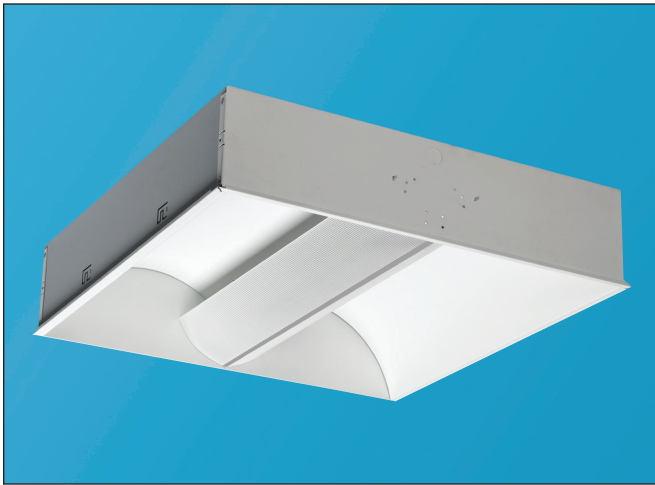




# ZENITH III ZBS SERIES

## 2X2 Center Split Light Shield Indirect/Direct Luminaire

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

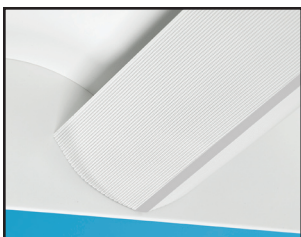
Job Information: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

### SPECIFICATIONS:

- Recessed 2X2 fluorescent luminaire featuring a computer designed precision optical system that provides indirect/direct illumination. An optically correct double arched reflector enables precise indirect light distribution. A center mounted two-piece perforated split light shield provides the soft direct illumination.
- The system delivers comfortable illumination by filling the entire volume of space evenly. Broad angle illumination lights walls and vertical surfaces creating a more open and comfortable space.
- All components are recessed above the ceiling line. Install in ceilings as low as eight feet.
- Housings are die formed from 20GA cold rolled steel and fabricated in a computer-controlled operation. Spot-welds and rivets hold all parts together for strength and unity. Pry-out style grid supports are located on the sides.
- The indirect reflector, CAD designed to the optimum contour, is a two-piece system. One side is securely screwed into the housing with hidden hardware. The other side is held in place with quarter turn cam locks for easy ballast access.
- The center split light shields are die formed and fabricated from heavy gauge perforated steel and integrated with internal white Mylar panels. Each light shield is capable of swinging down for lamp access.
- A custom formulated non-glare white powder coating is applied to the reflector, light shields, and the housing after fabrication. Provides a reflectivity of at least 90%.
- Lamping options: One, two, or three-twin tube compact fluorescents; 40W-TT5, 50W-TT5, or 55W-TT5. Two or three 2Ft. linear fluorescents; 14W-T5, 24W-HO-T5, or 17W-T8.
- Ballasts: Full electronic, normal light output, high power factor. See ordering data for complete specifications. Multi-volt standard with most compact TT5 and linear T5 units. All linear T8 units available 120V-60HZ, 277V-60HZ, or multi-volt. Dimming ballasts are voltage specific.
- Emergency battery back up: Integrated packs range from 450 up to 1125 lumen output. Varies with lamp type.
- Air return: Optional air return slots allow room air to be circulated back into plenum.
- A quick wiring access plate is located on back of the housing. Additional knockouts provided. Factory installed lamps and power whips as specified.
- Designed for installation into NEMA Type G lay-in acoustical grid ceiling systems, 1" grid or 9/16" fine-line grid. Optional fit available for screw slot grid. For NEMA Type F dry wall applications an additional flange kit must be used with Type G housing. Four pullout type security clips, located in the housing, lock over the ceiling grid work. Four auxiliary suspension points are also provided for securing to building structure.
- UL and CUL listed 1598 and bears their label. Suitable for dry locations or optional damp locations with UL Damp Label. Union made and labeled.



Shield Detail



**MERCURY  
LIGHTING**  
PRODUCTS CO. INC.



## ZBS SERIES 2X2 Center Split Light Shield Indirect/Direct Luminaire

Fixture Type:

Job Information:

**ORDERING DATA:** Fill in boxes below with corresponding bold options.

Example: ZBS-22G-240-BIAX-ELB-UNI-EMPK/I32-FLX

| Series                                             | Module Size/Ceiling                                                                                                                                                                 | Optional Air Return                                                       | No. of Lamps/Wattage Ea. Lamp                                                                                                                                                                                                                                                                                                                                                                                                                                            | Lamp Type                                                                                                                                            | Ballast Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Voltage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Misc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ZBS</b><br>Zenith III<br>Center Split<br>Shield | <b>22G</b><br>2X2 Module/NEMA<br>Type G/Lay-in<br>Grid, 1" or 9/16"<br>Fine Line.<br><br><b>22S</b><br>2X2 Module/NEMA<br>Type G/Lay-in<br>Grid, 9/16"<br>Screw-Slot/<br>Bolt-Slot. | Leave Blank for<br>No Function<br><br><b>A</b><br>Air Return To<br>Plenum | <b>240</b><br>2-40W-TT5 Compact<br><br><b>250</b><br>2-50W-TT5 Compact<br><br><b>255</b><br>2-55W-TT5 Compact<br><br><b>340</b><br>3-40W-TT5 Compact<br><br><b>350</b><br>3-50W-TT5 Compact<br><br><b>355</b><br>3-55W-TT5 Compact<br><br><b>214</b><br>2-14W-T5 Linear<br><br><b>224</b><br>2-24W-H0-T5 Linear<br><br><b>314</b><br>3-14W-T5 Linear<br><br><b>324</b><br>3-24W-H0-T5 Linear<br><br><b>217</b><br>2-17W-T8 Linear*<br><br><b>317</b><br>3-17W-T8 Linear* | <b>BIAX</b><br>Twin Tube<br>Compact TT5<br><br><b>T5</b><br>Linear T5<br><br><b>H0-T5</b><br>Linear High<br>Output T5<br><br><b>OCT</b><br>Linear T8 | <b>ELB</b><br>TT5 Electronic Instant Start.<br>Up to 3-Lamps/Ballast.<br><br><b>ELBS</b><br>TT5 Electronic Rapid Start<br><10%THD. (Most Ballast/<br>Lamp Combinations.) Up to<br>3-Lamps/Ballast.<br><br><b>ELB</b><br>T5 Electronic Programmed<br>Start <10%THD. (Most Ballast/<br>Lamp Combinations.) Up to<br>2-Lamps/Ballast.<br><br><b>ELB</b><br>T8 Electronic Instant Start.<br>Up to 3-Lamps/Ballast.<br><br><b>ELBL</b><br>T8 Electronic Instant Start<br>Low Watt. Up to 3-Lamps/<br>Ballast.<br><br><b>ELBH</b><br>T8 Electronic Instant<br>Start High Light Output.<br>Up to 3-Lamps/Ballast.<br><br><b>ELBS</b><br>T8 Electronic Rapid Start<br><10%THD. (Most Ballast/<br>Lamp Combinations.)<br>Up to 3-Lamps/Ballast.<br><br><b>ELBD</b><br>T5, TT5, or T8 Electronic<br>Dimming, Lutron or<br>Advance as Specified.<br>Dedicated Voltage Only.<br><br><b>ELB-</b><br>T5, TT5, or T8 Electronic<br>As Specified. | <b>UNI</b><br>TT5 Universal Voltage,<br>Multi-Volt 120V-277V,<br>50HZ-60HZ. <10%THD.<br>(Most Ballast/Lamp<br>Combinations.)<br><br><b>UNI</b><br>T5 Universal Voltage,<br>Multi-Volt 120V-277V,<br>50HZ-60HZ. <10%THD.<br>(Most Ballast/Lamp<br>Combinations.)<br><br><b>UNI</b><br>T8 Universal Voltage,<br>Multi-Volt 120V-277V,<br>50HZ-60HZ. <10%THD.<br>(Most Ballast/Lamp<br>Combinations.)<br><br><b>120V</b><br>TT5, T5, T8 120V-60HZ.<br>All Dimming.<br><br><b>277V</b><br>TT5, T5, T8 277V-60HZ.<br>All Dimming. | <b>EMPK/I32</b><br>I-32 or Equal 450<br>Lumens. One 40W-TT5<br>or 17W-T8 Lamp.<br><br><b>EMPK/I48</b><br>I-48 or Equal 650<br>Lumens. One 40W-TT5,<br>50W-TT5, or 55W-TT5<br>Lamp. One or Two<br>17W-T8 Lamps.<br><br><b>EMPK/I320</b><br>I-320 or Equal 1125<br>Lumens. One 40W-TT5,<br>50W-TT5, or 55W-TT5<br>Lamp. One 14W-T5 or<br>24W-H0-T5 Lamp. One<br>or Two 17W-T8 Lamps.<br><br><b>EMPK/ISL28</b><br>ISL-28 or Equal 500<br>Lumens. One 14W-T5<br>or 24W-H0-T5 Lamp.<br><br><b>FLX</b><br>6Ft. Single Circuit<br>Power Flex.<br>(Specify Voltage).<br><br><b>FLX2</b><br>6Ft. 2-Circuit Power Flex.<br>(Specify Voltage).<br><br><b>2B</b><br>2-Ballasts, 2-Circuits.<br><br><b>DL</b><br>UL Damp Label.<br><br><b>L</b><br>Factory Lamps Installed,<br>Specify Color. Ex: L741 |

**\*NOTE:**  
T8 Lamping  
for Individual  
Mounting Only.  
Not Capable of  
End-To-End  
Continuous Runs.

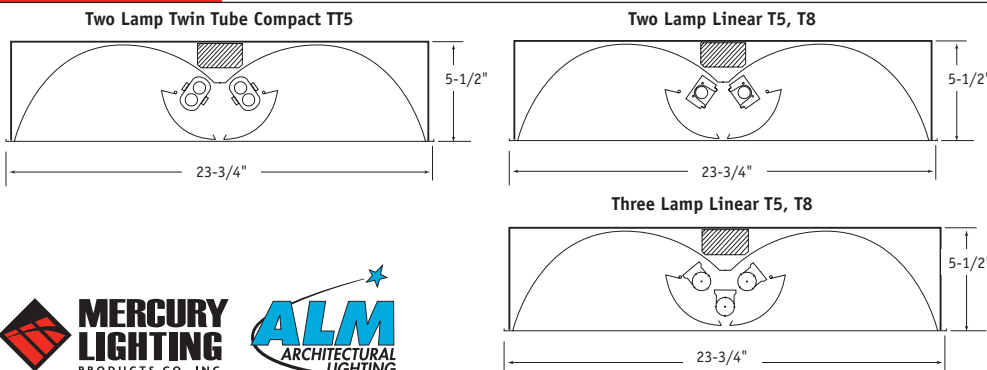
### PHOTOMETRICS:

ZBS-22G-240-BIAX-ELB-UNI

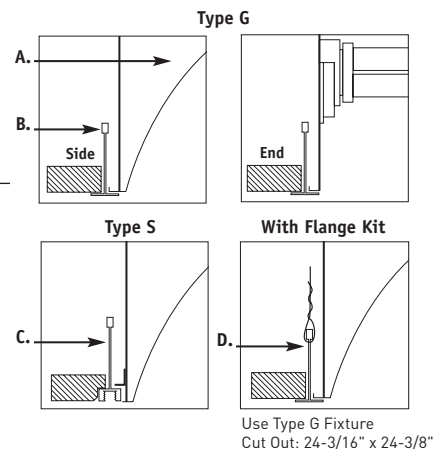
| LTL # 05578         |        | ZONAL CAVITY COEFFICIENTS OF UTILIZATION<br>EFFECTIVE FLOOR CAVITY REFLECTANCE=0.20 |       |                           |     |     |     |     |     |     |     | CANDLEPOWER DISTRIBUTION          |     |                                |     |     |     |     |     |     |     |
|---------------------|--------|-------------------------------------------------------------------------------------|-------|---------------------------|-----|-----|-----|-----|-----|-----|-----|-----------------------------------|-----|--------------------------------|-----|-----|-----|-----|-----|-----|-----|
| CEILING             | 80     | 70                                                                                  | 60    | 50                        | 40  | 30  | 20  | 10  | 0   | 180 | 165 | 150                               | 135 | 120                            | 105 | 90  | 75  | 60  | 45  | 30  | 15  |
| WALL                | 70     | 50                                                                                  | 30    | 10                        | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50                                | 30  | 10                             | 50  | 30  | 10  | 50  | 30  | 10  | 0   |
| FOOT                | 0      | .72                                                                                 | .72   | .72                       | .71 | .71 | .71 | .71 | .67 | .67 | .67 | .65                               | .65 | .65                            | .62 | .62 | .62 | .61 | .58 | .58 | .58 |
| 1                   | .66    | .64                                                                                 | .61   | .59                       | .65 | .62 | .60 | .58 | .60 | .58 | .56 | .57                               | .56 | .54                            | .55 | .54 | .53 | .52 | .50 | .48 | .46 |
| 2                   | .61    | .56                                                                                 | .52   | .48                       | .59 | .55 | .51 | .48 | .52 | .49 | .47 | .51                               | .48 | .46                            | .49 | .47 | .45 | .43 | .41 | .38 | .37 |
| 3                   | .55    | .49                                                                                 | .44   | .42                       | .54 | .48 | .44 | .40 | .46 | .43 | .40 | .45                               | .42 | .39                            | .43 | .41 | .38 | .37 | .35 | .33 | .31 |
| 4                   | .51    | .44                                                                                 | .38   | .34                       | .49 | .43 | .38 | .34 | .41 | .37 | .34 | .40                               | .36 | .33                            | .39 | .35 | .33 | .31 | .28 | .27 | .25 |
| 5                   | .46    | .38                                                                                 | .33   | .29                       | .45 | .38 | .33 | .29 | .36 | .32 | .28 | .35                               | .31 | .28                            | .34 | .31 | .28 | .27 | .25 | .23 | .21 |
| 6                   | .42    | .34                                                                                 | .29   | .25                       | .41 | .34 | .29 | .25 | .33 | .28 | .25 | .32                               | .27 | .24                            | .31 | .27 | .24 | .23 | .21 | .19 | .17 |
| 7                   | .39    | .31                                                                                 | .25   | .22                       | .38 | .30 | .25 | .21 | .29 | .25 | .21 | .28                               | .24 | .21                            | .28 | .24 | .21 | .20 | .18 | .16 | .14 |
| 8                   | .36    | .27                                                                                 | .22   | .19                       | .35 | .27 | .22 | .18 | .26 | .22 | .18 | .25                               | .21 | .18                            | .25 | .21 | .18 | .17 | .15 | .13 | .11 |
| 9                   | .33    | .25                                                                                 | .19   | .16                       | .32 | .24 | .19 | .16 | .23 | .19 | .16 | .23                               | .19 | .16                            | .22 | .18 | .16 | .14 | .12 | .10 | .08 |
| 10                  | .31    | .22                                                                                 | .17   | .14                       | .30 | .22 | .17 | .14 | .21 | .17 | .14 | .21                               | .17 | .14                            | .20 | .16 | .14 | .13 | .11 | .09 | .07 |
| ZONAL LUMEN SUMMARY |        | TOTAL LUMINAIRE EFFICIENCY: 60.7%                                                   |       |                           |     |     |     |     |     |     |     | TOTAL REFLECTANCE OF PAINT: 90.0% |     |                                |     |     |     |     |     |     |     |
| ZONE                | LUMENS | %LAMP                                                                               | %FXT  | CIE TYPE: DIRECT          |     |     |     |     |     |     |     |                                   |     | 0-DEG 90-DEG                   |     |     |     |     |     |     |     |
| 0-30                | 986    | 15.6                                                                                | 25.8  | SPACING CRITERIA: 1.2 1.4 |     |     |     |     |     |     |     |                                   |     | LUMINOUS LENGTH: 23.000 22.375 |     |     |     |     |     |     |     |
| 0-40                | 1630   | 25.9                                                                                | 42.6  |                           |     |     |     |     |     |     |     |                                   |     |                                |     |     |     |     |     |     |     |
| 0-60                | 2966   | 47.1                                                                                | 77.6  |                           |     |     |     |     |     |     |     |                                   |     |                                |     |     |     |     |     |     |     |
| 0-90                | 3823   | 60.7                                                                                | 100.0 |                           |     |     |     |     |     |     |     |                                   |     |                                |     |     |     |     |     |     |     |
| 90-180              | 0      | 0.0                                                                                 | 0.0   |                           |     |     |     |     |     |     |     |                                   |     |                                |     |     |     |     |     |     |     |
| 0-180               | 3823   | 60.7                                                                                | 100.0 |                           |     |     |     |     |     |     |     |                                   |     |                                |     |     |     |     |     |     |     |

Other reports available upon request.

### CROSS SECTIONS:



### CEILING DETAIL:



- A. Housing
- B. Type G Grid
- C. Type S Grid
- D. Flange Kit

