



## Photometric Data

LTL#: 9708

CAT#: TU D23D 22 555 UV 3PS E 841

### Zonal Lumen Summary

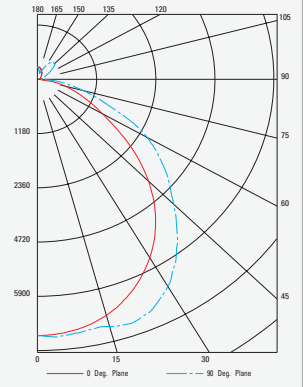
ZONE	LUMENS	%LAMP	%FIXT
0-30	4448	20.7	26.5
0-40	7299	33.9	43.4
0-60	12484	58.1	74.3
0-90	15578	72.5	92.7
90-120	395	1.8	2.4
90-130	598	2.8	3.6
90-150	1034	4.8	6.2
90-180	1221	5.7	7.3
0-180	16798	78.1	100.0

Total Luminaire Efficiency: 78.1%

CIE Type: Direct

Plane: 0-Deg 90-Deg

Spacing Criteria: 1.2 1.4



## TU SERIES

### Aesthetic fluorescent High-Bay with uplight

This fixture offers everything from aesthetics to energy efficiency. The TU allows for tremendous light output in smaller footprint areas. This 2X2 fixture is designed for maximum light output while maintaining a pleasing appearance. The optional drop lens provides a contemporary style and flair offering exceptional light distribution. Special slotting allows for a small uplight component, making this fixture ideal for retail applications.

This compact size fixture can be equipped with technology to replace the entire low to mid-wattage High Intensity Discharge fixture field. With many lamp selections, from bi-x to compact fluorescent, this allows for design flexibility and proves this fixture's versatility.

The many reflector, lamp and lens options available allow for a varied performance "spec" and a broad application base. With Bi-x technology, we can design to provide light output from up to six Bi-x lamps. With new compact fluorescent technology, these lamps can be mounted at a dropped angle. Lowering the lamps below the fixture's base line also allows for additional light spread.

Applications include: office areas, supermarkets, retail stores, art supply design centers or any specialty studio, schools, showrooms, and large open area facilities.

#### Heat Dissipation

Venting is incorporated into the fixture housing to allow for heat dissipation. Removing heat build-up allows lamps to perform at their maximal lumen output temperature rating.

#### Light Distribution

The TU outfitted with D23 lens provides a wide distribution pattern – excellent for use in general or open areas. Uplight slotting creates uniform ceiling illumination.

#### Mounting Methods

TU fixtures are available with optional hook mounting.

#### Product Construction

The TU fixture housing is brake formed from heavy gauge cold rolled steel, permanently assembled with rivets.

#### Finish

Standard finish on this fixture's housing is baked ripple black enamel. Uniquely, this fixture can be customized to match your corporate colors or any desired retail design features. Pick from hundreds of colors or supply your own Pantone Color swatch.

#### 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.

#### Lens

The standard lens is a high efficiency, high dispersion 23 pattern clear acrylic. Optional lenses are available, see ordering information.

#### Lampholders

The lampholders are standard 2G11 base snap-in type.

#### Ballasts

All ballasts are electronic programmed-start (50w, 55w) or instant-start (36w, 40w) as a standard. Optional ballasts are available, consult factory for available systems and system specifications.

#### Listings

All fixtures are UL and CUL listed.

Please specify when ordering

Fixture Series	Lens	Dimensions	# of Lamps	Lamp Type	Voltage	# Ballasts	Ballast Type	Reflector	Hanging	Options	Lamp Color	Lamp Options
TU												

### Fixture ordering guide

Fixture Series	Lens	Dimensions	# of Lamps*1	Lamp Type	Voltage	# Ballasts	Ballast Type	Reflector	Hanging	Options	Lamp Color	Lamp Options
TU	D23	22	3	36	12	1	SI	E	HK	C ( )	BLANK	SS
	DL1	23	4	40	27	2	PS	W		6T1	830	ES ( )
	DL2		5	50	34	3	PSH	B		6T2	835	
	DD23		6	55	UV		PD			E ( )	841	
	DI25				HV					F	850	
	CAL1									OS ( )		
										SC		
										WG		
										20G		
										CC ( )		
										PC		

\*1 TU 2x2 can be outfitted with up to 5 lamps & 2x3 can be outfitted with up to 6 lamps.

### Available fixture selections

<b>Lens Selections</b> D23 23 Pattern High Dispersion, High Efficiency DL1 0.118" Clear Lexan DL2 0.220" Clear Lexan DD23 23 Pattern Drop DI25 0.125" Prismatic CAL1 0.118" Clear Acrylic	<b>Lamp Type Selections</b> 36 FT36W/2G11 System 40 FT40W/2G11 System 50 FT50W/2G11 System 55 FT55W/2G11 System	<b>Ballast Selections</b> SI Instant Start (NBF)* PS Programmed Start (NBF) PSH Programmed Start HBF** PD Programmed Start Dimming * 40w Only ** 36, 40 & 50w Only	<b>Options Selections</b> C ( ) Single Circuit Cord (Specify Length) 6T1 6' Cord with L5-15 Locking End 6T2 6' Cord with L7-15 Locking End E ( ) Emergency Pack (# Lumens) F Inline Fuse OS ( ) Occupancy Sensor (Specify Lamps on Low/ Lamps on High) SC Safety Cable WG Wire Guard 20G 20 Gauge CC Custom Color Specify Color PC Photocell	<b>Lamp Color Selections</b> BLANK Lamps Not Included 830 80+ CRI, 3000K 835 80+ CRI, 3500K 841 80+ CRI, 4100K 850 80+ CRI, 5000K * 40w Only
<b>Dimensions</b> 22 2' x 2' 23 2' x 3'	<b>Voltage Selections</b> 12 120V 27 277V 34 347V UV 120-277V HV 347-480V	<b>Reflector Selections</b> E Enhanced Aluminum W Highly Reflective White Aluminum B 95% Reflective Extreme White Aluminum	<b>Lamp Options Selections</b> ES ( ) Energy Saver (Specify Wattage)* * 40w Only	
		<b>Hanging Selections</b> HK Hook		

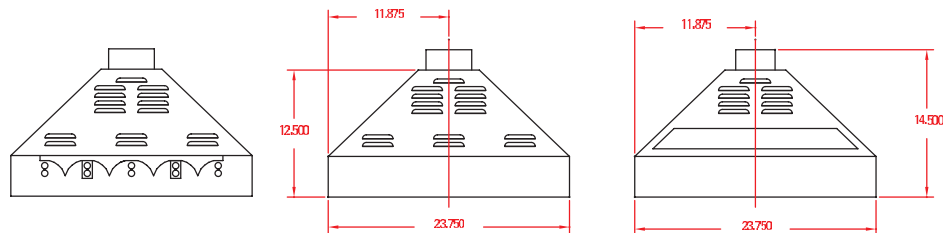
### Common fixture selections

Catalog number	System	# of lamps	Wattage (120/277V)*	Initial system lumens*	Mean system lumens*
TU D23 22 436 UV 1PSH E	Biax	4	176w / 173w	13,920	12,528
TU D23 22 550 UV 2PSH W	Biax	5	296w / 290w	23,650	21,285
TU D23 23 640 UV 2SI W	Biax	6	198w / 194w	17,424	15,682
TU D23 23 650 UV 2PSH E	Biax	6	353w / 345w	28,380	25,542

\*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

### Dimensional drawing



Fixture Type: \_\_\_\_\_

Catalog #: \_\_\_\_\_ Quantity: \_\_\_\_\_

Project: \_\_\_\_\_

High Bay | www.philips.com/optimum | Phone (800) 541-9082 | Fax (855) 231-0414

