

APPLICATIONS

The "HST" series of troffers offers high performance illumination for the critical surgical operating suites. CAD designed Asymmetric/Symmetric RFI shielding provides maximum distribution to the surgical site area as well as the surround. Fully gasketed construction, silicone sealed for resistance to moisture, dust, and bacteria. The "HST" troffer complies with U.S. Government MIL-Std 461A/462/463, and is U.L. listed for damp locations and wet locations.

WET / DAMP LOCATIONS



SPECIFICATIONS

HOUSING: Die formed of 20 ga. cold rolled prime steel, rigidly fabricated, and electrically welded to insure true and perfect alignment. All seams silicone sealed to resist moisture.

SOCKET PLATE: Die formed of code gauge cold rolled steel, securely mounted, accessible for maintenance.

REFLECTOR: CAD/CAM designed and formed of code gauge steel to optically correct contour to provide precise light distribution with maximum efficiency, and effective glare control, removable to access wiring. XTA-XTRALUME® energy efficient reflector available (see OPTIONS).

SHIELDING: One piece extruded .150 clear acrylic prismatic refractor, CAD designed with Asymmetric/Symmetric lineal and conical prisms with a RFI suppressing metalized silver grid on the smooth side of the lens grounded to the housing.

DOOR FRAME & TRIM FLANGE: Heavy gauge extruded aluminum door frame with precision mitered corners, and a fully integrated gasket to prohibit entrance of moisture, dust, or bacteria. Door frames are secured by knurled head screws opposite concealed continuous hinge. Trim flanges are heavy gauge extruded aluminum and precision mitered.

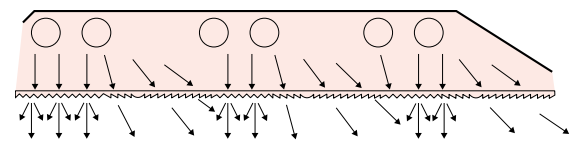
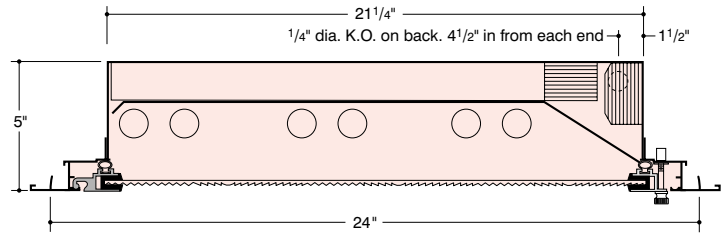
ELECTRICAL: Thermally protected Class "P" Energy Saving Rapid/ Instant Start HPF 270MA-BIAX (Twin Tube), 265MA-T8 and 460MA T-5 electronic ballasts standard for 118V 60 Hz operation. Other electronic ballasts, other voltages and frequencies available, consult factory. (See OPTIONS).

MOUNTING: Designed to integrate into most standard ceilings. Quick Mount Leveling Jacks are supplied which are designed to mount on the ceiling supporting system on concealed mechanical Flanged Trim units, metal pan, sheet rock, or wet plaster ceilings. For grid type ceilings, unit rests on the flanges of the exposed spline or tee. Fine Line Clips are supplied on units used in Donn Fine type ceilings. The corners of the fixture opening should be well supported to withstand the weight of the troffer. See ceilings and specify type. Knockouts provided on back and ends for feeding – continuous runs, advise factory.

FINISH: All steel component parts are completely protected against rust and discoloration after fabrication through an automated conveyorized multi-stage phosphate bonding process. Finished with an electrostatic baked white polyester thermosetting powder coating. This electronic computer controlled integrated system assures consistent high reflectance efficiency and maximum durability. Available OxyShield and OxyGuard 2 stage process, (see OPTIONS). Visit our website for details.

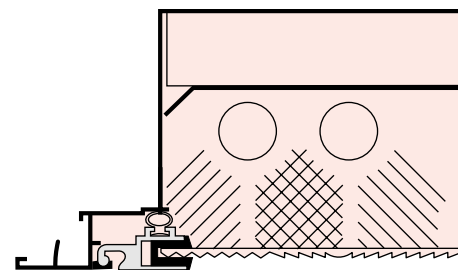
CERTIFICATION: The "HST" Series 662 is U.L. and C.U.L listed and bears the label of the I.B.E.W./AFL-CIO, Local #3. Listed for damp locations "DL", and Wet Locations "WL". Complies with U.S. Government MIL-Std. 461A/462/463.

XTRALUME® and LEGION® are registered trademarks of LEGION LIGHTING CO., INC.



ASYMMETRIC-SYMMETRIC DISTRIBUTION

The CAD designed lens consists of male cone prisms and linear elevating and depressing prisms. To maximize the light output, the lamps are asymmetric about the luminaire centerline.



RADIO FREQUENCY INTERFERENCE SUPPRESSION

The 662HST lens comes with a RFI suppressing grid of silver ink on the smooth side of the lens. This grid intercepts the radiated emissions from the lamps which are then carried out of the fixture and dissipated through an electrical ground. This reduces the RFI transmitted to the space to a level below which RFI sensitive equipment is affected. The RFI grid has been tested and complies with MIL-STD-461A. If used with electronic ballast, does not comply.

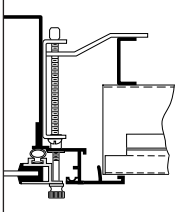
ORDERING DATA

Nom. Size	No. and Type Lamps	Specify Ceiling	Wt.	Catalog No.
2' x 2'	* 3-F40TT/RS	J, F	35	662-3BX40-HST
2' x 2'	* 3-F50TT/RS	J, F	35	662-3BX50-HST
2' x 2'	• 3-FBO31-OCT-T8	J, F	35	662-3U31-HST EBO
2' x 2'	6-FO17-OCT-T8	J, F	35	662-617-HST EBO
2' x 4'	6-FO32-OCT-T8	J, F	49	662-632-HST EBO
2' x 2'	6-F14 T5	J, F	35	662-614-HST
2' x 4'	6-F28 T5	J, F	49	662-628-HST

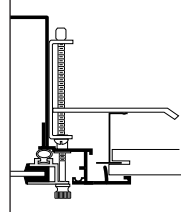
- Lamp spacing made for 1 5/8" center OCTRON™ U-lamps only.
- * F40TT/RS & F50TT/RS is the ANSI designation of various lamp manufacturers, i.e.: G.E. Lighting "Biax", Philips "PL", Osram "DULUX-L", Sylvania Twin Tube. For F55TT/RS change catalog number. Example: **J662-3BX55-HST**, etc. and consult factory.

OCTRON™ is a registered trademark of SYLVANIA

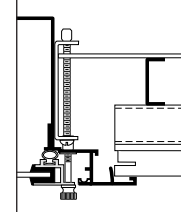
CEILINGINGS



****Simplex Metal Pan Type "F" Flanged**

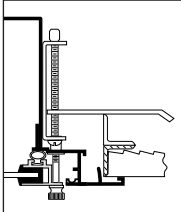


***Concealed "Z" Bar Type "F" Flanged**

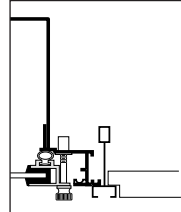


****Armstrong ATS Type "F" Flanged**

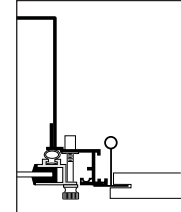
* "Z" BARS MUST FACE OUTWARD FROM TROFFER
** SNAP BAR MUST RUN PERPENDICULAR TO FIXTURE SIDE. MOUNT ON BLACK IRON.



Wet Plaster Type "F" Flanged



Fine Line Type "J" Lay-In



Exposed "T" Bar Concealed "T" Bar Type "J" Lay-In

+ Type (F) Wet plaster ceiling. (Requires plaster frame, specify separately) suffix PF.
+ Type (F) Concealed "Z" spline ceiling, Z splines must face outward from troffer.
+ Type (F) Metal Pan Simplex Ceiling – snap bar must run perpendicular to side of troffer – mount on black iron.
+ Type (F) Armstrong ATS – snap bar must run perpendicular to side of troffer – Mount on black iron.
++ Type (J) Exposed inverted "T", ceiling.
++ Type (J) Concealed inverted "T", ceiling.
++ Type (J) Exposed Inverted "T", Tegular ceiling.
++ Type (J) Exposed Inverted "T", Fineline ceiling. (Requires Fineline clips) Suffix FLC.
+ Flanged troffers provided with Quick Mount leveling jacks.
++ The corners of the ceiling opening should be well supported to withstand the weight of the troffer.

Type (F) fixtures cannot butt together end to side. A space is required between fixtures.

OPTIONS

- Suffix "LT" after catalog no. for cold weather ballast.
- Suffix "EM" after cat. no. for emerg. battery pack, see price list for types.
- Suffix "DL" after catalog no. for damp location.
- Suffix "WL" after catalog no. for wet location.
- Suffix "XTA" after catalog no. for XTRALUME® reflector std. with 85% reflectance, for 95% reflectance please specify your requirements.
- Suffix "OS/OG" after catalog no. for OxyShield/OxyGuard anti bacterial coating.

ENERGY SAVING BALLASTS Where applicable (consult factory). Suffix "ESB"/ after catalog number, and then one of the following:

ELECTRONIC

- "EB"-Electronic T8 Octron Ballast
- "EBO"-Electronic T8 Octron Ballast
- "EBX"-Electronic (BIAX) Twin Tube
- "EBD"-Electronic T12 Dimming Ballast
- "EBDO"-Electronic T8 Octron Dimming Ballast
- "EBDX"-Electronic (BIAX) Twin Tube Dimming Ballast

PHOTOMETRIC DATA - ILLUMINANCE (Footcandles)

147	180	172	265	231	273	169	219	258	340	340	258	220	169	273	232	265	172	181	148
198	210	266	325	274	241	337	374	356	312	312	356	374	337	241	274	326	268	213	202
216	324	227	270	272	346	316	294	299	372	372	299	295	316	346	272	271	229	330	217
241	224	290	317	348	375	399	416	433	444	444	433	416	399	376	349	319	292	226	245
245	277	355	345	378	406	431	450	469	481	481	469	450	432	407	379	347	360	280	250
253	297	383	372	406	436	462	482	502	516	516	502	482	463	437	408	374	389	300	256
285	272	361	392	428	458	484	504	526	540	540	526	505	485	459	429	394	364	272	290
237	329	332	413	449	478	504	523	544	559	559	544	524	504	479	450	415	331	332	238
333	376	441	424	460	489	514	532	553	568	568	553	533	514	490	462	426	448	383	340
279	411	377	431	466	494	518	536	556	571	571	556	536	519	495	468	433	379	420	282
279	411	377	431	466	494	518	536	556	570	571	556	536	518	495	468	433	379	420	282
333	376	441	424	460	489	513	532	553	567	567	553	532	514	489	462	426	448	382	340
237	328	331	412	448	477	503	522	543	558	558	544	523	504	478	449	414	331	331	238
285	271	361	391	427	457	484	503	525	539	539	525	504	484	458	428	393	364	271	290
253	296	382	371	405	435	461	480	501	514	514	501	481	461	435	406	373	388	299	256
245	276	354	344	376	404	429	448	467	479	479	467	448	430	405	377	345	359	279	249
240	223	289	316	346	373	396	413	430	441	441	430	413	396	373	347	317	291	224	244
214	323	228	270	272	343	316	297	302	371	371	302	297	316	343	273	271	231	329	215
199	210	264	319	271	242	333	368	352	312	312	353	368	333	242	272	320	267	214	203
146	180	171	260	229	269	173	221	258	335	335	258	221	173	269	230	260	171	181	146

(8) 2x4, 6 lamp T8 fixtures. 1944 ANSI watts total
SUMMARY OF PERFORMANCE SURGICAL SITE 527 FC AVERAGE SURROUND 326 FC AVERAGE

Catalog Number 662-632-HST

Illumination levels indicated are computed with ©Lumen-Micro Version 7.5 based on the following:

- Room Reflectance Factors:** Ceiling 80%, Walls 50%, Floor 20%
- Room Size:** 12'-0" x 16'-0" x 9'-0"
- Light Loss Factor:** (LLD) x (LDD) x (BF) = 1.0
- Workplane Height:** 3'-0"
- BALLABS Test Report #8392.0 (T8), 2800 Lumens per lamp

©Lumen-Micro Version 7.5 is software copyright of Lighting Technologies, Inc.

Performance summaries for your particular layout available, consult factory.

