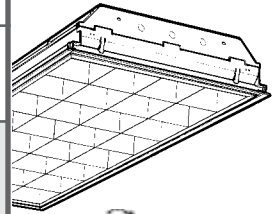


# PARABOLIC 3" LOUVER

# HE3

## 2x4



**LOUVER**  
Patented  
Inverted



|            |        |
|------------|--------|
| CATALOG #: | TYPE:  |
| PROJECT:   | NOTES: |

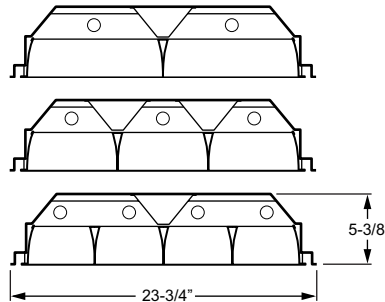
EXAMPLE

**HE3 G - D 2 4 - 3 32 - 36 S - OPTIONS - EB3 - UNV**

SERIES    CEILING TYPE    AIR FUNC.    NOM. W.    NOM. L.    TOTAL WATTAGE/ LAMPS    LOUVER CELLS    LOUVER FINISH    OPTIONS    BALLAST TYPE    VOLTAGE

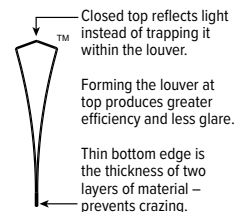
## FEATURES

- ▶ Patented, inverted louver design provides greater efficiency, crisp lines, and eliminates crazing at bottom edge of louver.
- ▶ Semi-specular, low-iridescent, anodized aluminum louver in choice of cell configuration ensures superior, enduring performance.
- ▶ Full 3" parabolic louver aids in glare reduction.
- ▶ Ballast secured by two captive bolts and nuts to ensure a tight, reliable fit for maximum heat dissipation.
- ▶ All parts painted after fabrication to facilitate installation, increase efficiency, and inhibit corrosion.
- ▶ This fixture is proudly made in the USA.



## SPECIFICATIONS

**Housing** – 22-gauge die-formed C.R.S.  
**Parabolic Louver** – Semi-specular, low-iridescent anodized aluminum with tab-and-slot construction. Patented (No. 5,678,922) inverted parabolic louver design.



**Door Frame** – Concealed 22-gauge C.R.S. frame with integral hinges and spring steel latches completely hidden in black reveal.  
**Finish** – 92% minimum average reflective white polyester powder coat bonded to phosphate-free, multi-stage pretreated metal.  
**Electrical** – Electronic ballast standard, instant start T8, program start T5, rated Class P.  
**Mounting** – NEMA Type "G" standard. NEMA Type "SS" (earthquake clips included) and NEMA Type "F" available.  
**Labels** – UL/CUL listed as recessed fluorescent luminaire suitable for dry or damp locations.

## ORDERING INFORMATION

**SERIES**  
**HE3** Parabolic 3" Louver

**CEILING TYPE**  
**G** NEMA Type "G"  
**F** NEMA Type "F"  
**SG** NEMA Type "SS" (earthquake clips included)

**AIR FUNCTION**  
 See back for air function details.  
**D** Static—no air capabilities—no heat extract through lamp cavity—no side slots  
**E** No heat extract through lamp cavity—supply/return air through side slots  
**F** Side slots for supply or return air and non-adjustable heat extract  
**G** Non-adjustable heat extract—no side slots in fixture housing  
**X** Side slots for supply or return air, non-adjustable heat extract, adjustable air pattern control vanes  
**Z** Side slots for supply or return air with adjustable air pattern control vanes—no heat extract capability

**NOMINAL WIDTH**  
**2** 2'

**NOMINAL LENGTH**  
**4** 4'

**TOTAL LAMPS**  
**2, 3, or 4**

**LAMP WATTAGE/TYPE**  
**28T5S** 4', 28-watt T5  
**32** 4', 32-watt T8  
**54T5H** 4', 54-watt T5HO

| LOUVER CELLS (Width x Length) |                | 3-LAMP OPTIONS |                |
|-------------------------------|----------------|----------------|----------------|
| <b>26</b>                     | 2 x 6, 12-cell | <b>36</b>      | 3 x 6, 18-cell |
| <b>27</b>                     | 2 x 7, 14-cell | <b>37</b>      | 3 x 7, 21-cell |
| <b>28</b>                     | 2 x 8, 16-cell | <b>38</b>      | 3 x 8, 24-cell |
| <b>46</b>                     | 4 x 6, 24-cell | <b>39</b>      | 3 x 9, 27-cell |
| <b>47</b>                     | 4 x 7, 28-cell |                |                |
| <b>48</b>                     | 4 x 8, 32-cell |                |                |

**LOUVER FINISH**  
**S** Semi-specular silver aluminum

**OPTIONS**  
 For generic EM ballast options (must specify voltage), see Information section.  
**CA<sup>1</sup>** Clear stippled acrylic overlay, .040" thick<sup>1</sup>  
**WA<sup>1</sup>** White acrylic overlay, .040" thick<sup>1</sup>  
**F338** 6', 3/8" flex, 3-conductor, No. 18 AWG (see Information section for wiring options)

**BALLAST TYPE**  
 See Information section for complete ballast offering.  
**EB2** 2-lamp electronic ballast  
**EB3** 3-lamp electronic ballast  
**EB4** 4-lamp electronic ballast  
**EB2/1** (1) 2-lamp and (1) 1-lamp electronic ballast  
**EB2/2** (2) 2-lamp electronic ballast

**VOLTAGE**  
**120** 120V  
**277** 277V  
**UNV** 120-277V  
**347** 347V

<sup>1</sup> Static (D) units only.

2x4

## PHOTOMETRY INFORMATION

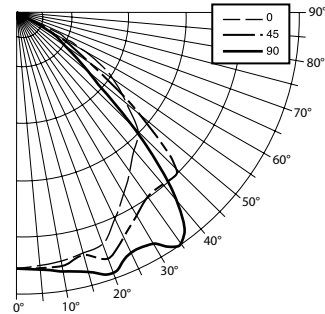
Catalog #: HE3G-D24-332-36S-EB3

### TEST REPORT INFORMATION

- ▶ Test Report#: 10164.0
- ▶ Date: 01/12/99
- ▶ Lamp Type: F32T8/835/RS
- ▶ Lamp Quantity: 3

### CANDLEPOWER DISTRIBUTION

| Vertical Angle | Horizontal Angle |       |       | Zonal Lumens |
|----------------|------------------|-------|-------|--------------|
|                | 0°               | 45°   | 90°   |              |
| 0°             | 2793.            | 2793. | 2793. |              |
| 5°             | 2773.            | 2792. | 2806. | 266.8        |
| 15°            | 2710.            | 2730. | 2922. | 792.8        |
| 25°            | 2482.            | 2705. | 2889. | 1246.9       |
| 35°            | 2113.            | 2448. | 3077. | 1593.7       |
| 45°            | 1855.            | 2446. | 1846. | 1621.6       |
| 55°            | 1299.            | 1025. | 681.  | 933.0        |
| 65°            | 412.             | 277.  | 189.  | 303.6        |
| 75°            | 49.              | 44.   | 42.   | 48.0         |
| 85°            | 12.              | 15.   | 12.   | 15.8         |
| 90°            | 0.               | 0.    | 0.    |              |



### LUMEN SUMMARY

| Zone   | Lumens | % Lamp | % Fixture |
|--|--------|--------|-----------|
| 0 - 30   | 2306.  | 26.1   | 33.8      |
| 0 - 40   | 3900.  | 44.1   | 57.2      |
| 0 - 60   | 6455.  | 72.9   | 94.6      |
| 0 - 90   | 6822.  | 77.1   | 100.0     |
| <b>Total Luminaire:</b>                          |        |        |           |
| 0 - 180  | 6822.  | 77.1   | 100.0     |
| Total Luminaire Optical Efficiency: <b>77.1%</b> |        |        |           |
| IES Spacing Criteria: End = 1.2                  |        |        |           |
| Across = 1.6                                     |        |        |           |

### ZONAL CAVITY COEFFICIENTS

| Room Cavity Ratio | Ceiling | .80 |     |     | .70 |     |     | .50 |     |     |
|-------------------|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                   | Wall    | .70 | .50 | .30 | .70 | .50 | .30 | .50 | .30 | .10 |
| 0                 | .92     | .92 | .92 | .90 | .90 | .90 | .86 | .86 | .86 |     |
| 1                 | .86     | .83 | .81 | .84 | .82 | .80 | .79 | .77 | .75 |     |
| 2                 | .81     | .76 | .72 | .79 | .74 | .71 | .72 | .69 | .66 |     |
| 3                 | .75     | .69 | .64 | .73 | .67 | .63 | .65 | .61 | .58 |     |
| 4                 | .69     | .62 | .56 | .68 | .61 | .56 | .59 | .55 | .51 |     |
| 5                 | .64     | .56 | .50 | .63 | .55 | .49 | .53 | .48 | .45 |     |
| 6                 | .59     | .50 | .44 | .58 | .50 | .44 | .48 | .43 | .39 |     |
| 7                 | .55     | .45 | .39 | .53 | .45 | .39 | .43 | .38 | .35 |     |
| 8                 | .50     | .40 | .34 | .49 | .40 | .34 | .39 | .34 | .30 |     |
| 9                 | .46     | .36 | .30 | .45 | .36 | .30 | .35 | .30 | .26 |     |
| 10                | .43     | .33 | .27 | .42 | .32 | .27 | .32 | .26 | .23 |     |

Effective Floor Cavity Reflectance = .20

### QUANTITY ESTIMATOR

| Room Size                 | ±40 fc. | ±60 fc. | ±80 fc. |
|---------------------------|---------|---------|---------|
| 15' x 15' (225 sq. ft.)   | 4       | 5       | 6       |
| 30' x 30' (900 sq. ft.)   | 9       | 12      | 16      |
| 50' x 50' (2,500 sq. ft.) | 20      | 30      | 36      |

Calculations based on standard reflectance of 80/50/20 and a light loss factor of .85 with a 9'-0" ceiling height.

## FIXTURE DETAILS

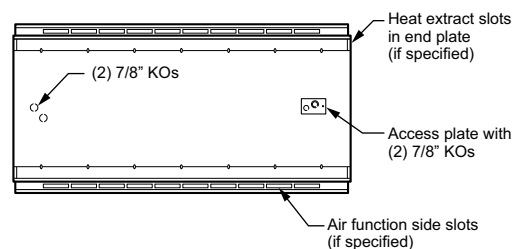
### PARABOLIC AIR FUNCTIONS

### AIR FUNCTION CODE

|                                |  |  |
|--------------------------------|--|--|
| <b>TYPE D</b>                  |  | Static, no air capabilities.   |
| <b>TYPE F</b><br><b>TYPE X</b> |  | Side slots for supply or return air and non-adjustable heat extract. Type X available with adjustable air control vanes. |
| <b>TYPE G</b>                  |  | No side slots in fixture housing, non-adjustable heat extract.   |
| <b>TYPE E</b><br><b>TYPE Z</b> |  | Side slots for supply or return air, no heat extract capability. Type Z has adjustable air pattern control vanes.        |

- "D" style static fixtures are UL listed as recessed fluorescent fixture suitable for dry or damp locations.
- All air handling styles are UL listed as recessed fluorescent fixture suitable for air handling use, for dry locations only.
- Select air function required from table. If function other than style "D" is required, change letter prefix to required function. (Example: If unit with supply/return air through side slots with adjustable air pattern control vane and non-adjustable heat extract through lamp cavity required, change "D" to "X" = HE3G-X24-432-48S).
- All of the air functions have full floating louver effect with black reveal around the entire perimeter of the louver.

### BACK VIEW



## INSTALLATION DETAILS

**NEMA Type "F"** – Overall trim dimensions: 25-5/16" x 49-5/16". For individual mounting recommended ceiling opening: 24-3/8" x 48-3/8". For continuous row mounting, add 49-5/16" for each additional fixture to obtain ceiling opening. 1-5/16" between end plates. Swing-out bracket vertical adjust: 1-1/4" minimum to 4-3/8" maximum.

**NEMA Type "SS" 9/16" wide slot grid** – Bottom of louver is 5/16" below bottom of fixture housing and is flush with the ceiling plane.

