ZENITH IV
ZBL SERIES

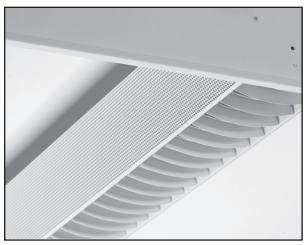
2X4 Center Hybrid Light Shield Indirect/Direct Luminaire

Fixture Type: _____

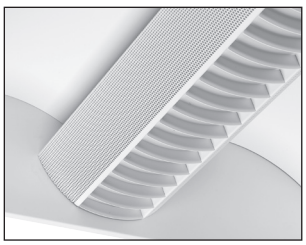
Job Information: _____

SPECIFICATIONS:

- Recessed 2X4 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 hybrid light shield, perforated sides with a straight cross blade louver down the center, 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.
- Housing: 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 support clips are located on the sides.
- Indirect reflector: Two-piece system is CAD designed to the optimum contour. 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.
- Center hybrid light shield: Die formed and fabricated using a combination of heavy gauge perforated steel for each side and standard cold rolled steel for the center cross blades. Integrated with internal white Mylar panels. Light shield is capable of swinging down for lamp access.
- Finish: A custom formulated non-glare white powder coating is applied to the reflector, light shield, and the housing after fabrication. Provides a reflectivity of at least 90%.
- T5 Lamps: Two or three 4Ft. linear fluorescent lamps; 28W-T5 or 54W-HO-T5.
- T8 Lamps: Two or three 4Ft. linear fluorescent lamps; 32W-T8. Others as specified.
- TT5 Lamps: Four twin-tube compact fluorescent lamps; 40W-TT5, 50W-TT5, or 55W-TT5.



Shield Detail



Shield Detail

- Ballasts T5: Electronic programmed start, normal light output, high power factor, THD less than 10%. Up to 2-lamps per 28W-T5 ballast. Up to 3-lamps per 54W-HO-T5 ballast.
- Ballasts T8: Electronic instant start, normal light output, high power factor, THD less that 10%. Up to 3-lamps per ballast. Optional T8 performances: rapid start circuit, high light output, or low-watt.
- Ballasts 40W-TT5: Electronic instant start, normal light output, high power factor, THD less that 10%. Up to 2-lamps per ballast. Optional performances: rapid start circuit.
- Ballasts 50W and 55W-TT5: Electronic programmed start, normal light output, high power factor, THD less that 10%. Up to 4-lamps per ballast.
- Voltage: Multi-volt operates a range from 120V-277V, 50HZ-60HZ. Dedicated voltages on request.
- Dimming: Lutron or Advance dimming ballasts as specified.
- Emergency battery backup: Integrated packs range from 500 up to 1400 lumen output. Varies with lamp type.
- Air return: Optional air return slots allow room air to be circulated back into plenum.
- Installations: 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.
- Electrical: A quick wiring access plate is located on back of the housing. Additional knockouts provided. Factory installed lamps and power whips as specified.
- 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.

MERCURY LIGHTING PRODUCTS CO. INC.

ALM ARCHITECTURAL LIGHTING

20 Audrey Place • Fairfield, NJ 07004 • Tel: 973.244.9444 • Fax: 973.244.9522
www.mercltg.com

ZBL SERIES 2X4 Center Cross Blade Louver Light Shield Indirect/Direct Luminaire

Fixture Type: _____

Job Information: _____

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

Example: ZBL-24G-A-254-HO-T5-ELB-UNI-EMPK/I320

ZBL							
Series	Module Size/Ceiling	Optional Air Return	No.of Lamps/ Wattage Ea. Lamp	Lamp Type	Ballast Type	Voltage	Misc.

ZBL
Zenith IV Center Hybrid Shield

24G
2X4 Module/NEMA Type G/Lay-in Grid, 1" or 9/16" Fine Line.

24S
2X4 Module/NEMA Type G/Lay-in Grid, 9/16" Screw-Slot/ Bolt-Slot.

FK-24
2X4 Flange Kit/ For NEMA Type F Applications. Order Separately. For Dry Wall Installations. Use with "G" Type Fixture.

Leave Blank for No Function

A
Air Return To Plenum

440
4-40W-TT5 Compact

450
4-50W-TT5 Compact

455
4-55W-TT5 Compact

228
2-28W-T5 Linear

254
2-54W-HO-T5 Linear

328
3-28W-T5 Linear

354
3-54W-HO-T5 Linear

232
2-32W-T8 Linear*

332
3-32W-T8 Linear*

___
As Specified.

BIAX
Twin Tube Compact TT5

T5
Linear T5

HO-T5
Linear High Output T5

OCT
Linear T8

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

ELB
40W-TT5 Electronic Instant Start.
Up to 2-Lamps/Ballast.

ELBS
40W-TT5 Electronic Rapid Start.
Up to 2-Lamps/Ballast.

ELB
50W or 55W-TT5 Electronic Programmed Start.
Up to 4-Lamps/Ballast.

ELB
T5 or HO-T5 Electronic Programmed Start.
Up to 2-Lamps/28W Ballast.
Up to 3-Lamps/54W-HO Ballast.

ELB
T8 Electronic Instant Start.
Up to 3-Lamps/Ballast.

ELBL
T8 Electronic Instant Start Low Watt.
Up to 3-Lamps/Ballast.

ELBH
T8 Electronic Instant Start High Light Output.
Up to 3-Lamps/Ballast.

ELBS
T8 Electronic Rapid Start.
Up to 3-Lamps/Ballast.

ELBD
TT5, T5, HO-T5 or T8 Electronic Dimming, Lutron or Advance as Specified.

ELB-___
TT5, T5, HO-T5, or T8 Electronic As Specified.

UNI
Universal Voltage, Multi-Volt 120V-277V, 50HZ-60HZ.

120V
Dedicated Voltage 120V-60HZ.

277V
Dedicated Voltage 277V-60HZ.

2B
2-Ballasts, 2-Circuits.

DL
UL Damp Label.

L____
Factory Lamps Installed, Specify Color. Ex: L741

EMPK/I32
I-32 or Equal 500 Lumens. One 40W-TT5, 28W-T5, or 32W-T8 Lamp.

EMPK/I48
I-48 or Equal 700 Lumens. One 40W-TT5, 50W-TT5, or 55W-TT5 Lamp. One or Two 32W-T8 Lamps.

EMPK/I320
I-320 or Equal 1350 Lumens. One 40W-TT5, 50W-TT5, or 55W-TT5 Lamp. One 28W-T5 or 54W-HO-T5 Lamp. One or Two 32W-T8 Lamps.

EMPK/I232
I-232 or Equal 1400 Lumens. Two 32W-T8 Lamps.

EMPK/ISL28
ISL-28 or Equal 500 Lumens. One 28W-T5 Lamp.

EMPK/ISL54
ISL-54 or Equal 825 Lumens. One 28W-T5 or 54W-HO-T5 Lamp.

EMPK/ISL540
ISL-540 or Equal 1300 Lumens. One 28W-T5 or 54W-HO-T5 Lamp.

FLX
6Ft. Single Circuit Power Flex. (Specify Voltage.)

FLX2
6Ft. 2-Circuit Power Flex. (Specify Voltage.)

PHOTOMETRICS:

ZBL-24G-440-BIAX-ELB-UNI

LTL # 05817 — ZONAL CAVITY COEFFICIENTS OF UTILIZATION EFFECTIVE FLOOR CAVITY REFLECTANCE=0.20

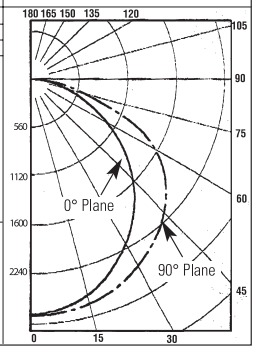
CEILING	80				70				50			30			10			0
WALL	.70	.50	.30	.10	.70	.50	.30	.10	.50	.30	.10	.50	.30	.10	.50	.30	.10	0
RCR																		
0	.78	.78	.78	.78	.76	.76	.76	.76	.73	.73	.73	.69	.69	.69	.67	.67	.67	.65
1	.71	.68	.66	.63	.70	.67	.64	.62	.64	.62	.60	.62	.60	.58	.59	.58	.57	.55
2	.65	.60	.55	.52	.63	.58	.54	.51	.56	.53	.50	.54	.51	.49	.52	.50	.48	.46
3	.59	.53	.47	.43	.58	.52	.47	.43	.50	.46	.42	.48	.44	.41	.46	.43	.41	.39
4	.54	.47	.41	.37	.53	.46	.40	.36	.44	.39	.36	.43	.39	.35	.41	.38	.35	.33
5	.49	.41	.35	.31	.48	.40	.35	.30	.39	.34	.30	.37	.33	.30	.36	.32	.29	.28
6	.45	.37	.31	.26	.44	.36	.30	.26	.35	.30	.26	.34	.29	.26	.33	.29	.25	.24
7	.42	.33	.27	.23	.41	.32	.27	.23	.31	.26	.22	.30	.26	.22	.29	.25	.22	.21
8	.38	.29	.24	.20	.37	.29	.23	.20	.28	.23	.19	.27	.23	.19	.26	.22	.19	.18
9	.35	.26	.21	.17	.34	.26	.20	.17	.25	.20	.17	.24	.20	.17	.24	.19	.16	.15
10	.33	.24	.18	.15	.32	.23	.18	.15	.23	.18	.15	.22	.18	.15	.21	.17	.15	.13

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0-30	2067	16.4	25.1
0-40	3431	27.2	41.7
0-60	6297	50.0	76.5
0-90	8229	65.3	100.0
90-180	0	0.0	0.0
0-180	8229	65.3	100.0

TOTAL LUMINAIRE EFFICIENCY: 65.3%
TOTAL REFLECTANCE OF PAINT: 91.7%
CIE TYPE: DIRECT
PLANE: 0-DEG 90-DEG
SPACING CRITERIA: 1.2 1.4
LUMINOUS LENGTH: 47.000 22.375

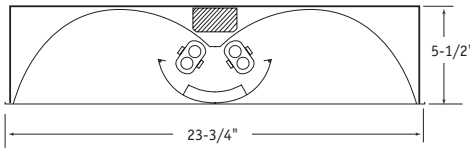
CANDLEPOWER DISTRIBUTION



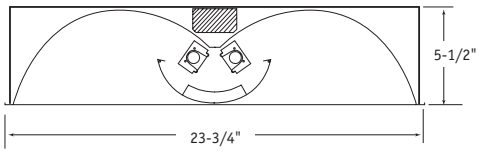
Other reports available upon request.

CROSS SECTIONS:

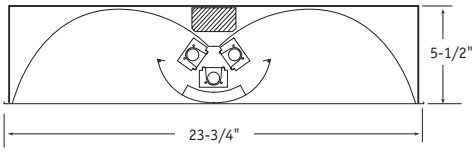
Four Lamp 2Ft. Twin Tube Compact TT5



Two Lamp 4Ft. Linear T5, T8

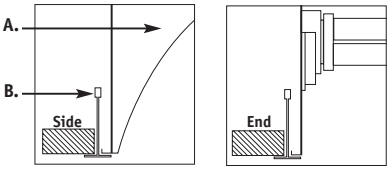


Three Lamp 4Ft. Linear T5, T8

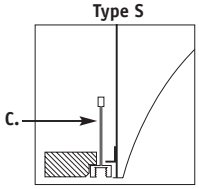


CEILING DETAIL:

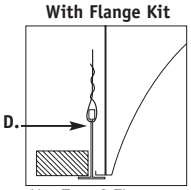
Type G



Type S



With Flange Kit



Use Type G Fixture
Cut Out: 24-3/16" x 48-3/8"

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

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SPECIFICATIONS SUBJECT TO CHANGE, CONSULT FACTORY WHEN CRITICAL.