

TAC Select

Sensor-Ready Architectural LED Troffer

Product Description

The Sensor-Ready version of the TAC Select Troffer takes energy efficiency and smart functionality to the next level. Equipped with built-in sensor compatibility, this model can seamlessly integrate with occupancy sensors and daylight harvesting systems, optimizing energy use and enhancing the overall lighting experience. 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 Sensor-Ready TAC Select is a forward-thinking choice for modern buildings.

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
- Dim-to-off dimming via 0-10VDC controls
- Sensor-ready socket for PIR or MW sensors
- 12V accessory output to power sensors or other control items
- CCT and Wattage selector switches accessible on junction box
- Power factor > 0.9
- THD < 10%
- 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° 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 Premium listed
- RoHS Compliant
- Meets FCC Part 15, Subpart B, Class A standards for conducted and radiated emissions
- TM-21 Reported L70(10k) life > 60,000 hours; L90(10k) life = 42,000 hours
- LM-79, LM-80 testing performed in accordance with IESNA standards

Warranty

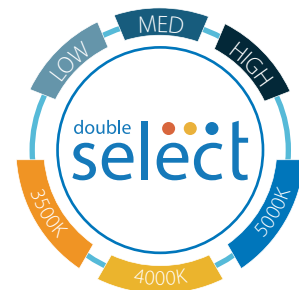
- 5-year limited system warranty standard
- Warranty does not cover product failure due to an overvoltage event (power surge.)

Project

Catalog

Type

Date



TAC3
Sensor-Ready
Architectural LED Troffer
2x2, 2x4
Selectable Wattage/CCT



Ordering

Ordering Information

Example: TAC324SUS8S

Series	Version	Size	Wattage Selectable	Voltage	CCT	CRI	Sensor	Emergency
TAC	3	22 (2' x 2')	25S (15/20/25W) ¹	U (120-277V)	S (Select: 35/40/50K)	8 (>80)	S (Sensor Socket)	<BLANK>
		24 (2' x 4')	50S (30/40/50W) ²					E1 (EMB045)
								E2 (EMB080)

Specifications and dimensions subject to change without notice.

1) 2x2 model only

2) 2x4 model only

Sensor Accessories

PIR Sensor	SNAPINSENSORPIR1WH
NICOR NLC Sensor	NLCSPSS1WH

Sensor Default Settings

	PIR	NLC
Hold Time	20 min	20 min
Standby Dimming Level	20%	50%
Standby Period	10 min	1 min
Sensitivity	100%	100%
Daylight Sensor	Off	Off

For complete sensor information reference the sensor spec sheet

Mounting 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.

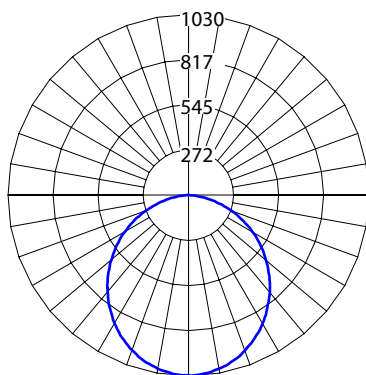
Performance Data

Performance Data						Emergency Pack Performance Data	
Model	Output Setting	Nominal CCT	Lumens	Watts	Efficiency	E1 Lumens	E2 Lumens
TAC322	15W	3500	1904	15.0	127.0	571	1016
		4000	1991	14.4	138.3	622	1106
		5000	1908	14.9	127.7	575	1022
	20W	3500	2539	20.0	127.0	571	1016
		4000	2655	19.2	138.3	622	1106
		5000	2544	19.9	127.7	575	1022
	25W	3500	3174	25.0	127.0	571	1016
		4000	3319	24.0	138.3	622	1106
		5000	3179	24.9	127.7	575	1022
TAC324	30W	3500	3832	30.0	127.7	575	1022
		4000	4085	30.5	134.1	604	1073
		5000	3869	30.0	128.9	580	1031
	40W	3500	5110	40.0	127.7	575	1022
		4000	5446	40.6	134.1	604	1073
		5000	5159	40.0	128.9	580	1031
	50W	3500	6387	51.6	123.7	557	989
		4000	6808	52.4	129.9	584	1039
		5000	6449	51.7	124.8	562	998

Photometric Data

TAC322 4000K, 40W

Input Voltage (VAC)	120-277
System Level Power (W)	24.9
Delivered Lumens (Lm)	3319
System Efficacy (Lm/W)	133.1
Correlated Color Temp (K)	4203
Color Rendering Index (CRI)	85
Beam Angle (0)	114.2
Beam Angle (90)	120.2
Spacing Criteria (0)	1.30
Spacing Criteria (90)	1.26



Data Multiplier			
TAC32225SUS8S			
	35K	40K	50K
15W	0.574	0.600	0.575
20W	0.765	0.800	0.766
25W	0.956	1.000	0.958

Cone of Light Tabulation

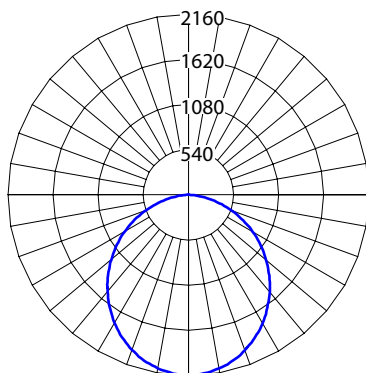
Mounted height (Feet)	Footcandles Beam Center	Diameter (Feet)
8	17.0	24.7
10	10.9	30.9
12	7.5	37.1
14	5.5	43.3

Zonal Lumen Summary

Zone	Lumens	% of Luminaire
0-30	851	25.6%
0-40	1401	42.2%
0-60	2519	75.9%
0-90	3319	100%
90-180	0	0%
0-180	3319	100%

TAC324 4000K, 50W

Input Voltage (VAC)	120-277
System Level Power (W)	52.4
Delivered Lumens (Lm)	6808
System Efficacy (Lm/W)	129.9
Correlated Color Temp (K)	4236
Color Rendering Index (CRI)	84
Beam Angle (0)	120.7
Beam Angle (90)	120.0
Spacing Criteria (0)	1.32
Spacing Criteria (90)	1.28



Data Multiplier			
TAC32450SUS8S			
	35K	40K	50K
30W	0.563	0.600	0.568
40W	0.751	0.800	0.758
50W	0.938	1.000	0.947

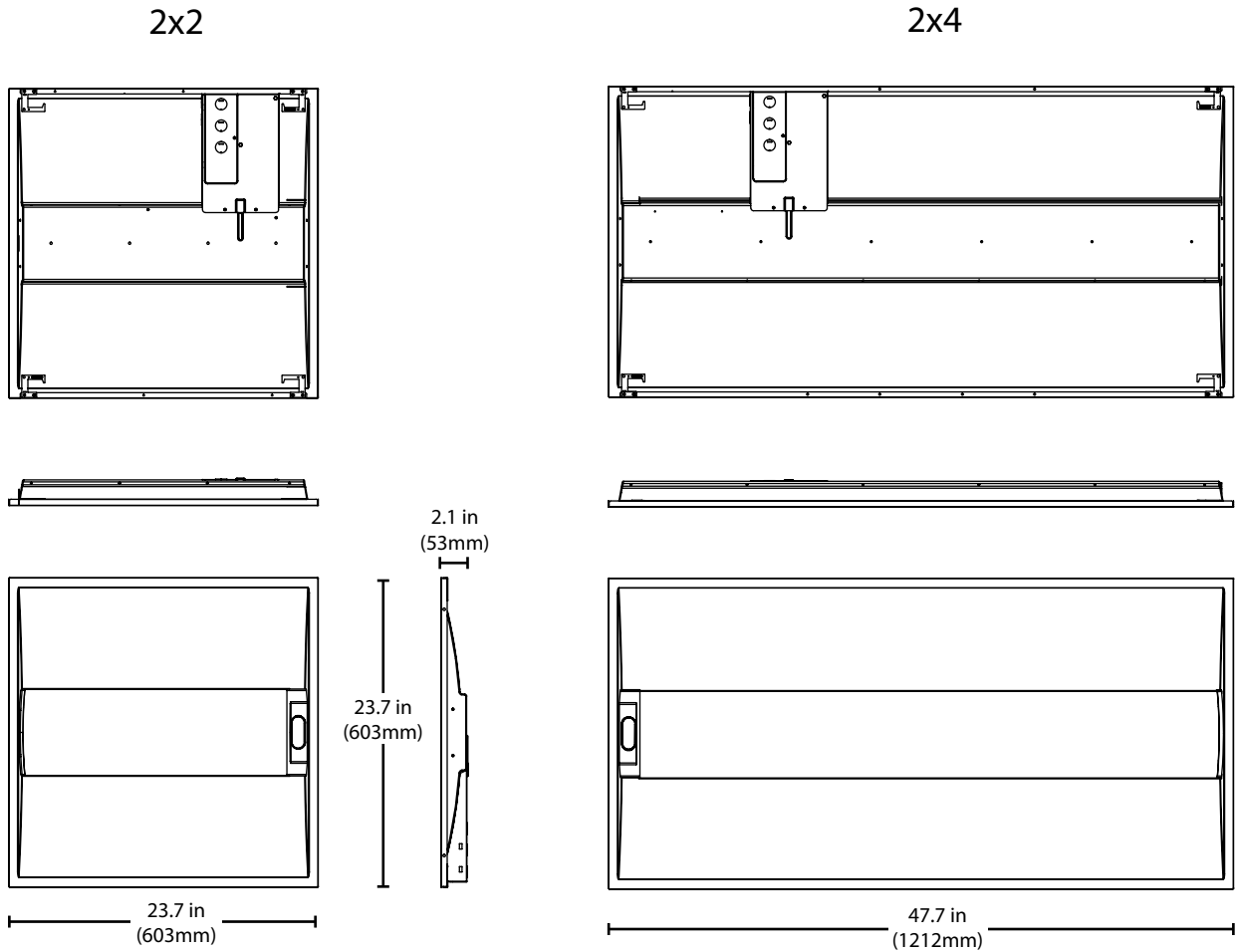
Cone of Light Tabulation

Mounted height (Feet)	Footcandles Beam Center	Diameter (Feet)
8	33.7	28.1
10	21.6	35.1
12	15.0	42.2
14	11.0	49.2

Zonal Lumen Summary

Zone	Lumens	% of Luminaire
0-30	1703	25%
0-40	2821	41.4%
0-60	5136	75.4%
0-90	6808	100%
90-180	0	0%
0-180	6808	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.