

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 standard, 90CRI options

Electrical

- Input voltage of 120-277VAC
- Dim-to-off dimming via 0-10VDC controls
- Sensor-ready socket for PIR 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 (MTO and Quick Ship)
- 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



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Ordering

Ordering Information									Example: TAC32450SUS8S
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 (none)	
		24 (2' x 4')	50S (30/40/50W) ²			9 (>90)		E1 (4.5W) ³	
								E2 (8W - MTO) ³	
								E3 (8W - QS) ⁴	

Specifications and dimensions subject to change without notice.

1) 2x2 model only

2) 2x4 model only

3) Factory installation only - call factory for leadtime

4) Preinstalled - ready to ship

Recommended Dimmers*

Lutron NTSTV

Leviton IP710

Cooper SF10P

Legrand RH4FBL3PW

*Not a complete list. Check compatibility before installation.

Mounting Accessories

Flange Kit - 2x2 TPE10FK22

Flange Kit - 2x4 TPE10FK24

Surface Kit - 2x2 SK22M10WH

Surface Kit - 2x4 SK24M10WH

Sensor Accessories

PIR Sensor SNAPINSENSORPIR1WH

NICOR NLC Sensor NLCSPSS1WH

Sensor Default Settings	Standard PIR	Bluetooth PIR
Hold Time	20 min	20 min
Standby Dimming Level	30%	50%
Standby Period	30 min	1 min
Sensitivity	100%	100%
Daylight Sensor	Off	Off

For complete sensor information reference the sensor spec sheet

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Performance Data

Performance Data - 80CRI						Emergency Pack Performance Data	
Model	Output Setting	Nominal CCT	Lumens	Watts	Efficiency	E1 Lumens	E2/E3 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

Performance Data - 90CRI						Emergency Pack Performance Data	
Model	Output Setting	Nominal CCT	Lumens	Watts	Efficiency	E1 Lumens	E2/E3 Lumens
TAC322	15W	3500	1788	15.0	119.2	536	954
		4000	1870	14.4	129.8	584	1039
		5000	1792	14.9	120.2	541	962
	20W	3500	2384	20.0	119.2	536	954
		4000	2493	19.2	129.8	584	1039
		5000	2389	19.9	120.0	540	960
	25W	3500	2980	25.0	119.2	536	954
		4000	3117	24.0	129.9	584	1039
		5000	2985	24.9	119.9	539	959
TAC324	30W	3500	3598	30.0	119.9	540	960
		4000	3836	30.5	125.8	566	1006
		5000	3633	30.0	121.1	545	969
	40W	3500	4798	40.0	120.0	540	960
		4000	5114	40.6	126.0	567	1008
		5000	4844	40.0	121.1	545	969
	50W	3500	5997	51.6	116.2	523	930
		4000	6393	52.4	122.0	549	976
		5000	6056	51.7	117.1	527	937

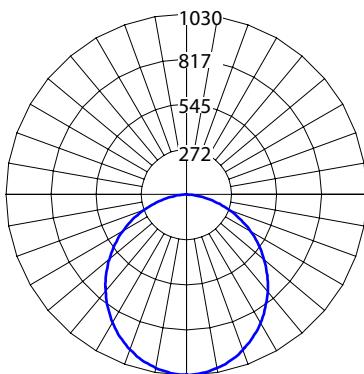
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Photometric Data

TAC322 4000K, 25W

Input Voltage (VAC)	120-277
System Level Power (W)	24.0
Delivered Lumens (Lm)	3319
System Efficacy (Lm/W)	138.3
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
15W	0.574	0.600
20W	0.765	0.800
25W	0.956	1.000
	50K	0.575
20W	0.766	0.766
25W	0.958	0.958

CRI Multiplier

80	1.000
90	0.939

Cone of Light Tabulation

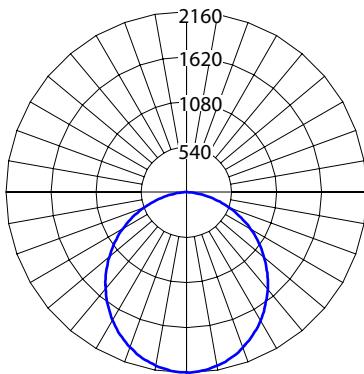
Mounted height (Feet)	Footcandles Beam Center	Diameter (Feet)
8	17.0	24.7
10	10.9	30.9
12	7.5	37.1
14	5.5	43.3

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
30W	0.563	0.600
40W	0.751	0.800
50W	0.938	1.000
	50K	0.568
40W	0.758	0.758
50W	0.947	0.947

CRI Multiplier

80	1.000
90	0.939

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

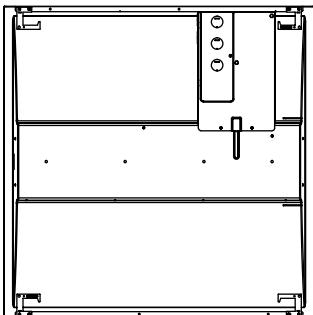
Zone	Lumens	% of Luminaire
0-30	1703	25%
0-40	2821	41.4%
0-60	5136	75.4%
0-90	6808	100%
90-180	0	0%
0-180	6808	100%

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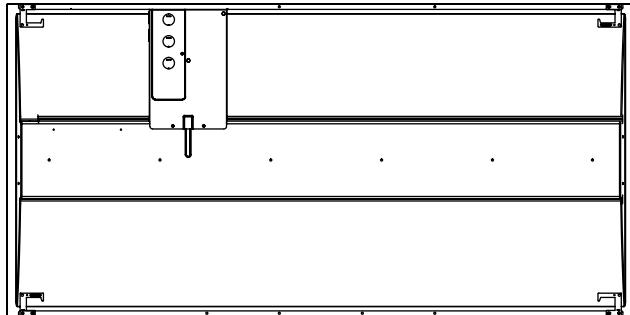
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Dimensions

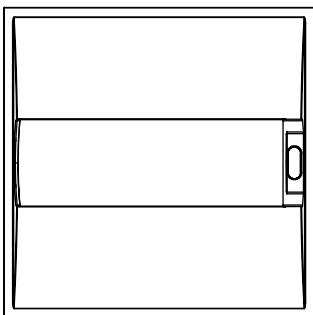
2x2



2x4



2.1 in
(53mm)

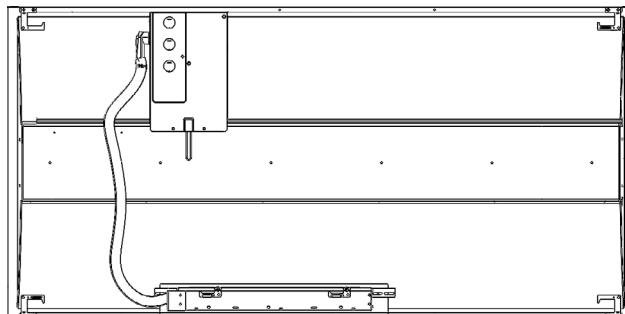
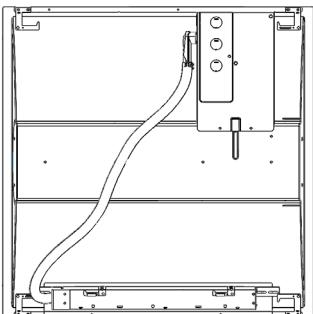


23.7 in
(603mm)



47.7 in
(1212mm)

View with EM pack installed



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.