

# TAC Select

## Select Architectural LED Troffer

### Product Description

The TACS Select Architectural LED Troffer is an economical lighting solution for commercial, educational, medical, and retail applications where general-purpose ambient lighting is required. With its contemporary center lens design, TACS provides a soft natural glow and even illumination that minimizes glare. The CCT Selectable design allows for easy adjustment to 3500K, 4000K, or 5000K and selectable wattage allows the ability to tailor the brightness to the space. Available in 2x2, or 2x4 configurations, the TACS is an easy-to-install upgrade from linear fluorescent lighting to a long-lasting, energy-efficient LED solution.

- Construction**
- Durable steel construction with matte white powder coat finish
  - High efficiency, maintenance-free LED chamber
  - Smooth formed sides for safe handling

- Optical System**
- Precision engineered polycarbonate (PC) diffuser
  - No visible diodes, hot-spots, or shadows providing high uniformity, and reduced glare
  - 80CRI for good color definition in public spaces

- Electrical**
- Input voltage of 120-277VAC
  - CCT and Output selector switches accessible on junction box
  - Full-range dimming via 0-10VDC (dim-to-off) controls
  - Power factor > 0.9
  - THD < 20%
  - Operating tempature range: -4°F to 104°F (-20° to 40°C)

- Mounting and installation**
- Quick and easy single person installation
  - Attached grid clip with wire-tie hole provided for seismic wire
  - Surface mount installation with an optional adapter
  - Drywall installation with an optional adaptor
  - Emergency battery backup available
  - For installations where power surge may be possible, NICOR recommends installing additional surge protection at the fixture or electrical distribution panel

- Listings**
- cULus1598 Listed for damp locations
  - Certified for direct contact with insulation (IC)
  - DLC 5.1 Standard listed
  - 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

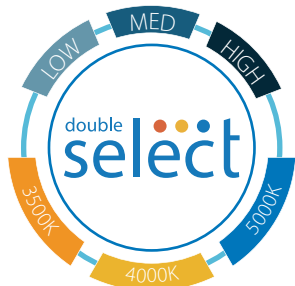
- Warranty**
- 5-year limited system warranty standard
  - Warranty does not cover product failure due to an overvoltage event (power surge.)

Project

Catalog

Type

Date



**TACS3**  
**LED Architectural Troffer**  
2x2, 2x4  
Selectable Wattage  
Selectable CCT



## Ordering

### Ordering Information

Example: TACS324U8

| Series | CCT                   | Version | Size         | Voltage      | CRI     | Emergency   |
|--------|-----------------------|---------|--------------|--------------|---------|-------------|
| TAC    | S (Select: 35/40/50K) | 3       | 22 (2' x 2') | U (120-277V) | 8 (>80) | <BLANK>     |
|        |                       |         | 24 (2' x 4') |              |         | E1 (EMB045) |
|        |                       |         |              |              |         | E2 (EMB080) |

Specifications and dimensions subject to change without notice.

### Accessories

|                   |           |
|-------------------|-----------|
| Flange Kit - 2x2  | TPE10FK22 |
| Flange Kit - 2x4  | TPE10FK24 |
| Surface Kit - 2x2 | SK22M10WH |
| Surface Kit - 2x4 | SK24M10WH |

### Recommended Dimmers\*

Lutron NTSTV  
Leviton IP710  
Cooper SF10P  
Legrand RH4FBL3PW

\*Not a complete list. Check compatibility before installation.

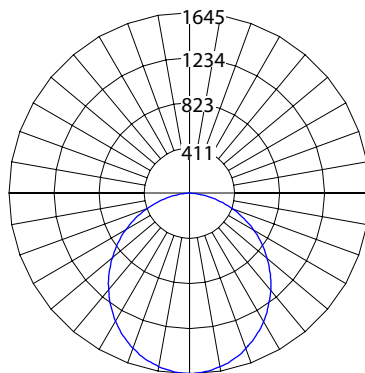
## Performance Data

| Performance Data |                |             |        |       |            | Emergency Pack Performance Data |           |
|------------------|----------------|-------------|--------|-------|------------|---------------------------------|-----------|
| Model            | Output Setting | Nominal CCT | Lumens | Watts | Efficiency | E1 Lumens                       | E2 Lumens |
| TACS322          | 20W            | 3500        | 2408   | 19.5  | 123.4      | 555                             | 987       |
|                  |                | 4000        | 2587   | 18.6  | 139.4      | 627                             | 1115      |
|                  |                | 5000        | 2403   | 19.4  | 124.1      | 558                             | 993       |
|                  | 30W            | 3500        | 3612   | 29.2  | 123.8      | 557                             | 990       |
|                  |                | 4000        | 3883   | 27.7  | 139.9      | 630                             | 1119      |
|                  |                | 5000        | 3602   | 29.0  | 124.4      | 560                             | 995       |
|                  | 40W            | 3500        | 4835   | 38.8  | 124.6      | 561                             | 997       |
|                  |                | 4000        | 5198   | 36.9  | 140.7      | 633                             | 1126      |
|                  |                | 5000        | 4822   | 38.5  | 125.3      | 564                             | 1002      |
| TACS324          | 30W            | 3500        | 3599   | 30.4  | 118.4      | 533                             | 947       |
|                  |                | 4000        | 3942   | 28.6  | 137.9      | 621                             | 1103      |
|                  |                | 5000        | 3687   | 30.2  | 122.0      | 549                             | 976       |
|                  | 40W            | 3500        | 4753   | 40.2  | 118.3      | 532                             | 947       |
|                  |                | 4000        | 5256   | 37.8  | 139.1      | 626                             | 1113      |
|                  |                | 5000        | 4916   | 39.9  | 123.1      | 554                             | 985       |
|                  | 50W            | 3500        | 5978   | 50.4  | 118.7      | 534                             | 950       |
|                  |                | 4000        | 6569   | 47.4  | 138.7      | 624                             | 1110      |
|                  |                | 5000        | 6148   | 50.1  | 122.8      | 553                             | 982       |

# Photometric Data

## TACS322 3500K, 40W

|                             |         |
|-----------------------------|---------|
| Input Voltage (VAC)         | 120-277 |
| System Level Power (W)      | 38.8    |
| Delivered Lumens (Lm)       | 4835    |
| System Efficacy (Lm/W)      | 124.6   |
| Correlated Color Temp (K)   | 3547    |
| Color Rendering Index (CRI) | 85      |
| Beam Angle (0)              | 118.5   |
| Beam Angle (90)             | 107.5   |
| Spacing Criteria (0)        | 1.24    |
| Spacing Criteria (90)       | 1.28    |



| Data Multiplier |       |       |       |
|-----------------|-------|-------|-------|
| TACS322U8       |       |       |       |
|                 | 35K   | 40K   | 50K   |
| 20W             | 0.498 | 0.535 | 0.497 |
| 30W             | 0.747 | 0.803 | 0.745 |
| 40W             | 1.000 | 1.075 | 0.997 |

### Cone of Light Tabulation

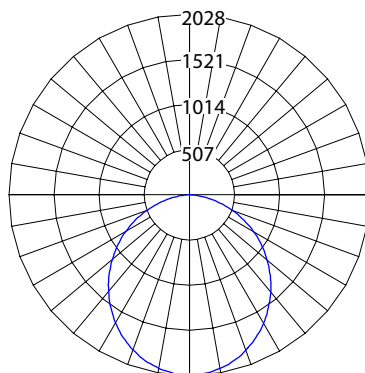
| Mounted height<br>(Feet) | Footcandles<br>Beam Center | Diameter<br>(Feet) |
|--------------------------|----------------------------|--------------------|
| 8                        | 25.6                       | 26.9               |
| 10                       | 16.4                       | 33.6               |
| 12                       | 11.4                       | 40.3               |
| 14                       | 8.3                        | 47.1               |

### Zonal Lumen Summary

| Zone   | Lumens | % of Luminaire |
|--------|--------|----------------|
| 0-30   | 1267   | 26.5%          |
| 0-40   | 2070   | 43.3%          |
| 0-60   | 3664   | 76.6%          |
| 0-90   | 4781   | 100%           |
| 90-180 | 0      | 0%             |
| 0-180  | 4781   | 100%           |

## TACS324 3500K, 50W

|                             |         |
|-----------------------------|---------|
| Input Voltage (VAC)         | 120-277 |
| System Level Power (W)      | 50.4    |
| Delivered Lumens (Lm)       | 5978    |
| System Efficacy (Lm/W)      | 118.6   |
| Correlated Color Temp (K)   | 3502    |
| Color Rendering Index (CRI) | 84      |
| Beam Angle (0)              | 118.7   |
| Beam Angle (90)             | 109.3   |
| Spacing Criteria (0)        | 1.24    |
| Spacing Criteria (90)       | 1.28    |



| Data Multiplier |       |       |       |
|-----------------|-------|-------|-------|
| TAC324U8        |       |       |       |
|                 | 35K   | 40K   | 50K   |
| 30W             | 0.602 | 0.659 | 0.617 |
| 40W             | 0.795 | 0.879 | 0.822 |
| 50W             | 1.000 | 1.099 | 1.028 |

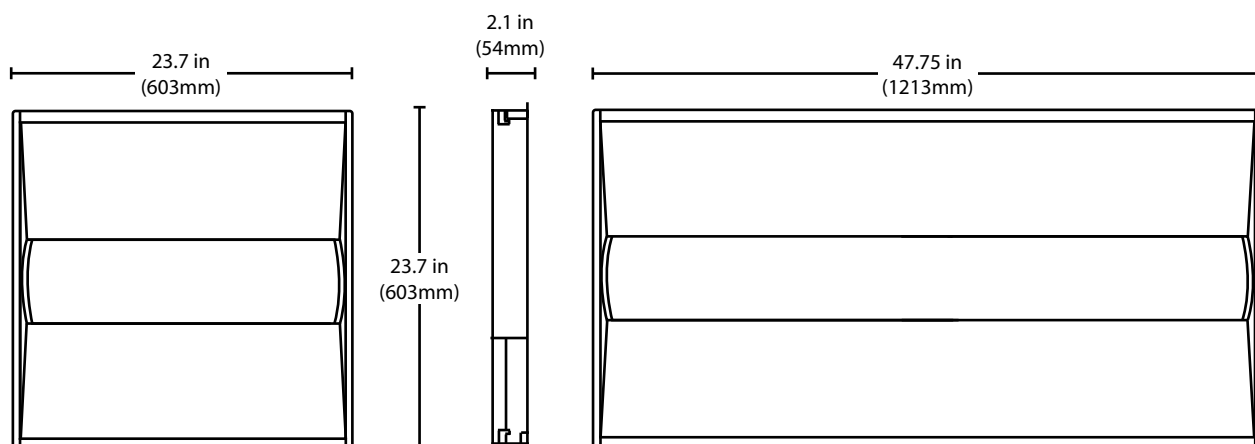
### Cone of Light Tabulation

| Mounted height<br>(Feet) | Footcandles<br>Beam Center | Diameter<br>(Feet) |
|--------------------------|----------------------------|--------------------|
| 8                        | 31.6                       | 27.0               |
| 10                       | 20.2                       | 33.8               |
| 12                       | 14.0                       | 40.5               |
| 14                       | 10.3                       | 47.3               |

### Zonal Lumen Summary

| Zone   | Lumens | % of Luminaire |
|--------|--------|----------------|
| 0-30   | 1572   | 26.3%          |
| 0-40   | 2576   | 43.1%          |
| 0-60   | 4590   | 76.8%          |
| 0-90   | 5978   | 100%           |
| 90-180 | 0      | 0%             |
| 0-180  | 5978   | 100%           |

## Dimensions



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.