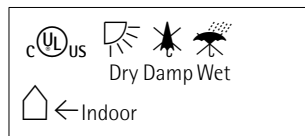
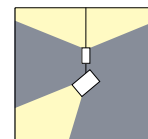
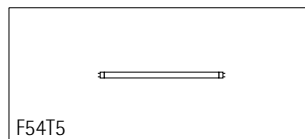
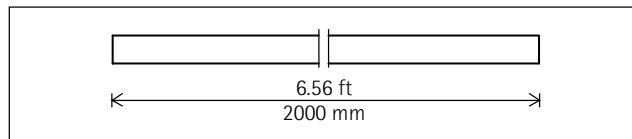
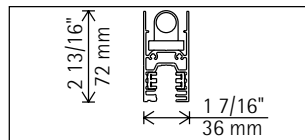


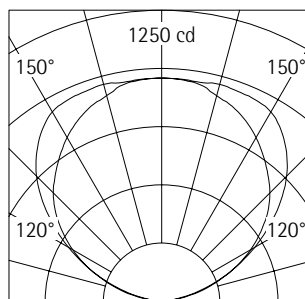
*Lighting Product
Appendix*



13404.023 White
F54T5 54W Min. Bipin 5000lm
ECG

Product description

Panel profile: aluminum, powder-coated.
Upper side: insert for T5 fluorescent lamp.
3-pole terminal block. Concealed electronic control gear 120V, 60Hz. Fluorescent lamp operation with one circuit of the track.
Lower side: 2-circuit track. 4 isolated copper conductors and earth conductor.
ERCO track have been tested and approved for 20A in accordance with UL1598. When connecting the track to a 120V system, a total load of 20A per circuit is possible.
Weighth: 11.02 lbs / 5.00 kg



F54T5 54W Min. Bipin 5000lm

Efficiency: 59%

Connected load of luminaire

F54T5 54W Min. Bipin 5000lm PL: 61 W

Connected load per 100fc

F54T5 54W Min. Bipin 5000lm P*: 0.5 W/ft²

Number of luminaires per 100fc

F54T5 54W Min. Bipin 5000lm n*: 8.2 1/1000 ft²

Correction table

| | | | | | |
|---------|-----|-----|-----|-----|---|
| Ceiling | 0.7 | 0.7 | 0.7 | 0.5 | 0 |
| Wall | 0.7 | 0.5 | 0.2 | 0.2 | 0 |
| Floor | 0.5 | 0.2 | 0.2 | 0.1 | 0 |
| k 0.6 | 53 | 30 | 17 | 12 | 0 |
| k 1.0 | 85 | 53 | 35 | 25 | 0 |
| k 1.5 | 111 | 75 | 56 | 39 | 0 |
| k 2.5 | 140 | 100 | 82 | 57 | 0 |
| k 3.0 | 149 | 108 | 92 | 63 | 0 |

Paint Studio Lamp A

[Return to: Pentron HO](#)

[Print Page](#)



Product Number: 20858
Order Abbreviation: FP54/835/HO
General Description: 54W, T5 PENTRON high output (HO) fluorescent lamp, 3500K color temperature, rare earth phosphor, 82 CRI

| Product Information | |
|------------------------------|-----------------------|
| Abbrev. With Packaging Info. | FP54835HO 40/CS 1/SKU |
| Actual Length (in) | 45.8 |
| Actual Length (mm) | 1163.2 |
| Average Rated Life (hr) | 20000 |
| Base | Miniature Bipin |
| Bulb | T5 |
| Color Rendering Index (CRI) | 82 |
| Color Temperature/CCT (K) | 3500 |
| Diameter (in) | 0.67 |
| Diameter (mm) | 17.0 |
| Family Brand Name | Pentron® |
| Initial Lumens at 25C | 4450 |
| Initial Lumens at 35C | 5000 |
| Mean Lumens at 25C | 4138 |
| Mean Lumens at 35C | 4650 |
| Nominal Length (in) | 48 |
| Nominal Wattage (W) | 54.00 |



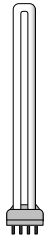
| Additional Product Information |
|---|
| Product Documents, Graphs, and Images |
| Compatible Ballast |
| Packaging Information |



| Footnotes |
|--|
| <ul style="list-style-type: none"> • Approximate initial lumens after 100 hours operation. • The life ratings of fluorescent lamps are based on 3 hr. burning cycles under specified conditions and with ballast meeting ANSI specifications. If burning cycle is increased, there will be a corresponding increase in the average hours life. |

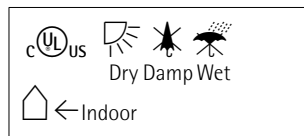
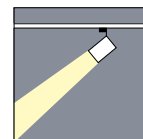
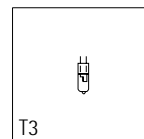
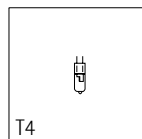
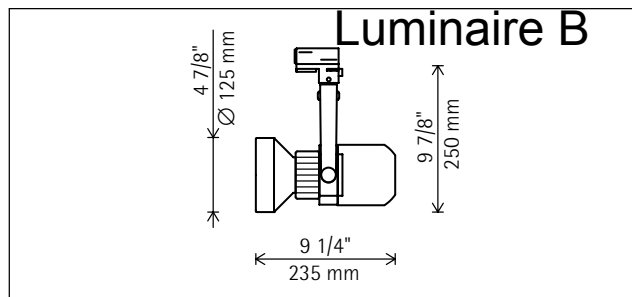
Eco-10 Ballast Models

Paint Studio
Ballast A

| Lamp Type | | | | 120 VOLTS | | 277 VOLTS | |
|--|---------------------|-------------------|-----------|------------------------|---------------------|------------------------|---------------------|
| | Lamp Watts (length) | Lamps per ballast | Case Type | Ballast Current (amps) | Eco-10 Model Number | Ballast Current (amps) | Eco-10 Model Number |
|  5/8" diameter T5 linear | 14W (22") | 1 | C | .17 | E 3 T514 C 120 1 | .08 | E 3 T514 C 277 1 |
| | | 2 | C | .32 | E 3 T514 C 120 2 | .14 | E 3 T514 C 277 2 |
| | 21W (34") | 1 | C | .25 | E 3 T521 C 120 1 | .11 | E 3 T521 C 277 1 |
| | | 2 | C | .43 | E 3 T521 C 120 2 | .19 | E 3 T521 C 277 2 |
| | 28W (45.3") | 1 | C | .30 | ECO-T528-120-1 | .14 | ECO-T528-277-1 |
| | | 2 | C | .55 | ECO-T528-120-2 | .25 | ECO-T528-277-2 |
|  5/8" diameter T5-HO linear high output | 24W (21.5") | 1 | C | .26 | ECO-T524-120-1 | .13 | ECO-T524-277-1 |
| | | 2 | C | .45 | ECO-T524-120-2 | .20 | ECO-T524-277-2 |
| | 39W (33.4") | 1 | C | .38 | ECO-T5H39-120-1 | .17 | ECO-T5H39-277-1 |
| | | 2 | C | .76 | ECO-T5H39-120-2 | .31 | ECO-T5H39-277-2 |
| | 54W (45.3") | 1 | C | .58 | ECO-T554-120-1 | .25 | ECO-T554-277-1 |
| | | 2 | C | 1.1 | ECO-T554-120-2 | .45 | ECO-T554-277-2 |
|  5/8" diameter T5 Twin-Tube | 36/39W (16") | 1 | F | .33 | ECO-T539-120-1 | .14 | ECO-T539-277-1 |
| | | 2 | F | .58 | ECO-T539-120-2 | .25 | ECO-T539-277-2 |
| | | 3 | F | .85 | ECO-T539-120-3 | .35 | ECO-T539-277-3 |
| | 40W (22") | 1 | F | .33 | ECO-T540-120-1 | .14 | ECO-T540-277-1 |
| | | 2 | F | .61 | ECO-T540-120-2 | .25 | ECO-T540-277-2 |
| | | 3 | F | .88 | ECO-T540-120-3 | .38 | ECO-T540-277-3 |
| | 50W (22") | 1 | F | .38 | ECO-T550-120-1 | .17 | ECO-T550-277-1 |
| | | 2 | F | .69 | ECO-T550-120-2 | .32 | ECO-T550-277-2 |



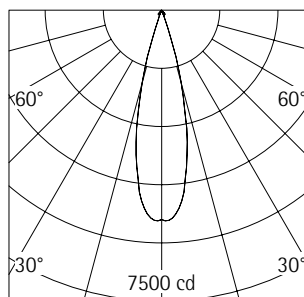
| | | |
|--|---|----------------------|
| Job Name: <input type="text"/> | Model Numbers: <input type="text"/> | |
| Job Number: <input type="text"/> | <input type="text"/> | <input type="text"/> |



75336.023 White
 T4 90W 12V GY6.35 1750lm
 T3 100W 12V GY6.35 2350lm
 Flood reflector

Product description

Housing and bracket: cast aluminum, powder-coated. 0°-90° tiltable. Bracket on turning adapter rotatable through 360°. Transformer housing: plastic. Magnetic transformer 120/12V, 60Hz. Turning adapter for ERCO 2-circuit track: plastic. Light head with bayonet fixing and electrical contacts: cast aluminum, powder-coated. Flood reflector: aluminum, silver, specular anodized. Safety glass. Weighth: 7.28 lbs / 3.30 kg



T4 90W 12V GY6.35 1750lm

| h(ft) | E(fc) | D(ft) |
|-------|-------|-------------|
| 3 | 600 | 26° 1'5" |
| 6 | 150 | 2'9" |
| 9 | 67 | 4'2" |
| 12 | 37 | 5'6" |
| 15 | 24 | 6'11" |



Mounting
 ERCO 2-circuit track
 Hi-trac track
 Monopoll track
 1-circuit singlet

STANDARD AND STARLITE BI-PIN

Low Voltage Halogen Lamps

Paint Studio Lamp B



Two complete lines of BI-PIN halogen lamps to meet the various needs of designers and end users:

STARLITE

- Axial filament
- 4000-hour average rated lamp life
- UV-stop quartz capsule
- Low pressure

STANDARD

- Clear and frosted
- 2000-hour average rated lamp life
- UV-stop quartz capsule

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



SYLVANIA BI-PIN lamps are sturdy and compact in construction and therefore are ideal for stand alone decorative applications and perfect for compact fixtures with integral reflectors.

High performance axial filament STARLITE lamps enable the design of efficient reflector systems that are easy to focus, resulting in better quality light on the target. These long life efficient lamps meet the needs of all residential, commercial and industrial bi-pin applications.

All SYLVANIA BI-PIN lamps are designed with an advanced UV-stop quartz capsule which reduces harmful UV-B and UV-C radiation by more than 90% compared to regular quartz capsules.

Product Availability

| Watts | STARLITE | STANDARD |
|-------|-------------|--------------------|
| 5 | T3 | T3, T3/F |
| 10 | T3, T3 (6V) | T3, T3/F |
| 20 | T3, T4 | T3, T3/F, T3 (24V) |
| 35 | T4 | |
| 50 | T4 | T4, T4/F, T4 (24V) |
| 75 | T4 | T4 |
| 90 | T4 | |
| 100 | | T4 (24V) |

Lamp Comparison

| Item No. | Lamp Type | Watts | Lumens | Av. Rated life |
|----------|-------------------------|-------|--------|----------------|
| 58676 | 50T4Q/CL/AX | 50 | 930 | 4000 |
| | Brand X Q50T4/CL/CD | 50 | 950 | 2000 |
| | Brand Y 50W/12V/Capsule | 50 | 950 | 2000 |
| | Incandescent 60A19/CL | 50 | 4000 | 1000 |

Application Information

| Applications | Application Notes | Fixtures |
|---|--|--|
| Small aperture down lighting Residential, commercial and industrial applications Accent strip lighting Task lighting Display lighting | 1. Lamps must be used in suitably enclosed fixtures per UL requirement 2. Axial filament orientation means light is smoothly distributed by reflector 3. Do not touch lamp with bare hands | Ardee/USA Belfer BK Lighting CSL Lucifer Roberts Tivoli Translite Systems |



Sample Specification

STANDARD

Lamp(s) shall be (a) 12V or 24V BI-PIN halogen lamp(s) with a UV-control quartz capsule and a 2,000-hour average rated life. Lamp(s) shall be frosted or clear with an axial or transverse filament.

STARLITE

Lamp(s) shall be (a) 12V STARLITE halogen lamp(s) with a UV-control quartz capsule and a 4,000-hour average rated life. Lamp(s) shall be clear with an axial filament and gold plated pins.

All Bi-Pin Standard and Starlite lamps must be operated in enclosed fixtures.

Ordering and Specification Information

STARLITE

| Item Number | Ordering Abbreviation | Watts | Volts | Base | Avg. Rated Life | Lumens (lm) | Figure |
|-------------|-----------------------|-------|-------|--------|-----------------|-------------|--------|
| 58690 | 5T3Q/CL | 5 | 12 | G4 | 4000 | 60 | 2 |
| 58691 | 10T3Q/CL/AX | 10 | 12 | G4 | 4000 | 130 | 1 |
| 58692 | 10T3Q/CL/AX/6V | 10 | 6 | G4 | 4000 | 130 | 1 |
| 58694 | 20T3Q/CL/AX | 20 | 12 | G4 | 4000 | 320 | 1 |
| 58663 | 20T4Q/CL/AX | 20 | 12 | GY6.35 | 4000 | 320 | 1 |
| 58672 | 35T4Q/CL/AX | 35 | 12 | GY6.35 | 4000 | 600 | 1 |
| 58676 | 50T4Q/CL/AX | 50 | 12 | GY6.35 | 4000 | 930 | 1 |
| 58680 | 75T4Q/CL/AX | 75 | 12 | GY6.35 | 4000 | 1450 | 1 |
| 58684 | 90T4Q/CL/AX | 90 | 12 | GY6.35 | 4000 | 1800 | 1 |

STANDARD

| Item Number | Ordering Abbreviation | Watts | Volts | Base | Avg. Rated Life | Lumens (lm) | Figure |
|-------------|-----------------------|-------|-------|--------|-----------------|-------------|--------|
| 58652 | 5T3Q/CL | 5 | 12 | G4 | 2000 | 60 | 2 |
| 58650 | 10T3Q/RP | 10 | 12 | G4 | 2000 | 140 | 2 |
| 58658 | 10T3Q/CL | 10 | 12 | G4 | 2000 | 140 | 2 |
| 58655 | 20T3Q/RP | 20 | 12 | G4 | 2000 | 320 | 2 |
| 58661 | 20T3Q/CL | 20 | 12 | G4 | 2000 | 320 | 2 |
| 58660 | 50T4Q/RP | 50 | 12 | GY6.35 | 2000 | 930 | 2 |
| 58675 | 50T4Q/CL | 50 | 12 | GY6.35 | 2000 | 930 | 2 |
| 58665 | 75T4Q/CL/RP | 75 | 12 | GY6.35 | 2000 | 1200 | 2 |

24V

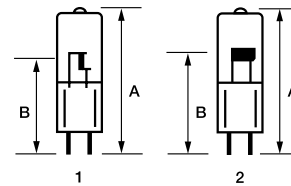
| Item Number | Ordering Abbreviation | Watts | Volts | Base | Avg. Rated Life | Lumens (lm) | Figure |
|-------------|-----------------------|-------|-------|--------|-----------------|-------------|--------|
| 58662 | 20T3Q/CL/24V | 20 | 24 | G4 | 1000 | 350 | 2 |
| 58678 | 50T4Q/CL/AX/24V | 50 | 24 | GY6.35 | 2000 | 850 | 1 |
| 58686 | 100T4Q/CL/AX24V | 100 | 24 | GY6.35 | 2000 | 2200 | 1 |

FROSTED

| Item Number | Ordering Abbreviation | Watts | Volts | Base | Avg. Rated Life | Lumens (lm) | Figure |
|-------------|-----------------------|-------|-------|--------|-----------------|-------------|--------|
| 58651 | 5T3Q/F | 5 | 12 | G4 | 2000 | 55 | 2 |
| 58656 | 10T3Q/F | 10 | 12 | G4 | 2000 | 130 | 2 |
| 58695 | 20T3Q/F | 20 | 12 | G4 | 2000 | 300 | 2 |
| 58698 | 50T4Q/F | 50 | 12 | GY6.35 | 2000 | 830 | 2 |

Dimensions

| | (A) MOL | (B) LCL |
|-----------------------------|------------|------------|
| Standard (2) 5W-20W | 31mm | 22mm |
| Standard (2) 50W-75W | 44mm | 30mm |
| Standard (1) 50W/100W (24V) | 44mm | 30mm |
| Starlite (2) 5W | 31mm | 22mm |
| Starlite (1) 10W-20W | 31mm | 22mm |
| Starlite (1) 35W-90W | 44mm | 30mm |



Ordering Guide

| 50 | T4 | Q | / | CL | / | AX | / | 24V |
|---------|--------------------|--------------|---|-------------|---|--------------------|---|-----------|
| Wattage | Tubular Lamp | Quartz Glass | | Finish | | AX= Axial Filament | | Voltage |
| | 3= Diameter (3/8") | | | CL = Clear | | ___ = Transverse | | ___ = 12V |
| | 4= Diameter (4/8") | | | F = Frosted | | | | 24V |
| | | | | | | | | 6V |

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

Industrial & Commercial

Phone: 1-800-255-5042
Fax: 1-800-255-5043

National Accounts

Phone: 1-800-562-4671
Fax: 1-800-562-4674

Special Markets

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

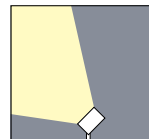
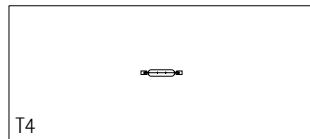
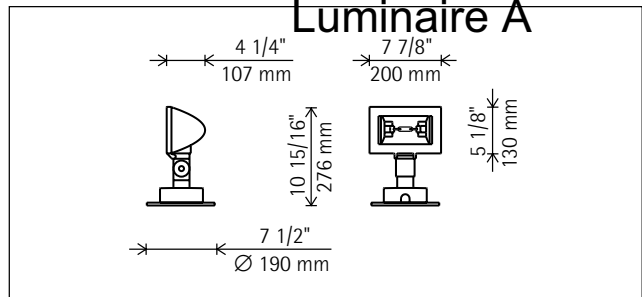
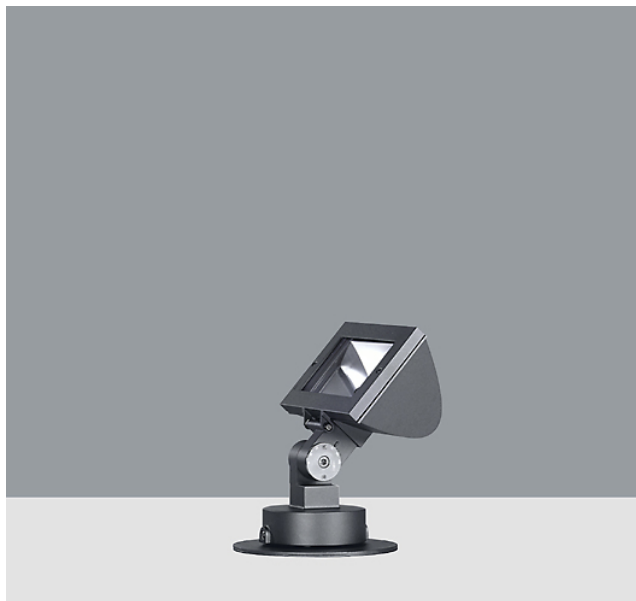
In Canada
OSRAM SYLVANIA LTD.
Headquarters
2001 Drew Road
Mississauga, ON L5S 1S4

Industrial & Commercial

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

Special Markets

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

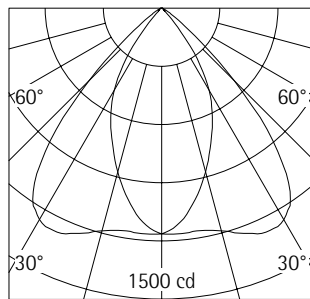


34100.023 Graphit m
T4 150W 120V RSC 2800lm

Product description

Housing and hinge: corrosion-resistant, cast aluminum, No-rinse surface treatment. Double powder-coated. Optimized surface for reduced accumulation of dirt. Flood reflector with focal emphasis in beam direction: Aluminum, silver, specular anodized. Side reflectors to increase the visual comfort along the lamp axis, specular anodized. Graduated disc: stainless steel. Luminaire rotatable through 240°. Mounting plate: corrosion-resistant aluminum.

2 cable entries. Through-wiring possible. 3-pole terminal block. Flood reflector with focal emphasis in beam direction: Aluminum, silver, specular anodized. Side reflectors to increase the visual comfort along the lamp axis, specular anodized. Screw-mounted cover with safety glass: corrosion-resistant cast aluminum, double powder-coated. Hinge open for lamp replacement. Suitable for wet location (IP65): dust-proof and water jet-proof. Weight: 5.95 lbs / 2.70 kg. Surface exposed to the wind 1.40 ft² / 0,13 m²



T4 150W 120V RSC 2800lm

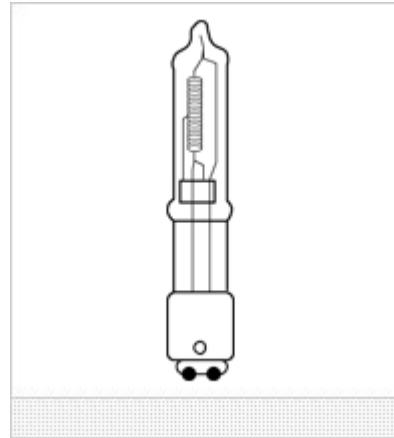
| h(ft) | E(fc) | D(ft) | |
|-------|-------|--------|--------|
| | | C0 | C90 |
| 3 | 129 | 2'12" | 5'10" |
| 6 | 32 | 5'12" | 11'7" |
| 9 | 14 | 8'12" | 17'5" |
| 12 | 8 | 11'12" | 23'2" |
| 15 | 5 | 14'11" | 28'12" |

Dance Studio Lamp A

PHILIPS

Halogen Single-Ended Lamps

| | |
|------------------------------------|----------------|
| \ | |
| Watts | 150 |
| Bulb | T-4 |
| Base | D.C. Bay |
| Product Number | 046677-29850-5 |
| Ordering Code | 150Q/DC ETF |
| Volts | 120 |
| Package Quantity | 12 |
| Description | Frost |
| Class and Filament | C, CC-8 |
| M.O.L. (in.) | 2.5 |
| L.C.L. (in.) | 1.38 |
| Rated Avg. Life | 2000 |
| Lumens | 2700 |
| Approximate Color Temp. (K) | 2700 |



Images

+ [Line Art](#)

Literature

+ [MSDS S23-99001](#)

Other Information

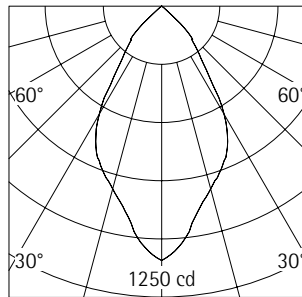
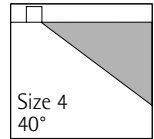
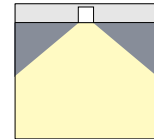
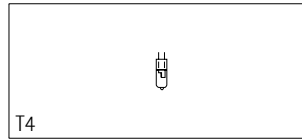
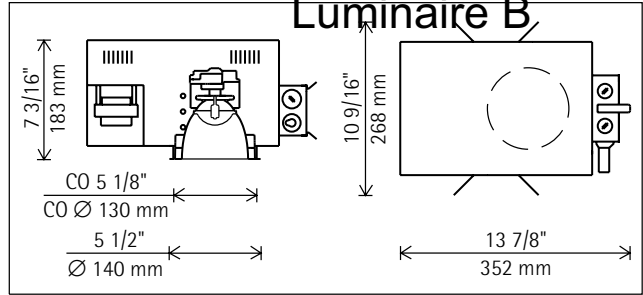
+ [Printable Page](#)
 + [Send this Link](#)
 + [Bookmark this Page](#)

Footnotes

+ Do not touch bulb with bare hands. Fingerprints may result in reduced performance unless they are removed with alcohol. Socket condition may affect lamp life. Inspect and replace socket if deterioration has occurred.

Information for this product last modified on September 23 2004.

©2004-2005 Koninklijke Philips Electronics N.V. All rights reserved. [Privacy policy](#)
 Philips. Access to and use of this Web Site is subject to these [Terms of use](#).



22417.023
 Reflector color Silver
 T4 75W 12V GY6.35 1450lm

Product description
 Lampholder carrier: cast aluminum, black powder-coated, designed as heat sink.
 Mounting ring: plastic, white (RAL9002), with fixing springs.
 Mounting box for preinstallation with junction box for through-wiring, black powder-coated.
 Magnetic transformer 120/12V, 60Hz inside mounting box. Snap-in plug for connection between transformer and downlight.
 Low brightness reflector: aluminum, specular anodized. Cut-off angle 40° from horizontal.
 Diffuser as lamp cover: glass, frosted.
 Type Non IC luminaire.
 Insulation materials must be kept away from the luminaire by a minimum of 3". Thermally protected luminaire. Suitable for damp location. Removal of luminaire allows access to transformer and junction box from below.
 Max. ceiling thickness 3/4".
 Weight: 9.59 lbs / 4.35 kg

T4 75W 12V GY6.35 1450lm Efficiency: 66%

| h(ft) | E(fc) | D(ft) |
|-------|-------|-------------|
| 3 | 121 | 59° 3'5" |
| 6 | 30 | 6'9" |
| 9 | 13 | 10'2" |
| 12 | 8 | 13'7" |
| 15 | 5 | 16'12" |

Connected load of luminaire
 T4 75W 12V GY6.35 1450lm PL: 86 W

Connected load per 100fc
 T4 75W 12V GY6.35 1450lm P*: 1.1 W/ft²

Number of luminaires per 100fc
 T4 75W 12V GY6.35 1450lm n*: 12.5 1/1000 ft²

| Illuminances (fc) for module (ft) | 4x6 | 6x6 | 6x8 | 8x8 |
|-----------------------------------|-----|-----|-----|-----|
| T4 75W 12V GY6.35 1450lm | 33 | 22 | 17 | 13 |

Correction table

| | | | | | |
|---------|-----|-----|-----|-----|----|
| Ceiling | 0.7 | 0.7 | 0.7 | 0.5 | 0 |
| Wall | 0.7 | 0.5 | 0.2 | 0.2 | 0 |
| Floor | 0.5 | 0.2 | 0.2 | 0.1 | 0 |
| k 0.6 | 87 | 69 | 62 | 62 | 59 |
| k 1.0 | 104 | 83 | 76 | 75 | 72 |
| k 1.5 | 118 | 93 | 88 | 85 | 82 |
| k 2.5 | 128 | 100 | 96 | 91 | 88 |
| k 3.0 | 131 | 102 | 99 | 94 | 90 |

Dance Studio Lamp B

PHILIPS

Halogen Low Voltage Capsule Lamps

| | |
|------------------------------------|---|
| \ | |
| Feature | All lamps contain UV Block and are Low pressure |
| Watts | 75 |
| Bulb | T-4 |
| Base | GY6.35 |
| Product Number | 046677-13441-1 |
| Ordering Code | BC75WT4/12V Capsule |
| Volts | 12 |
| Package Quantity | 12 |
| Description | Blister Card |
| Class and Filament | C,C-8 |
| M.O.L. (in.) | 1 3/4 |
| L.C.L. (in.) | 1 3/16 |
| Rated Avg. Life | 2000 |
| Lumens | 1100 |
| Approximate Color Temp. (K) | 2800 |



Images

+ [Product Photo](#)

Other Information

+ [Printable Page](#)
 + [Send this Link](#)
 + [Bookmark this Page](#)

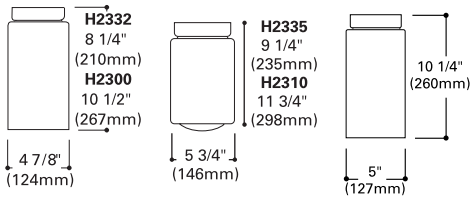
Footnotes

+ Do not touch bulb with bare hands. Fingerprints may result in reduced performance unless they are removed with alcohol. Socket condition may affect lamp life. Inspect and replace socket if deterioration has occurred.

Information for this product last modified on February 09 2005.

©2004-2005 Koninklijke Philips Electronics N.V. All rights reserved. [Privacy policy](#)
[Philips](#). Access to and use of this Web Site is subject to these [Terms of use](#).

Dance Studio Luminaire C



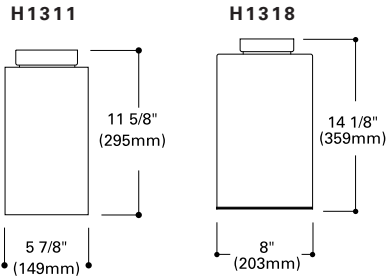
CEILING MOUNT

H2310 R40 Open Downlight
H2335 R40 Open Downlight
Finish: White (P), Bronze (BZ)
Lamp: 150W BR40

H2300 R30 Open Downlight
H2332 R30 Open Downlight
Finish: White (P), Bronze (BZ)
Lamp: 75W R30

H1310 R30 Downlight with Baffle
Finish: White (P), Bronze (BZ)
Lamp: 75W R30

Notes: UL Damp Location Listed

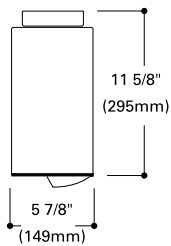


CEILING MOUNT

H1311 R40 Downlight with Baffle
H1318 R40 Downlight with Baffle

Finish: White (P), Bronze (BZ)
Lamp: 300W BR40

Notes: UL Damp Location Listed

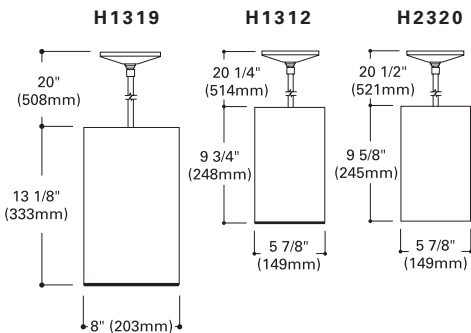


CEILING MOUNT WALL WASHER

H1317 R40 Baffle Downlight/Wall Washer

Finish: White (P), Bronze (BZ)
Lamp: 150W BR40

Notes: UL Damp Location Listed



PENDANT MOUNT - 15° Swivel

H1319 Baffle Downlight
Finish: White (P), Bronze (BZ)
Lamp: 300W R40

H1312 Baffle Downlight
Finish: White (P), Bronze (BZ)
Lamp: 150W BR40, 150W PAR38

H2320 Open Downlight
Finish: White (P), Bronze (BZ)
Lamp: 150W BR40, 150W PAR38

Notes: UL Damp Location Listed



FEATURES

OPTICAL SYSTEM

- Microgroove matte black baffle with white painted flange or specular, semi-diffuse or highly specular cone with flange that matches cone finish. White painted flange optional.

HOUSING

- Heavy gauge, rolled and welded aluminum housing with no visible seam. Matte white textured polyester powder paint finish standard.

MOUNTING

- Standard ceiling mount provided with mounting pattern for direct installation to 4" octagonal junction box.
- Optional wall mount provided with mounting pattern for direct installation to 4" x 2-1/8" non-gangable junction box.
- Optional pendant mounting entry provided for 1/4" National Pipe Thread stem. Mounting accessories available, (see options).

ELECTRICAL SYSTEM

- Heavy duty medium base porcelain socket with nickel plated screw shell.
- Heat dissipating, extruded aluminum socket housing.

LISTINGS

- Fixtures are UL listed for damp locations. Listed and labeled to comply with Canadian Standards.

Type

Catalog number

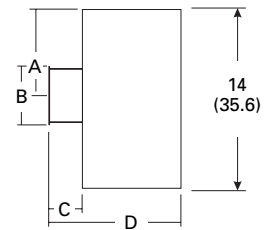
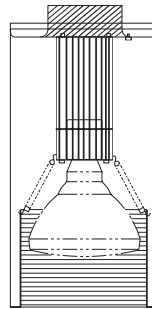
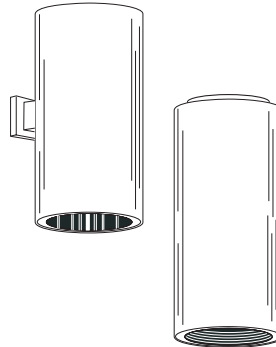
Dance Studio
Luminaire D

Incandescent Surface Downlights

7" CC

Cylinders

R/PAR20, R30, R40, PAR38 Lamp



A = 4-1/4 (10.8)
B = 5-1/8 (13.0)
C = 3-1/4 (8.3)
D = 9-7/8 (25.1)
Wall Mount Dimensions

Aperture: 5-1/2 (14.0)
Housing Diameter: 6-5/8 (16.6)
Housing Height: 15-1/4 (38.7)

All dimensions are inches (centimeters).

ORDERING INFORMATION

Example: **CC7AACDWHG**

Choose the boldface catalog nomenclature that best suits your needs and write it on the appropriate line.

| Series | Color/trim type | Finish | Options |
|--------------------------------|--|--------------------|---|
| CC7 Ceiling mount | AC Clear | (blank) Specular | TRW White painted flange. |
| CW7 Wall mount | BLC Black | LD Semi-diffuse | CRS ³ 3/8" stem and canopy with 45° swivel. |
| CP7 ¹ Pendant mount | CC Champagne gold | LS Highly specular | CYS ³ 3/8" stem and canopy with 5° "hang straight" swivel. |
| | GC Gold | | Architectural Colors (powder finish) ⁴ |
| | PC Pewter | | Standard Colors |
| | WTC Wheat | | DWHG Matte white (standard) |
| | UBC Umber | | DDB Dark bronze |
| | MB ² Microgroove matte black baffle | | DBL Black |
| | | | DWH Gloss white |
| | | | Classic Colors |
| | | | DMB Medium bronze |
| | | | DNA Natural aluminum |
| | | | DSS Sandstone |
| | | | DGC Charcoal gray |
| | | | DTG Tennis green |
| | | | DBR Bright red |
| | | | DSB Steel blue |
| | | | Previous Gotham Colors |
| | | | DB Dark bronze (previous standard) |
| | | | DM Medium bronze (metallic) |
| | | | SA Satin aluminum |

NOTES:

- 1 Hole provided for 3/8" stem. Stem not included
- 2 Not available with finish options.
- 3 Pendant mount units. Length of stem must be specified (from 6" to 48" in 6" increments). Ceiling attachment for interior use. Consult factory for exterior use. Stem and cylinder color will match when ordered as option. Stem will be black if ordered as separate line item.
- 4 Additional architectural colors available; please see brochure 794.3.

Dance Studio Lamp C/D

PHILIPS**MasterLine® PAR-38 Halogen Lamps**

| | |
|--|---------------------------|
| Watts | 90 |
| Bulb | PAR-38 Standard Reflector |
| Base | Med. Skt. |
| Product Number | 046677-38927-0 |
| Ordering Code | 90PAR38/HAL/SP12/LL |
| Volts | 120 |
| Package Quantity | 6 |
| Description | Spot 12 Deg. |
| Class and Filament | C, CC-8 |
| M.O.L. (in.) | 5 5/16 |
| Rated Avg. Life | 2500 |
| Lumens | 1280 |
| Approximate Color Temp. (K) | 2900 |
| Approximate Beam Spread (Degrees) | 12 |

**Images**

- + [Family Photo](#)
- + [Product Logo](#)
- + [Product Photo](#)

Literature

- + [Family Brochure](#)
- + [Photometric Data](#)

Other Information

- Energy Saving Product
- Meets US Federal Minimum Efficiency Standard
- + [Printable Page](#)
- + [Send this Link](#)
- + [Bookmark this Page](#)

Footnotes

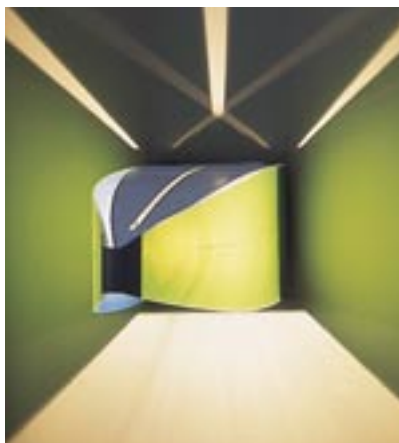
- + To avoid deterioration of lampholder by heat, use only heat resistant lampholders or fixtures listed by a nationally recognized electrical testing organization for use with reflector or PAR lamps.
- + [Click here to read the PAR Halogen Caution Notice](#)

Information for this product last modified on January 29 2003.

©2004-2005 Koninklijke Philips Electronics N.V. All rights reserved. [Privacy policy Philips](#). Access to and use of this Web Site is subject to these [Terms of use](#).

Chromax™

- Playful, colorful scone for one medium screw-base lamp
- Build-it-yourself kit includes lenses in three colors (cyan, magenta, and yellow) plus clear to mix and match
- Light distribution can be directed either up or down (illumination remains white)



A multi-window wall fixture, with many color choices. Only the color of the fixture changes with the filters. (Shown with downlight open).

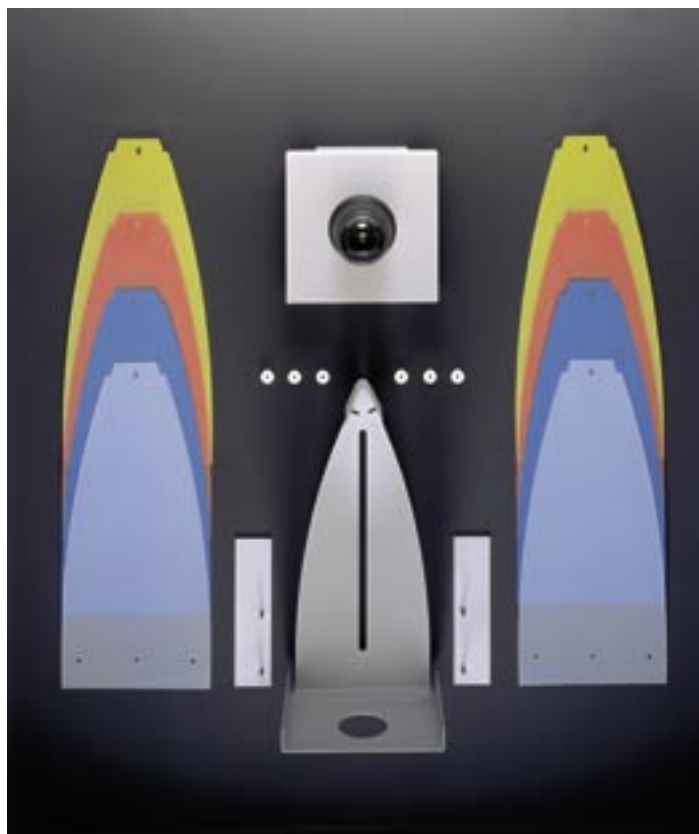


Chromax is supplied with one translucent and three colored filters per side. The color results vary with the different colors used, the number of filters used, and the order

Chromax™



The outside filters determine the color of the fixture when the light is turned off. When illuminated, the colors mix, and layer order can provide subtle variations.



The Chromax filters can be superimposed with up to eight layers, allowing countless color variations. The filters are made from chlorine-free polypropylene.

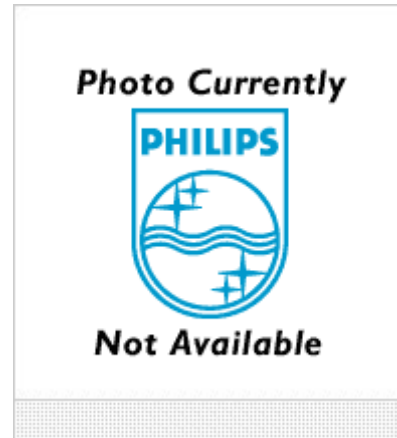
Filter size is A4 format, making it easy for anyone with a color printer to create transparencies. This is a simple, inexpensive and straightforward way to incorporate graphics, such as logos, signs, names, numbers, etc.

Dance Studio Lamp E

PHILIPS

Incandescent Lamps

| | |
|-----------------------------|----------------------|
| Watts | 100 |
| Bulb | A-19 |
| Base | Med. |
| Product Number | 046677-16864-1 |
| Ordering Code | 100A/WL |
| Volts | 120 |
| Package Quantity | 480 |
| Description | Soft White,Long Life |
| Class and Filament | C, CC-8 |
| M.O.L. (in.) | 4 7/16 |
| Rated Avg. Life Hrs. | 1500 |
| Lumens | 1550 |



Other Information

- Meets US Federal Minimum Efficiency Standard
- + [Printable Page](#)
- + [Send this Link](#)
- + [Bookmark this Page](#)

Footnotes

- + Aluminum Base

Information for this product last modified on September 22 2004.

©2004-2005 Koninklijke Philips Electronics N.V. All rights reserved. [Privacy policy](#)
[Philips](#). Access to and use of this Web Site is subject to these [Terms of use](#).

FEATURES

- Available in tandem-wired lengths.
- Heavy-duty channel, die-formed from code-gauge steel.
- Sturdy channel cover secured by captive quarter-turn latch for easy access to wireway.
- High-gloss, baked white enamel finish.
- Endplate and channel connector furnished with each fixture.
- For unit or row installations, surface or suspended mounting.
- Guaranteed for one year against mechanical defects in manufacture.

SPECIFICATIONS

BALLAST — Thermally protected, resetting, Class P, HPF, non-PCB, UL listed, CSA-certified ballast is standard. Rapid start ballasts are sound rated A. Standard combinations are CBM approved and conform to UL 935.

WIRING & ELECTRICAL — Fixture conforms to UL 1570 and is suitable for damp locations. AWM, TFN or THHN wire used throughout, rated for required temperatures.

MATERIALS — Housing formed from cold-rolled steel. No asbestos is used in this product.

FINISH — Five-stage iron-phosphate pretreatment ensures superior paint adhesion and rust resistance. Painted parts finished with high-gloss, baked white enamel.

LISTING — UL listed and labeled. CSA certified (see options). NOM labeled (see options).

Specifications subject to change without notice.

ENERGY

- Luminaire Efficiency Rating (LER)

One lamp minimum LER.FS = 52.

Based on 34W T12, 2650 lumen lamp and energy-saving magnetic ballast factor = .87 and input watts = 42.

Calculated in accordance with NEMA standard LE-5. See LER sheet for details.

Type

Catalog number

.....

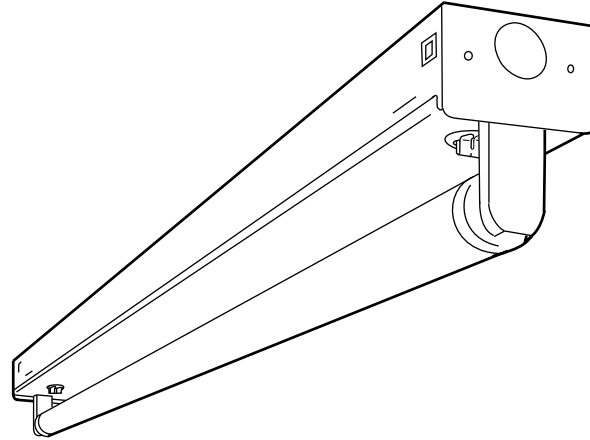
.....

.....

Lobby Solution **Standard Strip**
Luminaire A **S**

Rapid Start

1-1/2', 2', 3' or 4' length
1 lamp



PHOTOMETRICS

Calculated using the zonal cavity method in accordance with IESNA LM41 procedure. Floor reflectances are 20%. Lamp configurations shown are typical. Full photometric data on these and other configurations available upon request.

S 1 40

Report ITL 18240

S/MH (along) 1.2 (across) 1.6

Coefficient of Utilization

| Ceiling | 80% | | | 70% | | | 50% | | |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 70% | 50% | 30% | 70% | 50% | 30% | 50% | 30% | 10% |
| 1 | 94 | 89 | 84 | 89 | 84 | 80 | 76 | 72 | 69 |
| 2 | 84 | 75 | 68 | 80 | 72 | 65 | 64 | 59 | 54 |
| 3 | 76 | 65 | 57 | 72 | 62 | 54 | 56 | 49 | 44 |
| 4 | 70 | 57 | 48 | 65 | 54 | 46 | 49 | 42 | 37 |
| 5 | 63 | 50 | 41 | 59 | 48 | 39 | 43 | 36 | 30 |
| 10 | 42 | 29 | 21 | 39 | 28 | 20 | 25 | 19 | 14 |

Zonal Lumens Summary

| Zone | Lumens | %Lamp | %Fixture |
|--------|--------|-------|----------|
| 0-30 | 388 | 12.1 | 12.8 |
| 0-40 | 663 | 20.7 | 21.9 |
| 0-60 | 1332 | 41.6 | 44.0 |
| 0-90 | 2245 | 70.2 | 74.2 |
| 90-180 | 782 | 24.4 | 25.8 |
| 0-180 | 3027 | 94.6 | 100.0 |

S 1 32

Report LTL 5725

S/MH (along) 1.2 (across) 1.6

Coefficient of Utilization

| Ceiling | 80% | | | 70% | | | 50% | | |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 70% | 50% | 30% | 70% | 50% | 30% | 50% | 30% | 10% |
| 1 | 97 | 91 | 86 | 92 | 87 | 82 | 79 | 75 | 72 |
| 2 | 87 | 77 | 70 | 82 | 74 | 67 | 67 | 61 | 56 |
| 3 | 78 | 67 | 58 | 74 | 64 | 56 | 58 | 52 | 46 |
| 4 | 71 | 59 | 50 | 67 | 56 | 48 | 51 | 44 | 38 |
| 5 | 65 | 51 | 42 | 61 | 49 | 41 | 45 | 37 | 32 |
| 10 | 43 | 30 | 22 | 41 | 28 | 21 | 26 | 20 | 15 |

Zonal Lumens Summary

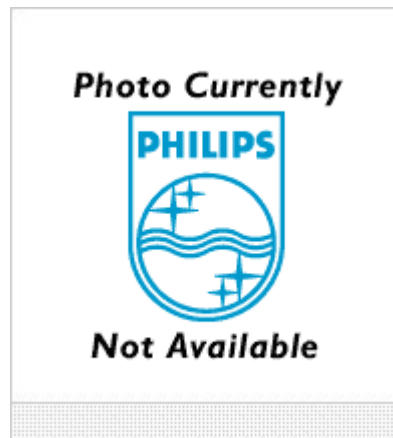
| Zone | Lumens | %Lamp | %Fixture |
|--------|--------|-------|----------|
| 0-30 | 388 | 13.4 | 13.9 |
| 0-40 | 660 | 22.8 | 23.7 |
| 0-60 | 1307 | 45.1 | 46.9 |
| 0-90 | 2176 | 75.0 | 78.1 |
| 90-180 | 609 | 21.0 | 21.9 |
| 0-180 | 2786 | 96.1 | 100.0 |

Lobby Solution A/B-Lamp A
Lobby Solution A-Lamp D



Advantage Rapid Start Ultimate Performance Fluorescent Lamps

| | |
|-----------------------------------|---|
| Feature | T8 Medium Bipin Featuring Hi-Vision Phosphor |
| Watts | 32 |
| Bulb | T8 |
| Base | Med. Bipin |
| Product Number | 046677-13989-9 |
| Ordering Code | F32T8/ADV841/ALTO |
| Package Quantity | 25 |
| Description | Advantage 841 |
| CRI | 85 |
| Rated Avg. Life (Hrs.) | 20,000 |
| Design Lumens | 2950 |
| Nominal Length | 48 |
| Approximate Initial Lumens | 3100 |



Other Information

- Energy Saving Product
- Meets US Federal Minimum Efficiency Standard
- + [Printable Page](#)
- + [Send this Link](#)
- + [Bookmark this Page](#)

Information for this product last modified on January 14 2005.

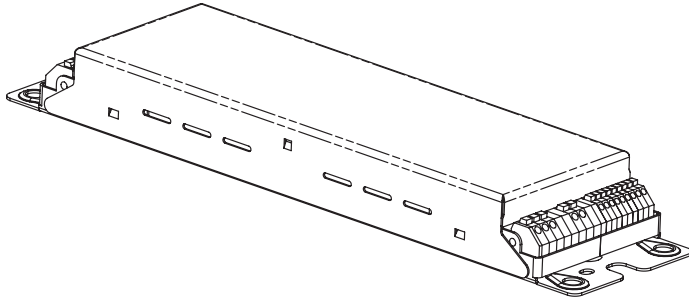
©2004-2005 Koninklijke Philips Electronics N.V. All rights reserved. [Privacy policy Philips](#). Access to and use of this Web Site is subject to these [Terms of use](#).

Digital Control Electronic Dimming Ballast

Lobby Ballast Solution A/B- Luminaire A

Lobby Ballast Solution A-Luminaire D

Digital management electronic dimming ballasts are designed to maximize the benefits of a lighting management system. They offer 100% to 10% dimming, and are ideal for use in any space where saving energy or flexibility is the primary goal of the design.



Features

- Continuous, flicker-free dimming from 100% to 10%
- Provides power for and responds to one occupancy sensor, one photo sensor, and one personal control input (infrared receiver or wallstation)
- Models available for T8 lamps
- Programmed rapid start design preheats lamp cathodes before applying full arc voltage
- Lamps turn on to any dimmed level without flashing to full brightness
- Communicates status and sensor inputs over the EcoSystem Bus
- Low harmonic distortion throughout the entire dimming range
- Frequency of operation ensures that ballast does not interfere with infrared devices operating between 38 and 42 kHz
- Inrush current limiting circuitry eliminates circuit breaker tripping, switch arcing, and relay failure
- End-of-lamp-life protection circuitry ensures safe operation throughout entire lamp life cycle
- Ultra-quiet operation
- Non-volatile (EEPROM) memory stores specific system information for 10 years from power down to power restored
- Proprietary method of EEPROM management that assures the reliability of the memory for the warranted life of the product
- 100% performance tested at factory
- Supports standard DALI protocol when no sensors are connected to the ballast

Job Name:

Model Numbers:

Job Number:

Specifications**Lobby Ballast Solution A/B- Luminaire A****Lobby Ballast Solution A-Luminaire A**

- UL Listed (evaluated to the requirements of UL935)
- Class P thermally protected
- Meets ANSI C82.11 High Frequency Ballast Standard
- Meets FCC Part 18 Non-Consumer requirements for EMI/RFI emissions
- Meets ANSI C62.41 Category A surge protection standards up to and including 4kV
- Manufacturing facilities employ ESD reduction practices that comply with the requirements of ANSI/ESD S20.20
- Lutron Quality Systems registered to ISO 9001.2000

Power

- Operating Voltage: 277V~ 60 Hz
- Grounding: Fixture must be properly grounded for proper dimming
- Lamps: One, two, or three T8, 32W lamps
- Lamp Starting: Programmed rapid start
- Dimming Range: 100% to 10% measured relative light output
- Lamp Current Crest Factor: less than 1.7
- No visible lamp flicker
- Light Output Variation: Constant $\pm 2\%$ light output for line voltage variations of $\pm 10\%$
- Lamp Life: Average lamp life meets or exceeds lamp manufacturer ratings
- Ballast Factor: 0.85 or greater
- Power Factor: 0.95 or greater
- Total Harmonic Distortion (THD): Less than or equal to 20%
- Typical High End Power: 34W (for one lamp) or 65W (for two lamp) or 95W (for three lamp)
- Maximum Inrush Current: 3 Amps per ballast at 277V

- Minimum Lamp Starting Temperature: 50°F (10°C)
- Ambient Temperature Operating Range: 50-140°F (10-60°C)
- Relative humidity: less than 90% non-condensing
- Sound Rating: Inaudible in a 27dB ambient
- Maximum Ballast Case Temperature: 75°C (167°F) (measured at calibration point)

Ballast Wiring

- Ballast is grounded by the mounting screws to the fixture
- Terminal blocks on the ballast accept the following wire gauges:
Power Wiring, EcoSystem Bus: #18 - #16 AWG (1.02 - 1.29 mm) Solid
Class 2 Sensor Wires: #22 AWG (0.635 mm) Solid

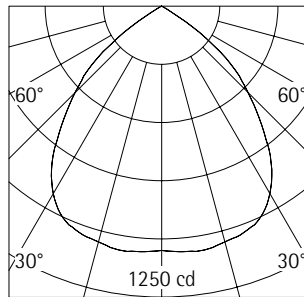
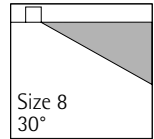
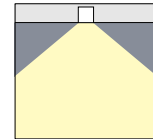
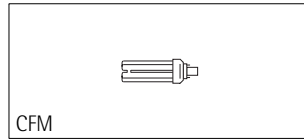
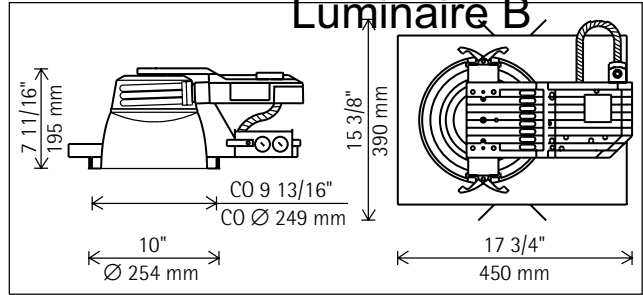
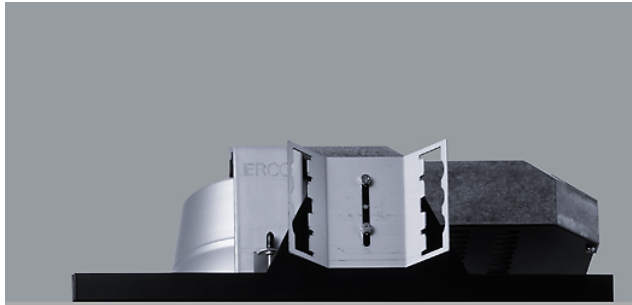
Mounting

- Mounts using two screws within a fluorescent fixture.

Job Name:

Model Numbers:

Job Number:



22226.023

Reflector color Silver
CFM 42W GX24q-4 3200lm
ECG

Product description

Housing: cast aluminum, designed as heat sink.

Mounting ring: cast aluminum, white (RAL9002) powder-coated. 4-point support and screw tightening for fixing to mounting plate.

Electronic control gear 120V/277V, 60Hz, class P inside cast housing.

Mounting plate for preinstallation with junction box for through-wiring, black powder-coated. Snap-in plug for connection between junction box and luminaire.

Low brightness reflector: aluminum, specular anodized. Cut-off angle 30° from horizontal.

Diffuser as lamp cover: plastic, translucent, for lamp replacement removable without tools.

Type Non IC luminaire.

Insulation materials must be kept away from the luminaire by a minimum of 3". Suitable for damp location. Removal of reflector allows access to junction box from below.

Max. ceiling thickness 3/4".

Weight: 8.38 lbs / 3.80 kg

CFM 42W GX24q-4 3200lm

Efficiency: 61%

Lobby Solution A/B Lamp B



PL-T Triple 4-Pin Fluorescent Lamp

| | |
|----------------------------|--|
| Feature | High color rendering, high efficacy lamps feature 4-pin base for use with preheat, rapid start, electronic and dimming circuits. Featuring ALTO ® Lamp Technology |
| Watts | 42 |
| Bulb | PL-T |
| Base | GX24q-4 |
| Product Number | 046677-26876-3 |
| Ordering Code | PL-T 42W/841/4P/ALTO |
| Generic Designation | CFTR42W/GX24q/841 |
| Package Quantity | 12 |
| Description | 4100K |
| CRI | 82 |
| Avg. Hrs. Life | 10,000 |
| Design Lumens | 2720 |
| M.O.L. | 6 3/8 |
| Lumens | 3200 |



Images

- + [ALTO Product Logo](#)
- + [Family Photo](#)
- + [Product Photo](#)

Literature

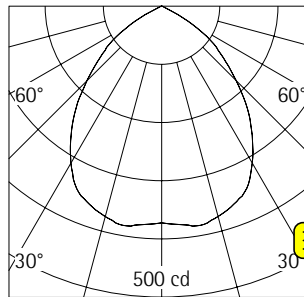
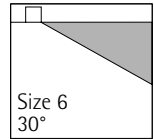
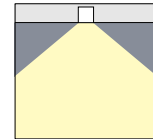
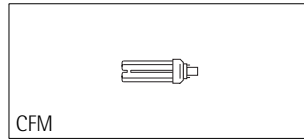
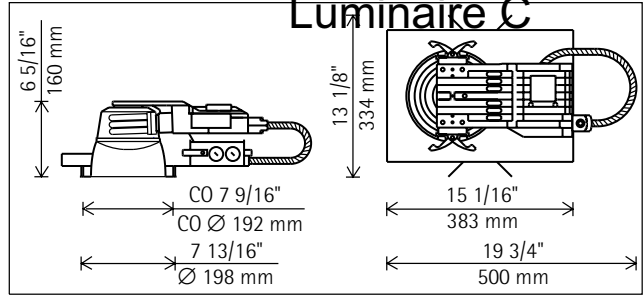
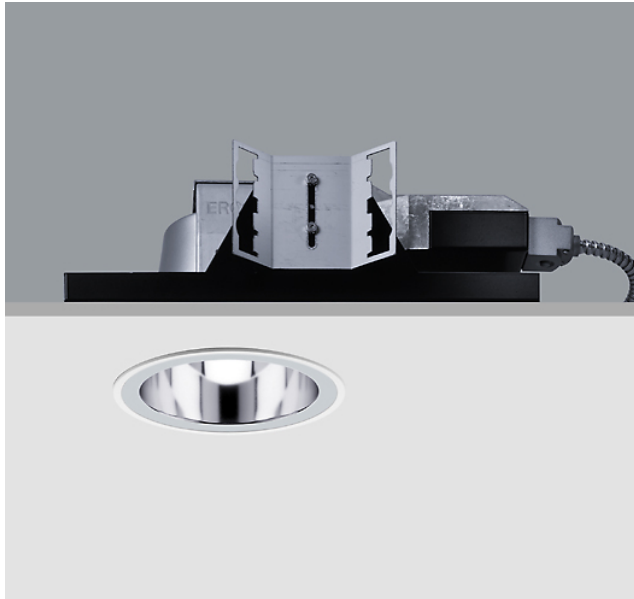
- + [ALTO Family Brochure](#)
- + [MSDS S08-98001](#)

Other Information

- Energy Saving Product
- + [Printable Page](#)
- + [View Compatible Ballasts](#)
- + [Send this Link](#)
- + [Bookmark this Page](#)

Footnotes

- + This Product Contains Amalgam
- + High Color Rendering Lamp
- + Features **ALTO**® Lamp Technology
- + Rated average life under specified test conditions with Programmed Start ballasts with lamps turned off and restarted no more frequently than once every 3 operating hours. Lamp life is appreciably longer if lamps are started less frequently.



CFM 18W GX24q-2 1200lm

Efficiency: 59%

22221.023

Reflector color Silver
CFM 18W GX24q-2 1200lm
ECG

Product description

Housing: cast aluminum, designed as heat sink.

Mounting ring: cast aluminum, white (RAL9002) powder-coated. 4-point support and screw tightening for fixing to mounting plate.

Electronic control gear 120V/277V, 60Hz, class P inside cast housing. Mounting plate for preinstallation with junction box for through-wiring, black powder-coated. Snap-in plug for connection between junction box and luminaire.

Low brightness reflector: aluminum, specular anodized. Cut-off angle 30° from horizontal.

Diffuser as lamp cover: plastic, translucent, for lamp replacement removable without tools.

Type Non IC luminaire.

Insulation materials must be kept away from the luminaire by a minimum of 3". Suitable for damp location. Removal of reflector allows access to junction box from below.

Max. ceiling thickness 3/4".

Weighth: 6.61 lbs / 3.00 kg

Lobby Solution A/B Lamp C



PL-T Triple 4-Pin Fluorescent Lamp

| | |
|----------------------------|---|
| Feature | High color rendering, high efficacy lamps feature 4-pin base for use with preheat, rapid start, electronic and dimming circuits. Featuring ALTO [®] Lamp Technology |
| Watts | 18 |
| Bulb | PL-T |
| Base | GX24q-2 |
| Product Number | 046677-26822-7 |
| Ordering Code | PL-T 18W/841/4P/ALTO |
| Generic Designation | CFTR18W/GX24q/841 |
| Package Quantity | 12 |
| Description | 4100K |
| CRI | 82 |
| Avg. Hrs. Life | 10,000 |
| Design Lumens | 1020 |
| M.O.L. | 4 5/8 |
| Lumens | 1200 |



Images

- + [ALTO Product Logo](#)
- + [Family Photo](#)
- + [Product Photo](#)

Literature

- + [ALTO Family Brochure](#)
- + [MSDS S08-98001](#)

Other Information

- Energy Saving Product
- + [Printable Page](#)
- + [View Compatible Ballasts](#)
- + [Send this Link](#)
- + [Bookmark this Page](#)



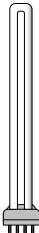
Footnotes

- + This Product Contains Amalgam
- + High Color Rendering Lamp
- + Features **ALTO**[®] Lamp Technology
- + Rated average life under specified test conditions with Programmed Start ballasts with lamps turned off and restarted no more frequently than once every 3 operating hours. Lamp life is appreciably longer if lamps are started less frequently.

Lobby Solution A/B
Ballast- Luminaire B/C

Compact SE-3 03.08.04

Compact SE Ballast Models

| Lamp Type | | | | 120 VOLTS | | 277 VOLTS | | |
|--|--|-------------------|-----------|------------------------|--------------------------------------|------------------------|--------------------------------------|------------------|
| | Lamp Watts | Lamps per ballast | Case Type | Ballast Current (amps) | Compact SE Model Number ¹ | Ballast Current (amps) | Compact SE Model Number ¹ | |
| T4 4-Pin Quad-Tube  1/2" diameter | 18W | 1 | A | .20 | FDB-T418-120-1-S | .08 | FDB-T418-277-1-S | |
| | | 2 | B | .42 | FDB-T418-120-2-S | .17 | FDB-T418-277-2-S | |
| | 26W | 1 | A | .26 | FDB-T426-120-1-S | .12 | FDB-T426-277-1-S | |
| | | 2 | B | .50 | FDB-T426-120-2-S | .21 | FDB-T426-277-2-S | |
| | T4 4-Pin Triple-Tube  1/2" diameter | 18W | 1 | A | .20 | FDB-T418-120-1-S | .08 | FDB-T418-277-1-S |
| | | | 2 | B | .42 | FDB-T418-120-2-S | .17 | FDB-T418-277-2-S |
| 26W | | 1 | A | .26 | FDB-T426-120-1-S | .12 | FDB-T426-277-1-S | |
| | | 2 | B | .50 | FDB-T426-120-2-S | .21 | FDB-T426-277-2-S | |
| 32W | 1 | A | .31 | FDB-T432-120-1-S | .13 | FDB-T432-277-1-S | | |
| | 2 | B | .59 | FDB-T432-120-2-S | .24 | FDB-T432-277-2-S | | |
| 42W | 1 | B | .36 | FDB-T442-120-1-S | .16 | FDB-T442-277-1-S | | |
| | 2 | B | .67 | FDB-T442-120-2-S | .29 | FDB-T442-277-2-S | | |
| T5 Twin-Tube  5/8" diameter | 36/39W (16") | 1 | F | .33 | FDB-1643-120-1 | .14 | FDB-1643-277-1 | |
| | | 2 | F | .58 | FDB-1643-120-2 | .25 | FDB-1643-277-2 | |
| | | 3 | F | .85 | FDB-1643-120-3 | .35 | FDB-1643-277-3 | |
| | 40W (22") | 1 | F | .33 | FDB-2227-120-1 | .14 | FDB-2227-277-1 | |
| | | 2 | F | .61 | FDB-2227-120-2 | .25 | FDB-2227-277-2 | |
| | | 3 | F | .88 | FDB-2227-120-3 | .38 | FDB-2227-277-3 | |
| | 50W (22") | 1 | F | .38 | FDB-2243-120-1 | .17 | FDB-2243-277-1 | |
| | | 2 | F | .69 | FDB-2243-120-2 | .32 | FDB-2243-277-2 | |



¹ Mounting studs standard for T4 ballasts. Delete suffix -S in the model number if mounting studs not needed.

| | | |
|--|---|----------------------|
| Job Name: <input type="text"/> | Model Numbers: <input type="text"/> | |
| Job Number: <input type="text"/> | <input type="text"/> | <input type="text"/> |

FEATURES & SPECIFICATIONS

INTENDED USE

High performance deep-cell parabolic luminaires for superior light control, visual comfort, and light cut-off in open area applications. Especially recommended for applications needing multi-level switching.

ATTRIBUTES

Choice of low iridescent diffuse or specular louver finishes. Also available with Achroma™ non-iridescent louver finish. Models available to meet IES RP-1 minimum luminance criteria for office lighting systems in VDT applications. Optimax products are available to meet preferred criteria. Over-under two-lamp models provide uniform louver illumination in dual-level switching applications.

CONSTRUCTION

Black reveal provides floating louver appearance, conceals optional air-supply slots. Optional heat-removal dampers and air-pattern control blades allow airflow control.

Overlapping flange and modular ceiling trims factory-installed with standard swing-gate hangers or field convertible with optional trim and hangers. T-hinges die-formed for maximum strength. Latches spring-loaded, concealed in reveal.

Integral T-bar safety clips hold T-bar securely — no fasteners required to install.

Housing formed from cold-rolled steel. Louvers formed from anodized aluminum. No asbestos is used in this product.

FINISH

Five-stage iron-phosphate pretreatment ensures superior paint adhesion and rust resistance. Painted parts finished with high-gloss, baked white enamel.

ELECTRICAL SYSTEM

Thermally-protected, resetting, Class P, HPF, non-PCB, UL Listed, CSA certified ballast is standard. Energy saving and electronic ballasts are sound rated A.

Luminaire is suitable for damp locations. AWM, TFN or THHN wire used throughout, rated for required temperatures.

LISTING

UL Listed (standard). CSA Certified or NOM Certified (see Options).

WARRANTY

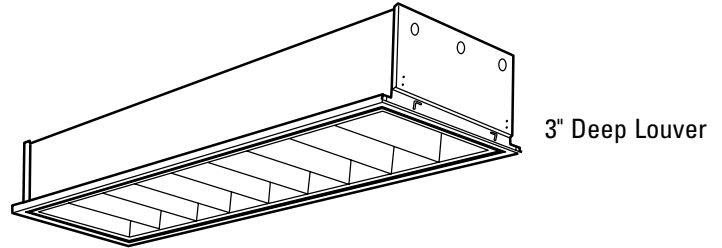
Guaranteed for one year against mechanical defects in manufacture.

Specifications subject to change without notice.

| | |
|----------------|---|
| Catalog Number | Lobby Solution A Luminaire D |
| Notes | |

PARAMAX® High-Performance Parabolic Troffer

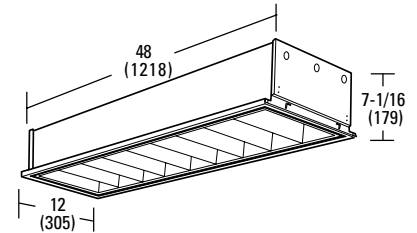
HPM3 1'x4'



3" Deep Louver

Specifications

- Length: 48 (1218)
- Width: 12 (305)
- Depth: 7-1/16 (179)
- Weight: 18 lbs (8.2kg)



All dimensions are inches (millimeters).

ORDERING INFORMATION

Example: **HPM3 G B 2 32 9LD 120 GEB**

| HPM3 | | | | | | | | | | |
|---|---|---|---|---|--|--|--|--|--|--|
| Series | Air function | Lamp type | Louver finish | Options | | | | | | |
| HPM3 High Performance Paramax 3" deep cell parabolic, 1' wide Trim type G Grid F Overlapping flanged MT Modular fit-in ST Screw slot | A Air supply/return (slots in side trim) H Heat removal (through lamp cavity, dampers available) D Combination A & H B Static (no air function, matching appearance) | 32 32W T8 (48") 40 40W T12 (48") Number of cells 6, 8, 9 Number of lamps 1, 2 Not included. | LD Low iridescent anodized diffuse silver ND Achroma™ non-iridescent diffuse silver LS Low iridescent anodized specular silver C Diffuse gold anodized (champagne) Voltage 120, 277, 347, MVOLT¹ Others available. | GEB Electronic ballasts, ≤20% THD GEB10IS Electronic ballast, ≤10% THD, Instant Start GEB10RS Electronic ballast, ≤10% THD, Rapid Start EL Emergency battery pack (nominal 300 lumens; see Fluorescent Battery Packs tab) GLR Internal fast-blow fuse GMF Internal slow-blow fuse LST Tandem fixture pairs (shared ballasts) PWS1836 6' prewire, 3/8" dia., 18-gauge, 3 wires LP__ Lamped, specify lamp type and color ACS Air-closure strips (A & D models only) HRD Heat-removal dampers APB Air-pattern control blades (A & D models only) CRE Flanged trim for continuous row mounting (end) CRM Flanged trim for continuous row mounting (middle) SSR Specular silver interior finish (95% reflective) PAF Painted after fabrication (white enamel) CSA CSA Certified NOM NOM Certified | | | | | | |

NOTE:
1 MVOLT available with GEB10IS only.

T100 STANDARD LUMEN TRANSFORMER SYSTEM COLD CATHODE LAMP COLOR INFORMATION

FUNCTIONAL COLOR LAMP DATA

Gas: Argon w/Mercury Amalgam (blue color) T-8 25mm

| COLOR | KELVIN | LUMEN/FT. (1) |
|-----------------------------|---------|---------------|
| Warm White | 3000 | 305 |
| Soft White (2) | 3500 | 320 |
| Cool White | 4500 | 328 |
| Snow White (Daylight) | 6500 | 498 |
| Tri-Phosphor Incandescent | 2800T28 | 371 |
| Tri-Phosphor Warm White (2) | 3000T30 | 386 |
| Tri-Phosphor Soft White | 3500TC | 374 |
| Tri-Phosphor Ice White | 5000TC | 364 |
| Tri-Phosphor Daylight | 6500TC | 369 |

- 1) Lumen Data provided by ITL for all white lamps.
- 2) Most popular colors specified for functional lighting installations.

DECORATIVE COLORS LAMP DATA (1) (2)

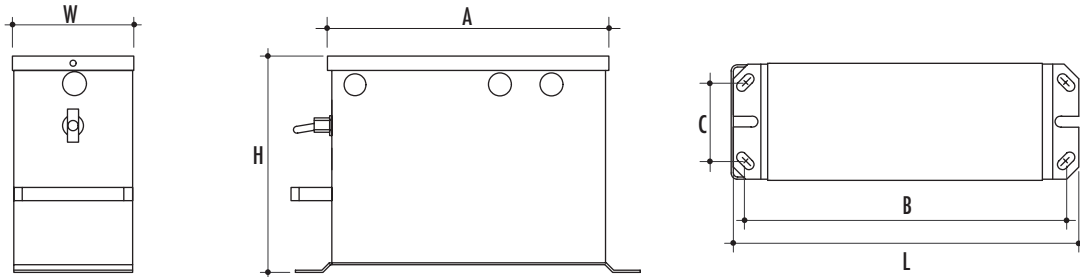
Gas: Argon w/Mercury Amalgam (blue color) T-8 25mm

| COLOR | LUMEN/FT. (3) |
|-------------------------|---------------|
| Violet | 236 |
| Powder Blue | 307 |
| Sparkling Blue (deeper) | 257 |
| Turquoise | 364 |
| Aquamarine | 272 |
| Green | 358 |
| Gold | 187 |
| Pineapple | 151 |
| Orange | 141 |

- 1) Decorative colors may require special orders. Consult factory for availability.
- 2) Additional colors available upon request.
- 3) Estimates based on lumen data provided by phosphor manufacturers.



T100 STANDARD LUMEN TRANSFORMER SYSTEM -- UL2161 SGI TRANSFORMERS



T100 STANDARD LUMEN TRANSFORMER SYSTEM TECHNICAL SHEETS 2.20

High Power Factor 120Volts* Primary - 60Hertz

| Secondary Volt-MA | Primary Volt-Amps | Approximate Watt Input | L | W | H | A | B | C | Ship Wt. LBS. |
|-------------------|-------------------|------------------------|---------|--------|--------|---------|---------|----|---------------|
| 5000 - 120 | 600 | 237 | 13 3/8" | 4 5/8" | 8 1/2" | 10 7/8" | 12 1/4" | 3" | 29 |
| 6000 - 120 | 720 | 290 | 13 3/8" | 4 5/8" | 8 1/2" | 10 7/8" | 12 1/4" | 3" | 30 |
| 7500 - 120 | 900 | 352 | 17 1/2" | 4 5/8" | 8" | 15 1/8" | 16 3/8" | 3" | 42 |
| 9000 - 120 | 1080 | 416 | 17 1/2" | 4 5/8" | 8" | 15 1/8" | 16 3/8" | 3" | 45 |

Normal Power Factor 277Volts* Primary - 60Hertz

| Secondary Volt-MA | Primary Volt-Amps | Approximate Watt Input | L | W | H | A | B | C | Ship Wt. LBS. |
|-------------------|-------------------|------------------------|---------|--------|--------|---------|----------|----|---------------|
| 5000 - 120 | 600 | 256 | 13 3/8" | 4 5/8" | 8 1/2" | 10 7/8" | 12 1/4" | 3" | 29 |
| 6000 - 120 | 720 | 274 | 13 3/8" | 4 5/8" | 8 1/2" | 10 7/8" | 12 1/4" | 3" | 30 |
| 7500 - 120 | 900 | 375 | 17 1/2" | 4 5/8" | 8" | 15 1/8" | 16 13/8" | 3" | 42 |
| 9000 - 120 | 1080 | 423 | 17 1/2" | 4 5/8" | 8" | 15 1/8" | 16 13/8" | 3" | 45 |

Transformer Installation Information

Transformers shall be located as close to lamps as possible in order to keep the secondary cable in conduit as short as possible. Long secondary cable in metallic conduit act like a capacitor inducing higher voltage resulting in corona discharge that can lead to overloading, transformer causing premature failure, shortened lamp life, and audible noise. Transformers shall be installed in an accessible ventalated location that shall not exceed 100 degrees fahrenheit ambient temperature. For more information refer to Transformer Specification.

Luminous Tube Footage Chart

| Secondary Volt-MA | Blue Gas (non dimming) | Blue Gas (dimming) |
|-------------------|------------------------|--------------------|
| 5000 - 120 | 46' | 36' |
| 7500 - 120 | 70' | 56' |
| 9000 - 120 | 92' | 73' |

© 2004 Architectural Cathode Lighting, Inc. No. 4

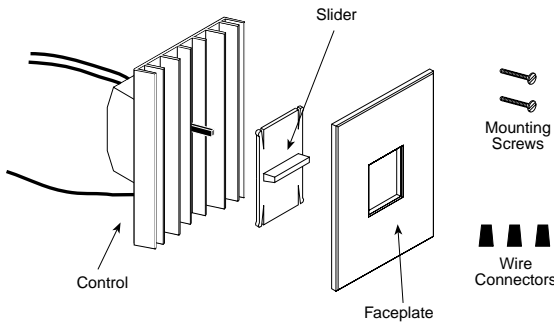


T 323.581.8800
F 323.581.7971
E aclinc@cathodelighting.com
W www.cathodelighting.com

Table Of Contents

| | |
|---|---|
| Package Contents | 1 |
| Important Notes | 1 |
| Single Unit Installation | 1 |
| Multigang Installation- No side Sections Removed | 2 |
| Multigang Installation- Side Section Removed | 3 |
| Installation Assistance | 4 |

Package Contents:



Important Notes

Please Read Before Installation

Lamp Type: Use this product with incandescent and quartz lamps *only*--120VAC, 60Hz. Do *not* connect to low-voltage lamps or any appliance.

Caution: To avoid overheating and possible damage to other equipment, do not install to control receptacles, fluorescent lighting fixtures, motor-operated appliances, or transformer supplied appliances.

Short Circuit Check: Check new installation for short circuits prior to installation of dimmer by using a single pole switch and connecting the appropriate terminals to the hot wire and the lamp with power OFF. Turn power on. If lights do not work, or breaker trips, a short is present. Correct the wiring and check circuit again. Install dimmer only when short is no longer present.

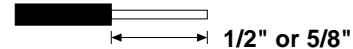
Wire Connectors: Wire connectors provided can be used to join one 10-, 12-, 14-, 16-, or 18-gauge wire with one or two 12- or 14-gauge wires. Use them with copper wire *only*.

Switchbox and Location: A single-gang switchbox (3" high x 2" wide x 2 1/2" deep) will service all individual Nova dimmers. These dimmers are designed to operate in ambient temperatures from 0°C to 40°C (32°F to 104°F). Allow a minimum space of 4 1/2" above and below the dimmers for proper heat dissipation.

Multigang Installations: A multigang faceplate is available to simplify and improve the appearance of your installation. A multigang mounting frame is provided with each standard multigang faceplate to ensure proper alignment of the dimmers, easy application of the faceplate, and a flat surface for the installation. Refer to instruction sheet supplied with multigang faceplates.

Single Unit Installation

1. Turn power OFF at fusebox or circuit breaker. Wiring with power on can result in personal injury. Damage to product caused by wiring with power on voids warranty.
2. Remove faceplate from dimmer to prevent damage and to access mounting holes. Pull out at top and bottom edges, plate will snap off.
3. Strip insulation from dimmer wires and from wires to which dimmer is to be connected as follows:
 - 1/2" for 10, 12, and 14 gauge wire
 - 5/8" for 16 and 18 gauge wire



- Using the wire connectors provided, connect the green or bare ground wire on the dimmer (if present) to the green or bare copper ground wire in the wallbox. **Note:** If a green or bare copper ground wire is not in the wallbox, contact a licensed electrician.
- Connect the 2 dimmer leads to the 2 wallbox leads (see Figure A). The hot wire may be connected to either of the dimmer wires. Be sure copper conductor is not exposed.

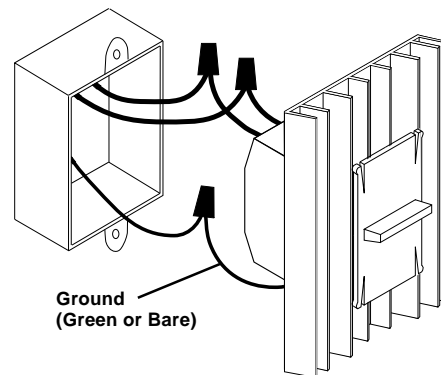
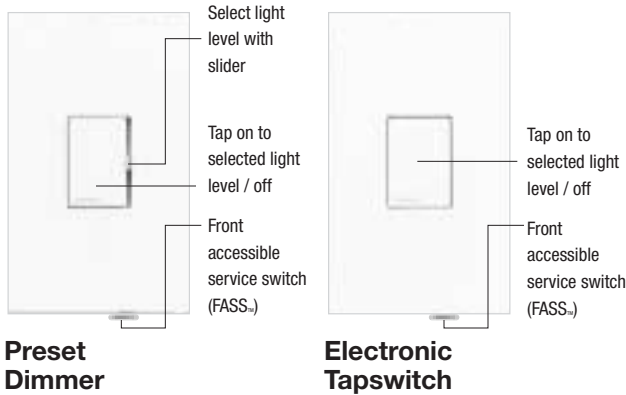


Figure A. Switchbox Wiring

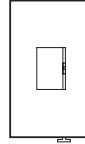
4. Push wires into switchbox, allowing room for dimmer backbox to be inserted.

The elegant thin-profile TapSwitch™ dimmer.

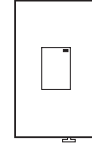
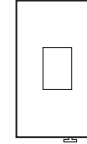


CONTROLS AND ACCESSORIES

Preset Dimmers

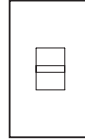


Electronic Tapswitches

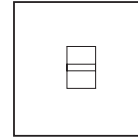


(with status light)

Fan-Speed Controls

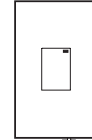
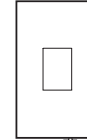


(Small Control)



(Large Control)

Auxiliary Tapswitches

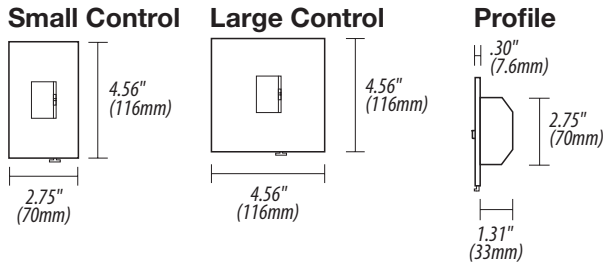


(with status light)

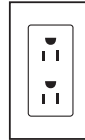
PRODUCT FAMILY FEATURES

- Sophisticated thin-profile styling featuring a large tapswitch and discrete linear slider
- Perfect solution for high-end applications
- Elegant appearance and operation
- Enclosed heat sink for an aesthetically pleasing appearance
- Multigang alignment for quick and easy installation
- Full line of matching devices and accessories
- Simple selection – all dimmers operate as single pole or 3-way

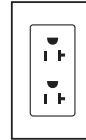
DIMENSIONS



Receptacles



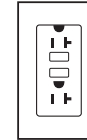
15A Receptacles



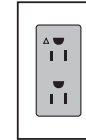
20A



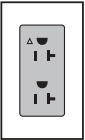
15A GFCI Receptacles



20A

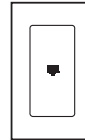


15A

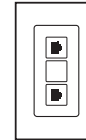


20A Isolated Ground Receptacles

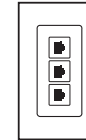
Telephone/Cable TV Jacks



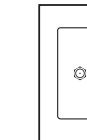
Single Telephone Jack



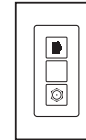
Double



Triple

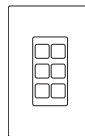


Cable TV Jack



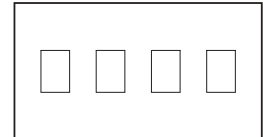
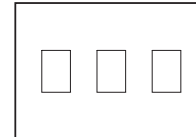
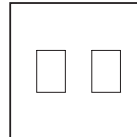
Telephone/Cable TV Jack

Ports

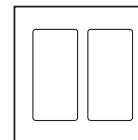
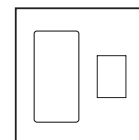
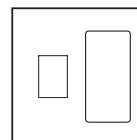


6-Port Frame

Custom Multigang Wallplates



2-gang, 3-gang and 4-gang for dimmers/switches



2-gang for a dimmer or switch and a receptacle or jack

SPECIFICATION SERIES STANDARD FEATURES

UL SF NOM

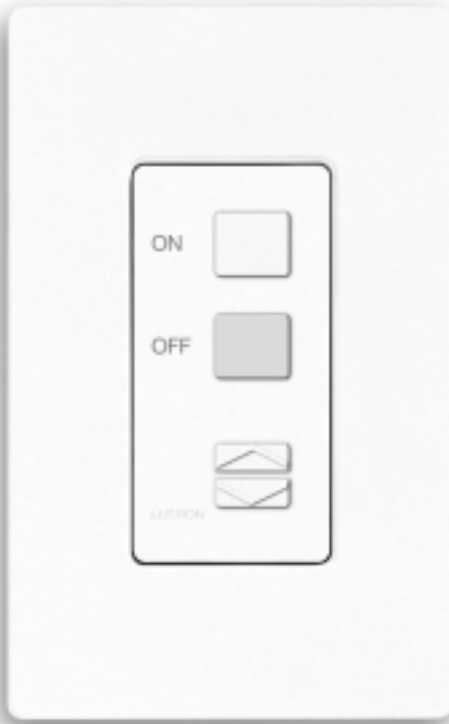
- Square Law Dimming
- Power-failure memory
- Captive tapswitch and linear slider
- Front accessible service switch (FASS-)
- Heavy-duty components for surge protection and long product life
- Voltage compensation
- Superior RFI suppression
- Precise color matching
- Electrostatic discharge tested

Lutron controls are rated at 120VAC, 60Hz unless otherwise noted.

| | |
|----------|-----------------|
| JOB NAME | AREA CONTROLLED |
| LOCATION | JOB NUMBER |
| TITLE | PAGE NO. |

RadioTouch Large Button Wallbox Transmitter

Paint Studio
Fluorescent Control



DESCRIPTION

The Large Button Wallbox Transmitter is designed to work in conjunction with RadioTouch lighting Controllers. The Transmitter provides on/off and raise/lower functionality. The Transmitter does not require that any wires be connected from the Transmitter to the RadioTouch Controllers. The Transmitter can be used to control one or more RadioTouch lighting zones.

The Transmitter can also be used for multi-location dimming applications. Each Transmitter has a unique address and can be assigned to any RadioTouch Controller in the room that is within 35 feet of the Transmitter's location. The Transmitter can be easily configured for multi-gang installations without any need to de-rate the power capacity of the lighting zone being controlled.

| | |
|--|------------------------------|
| <p>JOB NAME:</p> <p>JOB NUMBER:</p> | <p>MODEL NUMBERS:</p> |
|--|------------------------------|