

HIGH EFFICIENCY TROFFER – AIR RETURN

HET

1x4 | 2x2 | 2x4 T8



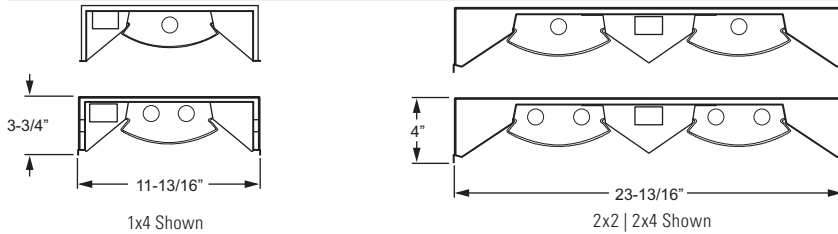
CATALOG #: _____ TYPE: _____

PROJECT: _____ NOTES: _____

EXAMPLE **HET G - AR 2 4 - 2 32 - A - OPTIONS - EB2 - UNV**

SERIES CEILING TYPE FIXTURE STYLE NOM. W. NOM. L. TOTAL LAMPS WATTAGE/TYPE SHIELDING OPTIONS BALLAST TYPE VOLTAGE

CROSS SECTION



FEATURES

- ▶ Black reveal minimizes appearance of dirt and dust resulting from air return function.
- ▶ Air return capability reduces number of unsightly ceiling vents for a cleaner appearance.
- ▶ Frosted acrylic diffusers combined with highly reflective matte white paint provides high optical efficiencies and visual comfort.
- ▶ One-piece diffusers eliminate the need for separate overlays.
- ▶ Attractive, energy efficient architectural fixture delivers comfortable, uniform lighting.
- ▶ Shallow fixture depth allows for use in limited plenum applications.
- ▶ Companion HET/HES products available in Surface Mount and Williams Downlighting Recessed Fluorescent sections.
- ▶ Tool-less access to electrical from room side of fixture.
- ▶ Integral T-bar clips quickly secure fixture to structure.
- ▶ This fixture is proudly made in the USA.

ORDERING INFORMATION

SERIES
HET High Efficiency Troffer–Air Return

CEILING TYPE
G NEMA Type "G"

FIXTURE STYLE
AR Air return only (through side slots)

NOMINAL WIDTH

| | |
|---|----|
| 1 | 1' |
| 2 | 2' |

NOMINAL LENGTH

| | |
|---|--------------------|
| 2 | 2' (2' width only) |
| 4 | 4' |

TOTAL LAMPS

| | |
|--------|---|
| 1 or 2 | (1x4) |
| 2 or 4 | (2x2 and 2x4; 4-lamp available with T5S only) |

LAMP WATTAGE/TYPE

2' LAMP OPTIONS:

| | |
|----|----------------|
| 17 | 2', 17-watt T8 |
|----|----------------|

4' LAMP OPTIONS:

| | |
|----|----------------|
| 32 | 4', 32-watt T8 |
|----|----------------|

SHIELDING
A Acrylic lens

OPTIONS
 See Technical Info for [generic EM ballast options](#) (must specify voltage).
EQCLIPS Earthquake clips (4 per fixture)

BALLAST TYPE
 See Technical Info for complete [ballast offering](#).

| | |
|--------------------|---|
| EB1 | 1-lamp electronic ballast |
| EBSD1*S50 | 1-lamp electronic ballast, step-dimming to 50% power |
| EB2 | 2-lamp electronic ballast |
| EBSD2*S50 | 2-lamp electronic ballast, step-dimming to 50% power |
| EB4 | 4-lamp electronic ballast |
| EB2/2 | (2) 2-lamp electronic ballasts |
| EBSD2/2*S50 | (2) 2-lamp electronic ballasts, step-dimming to 50% power |

VOLTAGE

| | |
|------------|----------|
| 120 | 120V |
| 277 | 277V |
| UNV | 120-277V |
| 347 | 347V |

T8

PHOTOMETRY – 2x4

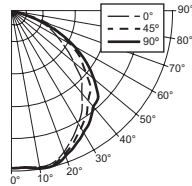
Catalog #: HETG-AR24-232-A

SPECIFICATIONS

Housing – 22-gauge die-formed C.R.S.
Shielding – Ribbed acrylic diffuser.
Finish – Highly reflective non-glare matte white polyester powder coat bonded to phosphate-free, multi-stage pretreated metal. All parts painted after fabrication to facilitate installation, increase efficiency, and inhibit corrosion.
Electrical – Electronic ballast standard, instant start T8, rated Class P.
Mounting – NEMA Type "G".
Labels – UL/CUL listed as recessed fluorescent luminaire suitable for dry or damp locations.

TEST REPORT INFORMATION

- ▶ Test Report #: 15490.0
- ▶ Date: 09/28/06
- ▶ Lamp Type: F32
- ▶ Lamp Quantity: 2



ZONAL CAVITY COEFFICIENTS

| | Ceiling | | | Wall | | | Floor | | |
|----|---------|------|------|------|------|------|-------|-----|-----|
| | .80 | .70 | .50 | .70 | .50 | .30 | .50 | .30 | .10 |
| 0 | 1.06 | 1.06 | 1.06 | 1.04 | 1.04 | 1.04 | .99 | .99 | .99 |
| 1 | .98 | .95 | .91 | .96 | .93 | .90 | .89 | .86 | .84 |
| 2 | .90 | .84 | .78 | .88 | .82 | .77 | .79 | .75 | .71 |
| 3 | .83 | .75 | .68 | .81 | .73 | .67 | .71 | .65 | .61 |
| 4 | .76 | .66 | .59 | .74 | .65 | .59 | .63 | .57 | .53 |
| 5 | .70 | .59 | .51 | .68 | .58 | .51 | .56 | .50 | .45 |
| 6 | .64 | .53 | .45 | .63 | .52 | .45 | .50 | .44 | .39 |
| 7 | .59 | .47 | .40 | .58 | .47 | .39 | .45 | .39 | .34 |
| 8 | .54 | .42 | .35 | .54 | .42 | .35 | .41 | .34 | .29 |
| 9 | .50 | .38 | .31 | .49 | .37 | .30 | .36 | .30 | .25 |
| 10 | .46 | .34 | .27 | .45 | .34 | .27 | .33 | .27 | .22 |

Effective Floor Cavity Reflectance = .20

CANDLEPOWER DISTRIBUTION

| Vertical Angle | Horizontal Angle | | | Zonal Lumens |
|----------------|------------------|-------|-------|--------------|
| | 0° | 45° | 90° | |
| 0 | 1880. | 1880. | 1880. | |
| 5 | 1881. | 1881. | 1883. | 179.6 |
| 15 | 1881. | 1899. | 1915. | 538.2 |
| 25 | 1684. | 1728. | 1773. | 799.8 |
| 35 | 1441. | 1530. | 1611. | 959.4 |
| 45 | 1165. | 1324. | 1455. | 1019.9 |
| 55 | 791. | 983. | 1097. | 865.3 |
| 65 | 484. | 650. | 616. | 591.8 |
| 75 | 230. | 269. | 202. | 261.3 |
| 85 | 52. | 33. | 24. | 40.6 |
| 90 | 0. | 0. | 0. | |

LUMEN SUMMARY

| Zone | Lumens | % Lamp | % Fixture |
|-------------------------|--------|--------|-----------|
| 0 - 30 | 1518. | 25.7 | 28.9 |
| 0 - 40 | 2477. | 42.0 | 47.1 |
| 0 - 60 | 4362. | 73.9 | 83.0 |
| 0 - 90 | 5256. | 89.1 | 100.0 |
| Total Luminaire: | | | |
| 0 - 180 | 5256. | 89.1 | 100.0 |

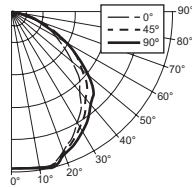
Total Luminaire Optical Efficiency: 89.1%
 Spacing Criteria: Across: 1.3
 Diagonal: 1.3
 End: 1.2

PHOTOMETRY – 1x4

Catalog #: HETG-AR14-132-A

TEST REPORT INFORMATION

- ▶ Test Report #: 15487.0
- ▶ Date: 09/27/06
- ▶ Lamp Type: F32
- ▶ Lamp Quantity: 1



ZONAL CAVITY COEFFICIENTS

| | Ceiling | | | Wall | | | Floor | | |
|----|---------|------|------|------|------|------|-------|-----|-----|
| | .80 | .70 | .50 | .70 | .50 | .30 | .50 | .30 | .10 |
| 0 | 1.07 | 1.07 | 1.07 | 1.05 | 1.05 | 1.05 | 1.0 | 1.0 | 1.0 |
| 1 | 1.0 | .96 | .93 | .97 | .94 | .91 | .90 | .88 | .85 |
| 2 | .92 | .85 | .80 | .90 | .84 | .79 | .81 | .76 | .73 |
| 3 | .85 | .76 | .70 | .82 | .75 | .69 | .72 | .67 | .63 |
| 4 | .78 | .68 | .61 | .76 | .67 | .60 | .65 | .59 | .54 |
| 5 | .71 | .60 | .53 | .69 | .59 | .52 | .58 | .51 | .46 |
| 6 | .66 | .54 | .47 | .64 | .53 | .46 | .52 | .45 | .41 |
| 7 | .60 | .49 | .41 | .59 | .48 | .41 | .47 | .40 | .35 |
| 8 | .56 | .44 | .36 | .54 | .43 | .36 | .42 | .35 | .31 |
| 9 | .51 | .39 | .32 | .50 | .39 | .32 | .38 | .31 | .27 |
| 10 | .47 | .36 | .28 | .46 | .35 | .28 | .34 | .28 | .24 |

Effective Floor Cavity Reflectance = .20

CANDLEPOWER DISTRIBUTION

| Vertical Angle | Horizontal Angle | | | Zonal Lumens |
|----------------|------------------|-------|-------|--------------|
| | 0° | 45° | 90° | |
| 0 | 990. | 990. | 990. | |
| 5 | 993. | 993. | 993. | 94.8 |
| 15 | 1000. | 1005. | 1015. | 285.3 |
| 25 | 884. | 905. | 925. | 418.7 |
| 35 | 758. | 800. | 835. | 501.1 |
| 45 | 600. | 670. | 730. | 517.3 |
| 55 | 407. | 497. | 519. | 429.3 |
| 65 | 247. | 304. | 266. | 277.8 |
| 75 | 117. | 119. | 84. | 118.1 |
| 85 | 23. | 9. | 7. | 13.9 |
| 90 | 0. | 0. | 0. | |

LUMEN SUMMARY

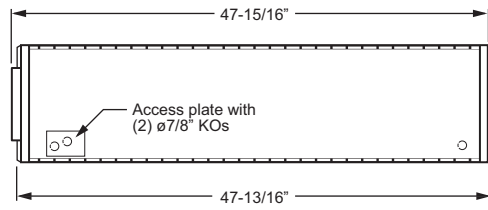
| Zone | Lumens | % Lamp | % Fixture |
|-------------------------|--------|--------|-----------|
| 0 - 30 | 799. | 27.1 | 30.1 |
| 0 - 40 | 1300. | 44.1 | 48.9 |
| 0 - 60 | 2246. | 76.2 | 84.6 |
| 0 - 90 | 2656. | 90.0 | 100.0 |
| Total Luminaire: | | | |
| 0 - 180 | 2656. | 90.0 | 100.0 |

Total Luminaire Optical Efficiency: 90.0%
 Spacing Criteria: Across: 1.3
 Diagonal: 1.3
 End: 1.2

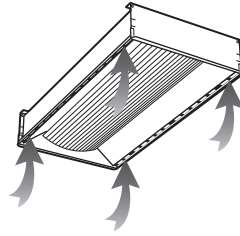
FIXTURE DETAIL

BACK VIEW

1x4



AIR RETURN



2x2 | 2x4

