| Catalog Number | Type |
|---|---|
| | |

Narrow Aperture Troffer

# NAT

12" wide

2', 3' or 4' length
1 or 2 lamps

## FEATURES

- Narrow 12" wide housing adds architectural detailing to ceiling plane.
- NAT models available as complete units in 2', 3' and 4' lengths. Companion CNAT and TCNAT models feature continuous shielding in rows.
- Wide selection of lay-in, lift-and-shift shielding, including anodized aluminum parabolic louvers in 2" or 1½" depth.
- Flat shielding may be lay-in without door frame or lay-in with aluminum door frame. Regressed or flush appearance available.
- Static, no reveal.
- Compatible with most ceiling types.
- Guaranteed for one year against mechanical defects in manufacture.

## SPECIFICATIONS

BALLAST — Thermally protected, resetting, Class P, HPF, non-PCB, UL listed, CSA certified, standard. Energy-saving and electronic ballasts are sound-rated A. Standard combinations are CBM approved and conform to UL 935.

WIRING & ELECTRICAL — Fixture conforms to UL 1570 and is suitable for damp locations. AWM, TFN or THHN wire used throughout, rated for required temperatures.

MATERIALS — Housing formed from cold-rolled steel. Louvers formed from anodized aluminum. No asbestos is used in this product.

FINISH — Five-stage iron-phosphate pretreatment ensures superior paint adhesion and rust resistance. Painted parts finished with high-gloss, baked white enamel.

LISTING — UL listed and labeled. Listed and labeled to comply with Canadian and Mexican standards (see options).

Specifications subject to change without notice.

## PHOTOMETRICS

Calculated using the zonal cavity method in accordance with IESNA LM41 procedure. Floor reflectances are 20%. Lamp configurations shown are typical. Full photometric data on these and other configurations available upon request.

**NAT/CNAT 2 40 203LD**

**Report LTL 5209**

**S/MH (along) 1.2 (across) 1.5**

**Coefficient of Utilization**

| Ceiling | 80% | | | 70% | | | 50% | | |
|---|---|---|---|---|---|---|---|---|---|
| Wall | 70% | 50% | 30% | 70% | 50% | 30% | 50% | 30% | 10% |
| 1 | 66 | 64 | 62 | 65 | 63 | 61 | 60 | 59 | 58 |
| 2 | 62 | 58 | 55 | 60 | 57 | 54 | 55 | 52 | 50 |
| 3 | 57 | 52 | 48 | 56 | 51 | 47 | 49 | 46 | 44 |
| 4 | 53 | 47 | 42 | 51 | 46 | 42 | 44 | 41 | 38 |
| 5 | 48 | 42 | 37 | 47 | 41 | 36 | 40 | 36 | 33 |
| 10 | 32 | 24 | 19 | 31 | 24 | 19 | 23 | 19 | 16 |

**Zonal Lumens Summary**

| Zone | Lumens | %Lamp | %Fixture |
|---|---|---|---|
| 0-30 | 1154 | 18.3 | 30.8 |
| 0-40 | 1933 | 30.7 | 51.6 |
| 0-60 | 3462 | 55.0 | 92.4 |
| 0-90 | 3747 | 59.5 | 100.0 |
| 90-180 | 0 | 0.0 | 0.0 |
| 0-180 | 3747 | 59.5 | 100.0 |

**NAT/CNAT 2 32 203LD**

**Report LTL 5203**

**S/MH (along) 1.2 (across) 1.5**

**Coefficient of Utilization**

| Ceiling | 80% | | | 70% | | | 50% | | |
|---|---|---|---|---|---|---|---|---|---|
| Wall | 70% | 50% | 30% | 70% | 50% | 30% | 50% | 30% | 10% |
| 1 | 71 | 69 | 66 | 69 | 67 | 65 | 64 | 63 | 62 |
| 2 | 66 | 62 | 58 | 64 | 61 | 57 | 58 | 56 | 53 |
| 3 | 61 | 55 | 51 | 60 | 54 | 51 | 53 | 49 | 47 |
| 4 | 56 | 50 | 45 | 55 | 49 | 44 | 47 | 43 | 40 |
| 5 | 52 | 44 | 39 | 50 | 44 | 39 | 42 | 38 | 35 |
| 10 | 34 | 26 | 21 | 33 | 25 | 20 | 25 | 20 | 17 |

**Zonal Lumens Summary**

| Zone | Lumens | %Lamp | %Fixture |
|---|---|---|---|
| 0-30 | 1125 | 19.4 | 30.5 |
| 0-40 | 1885 | 32.5 | 51.1 |
| 0-60 | 3405 | 58.7 | 92.2 |
| 0-90 | 3692 | 63.7 | 100.0 |
| 90-180 | 0 | 0.0 | 0.0 |
| 0-180 | 3692 | 63.7 | 100.0 |

# NAT 12" wide

## MOUNTING DATA

| Ceiling Type | Appropriate Trim Type |
|---|---|
| Exposed grid tee, concealed grid tee or screw slot | G, GF[1], GF1 |
| Concealed Z-spline | F |
| Acoustical tile, plaster or plasterboard on rigid support parallel to lamps | F[2] |

With lift and shift louver

With yoke hanger and lift and shift lens

[1] GF trim requires LATC clips (provided standard). Ceiling grid supports fixture end. Flange trim supports ceiling tile along length of fixture.

[2] Recommended rough-in dimension for F trim fixtures: Nominal fixture length by 12-1/8" (Tolerance is +1/4", -0").

## DIMENSIONS

Inches (centimeters)
Subject to change without notice.

LATC INSTALLATION
G TRIM

## ORDERING INFORMATION

Example: **NAT F 1 32 203LD 120 GEB**

### Series

**NAT** 12" wide, unit shielding.

### Mounting

- **G** Lay-in grid
- **F** Flanged
- **GF** Grid ends, flanged sides support ceiling tile.
- **GF1** Grid trim ends and one grid side, one flange side to support ceiling tile.

### Number of Lamps

**1, 2**
Not included.

### Lamp Type

- **17** 17W T8 (24")
- **20** 20W T12 TS (24")
- **25** 25W T8 (36")
- **30** 30W T12 (36")
- **32** 32W T8 (48")
- **40** 40W T12 (48")

### *Row Information for Flanged Mounting Only*

*(Add suffix to catalog number)*

- **CRE** Trim for continuous row end. Used when continuous appearance of shielding is desired. Two required per row.
- **CRM** Trim for continuous row middle. Used when continuous appearance of shielding is desired. Quantity per row is number of fixtures in row less two CRE.

### Voltage

**120, 277, 347**
Others available.

### Options

- **ES** Energy-saving ballasts (2-30W, 1-40W and 2-40W only)
- **GEB** Electronic ballasts, ≤20% THD
- **GEB10** Electronic ballasts, ≤10% THD
- **EL** Emergency battery pack (nominal 500 lumens)
- **EL11** Emergency battery pack (nominal 1100 lumens)
- **GLR** Internal fast-blow fuse (add **X** for external)
- **GMF** Internal slow-blow fuse (add **X** for external)
- **RIF1** Radio interference filter, 1 per fixture
- **RIF2** Radio interference filter, 1 per ballast
- **CSA** Listed and labeled to comply with Canadian standards.
- **NOM** Listed and labeled to comply with Mexican standards.

### Louver Depth

- **15** 1.5" louver
- **20** 2" louver

### Louver Blade Spacing

- **2** 2" center-to-center (1.5" louver depth only)
- **3** 3" center-to-center

### Louver Finish

- **LD** Low iridescent semi-specular silver
- **LS** Low iridescent specular silver
- **G** Specular gold
- **C** Champagne gold
- **W** White enamel

**or**

### Door Type

Door frame optional. Diffusers may be framed or unframed.

- **(Blank)** No frame, lay-in shielding
- **FW** Flush white aluminum
- **FN** Flush natural aluminum
- **FM** Flush black aluminum
- **RW** Regressed white aluminum
- **RN** Regressed natural aluminum
- **RM** Regressed black aluminum

### Diffuser Type

- **A12** #12 pattern acrylic
- **A19** #19 pattern acrylic, .156" thick
- **PC1S** Plastic cube louver, ½" x ½" x ½", silver

### Number of Louver Cells

| Lamp Length | 2" Spacing | 3" Spacing |
|---|---|---|
| 24" | 12 | 8 |
| 36" | 18 | 12 |
| 48" | 24 | 16 |



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