



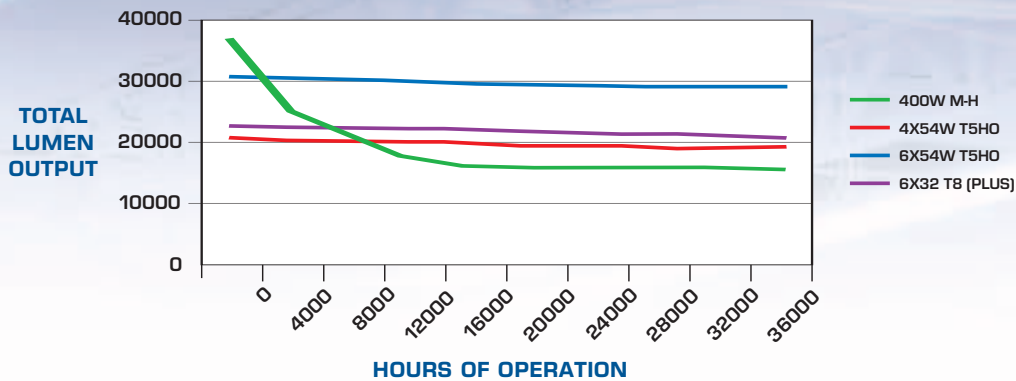
F-BAY™
FLUORESCENT HIGH-BAY

 Metalux

HID vs.

Reduce Energy Costs...

LUMEN MAINTENANCE COMPARISON HID VS. FLUORESCENT



H.I.D.

- Metal Halide (MH) has traditionally been the common solution in High Bay applications.
- Superior optical design puts the light where you want it.
- Good initial fixture light output.
- Wide temperature range - operates reliably in areas where temperatures can exceed 120° F or fall below 50° F.
- Can operate in severe environments that are corrosive or extremely dirty.

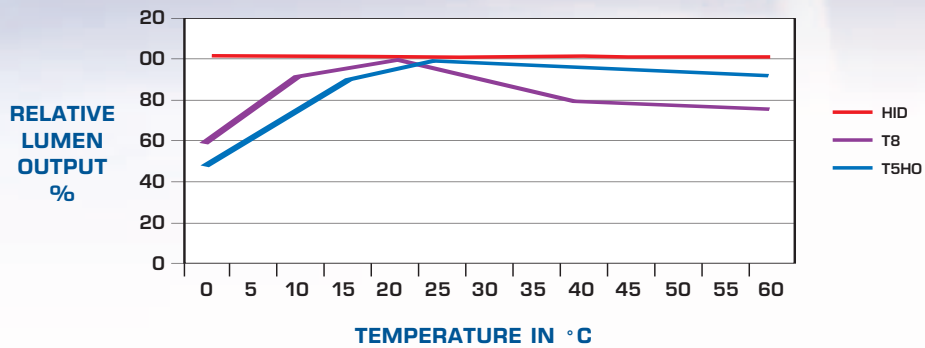
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FLUORESCENT HIGH BAYS

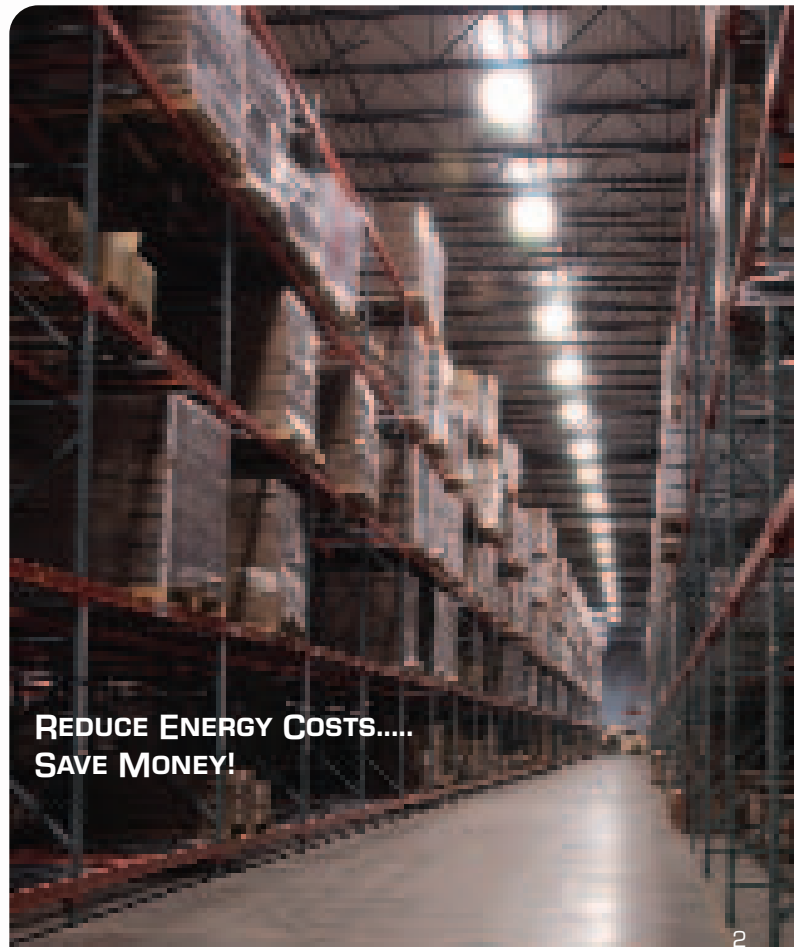
Save Money

THERMAL EFFECT ON FLUORESCENT AND HID LAMPS



FLUORESCENT HIGH BAYS

- **Energy Savings** - 30-50% energy reduction for comparable light levels.
- **Superior Lumen Maintenance** - maintain 90-95% of initial light output and extended life. Last 25,000 hours based on 10 hour starts.
- **Improved Color Rendering** - Fluorescent maintains consistent color through life and has a color rendering index (CRI) of 85...*improves visual acuity!*
- **Instant On/Off** - in an event of power interruption, fluorescent lamps are back on instantly. Integral stand-by emergency battery packs are also available.
- **More Energy Savings** - Instant on/off makes fluorescent control friendly. Use with motion sensors to further reduce energy consumption. Dimming is also an option.






REDUCE ENERGY COSTS.....
SAVE MONEY!

ENERGY SAVINGS

Reduce Energy Costs...

LINEAR FLUORESCENT REPLACES 400W METAL HALIDE ONE FOR ONE..... WITH HALF THE ENERGY.

FIXTURE COMPARISON:	F-BAY	F-BAY	
	 METALUX 2HB-632	 METALUX I5-454T5	 400W METAL HALIDE
Initial Lumens	22,302	20,000	36,000
Lamp Lumen Depreciation	.93	.95	.60
Avg. Fixture Efficiency	.937	.936	.887
Maintained (Useable) Lumens	19,434	17,784	19,159
Energy Consumed	226 Watts	232 Watts	455 Watts
Maintained Lumens/Watt (LPW)	86	77	42

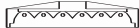



ADDITIONAL BENEFITS

- Lumen uniformity with reduced direct glare.
- Negligible color shift throughout life.
- Linear source reduces troublesome shadows.
- Environmentally friendly by reducing green house gases through energy reductions.

According to EPA conversion guidelines, emissions pollution reductions over ten years are estimated to be equivalent to: planting 320 million trees, removing 247 million cars, and saving 158 billion gallons of gasoline.

THE STANDARD

Three to six lamp T5 or T8 cross-section allow Cooper's F-Bays to be used in many applications and various mounting heights. F-Bays can be customized with many options and accessories to match specific requirements.

LIGHT LEVEL COMPARISON:	F-BAY	F-BAY		
	 METALUX 2HB-632	 METALUX I5-454	 350W PULSE START	 400W HIGH BAY
Footcandles produced with new lamps	26	24	38	40
Footcandles after 10,000 hours	25	23	25	27
Footcandles after 16,000 hours	24	23	23	24
Energy Consumed	225W	232W	386W	455W

Spacing= 25' Centers
Mounting Height= 31'

Luminaire Dirt Depreciation= 0.88
Lamp Lumen Depreciation= 0.6 (M.H.) 0.93 (T8) 0.95 (T5HO)

SAVE ENERGY!

Visit Cooper Lighting's website www.cooperlighting.com and click on F-Bay Payback Calculator for a financial analysis of your lighting needs.

A VISIBLE AND MONEY SAVING DIFFERENCE

The purpose of this example is to determine the energy savings associated with replacing Metal Halide fixtures currently installed with Cooper Lighting's F-Bay fixtures. The analysis assumes one for one fixture replacement so that current electrical supply connections do not have to be relocated.

The major considerations are:

- F-Bays reduce energy costs by 50%
- F-Bays generate comparable or better light levels
- Occupancy sensors can further reduce energy costs by another 50%
- Improved color rendering enhances visual acuity

Application: Warehouse/Distribution Center
Building Size: 700 x 350 x 35

Space Utilization: 9' Wide Aisles w/ 25' High Racking
Existing Lighting: (500) 400W MH w/Acrylic Refractor

	FIXTURE TYPE	METAL HALIDE 400W W/ACRYLIC REFRACTOR	F-BAY 2HB-632 (PLUS) W/6% UPLIGHT COMPONENT	F-BAY HB-454T5 W/6% UPLIGHT COMPONENT
Layout	FIXTURE MOUNTING HEIGHT	31'	31'	31'
	FIXTURE SPACING	25'	25'	25'
Lamp & Fixture Data	INITIAL LAMP LUMENS	36,000	3,150	4,400
	NUMBER OF LAMPS	1	6	4
	INITIAL FIXTURE LUMENS	36,000	18,900	17,600
	BALLAST FACTOR	1.0	1.18	1.0
	INITIAL FIXTURE LUMENS (ballast corrected)	36,000	22,302	17,600
	LAMP LUMEN DEPRECIATION	0.6	0.93	0.95
	LUMINAIRE DIRT DEPRECIATION	0.88	0.88	0.88
	FIXTURE EFFICIENCY	.887	0.937	0.936
	MAINTAINED FIXTURE LUMENS	16,860	17,102	13,772
	FIXTURE WATTS	455	226	232
	FIXTURE LUMENS/WATT	37	76	59
Footcandles	CRI	70	85	85
	FC BELOW FIXTURE	26	27	23
	FC BETWEEN FIXTURES	20	23	22
Operating Data	VERTICAL FC	7.3	7.0	7.6
	NUMBER OF FIXTURES	500	500	500
	SYSTEM KW	2275	113	116
	COST PER KWH	\$0.08	\$0.08	\$0.08
	HRS/DAY	24	24	24
	DAYS/WEEK	7	7	7
	WEEKS/YEAR	52	52	52
TOTAL HRS/YEAR	8,736	8,736	8,736	
Savings Analysis	ANNUAL ENERGY COSTS	\$158,995.20	\$78,973.44	\$81,070.08
	ANNUAL SAVINGS		\$80,021.76	\$77,925.12

I5 SERIES



Surface or suspension mounting
(cable, chain, pendant mount or top connector box)

Optional uplight apertures
(approximately 8% uplight component)

Latched retention of optics
(safety leader restraints)
allows for easy access

Occupancy sensor is available to instantly turn lights on and off.
Saves more energy!

White enamel finish improves efficiency and protects from corrosion

Modular optics include open, lens, wireguard, crossblade or asymmetric directional louver

2, 3 & 4 lamp versions in nominal 4' and 8' tandem models

Optical distribution options allow for precise light control
Aisle - enhanced specular aluminum. Minimum 95% total reflectivity
General - paint-after-fabrication polyester powder coat. Minimum 90% total reflectivity
(see below for photo)

UL/CUL listed to meet U.S. and Canadian safety standards

The F-Bay I5/I8 series is an ideal solution for high mounting height industrial or retail applications with an attractive, professional style. F-Bay I5/I8 optics have been optimized to provide maximum performance from either T5 or T8 lamps. Optional uplight component is available to enable excellent ceiling uniformity.

I5 & I8 OPTICAL DISTRIBUTIONS



● **NARROW AISLE** -
(Specular Enhanced Aluminum)

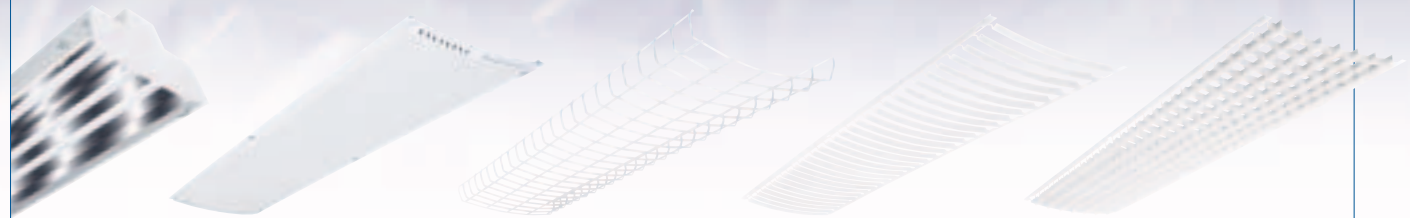


● **GENERAL AMBIENT** -
(White Painted Finish)

I 8 SERIES

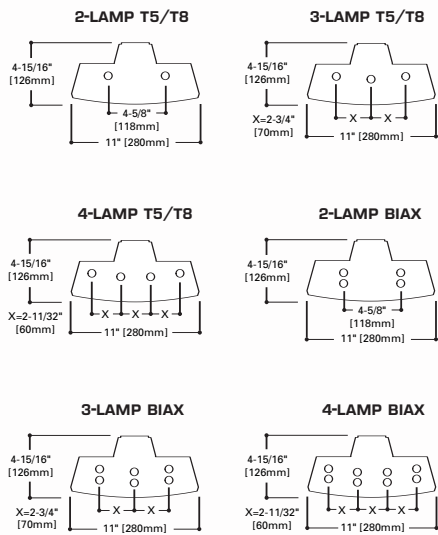


15 & 18 SHIELDING OPTICS



- **OPEN** – For maximum light output
- **FROSTED ACRYLIC LENS** – In white doorframe w/ "Herringbone" patterned end rail
- **HEAVY DUTY WIRE GUARD** – Finished in white. Can be used alone or in combination with other shielding
- **TBW** – Thin Blade White Baffle w/ 23° longitudinal shielding
- **ASYMMETRIC LOUVER** – Can be oriented in either direction for flexibility

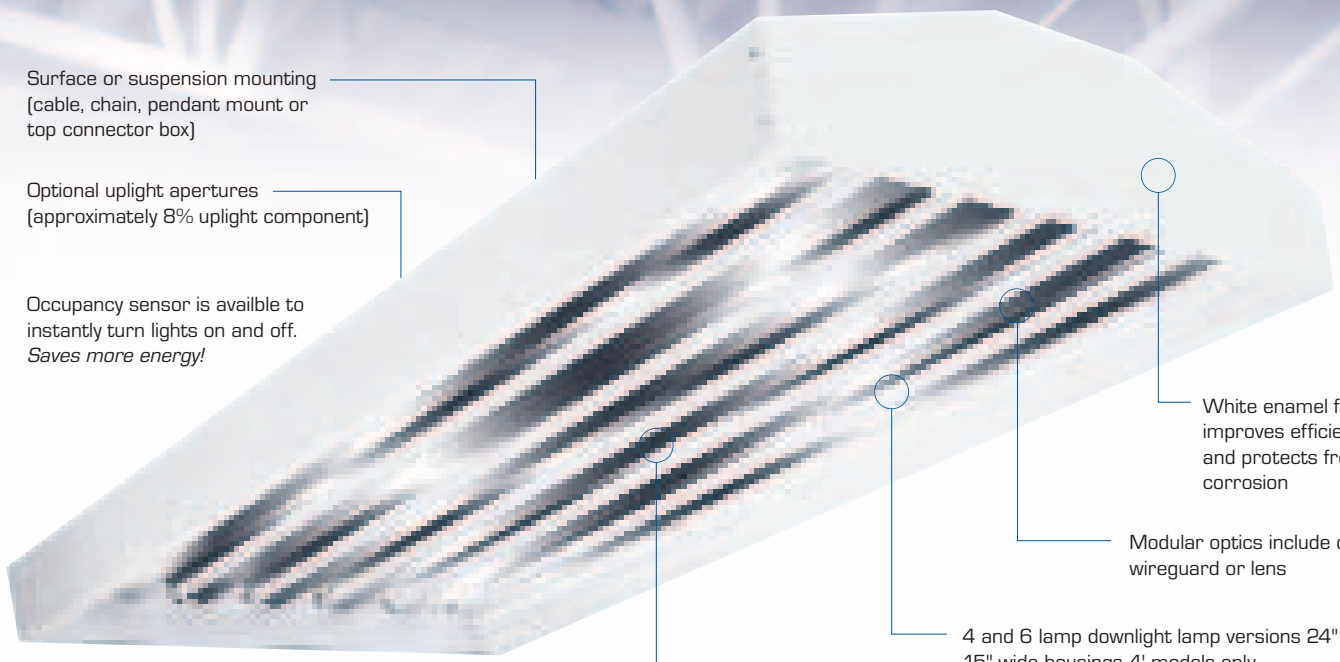
15 & 18 LAMP CONFIGURATIONS



15 & 18 APPLICATION SUITABILITY MATRIX

	15/18			
	3 T5HO	4 T5HO	3 T8	4 T8
MOUNTING HEIGHT	40'			
	30'			
	20'			
	10'			
REPLACES	 400W HID	 400W HID	 250W HID	 250W HID
APPLICATIONS	Warehouse Manufacturing Gymnasium Auditorium Convention Ctr Big-Box Retail	Warehouse Manufacturing Gymnasium Auditorium Convention Ctr Big-Box Retail	Manufacturing Retail Cafeteria	Manufacturing Retail Cafeteria

HB SERIES



Surface or suspension mounting
(cable, chain, pendant mount or
top connector box)

Optional uplight apertures
(approximately 8% uplight component)

Occupancy sensor is available to
instantly turn lights on and off.
Saves more energy!

White enamel finish
improves efficiency
and protects from
corrosion

Modular optics include open,
wireguard or lens

4 and 6 lamp downlight lamp versions 24" and
15" wide housings 4' models only

UL/CUL listed to meet U.S and
Canadian safety standards

Optical distribution options allow for precise light control

Aisle - enhanced specular aluminum.

Minimum 95% total reflectivity

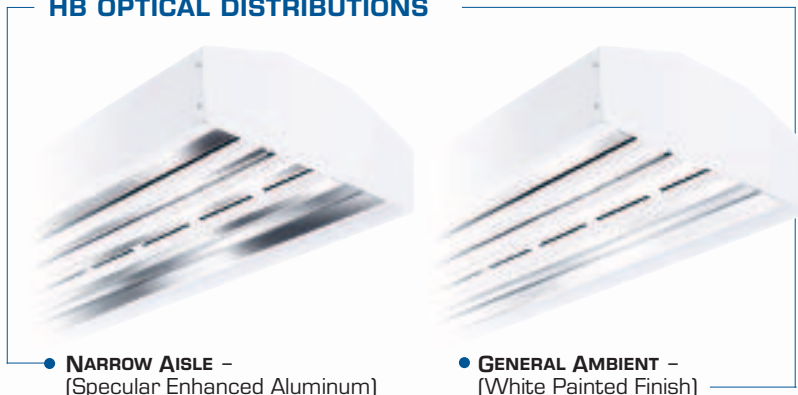
General - paint-after-fabrication polyester powder coat.

Minimum 90% total reflectivity

(see below for photo)

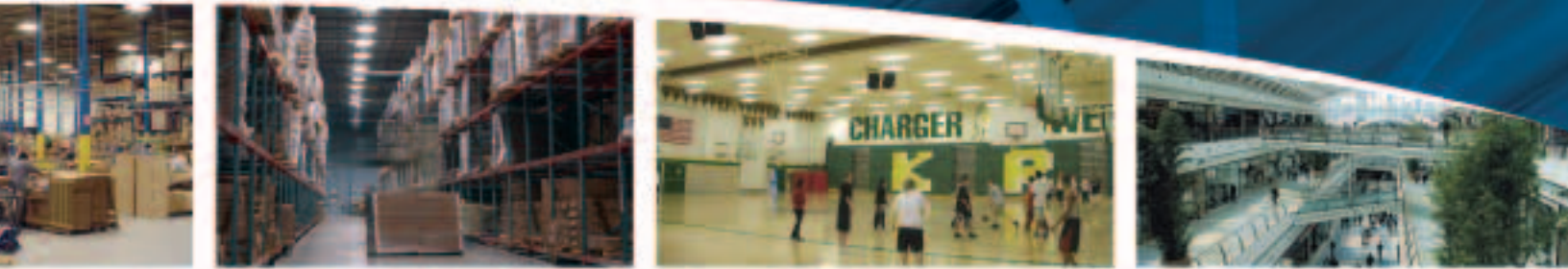
The HB series is an ideal solution for high mounting height industrial or retail applications. F-Bay HB optics have been optimized to provide maximum performance from either T5 or T8 lamps. Optional uplight component is available to enable excellent ceiling uniformity.

HB OPTICAL DISTRIBUTIONS



● **NARROW AISLE** -
(Specular Enhanced Aluminum)

● **GENERAL AMBIENT** -
(White Painted Finish)



HB SHIELDING OPTICS



● **OPEN** - For maximum light output

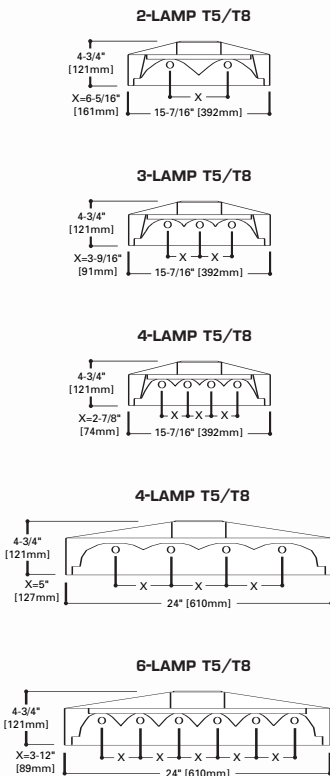


● **HEAVY-DUTY WIREGUARD AND LENS** - Finished in white.



● **ACRYLIC LENS** - A wide choice of acrylic lenses in a white extruded aluminum doorframe (G1 & G2 optional)

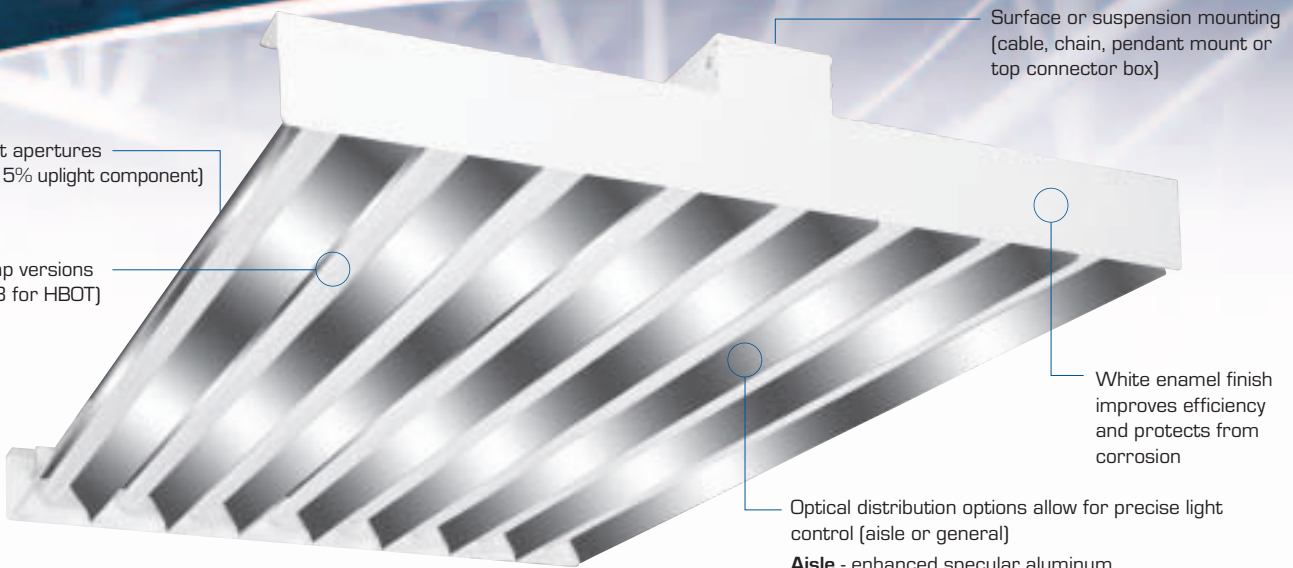
HB LAMP CONFIGURATIONS



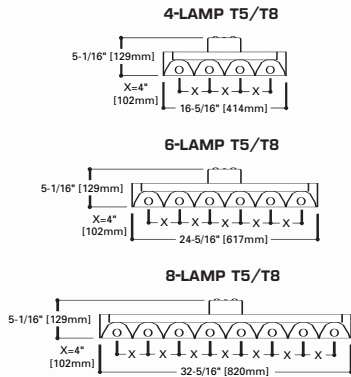
HB APPLICATION SUITABILITY MATRIX

# Lamps Source	HB		2HB			
	4 T8	4 T5HO	4 T8	4 T5HO	6 T8	6 T5HO
MOUNTING HEIGHT	40'					
	30'					
	20'					
	10'					
REPLACES						
APPLICATIONS	Warehouse Manufacturing Retail	Warehouse Manufacturing Retail	Warehouse Manufacturing Gymnasium Auditorium Convention Ctr Big-Box Retail	Warehouse Manufacturing Gymnasium Auditorium Convention Ctr Big-Box Retail	Warehouse Manufacturing Gymnasium Auditorium Convention Ctr Big-Box Retail	Warehouse Manufacturing Gymnasium Auditorium Convention Ctr Big-Box Retail

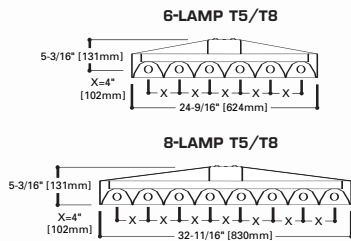
3HB SERIES



3HBO LAMP CONFIGURATIONS



3HBOT LAMP CONFIGURATIONS



Occupancy sensor is available to instantly turn lights on and off. *Saves more energy!*

UL/CUL listed to meet U.S and Canadian safety standards

Optical distribution options allow for precise light control (aisle or general)

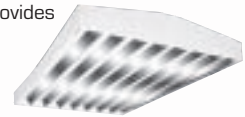
Aisle - enhanced specular aluminum.

Minimum 95% total reflectivity

General - paint-after-fabrication polyester powder coat.

Minimum 90% total reflectivity

The 3HBOT series provides structural rigidity



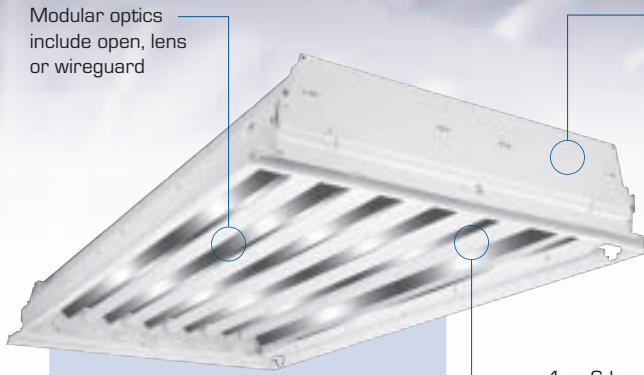
3HB APPLICATION SUITABILITY MATRIX

		3HBO/3HBOT					
		4 T8	4 T5HO	6 T8	6 T5HO	8 T8	8 T5HO
MOUNTING HEIGHT	40'						
	30'						
	20'						
	10'						
REPLACES		 250-1000W HID	 250-1000W HID	 250-1000W HID	 250-1000W HID	 250-1000W HID	 250-1000W HID
APPLICATIONS		Warehouse Manufacturing Gymnasium Auditorium Convention Ctr Big-Box Retail	Warehouse Manufacturing Gymnasium Auditorium Convention Ctr Big-Box Retail	Warehouse Manufacturing Gymnasium Auditorium Convention Ctr Big-Box Retail	Warehouse Manufacturing Gymnasium Auditorium Convention Ctr Big-Box Retail	Warehouse Manufacturing Gymnasium Auditorium Convention Ctr Big-Box Retail	Warehouse Manufacturing Gymnasium Auditorium Convention Ctr Big-Box Retail

The 3HBO and 3HBOT series offer an economical solution for high mounting height industrial or retail applications. The optics have been optimized to provide maximum performance from either T5 or T8 lamps. Optional uplight component is available to enable excellent ceiling uniformity.

2HBG

2HBHD SERIES



Modular optics include open, lens or wireguard

White enamel finish improves efficiency and protects from corrosion



Hole-free housing

Particulock gasket system provides 200 psi hose down rating

4 or 6 lamp versions

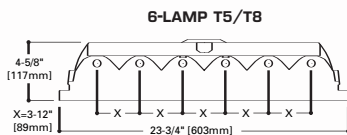
The 2HBG series is an ideal solution for high mounting height industrial or retail applications that require a recessed luminaire. The 2HBG optics have been optimized to provide maximum performance from either T5 or T8 lamps.

Occupancy sensor is available to instantly turn lights on and off. *Saves more energy!*

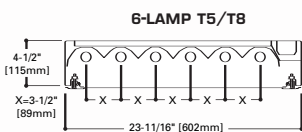
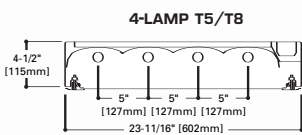
UL/CUL listed to meet U.S. and Canadian safety standards

The 2HBHD series is designed for use in high mounting height applications where periodic cleaning with high pressure is required. This surface mounted luminaire has a hole-free design and is enclosed and gasketed to provide 200psi hose down protection.

2HBG LAMP CONFIGURATIONS



2HBHD LAMP CONFIGURATIONS



HB APPLICATION SUITABILITY MATRIX

	2HBG		2HBHD				
	# Lamps Source	6 T8	6 T5HO	4 T8	4 T5HO	6 T8	6 T5HO
MOUNTING HEIGHT	40'						
	30'						
	20'						
	10'						
REPLACES		400W HID		400W HID		250-400W HID	
APPLICATIONS	Retail Convention Center Gymnasium	Retail Convention Center Gymnasium	Food Processing Industrial	Food Processing Industrial	Food Processing Industrial	Food Processing Industrial	Food Processing Industrial

OPTIONS & ACCESSORIES

MOUNTING OPTIONS... QUICKLY & SECURELY

AYC CHAIN SET - (2) Sturdy Wire Hooks and 36" Chain Sets c/w S-Hooks.

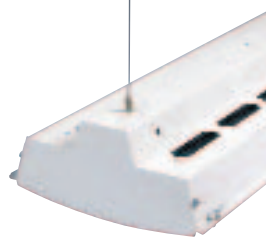
CABLE SETS - CCA (48" or 120" adjustable) and CCF (12", 15", 18", 21", 24" or 27" fixed length) Stainless Steel Aircraft Cable Kits. Available in non-power feed and PFC (coil power cord) or PFS (straight power cord).

STEM SETS - Fixed, Swivel or Adjustable Stem Sets available in various lengths.

CHAIN



CABLE

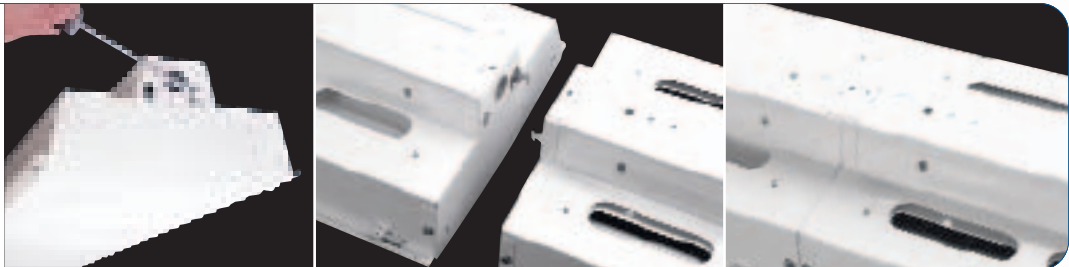


STEM



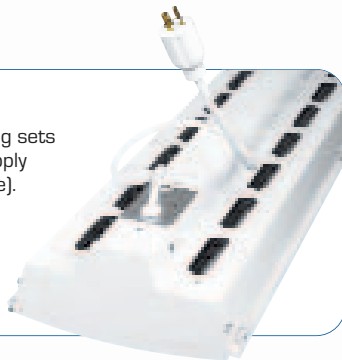
ROW MOUNT

End plates provided with the "Quick-Tab" joining system for ease of row mounting. Blank end plates provided for row ends.



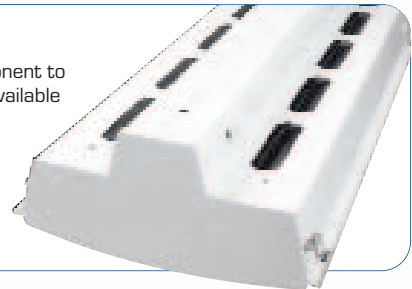
CORD & PLUG

3' or 6' long Power Cord & Plug sets available for various power supply voltages (please specify voltage).



UPLIGHT OPTION

Optional upright component to illuminate the ceiling available on all models.



PRE-LAMP

Factory installed lamps save labor on jobsites.



EMERGENCY BATTERY PACKS

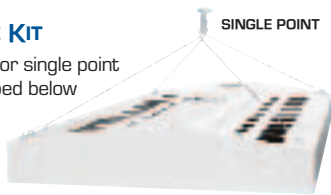
Self-contained integrally mounted in the fixture operate lamps at emergency levels for 90 minutes upon loss of primary power.



SINGLE POINT CABLE KIT

Stainless Steel Cable Kit for single point suspension. (fixture dropped below mounting point by 13")

Use with TCB to minimize cantilevering and rotation.



SINGLE POINT



TWO POINT

Two Point Suspension (fixture dropped below mounting points by 29")

TOP CONNECTOR BOX

Suitable for conduit mounting or for use with fixture hook, loop or safety hook. (Recommended for use with chain or cable set to prevent cantilevering and rotation from a central mounting point).

IDEAL FOR RETRO-FIT OPPORTUNITIES!!!



TOP BALLAST ACCESS PLATE

Allows for removal or service of ballast from above without disturbing internal optics.



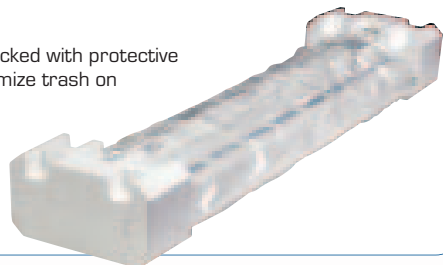
OCCUPANCY SENSOR.... SAVES MORE ENERGY!

Provides switching capabilities with adjustments for time delay, sensitivity, and lux levels. Designed specifically for aisle lighting applications, it provides a rectangular coverage pattern of 15' x 40' when mounted at a 40' mounting height.



JOB PACK

Fixtures pallet packed with protective end caps to minimize trash on job sites.



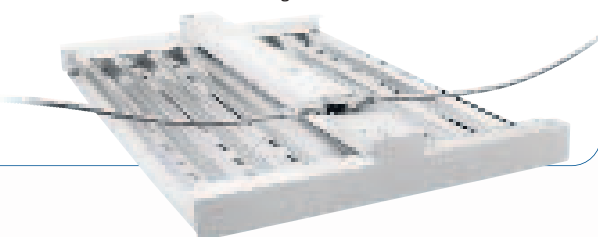
UNIT PACK

Fixtures individually packaged with corrugated carton and internal pads.



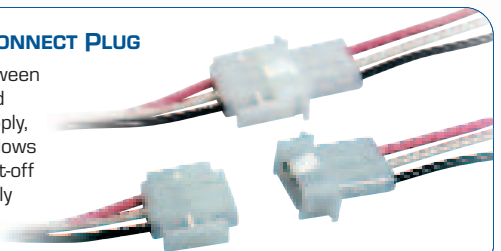
MWS

Factory installed Modular Wiring System provides low cost installation of branch circuit wiring.



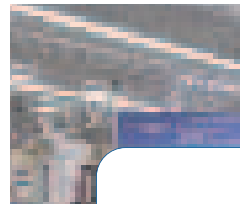
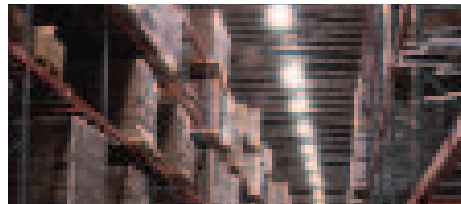
QUICK DISCONNECT PLUG

Pre-wired between the ballast and the power supply, this feature allows for internal cut-off of power supply for service convenience.



APPLICATION

Unparalleled Product Breadth

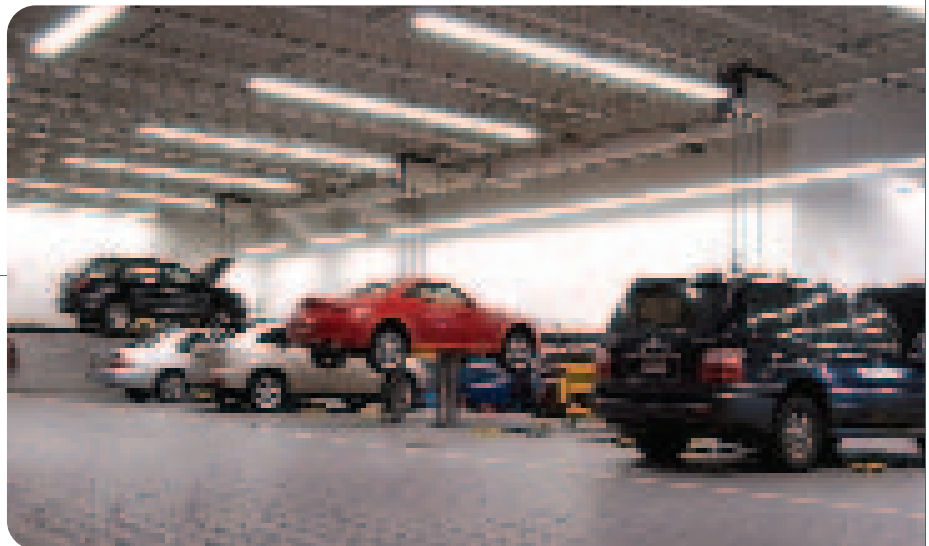


H.I.D.



A VISIBLE
AND
MONEY SAVING
DIFFERENCE

F-BAY





IDEAL SOLUTION FOR:

Retail – maximize energy savings while delivering excellent lumens per watt and consistent color throughout the store.

Warehouses & Manufacturing Facilities– excellent lumen maintenance prevents light levels from dropping to unsafe or unacceptable levels and higher lumens per watt lower energy costs. The use of occupancy sensors further reduce energy costs.

Gymnasiums, Cafeterias, Auditoriums– no need to wait for lights to turn on with the instant on feature, plus occupancy sensors offer additional energy savings.

F-BAY OFFERS THE FOLLOWING ADVANTAGES:

- Superior solution with 50% energy savings
- Excellent optics with comparable lumen output
 - Specular reflectors ideal for Hi-Bay applications
 - White reflectors ideal for Low-Bay applications
 - 8% Uplight option provides ceiling uniformity
- Instant On/Off allows for use of Occupancy Sensors to optimize energy savings
- Multiple mounting options offer flexibility and reduce labor costs
- Superior lumen maintenance and lamp life

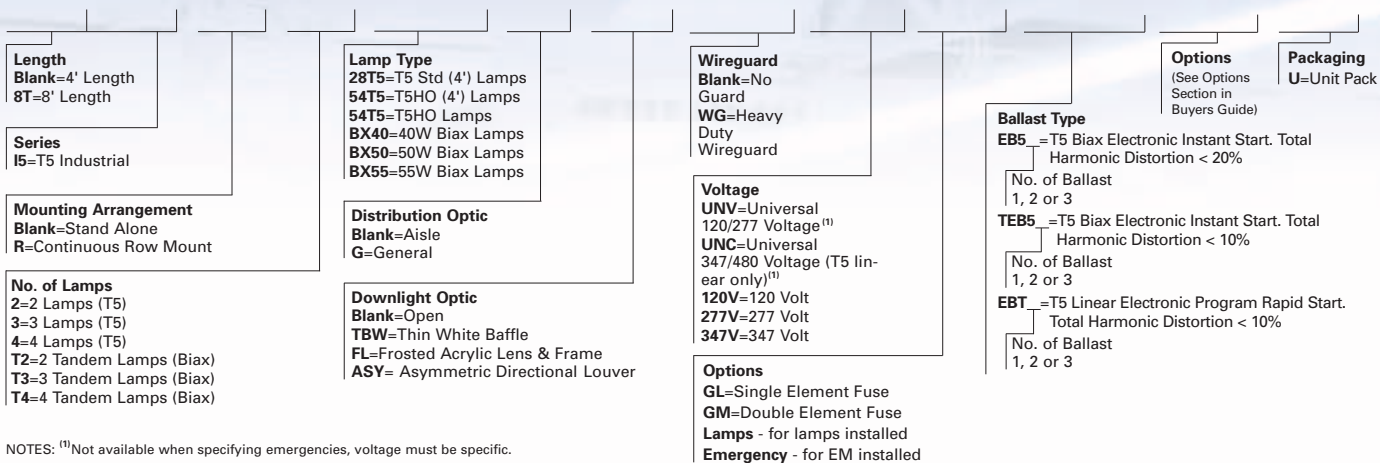
Combine these benefits with Cooper Lighting’s unparalleled product breadth and experience and you have the best fluorescent high bay solution in the industry working for you.

Cooper Lighting is your source for fluorescent high bay solutions for every application in commercial, industrial and institutional settings.

ORDERING

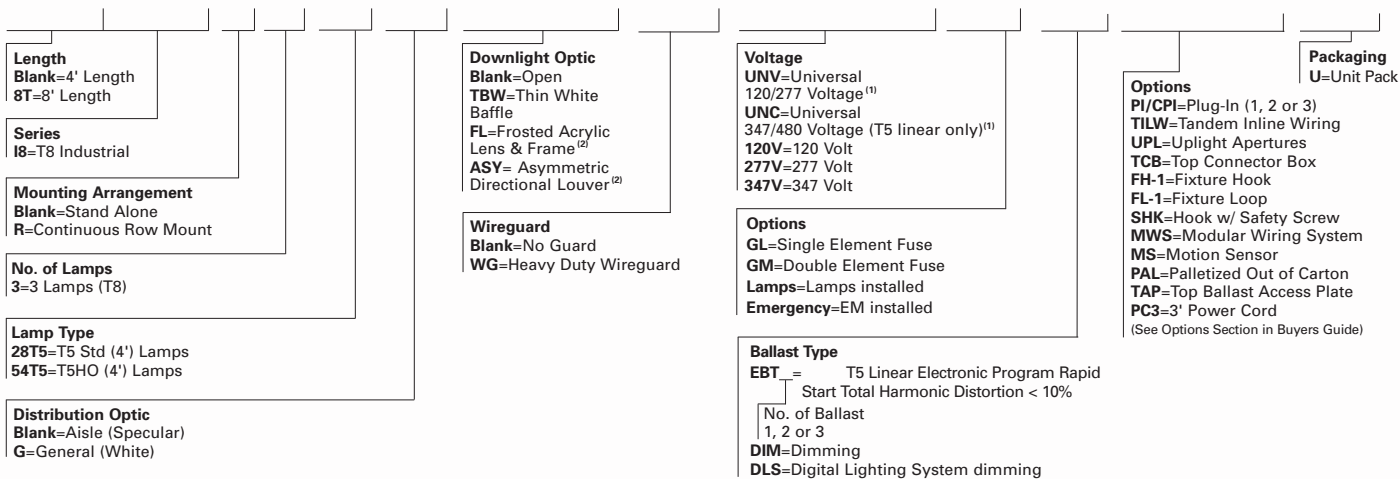
15

15 ORDERING INFORMATION: SAMPLE NUMBER: 8T15-254T5-TBW-120V-EBT1-UPL



18

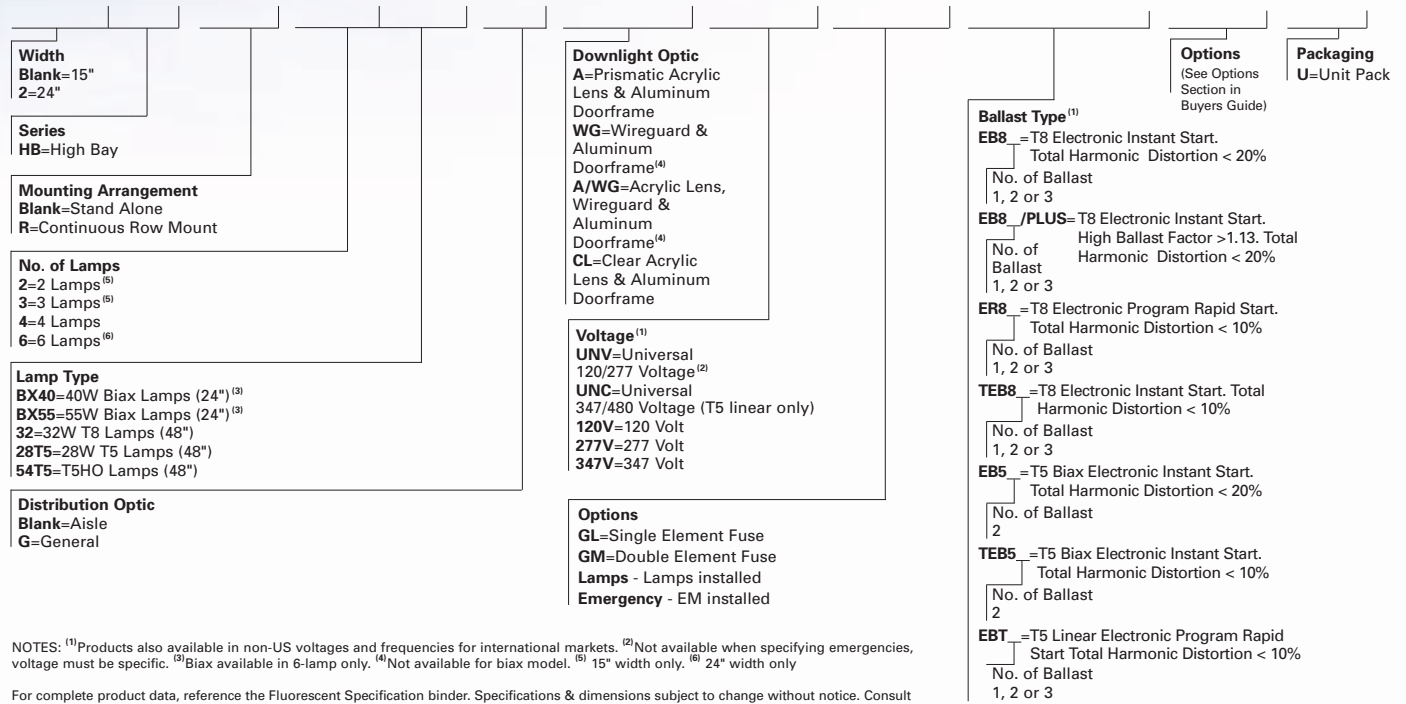
18 ORDERING INFORMATION: SAMPLE NUMBER: 8T18-354T5-TBW-120V-EBT1-UPL





HB

HB ORDERING INFORMATION: SAMPLE NUMBER: HB-R-232-A-120V-EB81

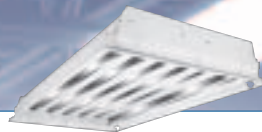


NOTES: ⁽¹⁾Products also available in non-US voltages and frequencies for international markets. ⁽²⁾Not available when specifying emergencies, voltage must be specific. ⁽³⁾Biax available in 6-lamp only. ⁽⁴⁾Not available for biax model. ⁽⁵⁾ 15" width only. ⁽⁶⁾ 24" width only

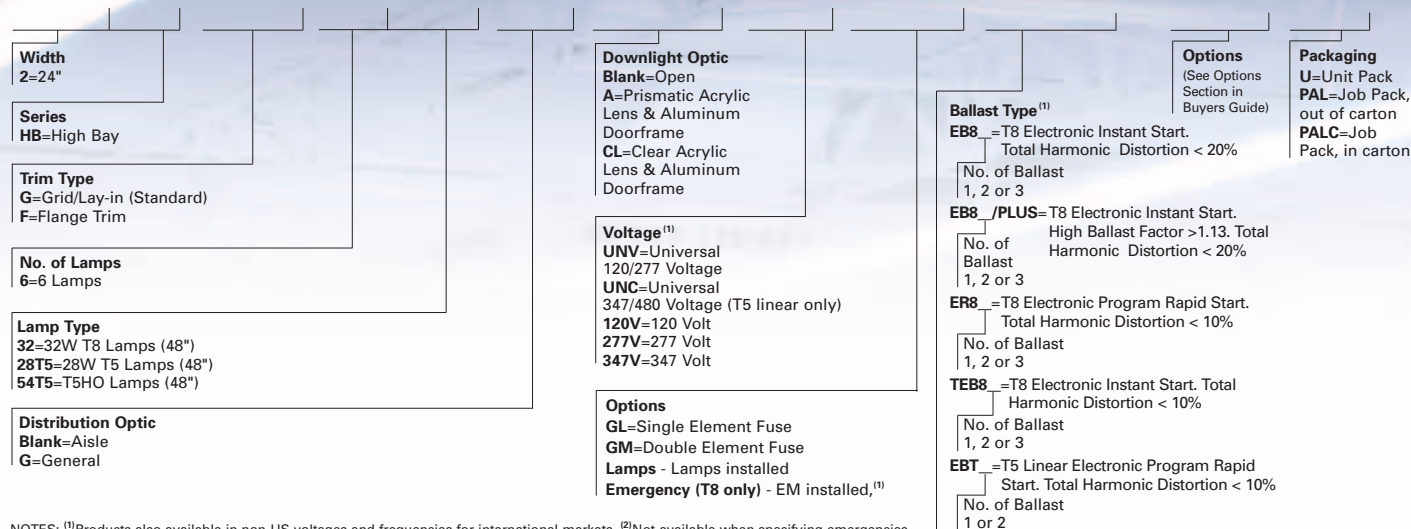
For complete product data, reference the Fluorescent Specification binder. Specifications & dimensions subject to change without notice. Consult your Cooper Lighting Representative for availability and ordering information.

ORDERING

2HBG



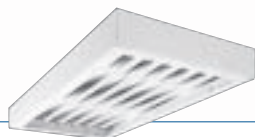
2HBG ORDERING INFORMATION: SAMPLE NUMBER: 2HBG-654T5-A-UNV-EBT2-U



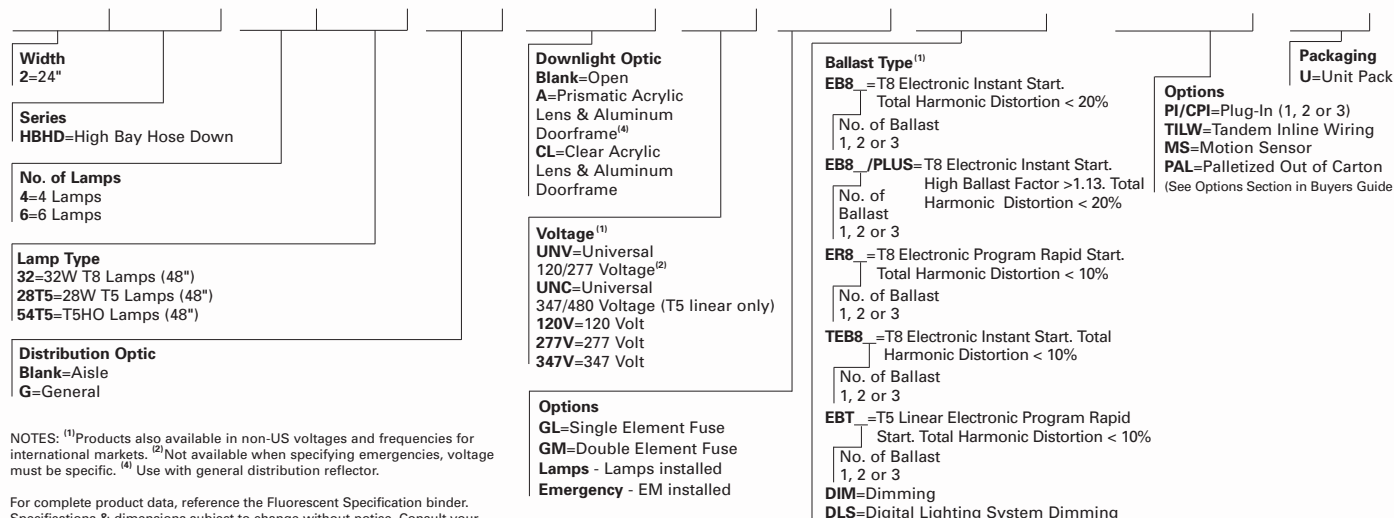
NOTES: ⁽¹⁾Products also available in non-US voltages and frequencies for international markets. ⁽²⁾Not available when specifying emergencies, voltage must be specific.

For complete product data, reference the Fluorescent Specification binder. Specifications & dimensions subject to change without notice. Consult your Cooper Lighting Representative for availability and ordering information.

2HBHD



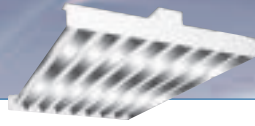
2HBHD ORDERING INFORMATION: SAMPLE NUMBER: 2HBHD-654T5-A-UNV-EBT2



NOTES: ⁽¹⁾Products also available in non-US voltages and frequencies for international markets. ⁽²⁾Not available when specifying emergencies, voltage must be specific. ⁽⁴⁾ Use with general distribution reflector.

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3HBO



3HBO ORDERING INFORMATION: SAMPLE NUMBER: 3HBO-832-120V-EB82

Width

3=32" wide

Series

HBO=High Bay Open Version

No. of Lamps

6=6 Lamps
8=8 Lamps

Wattage (Length)

32=32W T8 (48") Lamps
28T5=28W T5 (48") Lamps
54T5=54W T5HO (48") Lamps

Distribution Optic

Blank=Aisle (Aluminum)
G=General (White Painted)

Voltage⁽¹⁾

UNV=Universal
120/277 Voltage⁽²⁾
UNC=Universal
347/480 Voltage
(T5 linear only)⁽²⁾
120V=120 Volt
277V=277 Volt
347V=347 Volt

Options

GL=Single Element Fuse
GM=Double Element Fuse
Lamps - Lamps installed
Emergency - EM installed

Ballast Type⁽¹⁾

EB8_=T8 Electronic Instant Start.

Total Harmonic Distortion < 20%

No. of Ballast
1, 2 or 3

EB8_/PLUS=T8 Electronic Instant Start.

High Ballast Factor >1.13. Total
Harmonic Distortion < 20%

No. of Ballast
1, 2 or 3

ER8_=T8 Electronic Program Rapid Start.

Total Harmonic Distortion < 10%

No. of Ballast
1, 2 or 3

TEB8_=T8 Electronic Instant Start. Total

Harmonic Distortion < 10%

No. of Ballast
1, 2 or 3

EBT_=T5 Linear Electronic Program Rapid

Start. Total Harmonic Distortion < 10%

No. of Ballast
1 or 2

DIM=Dimming

DLS=Digital Lighting System Dimming

Packaging

U=Unit Pack

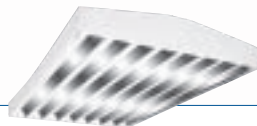
Options

UPL=Uplight Apertures
PI/CPI=Plug-In (1, 2 or 3)
TILW=Tandem Inline Wiring
TCB=Top Connector Box
FH-1=Fixture Hook
FL-1=Fixture Loop
SHK=Hook w/ Safety Screw
MWS=Modular Wiring System
MS=Motion Sensor
PAL=Palletized Out of Carton
PC3=3' Power Cord

NOTES: ⁽¹⁾Products also available in non-US voltages and frequencies for international markets. ⁽²⁾Not available when specifying emergencies, voltage must be specific.

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3HBOT



3HBOT ORDERING INFORMATION: SAMPLE NUMBER: 3HBOT-R-832-120V-EB82

Width

3=32" wide

Series

HBOT=High Bay
Open Top Version

Mounting Arrangement

Blank=Stand Alone
R=Continuous Row

No. of Lamps

6=6 Lamps
8=8 Lamps

Wattage (Length)

32=32W T8 (48") Lamps
28T5=28W T5 (48") Lamps
54T5=54W T5HO (48") Lamps

Distribution Optic

Blank=Aisle (Aluminum)
G=General (White Painted)

Voltage⁽¹⁾

UNV=Universal
120/277 Voltage⁽²⁾
UNC=Universal
347/480 Voltage
(T5 linear only)⁽²⁾
120V=120 Volt
277V=277 Volt
347V=347 Volt

Options

GL=Single Element Fuse
GM=Double Element Fuse
Lamps - Lamps installed
Emergency - EM installed

Ballast Type⁽¹⁾

EB8_=T8 Electronic Instant Start.

Total Harmonic Distortion < 20%

No. of Ballast
1, 2 or 3

EB8_/PLUS=T8 Electronic Instant Start.

High Ballast Factor >1.13. Total
Harmonic Distortion < 20%

No. of Ballast
1, 2 or 3

ER8_=T8 Electronic Program Rapid Start.

Total Harmonic Distortion < 10%

No. of Ballast
1, 2 or 3

TEB8_=T8 Electronic Instant Start. Total

Harmonic Distortion < 10%

No. of Ballast
1, 2 or 3

EBT_=T5 Linear Electronic Program Rapid

Start. Total Harmonic Distortion < 10%

No. of Ballast
1 or 2

DIM=Dimming

DLS=Digital Lighting System Dimming

Packaging

U=Unit Pack

Options

UPL=Uplight Apertures
PI/CPI=Plug-In (1, 2 or 3)
TILW=Tandem Inline Wiring
TCB=Top Connector Box
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NOTES: ⁽¹⁾Products also available in non-US voltages and frequencies for international markets. ⁽²⁾Not available when specifying emergencies, voltage must be specific.

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Cooper Lighting - Lumark

Cooper Lighting - Sure-Lites

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Portfolio

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