

Submitted by MH Lighting and Controls



**Job Name:**

University of Colorado at Boulder - Andrews Hall  
 Architect: Bennett Wagner Grody Architects  
 Engineer: Ludvik Electric

**Catalog Number:**

RHL-48-MW-PJA-2-32-SB-OSR  
 P-SN1-2-120  
 Notes:

**Type:**

**A**

#MIDN08-2-882

**Rough-house Series**

**Architectural Linear Lighting for Rough Service Indoor Environments**

RHL7 Series - ADA Compliant  
 T5 and T8 Lamps  
 Ceiling/Wall Mount/Surface - Linear Fluorescent  
 Nominal 7"x24" 7"x36" and 7"x48"



Width	Length	Depth
7.04"	24.80"	2.87"
7.04"	36.80"	2.87"
7.04"	48.80"	2.87"

**Specifications**

**Lens:** UV stabilized, high impact pearlescent acrylic. Smooth exterior, linear prismatic interior. Nominal thickness .156". Lens locked in place with tamper-resistant stainless steel POSIGRIP™ fasteners.

**Housing:** 18-gauge CRS. Urethane powder coat finished - 5-step pre-treatment.

**End Caps:** High impact resistant injection molded black or white polycarbonate.

**Reflector:** Full reflector/wire cover - 92% reflectivity.

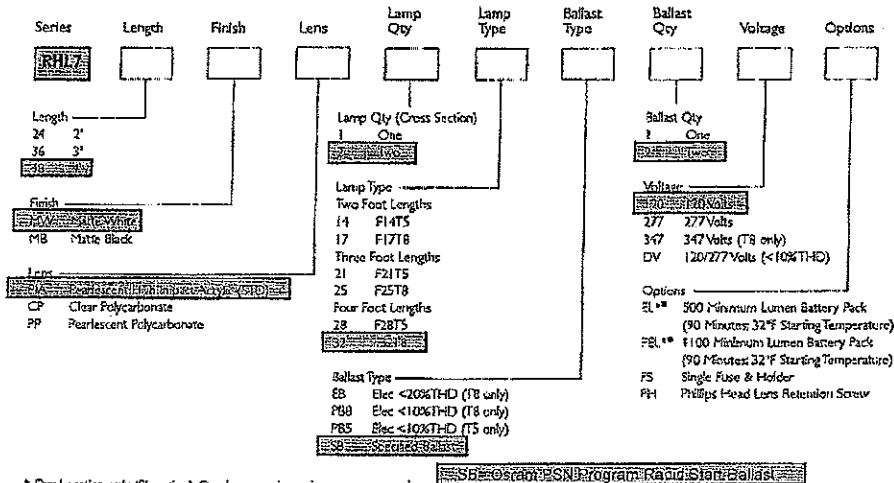
**Electrical:** Standard electronic ballast for T8 lamps (EB); Instant Start; UL listed, Class P, Class A audible noise rating; >98% power factor; <10% THD; 0°F minimum starting temperature. Optional electronic ballast for T8 lamps (PB8); Instant Start; UL listed, Class P, Class A audible noise rating; >98% power factor; <10% THD; 0°F minimum starting temperature. Standard electronic ballast for T5 lamps (PB5); Program Rapid Start; Suitable for use with occupancy switches; UL listed, Class P, Class A audible noise rating; >98% power factor; <10% THD; 0°F minimum starting temperature.

**Hardware:** Stainless steel tamper-resistant POSIGRIP™ fasteners.

**Listings/Certifications:** UL and CUL listed for Damp Locations.

**Installation:** Standard four-point (24" and 36" housing) or six-point (48" housing) mounting required for One Year Guarantee. For surface conduit installation end cap interior is provided with drill points for field drilling.

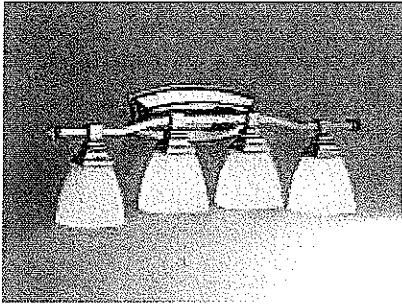
**Ordering Information**



\* Dry Location only (EL option). One lamp maximum in emergency mode.  
 \*\* 2' and 3' fixtures available in one lamp cross section only; have minimum 350-450 lumen battery pack  
 \* Fixtures only.



1020 Lakeside Drive Gurnee, Illinois 60031 847-360-8200 FAX 847-360-1781 www.kenall.com



**No Family Association - Bath Strip 4Lt**

6205CH

Bath Strip 4Lt 23-watt Compact Fluorescent

**Dia./Width:** 29.0 IN

**Body Height:** 10.5 IN

**Length:** 6.0 IN

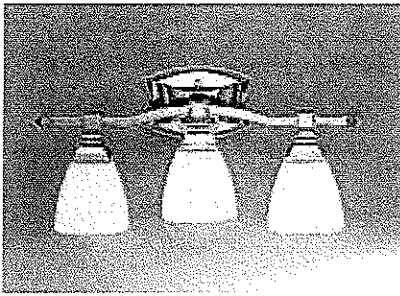
**Available Finishes:**

Chrome

For a clean, fresh look in your bathroom this 4-light bath fixture is just what you need. Featuring a lush, Chrome finish and Satin-etched cased opal glass while using 100-watt (max.) bulbs, this 29" wide fixture can be installed with the glass up or down for optimum lighting efficiency in the bathroom.

**Technical Information**

Type	Bath Lights	Extra Lead	7.75 IN
Style	Casual	Backplate Dimensions	12 X 5.25 IN
Finish Group	Silver	Bulb Included	N
Room	Bathroom	Primary Bulb Count	4
Weight	9.5 LBS	Primary Max Watt	100
Body Height	10.5 IN	Primary Bulb Base	P
Length	6 IN	Voltage	120
Width	29 IN	UL CSA Listed	Y
Extension	5.75 IN	Diffuser Description	Satin Etched Cased Opal Glass
Height from Junction Box	7.75 IN		



**No Family Association - Bath Strip 3Lt**

6204CH

Bath Strip 3LT, 23-watt Compact Fluorescent

**Dia./Width: 22.0 IN**

**Body Height: 10.5 IN**

**Length: 6.0 IN**

**Available Finishes:**

Chrome

For a clean, fresh look in your bathroom this 3-light bath fixture is just what you need. Featuring a lush, Chrome finish and Satin-etched cased opal glass while using 100-watt (max.) bulbs, this 22' wide fixture can be installed with the glass up or down for optimum lighting efficiency in the bathroom.

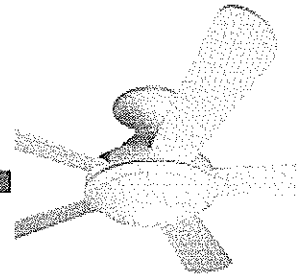
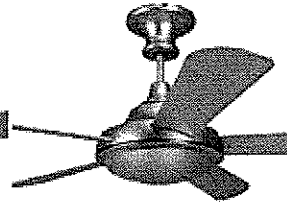
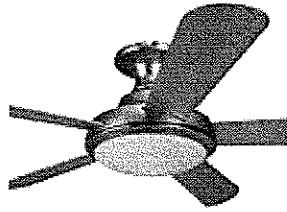
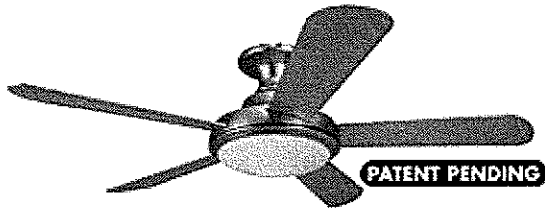
**Technical Information**

Type	Bath Lights	Extra Lead	7.75 IN
Style	Casual	Backplate Dimensions	5 X 7.5 IN
Finish Group	Silver	Bulb Included	N
Room	Bathroom	Primary Bulb Count	3
Weight	7 LBS	Primary Max Watt	100W
Body Height	10.5 IN	Primary Lamp Type	A19
Length	6 IN	Primary Bulb Base	P
Width	22 IN	Voltage	120
Extension	5.75 IN	UL CSA Listed	Y
Height from Junction Box	7.75 IN	Diffuser Description	Satin Etched Cased Opal Glass



# Types F & F1

Better By Design



## The Triumph™ Collection

Contemporary and sleek.

Our Triumph fan, with custom blades, and integrated light kit is a piece of art.

- CONVERTIBLE FROM STEM MOUNT TO FLUSHMOUNT
- HEAVY DUTY 188 X 15MM MOTOR
- BLANK LIGHT LENS COVER OPTIONAL  
ITEM # TR40BN TR40OB TR40W
- FIVE BLADES MATCHED TO EXACT WEIGHT
- 52" BLADE SPAN
- TRIUMPH BLADES SOLD SEPERATELY
- INTEGRATED LIGHT KIT (uses 1-75W Mini Can Halogen Bulb, Included)
- AVAILABLE IN WHITE, BRUSHED NICKEL, AND OILED BRONZE FINISHES
- LIFETIME LIMITED WARRANTY
- STANDARD TCS HANDHELD REMOTE INCLUDED

TR52BN BTR52-BN  
Brushed Nickel finish with integrated light kit and Brushed Nickel blades.

TR52BN BTR52-BN  
Brushed Nickel finish with Blank Lens and Brushed Nickel blades

TR52W BTR52-W  
White finish with integrated light kit and White blades

Flushmount Option



Type F

Stem Mount Option



Type F1



ICS Standard

Note: Fans and Blades are Sold Separately

Craftmade International, Inc.

**Triumph<sup>®</sup>**

**Craftmade<sup>®</sup>**



**TR52BN with  
BTR/52-BN**  
Triumph with Brushed Nickel  
Blades with integrated light kit.

**MODEL #TR52BN BTR/52-BN**

<b>DIMENSIONS</b>	<b>SPECIFICATIONS</b>	<b>STANDARD OPERATION</b>
<p>Triumph Fans are shipped with 6" down rod.</p>	<p>Blade Sweep – 52" # of Blades – 5 Blade Pitch – 14° Motor Size (MM) – 188 x 15 AMPS (HI Speed) – 0.5 Watts (HI Speed) – 60 RPM (HI/MED/LO) – 170/125/55 CFM (HI Speed) – 6300</p>	<p>TCS Handheld Remote (Included)</p> <p>TCS Plus Remote Wall Control Optional</p>
<p><b>WARRANTY</b> Lifetime Warranty</p>	<p><b>Integrated Light Kit uses 1-75 watt mini can halogen bulb (Included)</b></p> <p>Light Blank-Off Optional TR-40,BN,OB,W</p>	

Submitted by MH Lighting and Controls



**Job Name:**  
University of Colorado at Boulder - Andrews Hall  
Architect: Bennett Wagner Greedy Architects  
Engineer: Ludvik Electric

**Catalog Number:**  
E4A-2T8-4-G1-GG-120(OSR-PSN)  
W4DC  
Notes

**Type:**  
H1



**EDGE 4**



2T8 RECESSED LINEAR DIRECT / Acrylic Lens

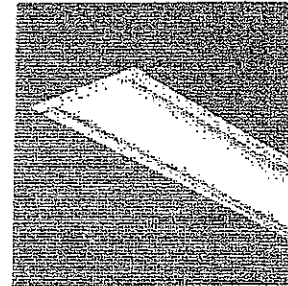
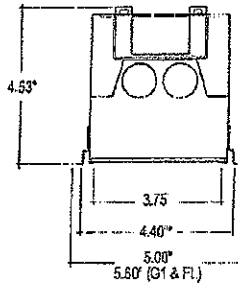
**CONSTRUCTION** Formed cold rolled steel housing. Highly reflective die-formed white painted steel reflector, 125° diffuse acrylic lens with matte finish, removable for lamp replacement

**ELECTRICAL** Standard instant start UL listed Class P, T8 electronic Sound Rated A, thermally protected, High Power Factor ballasts less than 20% THD. Through wiring with quick connects standard. Standard single circuit.

**MOUNTING** Edge is designed to rest into lay-in ceilings (specify trims G1, G9 or G9) or non-accessible ceilings (specify trims FL or NF). Consult factory for detailed installation instructions

**FINISH** Standard powder-coat white painted finish on exposed trim. Consult factory for custom colors

**LABELS** cUL Listed, approved for dry/damp location unless otherwise noted.



\*Add 25" for rough-in aperture

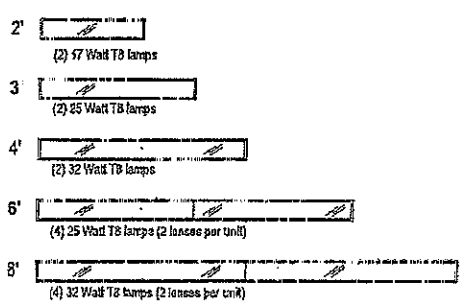
**LUMINAIRE SPECIFICATION**

Sample Catalog #: E4A-2T8-24'-FL-120-W-DM

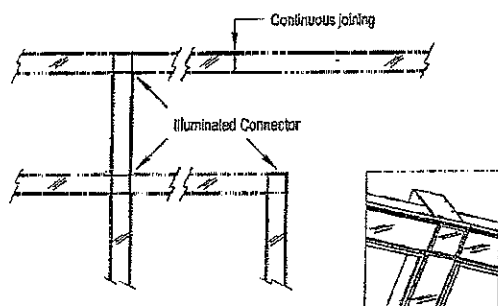
E4A- 2T8-		OSR/PSN 10% THD OSRAM PSN BALLAST		W.		
HOUSING	LAMPS	LENGTH	MOUNTING	VOLTAGE	FINISH	OPTIONS
	(2) T8 Lamp	Individual Units 2- 2' 3- 3' 4- 4' 6- 6' 8- 8' Continuous Runs xx'- Specify nominal overall row length in 1' increments	Acoustical Grid Ceiling On-Grid Solution* G1- 1" Ceiling Grid G9G- 9/16" Ceiling Grid G9S- Screw Slot Ceiling Grid Architectural Continuous Rows G1- 1" Ceiling Grid G9- 9/16" Ceiling Grid G9S- Screw Slot Ceiling Grid Inaccessible Ceiling FL- Standard 3/4" Flange NF- Flangeless	<del>270- 270V</del> 277- 277V 347- 347V	Matte White CC Custom Color	DM- Dimming EB- Battery EC- Emergency Circuit DC- Dual Circuit CP- Chicago Plenum CL- Illuminated Connector T5-T9 PL T5HO-13W PL

**COMPONENTS**

**Individual Luminaires**



**Configuration**



Submitted by MH Lighting and Controls



**Job Name:**  
University of Colorado at Boulder - Andrews Hall  
**Architect:** Bennett Wagner Gray Architects  
**Engineer:** Ludvik Electric

**Catalog Number:**  
E4A-218-4-G1G-120(OSR/PSN)  
**W/EBC:** EB  
**Notes:**

**Type:**  
H1E



**EDGE 4**



2T8 RECESSED LINEAR DIRECT / Acrylic Lens

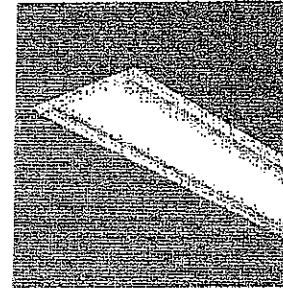
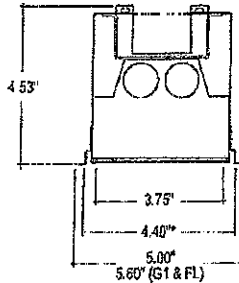
**CONSTRUCTION** Formed cold rolled steel housing. Highly reflective dia-formed white painted steel reflector. .125" diffuse acrylic lens with matte finish, removable for lamp replacement

**ELECTRICAL** Standard instant start UL listed Class P, T8 electronic Sound Rated A, thermally protected, High Power Factor ballasts less than 20% THD. Through wiring with quick connects standard. Standard single circuit

**MOUNTING** Edge is designed to rest into lay-in ceilings (specify trims G1, G9 or G5) or non-accessible ceilings (specify trims FL or NF). Consult factory for detailed installation instructions

**FINISH** Standard powder-coat white painted finish on exposed trim consult factory for custom colors

**LABELS** cUL Listed, approved for dry/damp location unless otherwise noted.



\*Add .25" for rough-in aperture

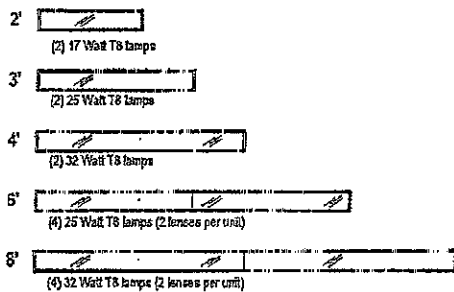
**LUMINAIRE SPECIFICATION**

Sample Catalog #: E4A-218-24'-FL-120-W-DM

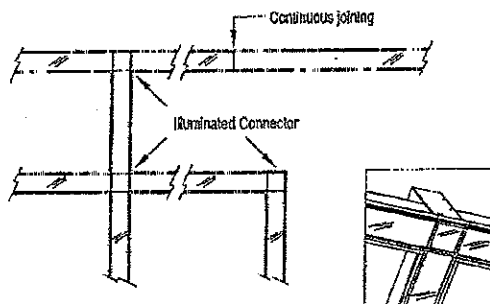
E4A- 218-		OSR/PSN<10%THD>SRAMP/PSN/BALLAST		W-		
HOUSING	LAMPS	LENGTH	MOUNTING	VOLTAGE	FINISH	OPTIONS
	2T8 (2) T8 Lamp	Individual Units 2- 2' 3- 3' 4- 4' 5- 5' 6- 6'	Acoustical Grid Ceiling On-Grid Solution* G0G- 1" Ceiling Grid G9G- 9/16" Ceiling Grid G8G- Screw Slot Ceiling Grid Architectural Continuous Rows G1- 1" Ceiling Grid G9- 9/16" Ceiling Grid G5- Screw Slot Ceiling Grid Inaccessible Ceiling FL- Standard 3/4" Flange NF- Flangeless	20-200 W 277- 277 V 347- 347 V	W- Matte White CC Custom Color	DM- Dimming EB- Battery EC- Emergency Circuit DC- Dual Circuit CP- Chicago Plenum Connector CL** Illuminated T5-TW PL T5HO-13W PL
		Continuous Runs xx' Specify nominal overall row lengths in 1' increments				*Available in 2', 4' and 8' fixture lengths only **Add CL to all fixture types involved in the connector layout approved drawings required


**COMPONENTS**

**Individual Luminaires**



**Configuration**



Submitting Agency:  THE LIGHTING AGENCY p. 203-455-1012	Description: UC 24E 120 LP SWR Project: CU ANDREW HALL - LUDVIK Notes:	Type: <b>K-24</b>
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<b>CONTRACTOR TO VERIFY:</b>	
Voltage:	Row Information:
Colors/ Finishes:	Switching Options:
Ceiling Type:	Suspension Lengths:
Specific Dimming Ballasts (if required):	Other:



**FEATURES & SPECIFICATIONS**

**INTENDED USE**  
 Provides task or accent illumination in residential and light commercial applications. Ideal for use under cabinets offering shadow-free lighting in kitchens and work areas, in bookcases, display cabinets or above cabinets setting a warm, inviting atmosphere in the kitchen.

**ATTRIBUTES**  
 Rugged post painted low profile housing with snap on/off hinged service tray for quick installation and wiring. Shatter-resistant, acrylic white diffuser provides soft widespread illumination with zip-lock design for easy lamp access, cleaning and superior retention. Separate snap on/off service tray for easy maintenance. Available in five lengths, on/off rocker switch standard with magnetic ballast fixtures, electronic ballast fixtures can be ordered with or without on/off rocker switch.

Utilizes linear T5 lamp(s) for energy efficiency, superior color rendering and long life. Can be ordered with lamps included as standard with magnetic pre-heat ballast fixtures only, other fixtures, lamps are not included.

Electronic ballast (120 volt, 60Hz) fixtures ensures no flickering and quiet operation without interfering with other home electronics. Can be ordered with Magnetic Pre-Heat ballast as standard. Use with non-dimmable switches only.

All mounting hardware included.

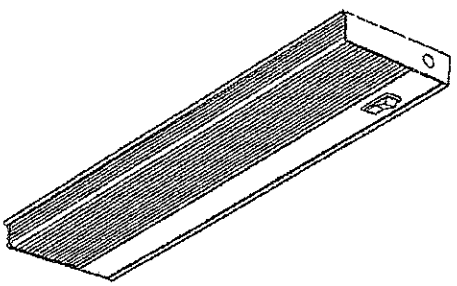
**LISTING**  
 CUL listed to US and Canadian safety standards and suitable for damp locations. ENERGY STAR® qualified.

**WARRANTY**  
 Guaranteed for two years against mechanical defects in manufacture.

**Indoor General Purpose**  
**Cabinet Light**

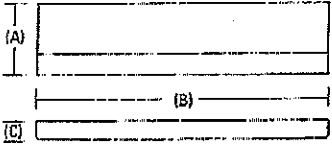
**Direct Wire - T5**

Linear T5 Fluorescent



**DIMENSIONS**

Model	Length	Number of Lamps	Ballast Type	Height	Depth	Weight
UC 12	12"	(1) 8W linear T5	Magnetic pre-heat ballast	5" (12.7)	12-3/8" (31.3)	1-1/8" (2.9)
UC 21	21"	(1) 13W linear T5	E Electronic ballast <sup>1</sup>	5" (12.7)	21-3/8" (54.3)	1-1/8" (2.9)
UC 24	24"	(2) 8W linear T5	Magnetic pre-heat ballast	5" (12.7)	24-1/2" (62.2)	1-1/8" (2.9)
UC 33	33"	(1) 8W & (1) 13W linear T5	Magnetic pre-heat ballast	5" (12.7)	33-1/2" (85.1)	1-1/8" (2.9)
UC 42	42"	(2) 13W linear T5	Magnetic pre-heat ballast	5" (12.7)	42-1/2" (108.0)	1-1/8" (2.9)



Extension from ceiling: \_\_\_\_\_ All dimensions are in inches (centimeters)  
 Accessories/Replacement parts (See back page)

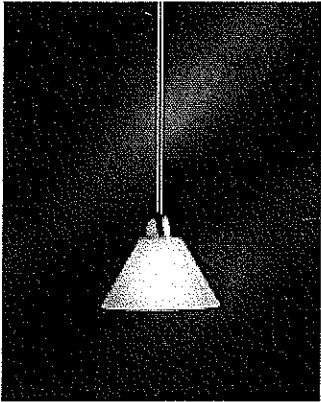
**ORDERING INFORMATION**

Choose the boldface catalog nomenclature that best suits your needs and write it on the appropriate line. Order accessories and replacement parts as separate catalog numbers.

Example: UC 12 120

Model Number <sup>1,2,3</sup>	Ballast Type	Cord & Plug	Rocker Switch	Convenience Outlet
UC12 12" - (1) 8W linear T5 fluorescent lamp required	(blank) Magnetic pre-heat ballast	(blank) No cord & plug included	(blank) No switch SWR	(blank) No convenience outlet
UC21 21" - (1) 13W linear T5 fluorescent lamp required	E Electronic ballast <sup>1</sup>	CSW Cord & plug included	Rocker switch <sup>4</sup>	CO Convenience outlet
UC24 24" - (2) 8W linear T5 fluorescent lamp required				
UC33 33" - (1) 8W & (1) 13W linear T5 fluorescent lamp required				
UC42 42" - (2) 13W T5 linear fluorescent lamps required				

**Notes:**  
 1. Lamps not included.  
 2. Use with non-dimmable switches only.  
 3. Maximum quantity of cabinet fixtures that can be connected from a single power source can not exceed 940 watts from the lamp wattage.  
 4. EnergyStar qualified.  
 5. Available only on magnetic pre-heat ballast.  
 6. SWR standard with magnetic ballast and must be indicated in catalog number.



**Swiss Passport - Pendant 1Lt**

2807NI

Pendant 1Lt 23-watt Compact Fluorescent

**Dia./Width: 7.0 IN**

**Body Height: 6.0 IN**


**Available Finishes:**

Brushed Nickel

With a decidedly European flair, the Swiss Passport Collection provides ample lighting and a design that is modern and elegant all in one package. The hand-formed frame and Brushed Nickel finish, combined with Satin-etched glass, give this family of fixtures high-quality construction and a clean profile that goes with any contemporary interior decor. For a combination of extraordinary lighting with a universally pleasing aesthetic, the Swiss Passport Collection is an unbelievable value. For a touch of light in any room, the Swiss Passport mini-pendant provides needed illumination with a simple 1-light design. Its modest 7" diameter uses a 100-watt (max.) bulb.

**Technical Information**

Type	Pendants	Bulb Included	N
Style	Contemporary / Modern	Primary Bulb Count	1
Finish Group	Silver	Primary Max Watt	100W
Room	Kitchen	Primary Bulb Base	P
Body Height	6 IN	UL CSA Listed	Y
Width	7 IN	Diffuser Description	SATIN ETCHED GLASS
Extra Lead	104 IN		

Submitting Agency:  THE LIGHTING AGENCY P. 303-452-1012	Description: <b>LB 2 32 MVOLT OSPS LP835</b> Project: CU ANDREW HALL - LUDVIK Notes:	Type: <b>M</b>
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### FEATURES & SPECIFICATIONS

#### INTENDED USE

For applications that require the clean appearance of a low profile, brightness controlled wraparound. Provides broad distribution of light for offices, schools and corridors.

#### ATTRIBUTES

Curved prismatic diffuser with linear side prisms minimize lamp image and provides high angle brightness control. Luminous end plates soften appearance for improved aesthetics.

#### CONSTRUCTION

Metal parts are die formed from code-gauge steel. Prismatic diffuser is 100% acrylic with sonically welded luminous ends. Continuous side flanges on fixture body provide light trap and continuous diffuser support to prevent accidental opening and simplify maintenance.

#### FINISH

Five stage iron-phosphate pretreatment assure superior paint adhesion and rust resistance.

Painted parts finished with high-gloss, high-reflectivity baked white polyester enamel (low VOC).

#### ELECTRICAL SYSTEM

Thermally-protected, resetting, Class P, HPF, non-PCB, UL Listed, CSA certified ballast is standard. Luminaire is suitable for damp locations. AWM TFM or THHN wire used throughout, rated for required temperatures.

UL/CSA listed ballast disconnect w/strain relief and leads provided standard.

#### LISTING

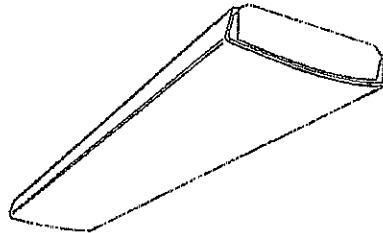
UL Listed (standard). Optional: Canada CSA or e-UL. Mexico NOM.

#### WARRANTY

Guaranteed for one year against mechanical defects in manufacture.

### CONTRACTOR TO VERIFY:

Voltage:	Row Information:
Colors/ Finishes:	Switching Options:
Ceiling Type:	Suspension Lengths:
Specific Dimming Ballasts (if required):	Other:



**LB**

T5 and T8  
2 lamps  
Narrow body  
2' 4' or 8' length

#### Specifications

Length: 24 (61.00) 48 (122.00)  
or 96 (243.90)

Width: 10 (25.40)

Depth: 3 (7.62)



All dimensions are inches (centimeters).  
Specifications subject to change without notice.

### ORDERING INFORMATION

For shortest lead times, configure product using standard options (shown in bold).

Example: LB 2 32 MVOLT GEB10IS

<b>LB</b>	<b>2</b>	<b>32</b>	<b>MVOLT</b>	<b>OSPS LP835</b>
Series	Number of lamps	Lamp type	Voltage	Options
<b>LB 2 lamps, 10" wide</b> For tandem, double-length unit, add prefix T Example: TL8	<b>2</b> Not included	17 17W T8 (24") <b>32 32W T8 (48")</b> 14 14W T5 (24") 28 28W T5 (48")	120 277 347 <b>MVOLT</b> Others available	<b>GEB10IS</b> Electronic ballast, <10% THD, instant start <b>GEB10PS</b> Electronic ballast, <10% THD, program start EL Emergency battery pack (nominal 300 lumens, see Life Safety Section) GLR Internal fast blow fuse' GMF Internal slow-blow fuse' LSC Lens safety clips (2 per fixture) CSA Listed and labeled to comply with Canadian Standards SSR Specular silver interior finish (95% reflective) <b>OSPS</b> Osram/Sylvania Programmed Start
				<b>LP835 Lamped</b>


#### Accessories

Order as separate item

- SQ Swivel-stem hanger (specify in 2" increments)
- 1B Ceiling spacer (adjusts from 1-1/2" to 2-1/2" from ceiling)
- DSH24 Double stem hanger for 4' fixtures, 24" stems

#### NOTES:

- 1 Must specify voltage.
- 2 All T5 lamp types use GEB10PS ballast only

Submitting Agency:  THE LIGHTING AGENCY P. 805-466 1012	Description: <b>LF6 2/18DTT MVOLT GEB10</b> Project: CU ANDREW HALL - LUDVIK Notes:	Type: <b>N</b>
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**CONTRACTOR TO VERIFY:**

Voltage:	Row Information:
Colors/ Finishes:	Switching Options:
Ceiling Type:	Suspension Lengths:
Specific Dimming Ballasts (if required):	Other:



**FEATURES & SPECIFICATIONS**

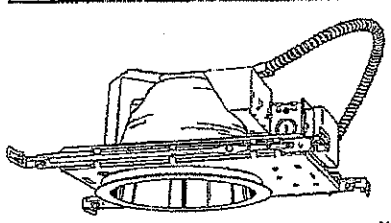
**INTENDED USE**  
Recessed frame-in rated Non-IC for new construction and remodel applications.  
Approved for all ceiling and wiring types.

**CONSTRUCTION**  
Steel frame. Cutout section on frame for remodel applications.  
Galvanized bar hangers span up to 24" o.c. and feature built-in nailer and T-bar clips.  
Galvanized steel junction box with removable access door, four built-in romex clamps; two 1/2" and four 3/4" knockouts with slots for pryout.  
Maximum 8 (4in 4out) No 12 AWG conductors. Rated for 90° C.  
Ground wire provided.

**ELECTRICAL SYSTEM**  
Socket attaches to reflector with pre-mounted screw to ensure proper and consistent lamp position.  
Multi-volt: 120V through 277V, electronic ballast with end of life protection.  
Class P thermally protected ballast protects against improper contact with insulation.  
Approved for through branch circuit wiring.

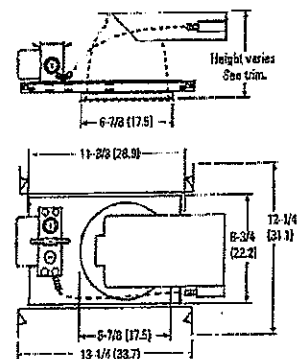
**INSTALLATION**  
2x 8 wood joist or T-bar installation.  
Expandable bar hangers allow for off-center mounting in wood joist or T-bar ceilings.  
Length of 25-1/4" maximum 13 1/4" minimum or cut to fit 10-1/2" on center joist construction.  
Reflector is secured to frame-in by mechanical trim retention.  
Vertically adjustable yoke allows for flush mounting of trims to ceiling face.  
Accommodates ceilings up to 1-1/2" thick.

**LISTING**  
UL Listed to US and Canadian safety standards.  
Damp location listed. (See trim selection for wet location listed.)



6" Frame-in  
**LF6**

FLUORESCENT  
Non-IC  
New Construction



**Specifications**

Height: 3-1/2 (8.9)  
(trim height varies)

Length: 13-1/4 (33.7)

Width: 12-1/4 (31.1)

Ceiling Opening: 7 (17.8)


All dimensions are inches (centimeters).

**ORDERING INFORMATION**

For shortest lead times, configure product using **standard options (shown in bold)**.  
Example: LF6 2/26DTT MVOLT F602AZ

LF6	2/18DTT	MVOLT	GEB10	
Series <b>LF6</b>	Lamps 2/13DTT <sup>1</sup> 2/18DTT <sup>1</sup> 2/26DTT	Volt 120 277 347 <sup>2</sup>	Options	
			DMHL Lytron Compact SE™ electronic dimming ballast, 120V or 277V; minimum dimming level 5%.	F602 White open F602A Clear diffuse open F602AZ Clear specular open F602G Gold diffuse open F602GZ Gold specular open F6B3 Black baffle F6B3W White baffle F6W1 White wallwash F6W1A Clear diffuse wallwash F6W1G Gold diffuse wallwash F6W1AZ Clear specular wallwash F6W1BZ Gold specular wallwash F6W1PR Pewter wallwash F6W1WTZ Wheat specular wallwash
			ADEZ Advance Mark 10™ electronic dimming ballast 120 or 277V; minimum dimming level 5%.	F6LD1 PF Drop opal lens <sup>4</sup> F6LD2 PF Drop prismatic lens <sup>4</sup> F6LF1 PF Flush opal lens <sup>4</sup> F6LF2 PF Flush prismatic lens <sup>4</sup> F6LD3 White splay, drop opal lens <sup>4</sup> F6LD63 Black baffle drop opal lens <sup>4</sup> F6LF3 White splay flat white lens <sup>4</sup> F6LFB3 Black baffle, flat white lens <sup>4</sup> F6LA White splay, flat fresnel lens <sup>4</sup> F6LB4 Black baffle flat fresnel lens <sup>4</sup> F6LF73 White splay, tempered T73 flat prismatic lens <sup>4</sup> F6LFB73 Black baffle, tempered T73 flat prismatic lens <sup>4</sup>
			EL Emergency battery pack with integral test switch <sup>4</sup>	
			ELR Emergency battery pack with remote test switch <sup>4</sup>	
			BDP Ballast disconnect plug (meets codes that require in-fixture disconnect)	
			GMF Single slow-blow fuse	
			WLP 35K lamp (shipped separately)	
			TRW White flange	
<b>GEB10 Generic Use Electronic Ballast; 10% THD</b>				
<b>Accessories:</b>				
Order as separate catalog number				
			LBH 22" extended bar hangers, set of two	
			LCMB Channel bar mounting brackets, set of two	
			LSMC T-bar mounting clips, set of four	

NOTES:  
1 Not available with ADEZ or DMHL.  
2 Electronic multi-volt ballast capable of operating any line voltage from 120-277V, 50 or 60Hz.  
3 Not available with EL or ELR.  
4 Lens removal required before EL testing.  
See trim specification sheet for maximum wattages.

Submitting Agency:  THE LIGHTING AGENCY p. 303-495-1012	Description: <b>F6LF1 PF</b> Project: CU ANDREW HALL - LUDVIK Notes: ← trim only	Type: <b>N</b>
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### FEATURES & SPECIFICATIONS

**INTENDED USE**  
For use in Non-IC application with LF6 frame-in

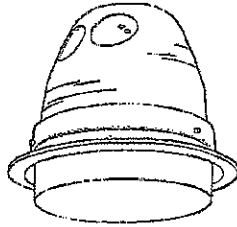
**CONSTRUCTION**  
Aluminum one-piece reflector. White integral plastic flange  
White polyester powder coat paint  
Opal or prismatic polycarbonate diffuser

**INSTALLATION**  
Rough-ins utilize yoke for mechanical trim retention  
Socket housing attaches securely to reflector  
Reflectors accommodate ceilings up to 1/2" thick

**LISTING**  
UL Listed to U.S. and Canadian safety standards  
Wet location listed

Notes	Type
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6" Finishing Trim  
**F6L1/2**



**LENS**  
Horizontal Lamp  
Fluorescent  
Narrow Flange

#### CONTRACTOR TO VERIFY:

Voltage:	Row Information:
Colors/Finishes:	Switching Options:
Ceiling Type:	Suspension Lengths:
Specific Dimming Ballasts if required:	Other:

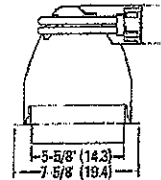
Energy (Calculated in accordance with NEMA standard IE-5)

Fixture/ Reflector	LER	Annual* Energy Cost	Lamps	Lamp Lumens	Ballast Factor	Input Watts
LF6 DTT/F6LD1 PF	11.83	\$20.28	(2) 13W DTT	1560	1	29
LF6 DTT/F6LD1 PF	18.61	\$12.90	(2) 28W DTT	3650	1	51
LF6 DTT/F6LD2 PF	13.45	\$17.85	(2) 13W DTT	1560	1	29
LF6 DTT/F6LD2 PF	21.47	\$11.18	(2) 26W DTT	3650	1	51
LF6 DTT/F6LF1 PF	10.76	\$22.31	(2) 13W DTT	1560	1	29
LF6 DTT/F6LF1 PF	17.18	\$13.97	(2) 26W DTT	3650	1	51
LF6 DTT/F6LF2 PF	12.37	\$18.40	(2) 13W DTT	1560	1	29
LF6 DTT/F6LF2 PF	20.04	\$11.98	(2) 26W DTT	3650	1	51

\*Comparative yearly lighting energy cost per 1000 lumens

#### Specifications

Height: 5-1/2 (14)  
Lamp Opening: 5-5/8 (14.3)  
Diameter: 7-5/8 (19.4)



All dimensions are inches (centimeters)

### ORDERING INFORMATION

For shortest lead times, configure product using **standard options (shown in bold)**.  
Example: **F6LD1 PF1**

F6LF1 PF

Series
<b>F6LD1 PF</b> Drop opal lens
<b>F6LD2 PF</b> Drop prismatic lens
<b>F6LF1 PF</b> Flush opal lens
<b>F6LF2 PF</b> Flush prismatic lens

#### Accessories:

Order as separate catalog number  
CTR6 Oversize trim ring

Housing Compatibility			
Housing and trim ordered separately			
Application	Source	Maximum wattage	Housing
Non-IC	Fluorescent	2/28 DTT	LF6

Submitting Agency:



THE LIGHTING AGENCY p. 303-455-1012

Description: **LF6 2/18DTT MVOLT GEB10**  
 Project: **CU ANDREW HALL - 1.UOVIK**  
 Notes:

Type:

**N1**

**CONTRACTOR TO VERIFY:**

Voltage:	Row Information:
Colors/Finishes:	Switching Options:
Ceiling Type:	Suspension Lengths:
Specific Dimming Ballasts (if required):	Other:



**FEATURES & SPECIFICATIONS**

**INTENDED USE**

Recessed frame-in rated Non-IC for new construction and remodel applications. Approved for all ceiling and wiring types.

**CONSTRUCTION**

Steel frame. Cutout section on frame for remodel applications. Galvanized bar hangers span up to 24' o.c. and feature built-in nailer and T-bar clips. Galvanized steel junction box with removable access door. Four built-in romex clamps; two 1/2" and four 3/4" knockouts with slots for pryout. Maximum 6 (4in 4out) No. 12 AWG conductors. Rated for 90° C. Ground wire provided.

**ELECTRICAL SYSTEM**

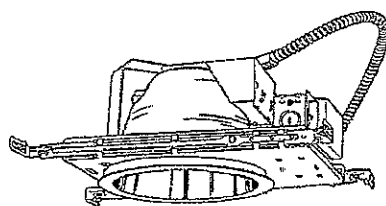
Socket attaches to reflector with pre-mounted screw to ensure proper and consistent lamp position. Multi-volt: 120V through 277V, electronic ballast with end of life protection. Class P thermally protected ballast protects against improper contact with insulation. Approved for through branch circuit wiring.

**INSTALLATION**

2 x 8 wood joist or T-bar installation. Expandable bar hangers allow for off-center mounting in wood joist or T-bar ceilings. Length of 25 1/4" maximum 13-1/4" minimum or cut to fit 10-1/2" on center joist construction. Reflector is secured to frame-in by mechanical trim retention. Vertically adjustable yoke allows for flush mounting of trims to ceiling face. Accommodates ceilings up to 1 1/2" thick.

**LISTING**

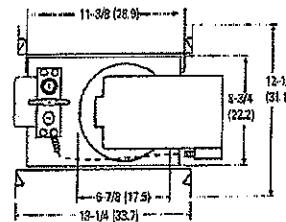
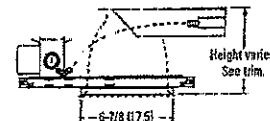
UL Listed to US and Canadian safety standards. Damp location listed. (See trim selection for wet location listed.)



6" Frame-in

**LF6**

**FLUORESCENT**  
 Non-IC  
 New Construction



**Specifications**

Height: 3-1/2 (8.9)  
 (trim height varies)  
 Length: 13 1/4 (33.7)  
 Width: 12-1/4 (31.1)  
 Ceiling Opening: 7 (17.8)

All dimensions are inches (centimeters).

**ORDERING INFORMATION**

For shortest lead times, configure product using **standard options (shown in bold)**.  
 Example: LF6 2/26DTT MVOLT F602AZ

LF6 2/18DTT MVOLT			GEB10		Reflector			
Series	Lamps	Volt	Options					
LF6	2/13DTT <sup>1</sup> 2/18DTT 2/26DTT	MVOLT <sup>2</sup> 120 277 347 <sup>3</sup>	DMHL	Lutron Compact SE™ electronic dimming ballast 120V or 277V; minimum dimming level 5%.	F602	White open	F6LD1 PF	Drop opal lens <sup>4</sup>
			ADEZ	Advance Mark 18™ electronic dimming ballast, 120 or 277V; minimum dimming level 5%.	F602A	Clear diffuse open	F6LD2 PF	Drop prismatic lens <sup>4</sup>
			EL	Emergency battery pack with integral test switch <sup>4</sup>	F602AZ	Clear specular open	F6LF1 PF	Flush opal lens <sup>4</sup>
			ELR	Emergency battery pack with remote test switch <sup>4</sup>	F602G	Gold diffuse open	F6LF2 PF	Flush prismatic lens <sup>4</sup>
			BDP	Ballast disconnect plug (meets codes that require in-fixture disconnect)	F602GZ	Gold specular open	F6LD3	White splay, drop opal lens <sup>4</sup>
			GMF	Single slow-blow fuse	F6B3	Black baffle	F6LDB3	Black baffle, drop opal lens <sup>4</sup>
			WLP	35K lamp (shipped separately)	F6B3W	White baffle	F6LF3	White splay flat white lens <sup>4</sup>
			TRW	White flange	F6W1	White wallwash	F6LFB3	Black baffle, flat white lens <sup>4</sup>
					F6W1A	Clear diffuse wallwash	F6LA	White splay flat fresnel lens <sup>4</sup>
					F6W1G	Gold diffuse wallwash	F6LB4	Black baffle flat fresnel lens <sup>4</sup>
					F6W1AZ	Clear specular wallwash	F6LF73	White splay, tempered T73 flat prismatic lens <sup>4</sup>
					F6W1GZ	Gold specular wallwash	F6LFB73	Black baffle, tempered T73 flat prismatic lens <sup>4</sup>
					F6W1PR	Pewter wallwash		
					F6W1WTZ	Wheat specular wallwash		

**GEB10** Generic Use Electronic Ballast; 10% THD

**NOTES:**

- 1 Not available with ADEZ or DMHL.
- 2 Electronic multi-volt ballast capable of operating any line voltage from 120-277V, 50 or 60Hz.
- 3 Not available with EL or ELR.
- 4 Lens removal required before EL testing. See trim specification sheet for maximum wattages.

**Accessories:**

- Order as separate catalog number
- LBH 22" extended bar hangers, set of two
- LCMB Channel bar mounting brackets, set of two
- LSMC T-bar mounting clips, set of four

Submitting Agency:  THE LIGHTING AGENCY p. 202-455-1012	Description: <b>F602A</b> Project: CU ANDREW HALL - LUDVIK Notes:	Type: <b>N1</b>
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**FEATURES & SPECIFICATIONS**

**INTENDED USE**

For use in Non-IC application with the LF6 frame-in.

**CONSTRUCTION**

Aluminum one-piece reflector

White polyester powder coat paint. White integral flange  
Diffuse or specular finishes have matching integral flange

**INSTALLATION**

Rough-ins utilize yoke for mechanical trim retention

Socket housing attaches securely to reflector

Reflectors accommodate ceilings up to 1 1/2" thick

**LISTING**

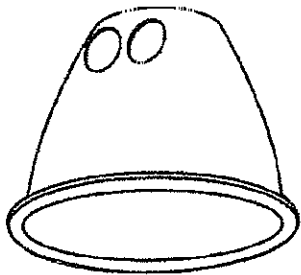
UL listed to US and Canadian safety standards

Damp location listed

Catalog Number	
Notes	Type

6" Finishing Trims

**F602**



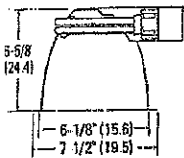
**OPEN REFLECTOR**  
Horizontal Lamp

**CONTRACTOR TO VERIFY:**

Voltage:	Row Information:
Colors/ Finishes:	Switching Options:
Ceiling Type:	Suspension Lengths:
Specific Dimming Ballasts (if required):	Other:

**Specifications**

Aperture Size (Inside diameter): 6-1/8" (15.6)  
Overlap Trim (Outside Diameter): 7-1/2" (19)  
Height: 6-5/8" (16.8)



All dimensions are inches (centimeters).

**ORDERING INFORMATION**

For shortest lead times, configure product using **standard options (shown in bold)**

Example: F602A

F602		Options
Series	Finish	
F602	(blank) <b>White</b> A Clear diffuse AZ Clear specular open G Gold diffuse PR Pewter GZ Gold specular WTZ Wheat specular	TRW White flange with anodized trims

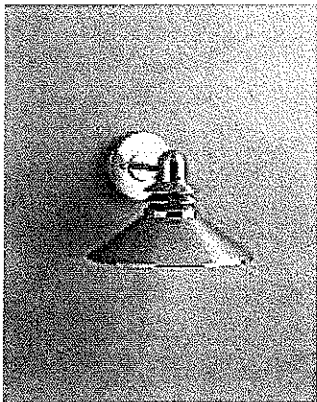
**Accessories**

Order as separate catalog number

CTR6	Oversize Trim Ring
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**Compatibility**

Used On	Lamp Type	Maximum Lamp Wattage	IC/Non-IC
LF6	Compact fluorescent	2/26W DTT	Non-IC



**Grenoble - Outdoor Wall 1Lt 23-watt Compact Fluorescent**  
9044NI

Fixture Outdoor Wall

**Dia./Width: 11.0 IN**  
**Body Height: 8.0 IN**

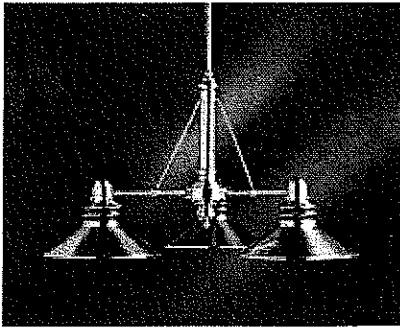
**Available Finishes:**

~~Polished Copper, White,~~  
Brushed Nickel, ~~Old Brick~~

The Grenoble Collection takes classic form and elevates it to a new standard with universal appeal. The central element of its design is the cone-shaped Brushed Nickel shade. The cone connects to the wall, giving the Grenoble Collection a clean profile that is decidedly contemporary without being overly modern. The Grenoble Collection also has this decorative and versatile wall sconce for any room inside and outside of your home. Its U.L. listed, one light design uses a 150-watt (max.) bulb for outstanding lighting in any situation. At 11" wide, the Grenoble Wall Sconce can be installed with the shade up or down leaving you with multiple options. The only question you have to answer is where you want to install it.

**Technical Information**

Type	Outdoor Lights	Backplate Dimensions	5 X .75 IN
Style	Contemporary / Modern	Bulb Included	N
Finish Group	Silver	Primary Bulb Count	1
Room	Outdoor	Primary Max Watt	150W
Body Height	8 IN	Primary Bulb Base	P
Width	11 IN	UL CSA Listed	Y
Extension	11.5 IN	Body Material	ALUMINUM
Extra Lead	2.5 IN		



**Grenoble - Chandelier 3Lt** 23-watt Compact Fluorescent  
2014NI

Fixture Chandelier

**Dia./Width: 29.0 IN**  
**Body Height: 17.0 IN**

**Available Finishes:**

Brushed Nickel

The Grenoble Collection takes classic form and elevates it to a new standard with universal appeal. The central element of its design is the cone-shaped Brushed Nickel shade. The cone connects to the arms of the middle post, giving the Grenoble Collection a clean profile that is decidedly contemporary without being overly modern. A prime example of the Grenoble's versatile design is this 3-light chandelier. At 29" in diameter, this fixture is perfect above a kitchen table or in just about any room where additional lighting is needed. It uses 100-watt (max.) bulbs for outstanding everyday use.

**Technical Information**

Type	Chandeliers	Extra Lead	104 IN
Style	Contemporary / Modern	Bulb Included	N
Finish Group	Silver	Primary Bulb Count	3
Room	Dining Room, Foyer, Great Room	Primary Max Watt	100W
Body Height	17 IN	Primary Bulb Base	P
Width	29 IN	UL CSA Listed	Y

# COMPACT FLUORESCENT LAMPS

## Energy Saver Twisters

Watts	Inc. Equiv. Watts	Bulb	Base	Product Number	Symbols, Footnotes	Ordering Code	Pkg. Type	Case Qty.	MOL (In.)	Rated Avg. Life (Hrs.) (230)	Approx. Initial Lumens (231)	CRI
ENERGY SAVER TWISTER												
5	25	Twister	Med.	14792-6	\$ T	EL/mdT 5W	Box	6	4	8000	250	82
9	40	Twister	Med.	14793-4	\$ T	EL/mdT 9W	Box	6	4 1/4	8000	550	82
11	40	Twister	Med.	13804-0	\$ □	EL/mdT 11W	Box	6	4 1/8	8,000	675	82
				13991-5	\$ □	BC-EL/mdT 11W	Blister	6	4 1/8	8000	675	82
13	60	Twister	Med.	15638-0	\$ □ †	EL/mdT 13W	Box	6	4 1/4	10,000	900	82
				14786-8	\$ T	EL/mdT 13W 4K	Box	6	4 1/4	10,000	900	82
				14787-6	\$ T	EL/mdT 13W 5K	Box	6	4 1/4	10,000	900	82
				20907-2	\$ □ †	BC-EL/mdT 13W	Blister	6	4 1/4	10,000	900	82
				21929-5	\$ □ †	BC-EL/mdT 13W 3PK	Blister	6	4 1/4	10,000	900	82
18	75	Twister	Med.	20286-1	\$ †	EL/mdT 18W	Box	6	5 1/2	10,000	1250	82
19	75	Twister	Med.	20909-8	\$ □ †	BC-EL/mdT 19W	Blister	6	4 1/4	10,000	1200	82
23	100	Twister	Med.	15697-5	\$ □ †	EL/mdT 23W	Box	6	4 1/4	10,000	1600	82
				20910-6	\$ □ †	BC-EL/mdT 23W	Blister	6	4 1/4	10,000	1600	82
				20587-2	\$ □ †	BC-EL/mdT 23W 3PK	Blister	6	4 1/4	10,000	1600	82
27	100	Twister	Med.	13715-8	\$ □	EL/mdT 27W	Box	6	5 1/8	10,000	1750	82
				14788-4	\$ T	EL/mdT 27W 4K	Box	6	5 1/8	10,000	1850	82
				14789-2	\$ T	EL/mdT 27W 5K	Box	6	5 1/8	10,000	1850	82
32	100	Twister	Med.	15639-8	\$ □ †	EL/mdT 32W	Box	5	5 1/4	10,000	2200	82
42	150	Twister	Med.	13948-5	\$ T	EL/dT42W	Box	6	7 1/8	10,000	2800	82
				13947-7	\$ T	BC-EL/dT 42W	Blister	6	7 1/8	10,000	2800	82
ENERGY SAVER THREE-WAY												
11-23-34	50-100-150	Twister	Med.	21486-6	\$ T †	BC-Helix Twist EL/3W 11-23-34	Blister	6	7	10,000	700-1500-2200	82
				21193-8	\$ T †	Helix Twister EL/3W 11-23-34	Box	6	7	10,000	700-1500-2200	82



For the most current product information, go to the e-catalog on [www.philips.com](http://www.philips.com)  
Compact fluorescent symbols and footnotes located on page 86

