max Case Temperature  
FCC 47CFR Part 18 Non-Consumer  
Class A Sound Rating  
ANSI C62.41 Cat. A Transient Protection  
Remote Mounting up to 18 feet



QUICKTRONIC 2x32 ISH



QUICKTRONIC 3x32 PLUS (ISH)



QUICKTRONIC 4x32 ISH

<sup>1</sup> Data based on F032/XP lamp. See the SYLVANIA QUICKTRONIC Electronic Ballast Technology and Specification Guide (ECS-ELECTRONIC) for other system combinations.

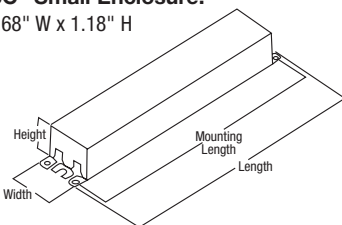
<sup>2</sup> Operation below 50°F may affect light output or lamp operation - see "Low Temp. Starting" definition.

### Dimensions "SC" Small Enclosure:

Overall: 9.5" L x 1.68" W x 1.18" H  
Mounting: 8.90"

**Wiring:**  
Leads only

**Packaging:**  
10 pieces  
Weight: 1.6 lbs ea. (approx.)

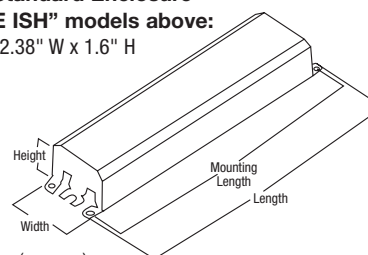


### Dimensions Standard Enclosure

"PLUS & QHE ISH" models above:  
Overall: 9.5" L x 2.38" W x 1.6" H  
Mounting: 8.90"

**Wiring:**  
Leads only

**Packaging:**  
10 pieces  
Weight: 2.8 lbs ea. (approx.)



## System Life / Warranty

QUICKTRONIC products are covered by our QUICK 60+® warranty, a comprehensive lamp and ballast system warranty. For additional details, refer to our QUICK 60+ warranty bulletin.

## Ordering Guide

Specifications subject to change without notice.

Item Number ————— 49923 QT 2 x 32T8 / 120 ISH-SC ————— Case Size  
QUICKTRONIC ————— Starting/Ballast Factor  
Number of Lamps ————— Line Voltage  
Primary Lamp Wattage



# QUICKTRONIC® T8 Instant Start UNIVERSAL VOLTAGE

High Efficiency Series

Normal Ballast Factor

## Lamp/Ballast Guide

### 32W T8 - OCTRON®

#### QHE ISN SC Models

- 1-lamp QHE1x32T8/UNV
- 2-lamp QHE2x32T8/UNV
- 3-lamp QHE3x32T8/UNV
- 4-lamp QHE4x32T8/UNV

#### Also operates:

FBO32, FBO31, FO25, FBO24, FO17, FBO16, FO30/SS (30W), FBO30/SS (30W), FBO29/SS (29W), FO28/SS (28W) & FO25/SS (25W)

#### FO40T8 operation:

- 1 lamp on 2L ballast
- 2 lamps on 3L ballast
- 3 lamps on 4L ballast

Note: FO40T8 0°F Starting Temp.

## SYLVANIA QUICKTRONIC

**High Efficiency (QHE)** energy-saving electronic T8 ballasts save up to 6% over standard electronic ballasts without compromising light output or lamp life. The added energy savings also provides for a quicker payback. QHE ballasts also meet the most demanding utility rebate standards.

## SYLVANIA QUICKTRONIC

**High Efficiency (QHE)** operates OCTRON T8 lamps with maximum efficacy and high lumen output, and provides **30-44% energy savings** when compared to F40T12 magnetic systems.

Small can enclosure allows for low profile fixture design. Small size also provides transportation, inventory and ergonomic benefits.

This product is also offered in new banded packaging and pallet packs.



## SYLVANIA QUICKTRONIC

**High Efficiency (QHE)** is also covered by our QUICK 60+® warranty, the first and most comprehensive lamp & ballast system warranty in the industry.

Parallel circuitry is utilized to keep the remaining lamps lit if one or more should go out.

## Key System Features

- **High Efficiency Systems** over 90% efficient
- **Over 100 LPW (lumens/watt)** with OCTRON SUPERSAVER® lamps
- **Lowest power T8 I.S. Systems**
- **Universal voltage (120-277)**
- **Small Can enclosure size**
- **30-50% Energy savings**
- **-20°F (-29°C) min. starting temp.** for OCTRON lamps
- **60°F (16°C) min. starting temperature** with OCTRON SUPERSAVER lamps
- **<10% THD**
- **Virtually eliminates lamp flicker**

## System Information

## SYLVANIA QUICKTRONIC

**High Efficiency (QHE)** operates from 120V through 277V, eliminating "wrong voltage" wiring errors and reducing the number of models in inventory by half.

## SYLVANIA QUICKTRONIC

**High Efficiency (QHE)** uses instant start operation to provide the highest system efficacy and to assure low temperature starting capability. Instant start also provides for maximum remote wiring distances.

## SYLVANIA QUICKTRONIC

**High Efficiency (QHE)** electronic ballasts have very low harmonic distortion (<10% THD) for high system performance.

Ballast operates at >42kHz to reduce potential interference with infrared control systems.

A complete OSRAM SYLVANIA System Performance Guide showing performance characteristics for all combinations of lamps and ballasts is available upon request.

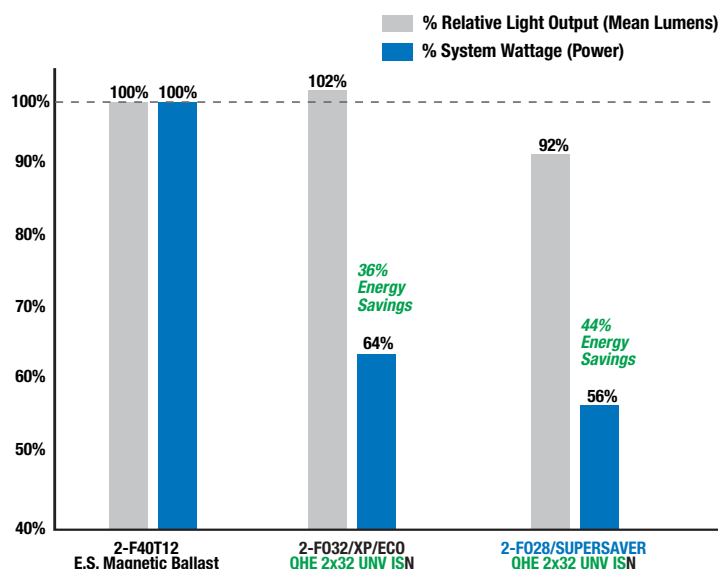
System Type (2-lamp)	Input Wattage	Initial Lumens	System LPW	Mean Lumens	Energy Savings
F40T12 - E.S. Magnetic Ballast	86	5795	67	4930	Baseline
F34T12 - E.S. Magnetic Ballast	72	4660	65	3960	16%
F032/XP - QHE2x32T8/UNV ISN-SC	55	5280	96	5015	36%
F028/SS - QHE2x32T8/UNV ISN-SC	48	4800	100	4560	44%

## Application Information

## SYLVANIA QUICKTRONIC

**High Efficiency** is ideally suited for:

- Any applications where the lowest power T8 systems are needed for **maximum energy savings**
- Energy Retrofits
- Commercial & Retail
- Hospitality & Institutional
- New Construction



ECS066R1

SEE THE WORLD IN A NEW LIGHT



# Normal Ballast Factor T8 Instant Start UNV VOLTAGE High Efficiency Systems

<10% THD **High Efficiency** Electronic T8 Fluorescent Systems (Normal Ballast Factor)

Item Number	OSRAM SYLVANIA Description	Input Voltage (VAC)	Input Current (AMPS)	Lamp Type	Rated Lumens (lm)	No. of Lamps	Ballast Factor (BF)	System Lumens	Input Wattage (W)	System Efficacy (lm/W)
49851	QHE 1X32T8/UNV ISN-SC	120-277	0.25/0.11	F032/XP	3000	1	0.88	2640	28	94
			0.22/0.09	F030/SS	2850	1	0.88	2510	26	97
			<b>0.21/0.09</b>	<b>F028/SS</b>	<b>2725</b>	<b>1</b>	<b>0.88</b>	<b>2400</b>	<b>25</b>	<b>96</b>
			0.19/0.09	F025/SS	2475	1	0.88	2175	22	99
49853	QHE 2X32T8/UNV ISN-SC	120-277	0.47/0.20	F032/XP	3000	2	0.88	5280	55	96
			0.44/0.19	F030/SS	2850	2	0.88	5015	52	96
			<b>0.40/0.18</b>	<b>F028/SS</b>	<b>2725</b>	<b>2</b>	<b>0.88</b>	<b>4800</b>	<b>48</b>	<b>100</b>
			0.36/0.16	F025/SS	2475	2	0.88	4355	43	101
49855	QHE 3X32T8/UNV ISN-SC	120-277	0.69/0.30	F032/XP	3000	3	0.88	7920	83/82	95/97
			0.66/0.28	F030/SS	2850	3	0.88	7525	78/77	96/98
			<b>0.61/0.26</b>	<b>F028/SS</b>	<b>2725</b>	<b>3</b>	<b>0.88</b>	<b>7195</b>	<b>72</b>	<b>100</b>
			0.55/0.23	F025/SS	2475	3	0.88	6530	65/64	101/102
49857	QHE 4X32T8/UNV ISN-SC	120-277	0.91/0.39	F032/XP	3000	4	0.88	10560	108/107	98/99
			0.86/0.37	F030/SS	2850	4	0.88	10030	102/101	98/99
			<b>0.80/0.35</b>	<b>F028/SS</b>	<b>2725</b>	<b>4</b>	<b>0.88</b>	<b>9590</b>	<b>95</b>	<b>101</b>
			0.71/0.30	F025/SS	2475	4	0.88	8710	84/83	104/105

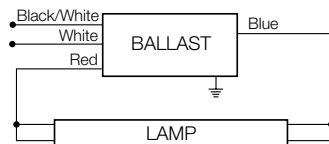
Products listed above are 10 packs.

## 840 PC Pallet Packs

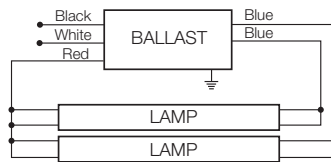
49852 QHE1x32T8/UNV-ISC-PAL 49854 QHE2x32T8/UNV-ISC-PAL  
49856 QHE3x32T8/UNV-ISC-PAL 49858 QHE4x32T8/UNV-ISC-PAL

## 10 PC Banded Packs

49968 QHE1x32T8/UNV-ISC-B 49969 QHE2x32T8/UNV-ISC-B  
49970 QHE3x32T8/UNV-ISC-B 49971 QHE4x32T8/UNV-ISC-B

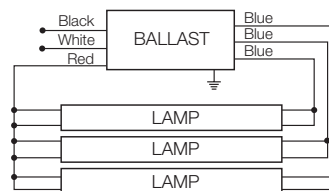


QUICKTRONIC 1x32



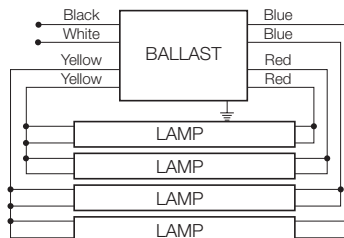
Note: For one lamp application, cap any blue lead. Insulate to 600 volts.

QUICKTRONIC 2x32



Note: For two lamp application, cap any blue lead. Insulate to 600 volts.

QUICKTRONIC 3x32



Note: For three lamp application, cap any unused blue lead. Insulate to 600 volts.

QUICKTRONIC 4x32

## Specifications<sup>1</sup>

**Starting Method:** Instant Start  
**Ballast Factor:** 0.88

**Circuit Type:** Parallel

**Lamp Frequency:** > 40KHz

**Lamp CCF:** Less than 1.7

**Starting Temp:**<sup>1</sup>

-20°F for OCTRON T8 lamps;  
60°F for SUPERSAVER® T8 lamps  
0°F for F040T8

**Input Frequency:** 50/60 Hz

**Low THD:** < 10%

**Power Factor:** > 98%

**Voltage Range:** 108-305V

UL Listed Class P, Type 1 Outdoor  
CSA Certified (where applicable)  
70°C Max Case Temperature  
FCC 47CFR Part 18 Non-Consumer  
Class A Sound Rating  
ANSI C62.41 Cat. A Transient Protection  
Remote Mounting up to 20 feet<sup>1</sup>

<sup>1</sup> Operation below 50°F may affect light output or lamp operation – see "Low Temp. Starting" definition.

## System Life / Warranty

QUICKTRONIC products are covered by our QUICK 60+® warranty, a comprehensive lamp and ballast system warranty. For additional details, refer to our QUICK 60+ warranty bulletin.

## Ordering Guide

Specifications subject to change without notice.

## Dimensions:

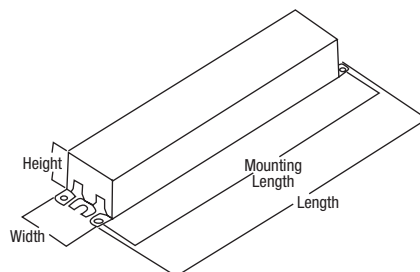
Overall: 9.5" L x 1.68" W x 1.18" H  
Mounting: 8.90"

## Packaging:

Quantity: 10 pieces/840 pieces  
Weight: 1.6 lbs each (approx)

## Wiring:

Leads only (no connectors provided)



Item Number ———— **49855 QHE 3 x 32T8 / UNV ISN-SC** ———— Case Size  
QUICKTRONIC High Efficiency ———— Starting/Ballast Factor  
Number of Lamps ———— Line Voltage (120-277V)  
Primary Lamp Wattage