

ELP
ENGINEERED LIGHTING
PRODUCTS

VT & VTTB SERIES

Recessed 2' x 2' Indirect Video/Tele Conference Fixtures
for Drywall and T-Bar

**Now with
LED options!**

Project

Econolite Control Products, Inc.
Anaheim, California

Specifier

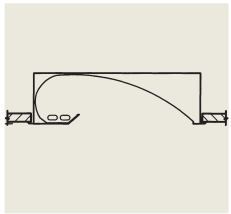
Leelite Design
Tustin, California

Photographer

Dell'Aquila Photography & Video
Long Beach, California

Lighting

250BXVT-TB, 110 watts
150BXWW-AKTB, 50 watts



*Comfortably illuminates the
participants while rendering an
excellent video image.*

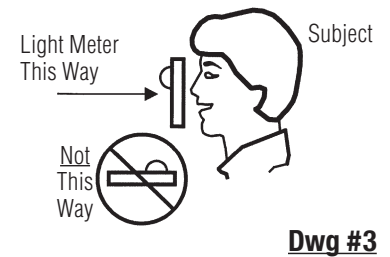
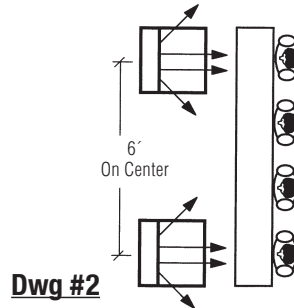
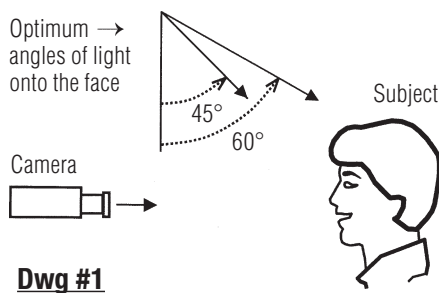
System

Video/Tele Conference fixtures. Unique, indirect 2' x 2' LED and fluorescent fixtures provide even vertical illumination in three directions. They comfortably illuminate participants with minimal facial shadowing while keeping direct light/glare off of the monitor and camera.

Recessed 2' x 2' Indirect Video/Tele Conference Fixtures for Drywall and T-Bar

The task of providing proper lighting for a Video conference space is very simple – Ask us to do it for you! But if you would rather do it yourself, here are the problems and some suggested solutions.

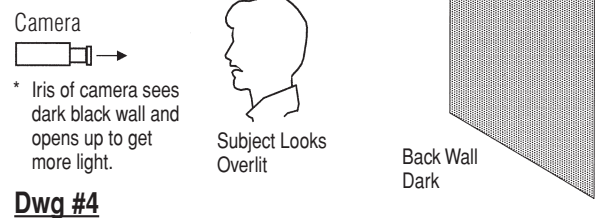
1) **Provide lighting for the camera in the proper quantity, quality and angle.** The light should come from an angle between 45° and 60° vertical (Dwg #1). Horizontally, light should also be cast on the face from an angle in addition to front (Dwg #2). This will assure that minimum shadows are created in the eye sockets and under the nose and chin.



The amount of light falling on the face of the subject measured vertically should be 30-60 F.C. (Dwg #3), depending on flesh tone and clothing. The quality of light can be assured by using lamps of 3000° K or 3500° K (Color Temperature) with a CRI (Color Rendering Index) of 82+. The use of high color temperature lamps (5700° K and higher) is not necessary for video cameras and the strong blue component makes most skin tones look bad (blue). [Note: Daylight film requires the high color temperature light.]

2) **Provide minimal lighting for the screen or monitor for good screen contrast and image sharpness.** The wall where the screen or monitor is located should have as little illumination as possible. No reflected glare should appear on the screen or monitor to inhibit viewing.

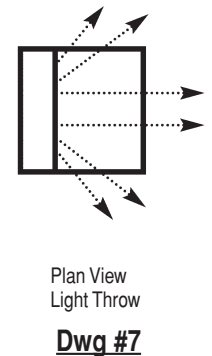
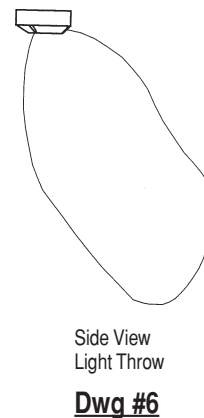
3) **Provide lighting for the back wall and to a lesser extent, the side walls to balance the brightness with the rest of the room.** Doing this will prevent the camera from iris-ing* on the back or side walls that are too dark or too bright and then allowing too much or too little light in the camera resulting in the appearance of over or under lighting the subject (Dwg #4). Generally the wall finishes and furniture should be very neutral. The reflectance value of these colors and surfaces should be around 30-40%. Light levels ratios from the participant to the back wall should be within 3 to 1 while the side walls can be 5 to 1.



Solutions – To accomplish the above requires light fixtures that provide a wide horizontal component. The VT Series fixture ENGINEERED LIGHTING PRODUCTS has designed for this use is a recessed, indirect 2' x 2' with a 44 watt LED or two 40, 50 or 55 watt Bi-x lamps (Dwg #5). This fixture produces an asymmetric distribution (Dwg #6) that provides a large horizontal throw in three directions (Dwg #7). The tri-directional performance of this product often eliminates the need for additional lighting on back and side walls, so the second consideration is handled also. Very little light is directed behind

Dwg #5

the VT Series fixtures so they do not wash out the viewing screen or glare into the camera. A lighting layout has been provided on the back of this cut for your perusal.



Dual Function and Participant Comfort – The VT Series is provided standard with a dimming ballast/driver so you may adjust the light levels for good picture quality and have low light level illumination for standard conferencing functions. Combining the low heat of LED or fluorescent lamps with an indirect optical system, the participants in the room will have optimum comfort visually and environmentally.



TYPE:
CATALOG #:
JOB:

Recessed 2' x 2' Indirect Video/Tele Conference
LED Fixtures for Drywall and T-Bar

Specifications

Recessed, indirect 2' x 2' LED fixture for Drywall and T-Bar ceiling installations. Unit utilizes four high efficacy, LED modules totaling 44 watts. The one piece, formed reflector is high-purity aluminum (99.9%) with 97% reflectance. The optical design allows energy efficient lighting layouts with excellent visual comfort for the speaker, camera and audience. It utilizes the Sylvania 3500K distributed array, LED modules that are 80+ CRI and are rated up to 60,000 hrs.

The spot weld construction housing is 22 gauge CRS and is post painted with a TGIC polyester powder-coat. Cover and knock-outs provided for through wiring. Drywall fixture has extruded aluminum trim.

c/CSA/us Listing, IC Rated

Options

Driver 120/277 0-10 volt, Osram OT Dim (Standard)

For Alternate Dimming:

DM6 3-wire/Digital, Lutron ECO Systems L3D
DM7 2-wire, Lutron LTE (120 only)

Finish White (Standard)
Custom -Custom

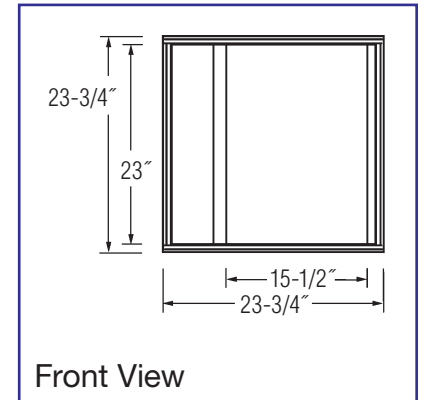
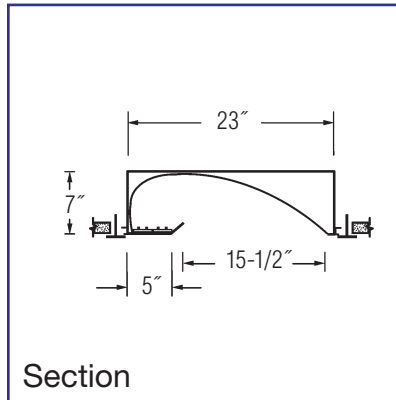
LED 3500K (Standard)*
3000K - 30K
4000K - 40K

Louver Diffuse Silver Parallel Blade -LV (Not Recommended)

* Recommended color temperatures for architectural installations.

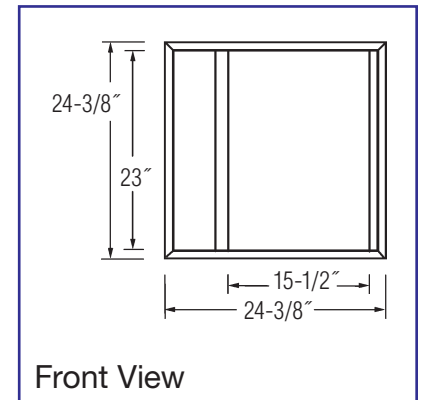
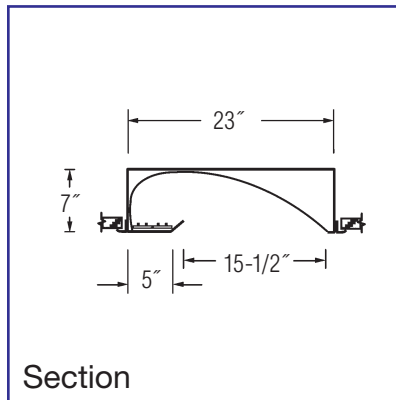
Note: Sylvania provides a 5 year warranty on the lamp driver combination when using their driver for this unit.

Note: Efficacy will vary depending on the driver used.



VTTB Series, LED for T-Bar Installations

Model No.	Lamp	Efficacy
444W1VT-TB	(4) 10.8 watt Modules, 1 CCT	87



VT Series, LED for Drywall Installations

Model No.	Lamp	Efficacy
444W1VT	(4) 10.8 watt Modules, 1 CCT	87

Rough-In Dimensions are 23-3/4" x 23-3/4"



TYPE:
CATALOG #:
JOB:

Recessed 2' x 2' Indirect Video/Tele Conference
LED Fixtures for Drywall and T-Bar

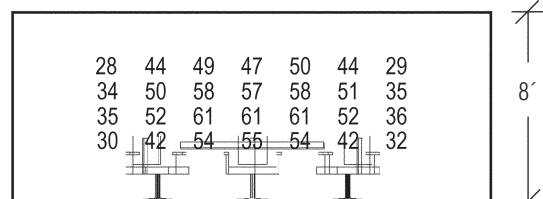
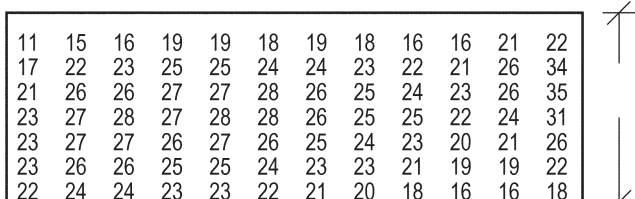
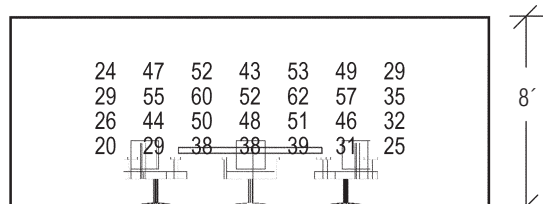
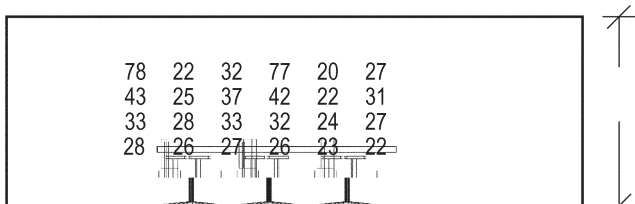
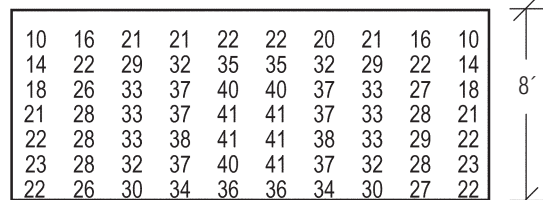
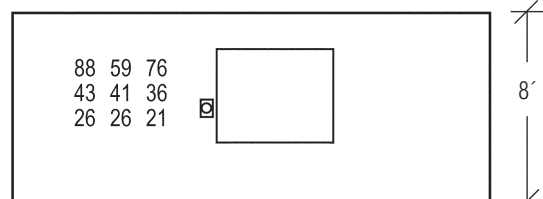
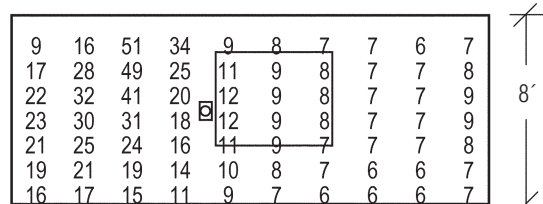
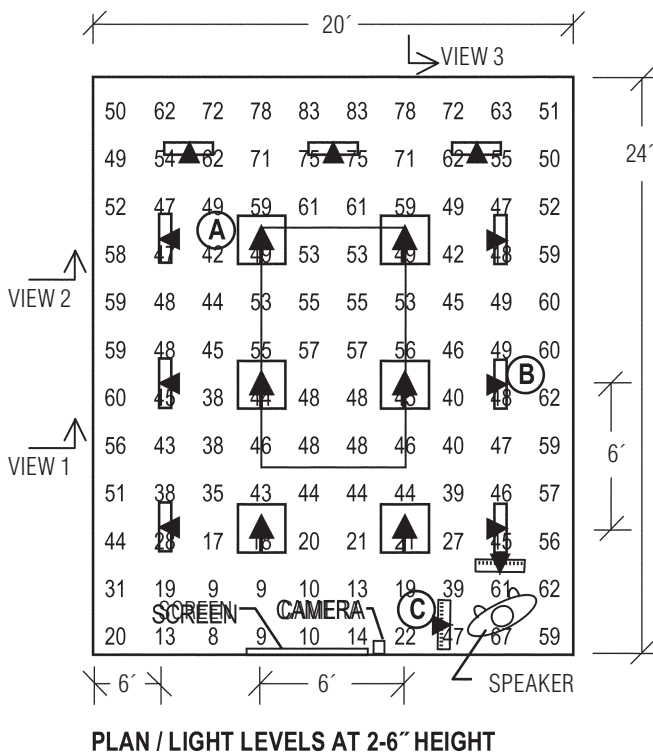
LED Photometrics

Vertical light levels on participants should be a minimum of 30 to 60 fc for successful Video Conferencing depending on flesh tone and clothing. Light readings are shown in footcandles and were calculated with Lighting Analysts' AGI 32 utilizing the independent test lab reports listed. The reflectances of the room for calculation purposes were Ceiling: .80; Walls: .50; Floor: .20. To convert levels to Lux use the conversion factor of 1 fc = 10.765 Lux. Original photometric data on file at the factory. Specifications subject to change without notice or obligation.

MODELS: (A) 444W1VT; (B) 222W1WW-AK; (C) 222W1IW

TYPE	IES File	Purpose	Dimming Level
(A)	219100.IES	Indirect 2 x 2 Lights Conferees	50%
(B)	L08133601C.IES	Wall Wash	20%
(C)	L06135605.IES	Indirect Wash Lights Speaker	65%

Combined, these three luminaires can provide all necessary lighting for Video Conferencing and other meeting usage without a secondary lighting system.





VT & VTTB SERIES

TYPE:
CATALOG #:
JOB:

Recessed 2' x 2' Indirect Video/Tele Conference
Fluorescent Fixtures for Drywall and T-Bar

Specification

Recessed, indirect 2' x 2' compact fluorescent fixture for Drywall and T-Bar ceiling installations. Unit utilizes one or two 40, 50, or 55 watt Biax lamps. The formed reflector combines white diffuse with high purity aluminum (99.9%) reflector material with 97% reflectance. The optical design allows energy efficient lighting layouts with excellent visual comfort for the speaker, the camera and the audience.

The spot weld construction housing is 22 gauge CRS and post painted with a white TGIC polyester powder-coat. Cover and knock-outs provided for through wiring. All fluorescent fixtures are supplied standard with Luminaire Disconnect. Drywall fixture has extruded aluminum trim.

UL/CUL Damp Location listed.

Options

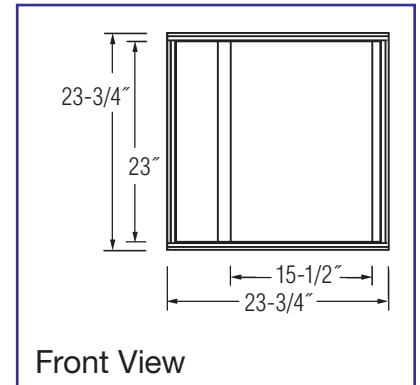
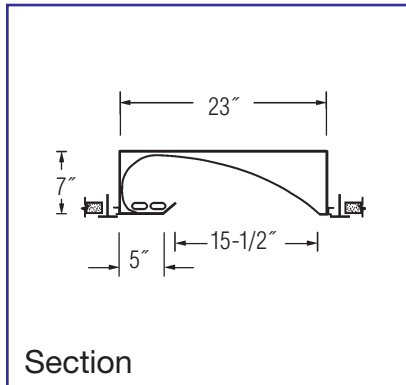
Ballast 120 or 277 Electronic Dimming
(Standard as shown)

For Alternate Dimming:

DM2 Lutron ECO Systems
DM3 Lutron Hi-Lume 3D
DM4 Advance Mark X
DM5 Advance Mark VII
DM Other -(Specify)

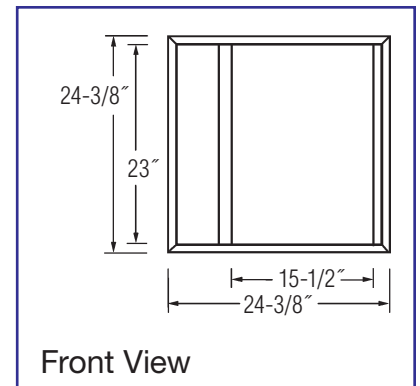
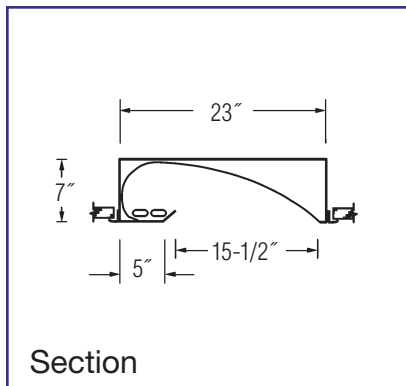
Finish White (Standard)
Custom -Custom

Louver Diffuser Silver Parallel Blade -LV
(Not Recommended)



VTTB Series, Fluorescent for T-Bar Installations

Model No.	Standard Dimming	Alternate Dim	Lamp	Efficacy
240BXVT-TB *	Lutron H3D	2,4,or 5	(2) 40 watt Biax	42
250BXVT-TB *	Lutron H3D	2	(2) 50 watt Biax	43
255BXVT-TB *	Advance Mark X	2 or 5	(2) 55 watt Biax	42



VT Series, Fluorescent for Drywall Installations

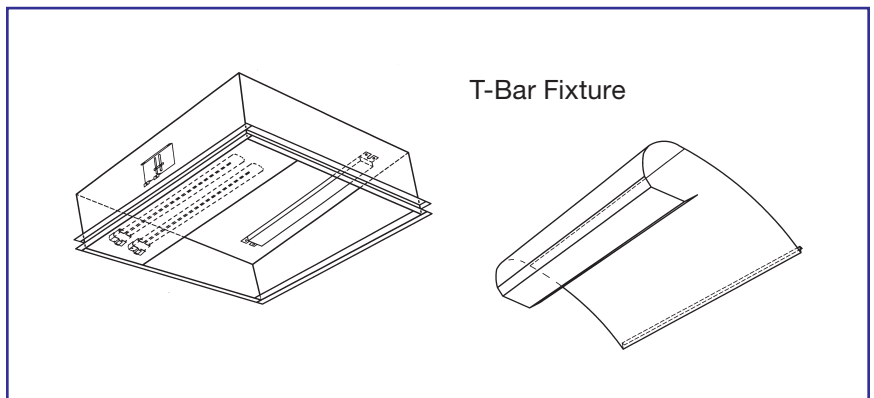
Model No.	Standard Dimming	Alternate Dim	Lamp	Efficacy
240BXVT *	Lutron H3D	2,4,or 5	(2) 40 watt Biax	42
250BXVT *	Lutron H3D	2	(2) 50 watt Biax	43
255BXVT *	Advance Mark X	2 or 5	(2) 55 watt Biax	42

Rough-In Dimensions are 23-3/4" x 23-3/4"

* Single lamp fixtures may be ordered if they are being mounted in a continuous row installation. Change the first number to a "1."

Example: #155BXVT Single Lamp Fixture

Note: Efficacy will vary depending on the driver used.



T-Bar Fixture



TYPE:
CATALOG #:
JOB:

Recessed 2' x 2' Indirect Video/Tele Conference
Fluorescent Fixtures for Drywall and T-Bar

FLUORESCENT Photometrics

Vertical light levels on participants should be a minimum of 30 to 60 fc for successful Video Conferencing depending on flesh tone and clothing. Light readings are shown in footcandles and were calculated with Lighting Analysts' AGI 32 utilizing the independent test lab reports listed. The reflectances of the room for calculation purposes were Ceiling: .80; Walls: .50; Floor: .20. To convert levels to Lux use the conversion factor of 1 fc = 10.765 Lux. Original photometric data on file at the factory. Specifications subject to change without notice or obligation.

MODELS: (A) 250BXVT; (B) 150BXWW-AK; (C) 150BXIW

TYPE	IES File	Purpose	Dimming Level
(A)	1015A1.IES	Indirect 2 x 2 Lights Conferees	60%
(B)	4009A150.IES	Wall Wash	10%
(C)	10028A4.IES	Indirect Wash Lights Speaker	90%

Combined, these three luminaires can provide all necessary lighting for Video Conferencing and other meeting usage without a secondary lighting system.

