

CS SERIES

Specialty cold storage fluorescent High-Bay

The CS is a custom fixture that can be modified to meet varied operating temperature requirements within your facility; these ranging from refrigerated coolers to subzero freezers. Applications include refrigerated warehouses, cold storage, freezers, food warehouses and unheated warehousing.

Heat Dissipation

In each application, the fixture housing and reflector are customized allowing for the manipulation of heat for: build-up or dissipation. This unique customized design, provides conditions conducive to maximum lumen output for each given application temperature.

Mounting Methods

CS fixtures offer flexible mounting methods that most commonly include: standard chain hangers and surface mounting. There are several other mounting options for this fixture series, and they are listed as "hanging options" below.

Hanging Options

- Surface Mount [Mounting holes provided in the housing] (Standard)
- Chain Mount [Chain hangers are supplied with the fixture] (Standard)
- Quick Cable [QC Quick hang cable system]
 (Optional)
- Junction Box [JB Slide-on splice box for 3/4" stem] (Optional)
- Pendant Stabilizer [PS Bracket for stabilizing fixture when single point hanging with a 3/4" stem] (Optional)
- Quick Bracket System [QB Innovative hanging system for easy installation. Available with various connection points] (Optional)
- Hook [SPSH 12" Stem, pendant stabilizer & hook for hanging in loop or eye-bolt] (Optional)
- Quick Toggle [SPST 12" Stem, pendant stabilizer & quick toggle hanger for hanging in an eye-bolt]
 (Optional)

Product Construction

The CS fixture housing is brake formed from heavy gauge cold rolled steel. Ends and socket plates are permanently riveted together for strength and rigidity. The housing is post painted with a durable, highly reflective powder-coat finish.

Optical Reflector

The system is precision brake formed of the selected aluminum material, enhanced aluminum or highly reflective white. The one piece reflector is removable without the use of tools, using 1/4 turn fasteners to secure it in place.

Lampholders

Made of a Polycarbonate material; these locking-style lampholders are utilized to ensure positive lamp retention. Additionally, the material contributes to a longer life product in high temperature applications.

Lens

Standard lens is a high efficiency, high dispersion 23 pattern clear acylic. Optional lenses are available, see ordering information.

Ballasts

All ballasts are electronic programmed-start (T5HO) or instant-start (T8) as a standard. Optional ballasts are available, consult factory for available systems and system specifications. Available voltages: 120v, 277v, 347v, voltage sensing 120-277v and 347-480v.

Lamps

Philips Optimum recommends the use of Amalgam Tip or Arctic lamps, which tolerate a much broader range of ambient temperature extremes with minimal impact on lumen output, in reduced temperature environments.

Listings

All fixtures are UL and CUL listed.



Please specify when ordering

| Fixture Series | Temperature | Lens | # of Lamps | Lamp Type | Voltage | # Ballasts | Ballast Type | Reflector | Hanging | Options | Lamp Color | Lamp Options |
|----------------|-------------|------|------------|-----------|---------|------------|--------------|-----------|---------|---------|------------|--------------|
| CS | | | | | | | | | | | | |

Fixture ordering guide

| Fixture Series* | Temperature | Lens | # of Lamps | Lamp Type | Voltage | # Ballasts | Ballast Type | Reflector | Hanging | Options | Lamp Color | Lamp Options*4 |
|-----------------|-------------|------|------------|-----------|---------|------------|--------------|-----------|---------|---------|------------|----------------|
| CS14 | Specify*3 | DI2 | 3 | 32 | 12 | T | HI | Е | BLANK | C() | BLANK | HP |
| CS18 | | D125 | 4 | 54 | 27 | 2 | LI | \vee | JB | 6TI | 830 | A*5 |
| CS19 | | D23 | 5 | | 34 | 3 | SI | В | PS | 6T2 | 835 | TG*6 |
| CS21 | | DLI | 6 | | UV | 4 | SI+ | | QB() | E() | 841 | SS*6 |
| CS14T*2 | | DL2 | | | HV | 5 | PS | | QBH() | F | 850 | ES() |
| CS18T*2 | | CALI | | | | | PSL | | QBT() | GSK | | XL |
| CS19T*2 | | | | | | | PSH | | QC | NV | | |
| | | | | | | | PD | | QC() | OS () | | |
| | | | | | | | SDH | | SPSH | SC | | |
| | | | | | | | | | SPST | WG | | |
| | | | | | | | | | | 20G | | |
| | | | | | | | | | | SDT | | |
| | | | | | | | | | | PC | | |

- *I 14" wide fixture reccomended for sub-zero applications (3-5 lamps), 18" wide for su-zero applications (6 lamps). 19" wide body for open fixture and 21" wide body for lensed fixture selection (non sub zero)

- *2 CST is an 8ft tandem fixture, # of lamps are for the profile of the fixture.

 *3 Specify temperature at which fixture will be installed

 *4 Consult factory for manufacturing specific ordering codes/availability.

 *5 Philips Optimum reccomends the use of amalgam tipped lamps in extreme temperature applications.

 *6 Use in lensed fixtures is limited. Contact factory for specifi application details.

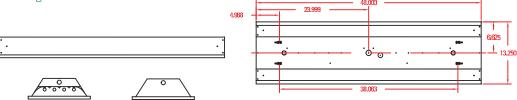
Available fixture selections

| Lens Selections | Ballast Selections | Reflector Selections | Options Selections | Lamp Color Selections | |
|---|---|---|--|---|--|
| D12 Standard Prismatic D125 0.125" Prismatic D23 23 Pattern High Dispersion, High Efficiency DL1 0.118" Clear Lexan | HI High Ballast Factor (HBF) Electronic* LI Low Ballast Factor (LBF) Electronic* SI Standard Ballast Factor (NBF) Electronic* SI+ I.0BF Electronic* | E Enhanced Aluminum W Highly Reflective White Aluminum B 95% Reflective Extreme White Aluminum Hanging Selections | C() Single Circuit Cord (Specify Length) 6T1 6' Cord with L5-15 Locking End 6T2 6' Cord with L7-15 Locking End | BLANK Lamps Not Included 830 80+ CRI, 3000K 835 80+ CRI, 3500K 841 80+ CRI, 4100K 850 80+ CRI, 5000K | |
| DL2 0.220" Clear Lexan CALI 0.118" Clear Acrylic | PS Programmed Start (NBF) | Blank V-Chain Hangers JB Slide-On Junction Box | E() Emergency Pack (# Lumens) F Inline Fuse | Lamp Options Selections HP High Performance, | |
| Lamp Type Selections 32 F32T8 System 54 F54T5HO System | PSL Programmed Start LBF* PSH Programmed Start HBF* PD Programmed Start Dimming | PS Pendant Stabilizer QB Q Bracket (24", 30" or 36") QBH Quick Bracket with | GSK Gasket Door Frame & Housing NV No Venting in Housing OS() Occupancy Sensor | Long Life Lamps* A Amalgam Tip Lamps** TG Tubeguarded Lamps | |
| Voltage Selections 12 | SDH Step Dimming HBF (100% to 60% Dimming)* * T8 Only | Hook (24", 30" or 36") QBT Quick Bracket for Threaded Rod (24", 30" or 36") QC Quick Hang Cable (10") QC() Quick Hang Cable (Specify Length) SPSH 12" Stem/PS/Hook SPST 12" Stem/PS/Toggle | (Specify Lamps on Low/ Lamps on High) SC Safety Cable WG Wire Guard 20G 20 gauge NYC Standards SDT Step Down Transformer (480V to 277V) PC Photocell | SS Shattershielded Lamps ES() Energy Saver (Specify Wattage) XL Long Life* * T8 Only **T5HO Only | |

Common fixture selections

| Catalog number | System | # of lamps | Wattage (120/277V)* | Initial system lumens* | Mean system lumens* |
|------------------------------|---------------|------------|---------------------|------------------------|---------------------|
| CS14 (-10F) DL1 454 UV 1PS E | T5HO(Amalgam) | 4 | 232w / 226w | 19,600 | 18,620 |
| CS18 (-5F) DL1 654 UV 1PS E | T5HO(Amalgam) | 6 | 348w / 341w | 29,400 | 27,930 |
| CS21 (10F) D23 454 UV 1PS E | T5HO(Amalgam) | 4 | 232w / 226w | 19,600 | 18,620 |
| CS19 (35F) 554 UV 2PS E | T5HO(Amalgam) | 5 | 304w / 300w | 24,647 | 23,415 |

Dimensional drawing



Fixture Type: Catalog #: _ Quantity:_ Project:



^{*}Wattages may vary depending on the ballast manufacturer and lamp type used.

Initial and mean system lumens are the initial/mean lumen output of the lamp/ballast system as rated by lamp and ballast manufacturer and may vary from manufacturer to manufacturer.

Specifications and dimensions subject to change without notice. Contact Philips Optimum for current availability and ordering information