Product Description

The T7C is a spec-grade Troffer that will exceed quality and performance for most commercial spaces. The T7C LED Troffer features a pre-mounted driver and a maintenance-free, fully sealed chamber with a seamless aluminum frame to keep bugs and dust out. The fixture utilizes a precision-engineered, textured diffuser to deliver maximum lumen output and optimal uniformity without revealing hot spots or shadowing. Available in 3500K, 4000K, and 5000K correlated color temperatures (CCT). Now with DLC 5.1 Premium certification, ensuring top of the line quality and performance. The T7C is the perfect lighting solution for offices, hospitals, and other commercial spaces.

Construction

- Extruded aluminum frame with powder coat finish
- Durable stamped housing
- High efficiency, maintenance-free LED chamber
- Smooth formed sides for safe handling

Optical System

- Internal bat-wing distribution lenses
- High reflectivity internal coating
- Precision engineered polystyrene diffuser
- No visible diodes, hot-spots, or shadows providing high uniformity, and reduced glare
 80 CRI for good color definition in public places

Electrical

- Input voltage of 120-277VAC
- Full-range dimming via 1-10VDC controls
- Power factor > 0.9
- THD < 20%
- Luminaire surge protection level designed to withstand up to 2.5kV ring wave per ANSI C82.77-5-2017 requirements for Indoor Hard-wired and Indoor Portable Luminaires
- Operating temperature range: 4°F to 104°F (-20°C to 40°C)

Controls

- NLC (Network Lighting Controls) option available
- Bluetooth Low Energy (BLE) mesh network providing Luminaire Level Lighting Control
- Luminaire integrated BLE PIR/Daylight sensor (N1) available
- Configurable with the NICOR NLC app available on iOS and Android devices
- Provides full dimming control with occupancy and daylight harvesting functions

Mounting and installation

- · Single cover plate with access to both line and low voltage connections
- Emergency battery backup available
- Integral grid tie clips with wire holes provided for seismic requirements
- Surface mount installation with an optional adapter
- Drywall installation with an optional adaptor
- For installations where power surge may be possible, NICOR recommends installing additional surge protection at the fixture or electrical distribution panel

Listings

- cULus 1598 Listed for damp locations
- · Certified for direct contact with insulation (IC)
- DLC 5.1 Premium
- RoHS Compliant
- Meets FCC Part 15, Subpart B, Class A standards for conducted and radiated emissions
- TM-21 Reported L70(9k) life >54,000 hours
- LM-79, LM-80 testing performed in accordance with IESNA standards

Warranty

- 5-year limited system warranty standard
- Warranty does not cover product failure due to an overvoltage event (power surge.)

T7C 1x4, 2x2, 2x4 LED Backlit Troffer





Project

Catalog

Туре

Date

Ordering

| Ordering Informati | on | | Example: T7C22HU40 | | |
|--------------------|--------------------|----------------------|--------------------|-------------------|--------------------|
| Series | Size | Voltage | CCT's | Controls | EM (Optional) |
| ттс | 14 (1 x 4) | HU (120-277V) | 35 (3500 K) | Blank (none) | E1 (EMB045) |
| | 22 (2 x 2) | | 40 (4000 K) | N1 (NLC Controls) | E2 (EMB080) |
| | 24 (2 x 4) | | 50 (5000 K) | | |

Specifications and dimensions subject to change without notice.

| Accessories | |
|--|-----------|
| Surface Mount Kit - 1x4 | TPE10SK14 |
| Surface Mount Kit for use with E1/E2 - 1x4 | SK14M10WH |
| Flange Kit - 1x4 | TPE10FK14 |
| Surface Mount Kit - 2x2 | TPE10SK22 |
| Surface Mount Kit for use with E1/E2 - 2x2 | SK22M10WH |
| Flange Kit - 2x2 | TPE10FK22 |
| Surface Mount Kit - 2x4 | TPE10SK24 |
| Surface Mount Kit for use with E1/E2 - 2x4 | SK24M10WH |
| Flange Kit - 2x4 | TPE10FK24 |

Recommended Dimmers* Lutron NTSTV Lutron DVSTV Cooper SF10P Legrand RH4FBL3PW *Not a complete list. Check compatibility before installation.

NLC Controls

See www.nicorlighting/network-lighting-controls for more information and NLC Component Data Sheets



Performance Data

| | Performance Data | | | EM Pack Perf | ormance Data | |
|-------|------------------|--------|-------|--------------|--------------|-----------|
| Model | Nominal CCT | Lumens | Watts | Efficiency | E1 Lumens | E2 Lumens |
| | 3500 | 3558 | | 129.9 | 584 | 1039 |
| T7C14 | 4000 | 3590 | 27.4 | 131.0 | 590 | 1048 |
| | 5000 | 3618 | | 132.1 | 594 | 1056 |
| | 3500 | 4494 | | 129.9 | 584 | 1039 |
| T7C22 | 4000 | 4525 | 34.6 | 130.8 | 589 | 1046 |
| | 5000 | 4557 | | 131.7 | 593 | 1054 |
| | 3500 | 5638 | | 122.0 | 549 | 976 |
| T7C24 | 4000 | 5689 | 46.2 | 123.1 | 554 | 985 |
| | 5000 | 5734 | | 124.1 | 558 | 993 |

Photometric Data

T7C14 3500K

| Input Voltage (VAC) | 120-2 |
|-----------------------------|-------|
| System Level Power (W) | 27.4 |
| Delivered Lumens (Lm) | 3558 |
| System Efficacy (Lm/W) | 129. |
| Correlated Color Temp (K) | 348 |
| Color Rendering Index (CRI) | 84 |
| Beam Angle (0) | 112 |
| Beam Angle (90) | 113 |
| Spacing Criteria (0) | 1.28 |
| Spacing Criteria (90) | 1.28 |
| | |





Photometric Data

T7C22 3500K

| Input Voltage (VAC) | 120-277 |
|-----------------------------|---------|
| System Level Power (W) | 34.6 |
| Delivered Lumens (Lm) | 4494 |
| System Efficacy (Lm/W) | 129.9 |
| Correlated Color Temp (K) | 3512 |
| Color Rendering Index (CRI) | 83 |
| Beam Angle (0) | 112.2 |
| Beam Angle (90) | 113.3 |
| Spacing Criteria (0) | 1.26 |
| Spacing Criteria (90) | 1.26 |
| | |



| Cone | of Light Tabulati | on |
|------------------|-------------------|----------|
| Mounted height | Footcandles | Diameter |
| (Feet) | Beam Center | (Feet) |
| 8 | 24.4 | 23.8 |
| 10 | 15.6 | 29.8 |
| 12 | 10.8 | 35.7 |
| 14 | 7.9 | 41.7 |
| | | |
| CCT Data Multipl | ier | |

4000K 1.007 5000K 1.014

Fixture tested per LM-79-08. Photometric data is of the performance of a representative fixture. Results may vary in the field.

T7C24 3500K

| Input Voltage (VAC) | 120-277 |
|-----------------------------|---------|
| System Level Power (W) | 46.2 |
| Delivered Lumens (Lm) | 5638 |
| System Efficacy (Lm/W) | 122.0 |
| Correlated Color Temp (K) | 3495 |
| Color Rendering Index (CRI) | 83 |
| Beam Angle (0) | 112.4 |
| Beam Angle (90) | 112.7 |
| Spacing Criteria (0) | 1.28 |
| Spacing Criteria (90) | 1.26 |



| Cone of Light Tabulation | | | | | |
|--------------------------|-------------|----------|--|--|--|
| Mounted height | Footcandles | Diameter | | | |
| (Feet) | Beam Center | (Feet) | | | |
| 8 | 30.6 | 23.9 | | | |
| 10 | 19.6 | 29.9 | | | |
| 12 | 13.6 | 35.9 | | | |
| 14 | 10.0 | 41.8 | | | |
| CCT Data Multip | lier | | | | |
| 4000K 1 | .009 | | | | |

4000K 1.009 5000K 1.017

Fixture tested per LM-79-08. Photometric data is of the performance of a representative fixture. Results may vary in the field.

Dimensions

| | T7C14 | T7C22 | T7C24 | |
|--------|-----------------|----------------|-----------------|--|
| Length | 47.75" (1213mm) | 23.74" (603mm) | 47.75″ (1213mm) | |
| Width | 11.93" (303mm) | 23.74" (603mm) | 23.74" (603) | |
| Height | 2.23" (56mm) | | | |



This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.



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