

TAR Select v2

Architectural LED Troffer Retrofit Kit

Product Description

The TARsV2 Architectural LED Troffer Retrofit provides an economical, easy-to-install upgrade from linear fluorescent lighting to a long-lasting and energy-efficient LED solution. The contemporary center lens design delivers a soft natural glow with even illumination and minimized glare, making it an attractive general-purpose ambient lighting solution. The TARsV2 also features a premounted driver with a high-efficiency, maintenance-free LED chamber. Whether in a school, hospital, airport, office or convenience store, NICOR LED troffers bring a stylish and economical lighting solution to all commercial, educational, medical, and retail applications. The CCT and Wattage Selectable design allows for easy adjustment to 3500K/4000K/5000K and a choice of high, medium, or standard light output.

Construction

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

Optical System

- Precision engineered PMMA diffuser
- No visible diodes, hot-spots, or shadows providing high uniformity, and reduced glare

Electrical

- Long-life LED system coupled with electrical driver to deliver optimal performance with 125+ lumens per watt depending on CCT
- Selectable lumen and CCT output
- Driver delivers full-range dimming from 1 - 10VDC
- Operating temperature rating of -4°F to 104°F (-20°C to 40°C)
- Input voltage of 120-277VAC
- TM-21 Projected L70(9k) life >50,000 hours
- LM-79, LM-80 testing performed in accordance with IESNA standards.

Controls

- NLC (Network Lighting Controls) option available
- Bluetooth Low Energy (BLE) mesh network providing Luminaire Level Lighting Control
- Luminaire integrated BLE PIR/Daylight sensor (NI) 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

- Unique four rail system minimizes gaps, creating a more seamless look
- Quick and easy single person installation
- Features an integral driver for easy installation
- Seismic wire provided for safe installation and operation
- Suitable for use in IC rated troffer

Finish

- Matte white powder coat finish

Warranty

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

Project

Catalog

Type

Date



TARsV2
LED Retrofit Troffer
1x4, 2x2, 2x4
Selectable Lumens
Selectable CCT



Ordering

Ordering Information

Example: TARS224U

Series	CCTs	Version	Size	Voltage	Controls	Emergency (Optional)
TAR	S (Selectable: 3500, 4000, 5000K)	2	14 (1' x 4') ¹	U(120-277V)	Blank (none)	E1 (EMB45)
			22 (2' x 2')		NI (NLC Controls)	E2 (EMB80)
			24 (2' x 4')			

Specifications and dimensions subject to change without notice.

1. Only available by special order.

Recommended Dimmers*

Lutron NTSTV-DV-WH

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



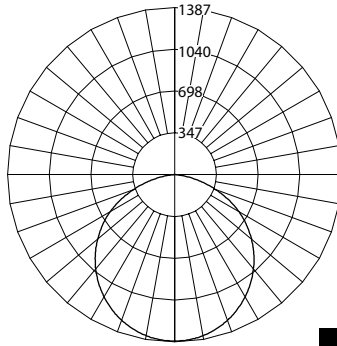
Performance Data

Performance Data						Emergency Pack Performance Data	
Model	Output Setting	Nominal CCT	Lumens	Watts	Efficiency	E1 Lumens	E2 Lumens
TARS214U	Standard	3500	2727	20.2	135.0	608	1080
		4000	3068		151.9	683	1215
		5000	2739		135.6	610	1085
	Medium	3500	3329	25.4	131.1	590	1049
		4000	3664		144.3	649	1154
		5000	3341		131.5	592	1052
	High	3500	3908	31.1	125.7	565	1005
		4000	4140		133.1	599	1065
		5000	3930		126.4	569	1011
TARS222U	Standard	3500	2707	20.1	134.7	606	1077
		4000	3030		150.7	678	1206
		5000	2735		136.1	612	1089
	Medium	3500	3350	25.3	132.4	596	1059
		4000	3694		146.0	657	1168
		5000	3383		133.7	602	1070
	High	3500	3915	30.7	127.5	574	1020
		4000	4158		135.4	609	1084
		5000	3944		128.5	578	1028
TARS224U	Standard	3500	4628	33.6	137.7	620	1102
		4000	5171		153.9	693	1231
		5000	4693		139.7	629	1117
	Medium	3500	5265	38.4	137.1	617	1097
		4000	5790		150.8	679	1206
		5000	5332		138.9	625	1111
	High	3500	6006	46.1	130.3	586	1042
		4000	6433		139.5	628	1116
		5000	6119		132.7	597	1062

Photometric Data

TARS214 30W

Input Voltage (VAC)	120-277
System Level Power (W)	31.1
Delivered Lumens (Lm)	3908
System Efficacy (Lm/W)	125.7
Correlated Color Temp (K)	3368
Color Rendering Index (CRI)	81
Beam Angle	107°
Spacing Criteria	1.25



Intensity Summary (Candle Power)

Angle	Mean CP
0	1387
10	1355
20	1266
30	1131
40	963
50	776
60	578
70	371
80	156
90	0

Data Multiplier

	35K	40K	50K
Low	0.70	0.79	0.70
Med	0.85	0.94	0.85
High	1.00	1.06	1.01

Cone of Light Tabulation

Mounted height (Feet)	Footcandles Beam Center	Diameter (Feet)
8	21.7	21.6
10	13.9	27.0
12	9.6	32.4
14	7.1	37.8
16	5.4	43.2

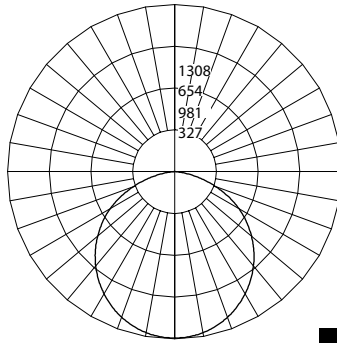
Zonal Lumen Summary

Zone	Lumens	% of Luminaire
0-30	1073	27.5%
0-40	1756	44.9%
0-60	3109	79.6%
0-90	3906	100%
90-180	0	0%
0-180	3908	100%

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

TARS222 30W

Input Voltage (VAC)	120-277
System Level Power (W)	30.7
Delivered Lumens (Lm)	3915
System Efficacy (Lm/W)	127.5
Correlated Color Temp (K)	3476
Color Rendering Index (CRI)	82
Beam Angle	126°
Spacing Criteria	1.25



Intensity Summary (Candle Power)

Angle	Mean CP
0	1306
10	1275
20	1195
30	1072
40	915
50	732
60	539
70	350
80	172
90	2

Data Multiplier

	35K	40K	50K
Low	0.69	0.77	0.70
Med	0.86	0.94	0.86
High	1.00	1.06	1.01

Cone of Light Tabulation

Mounted height (Feet)	Footcandles Beam Center	Diameter (Feet)
8	20.4	31.4
10	13.1	39.3
12	9.1	47.1
14	6.7	55.0
16	5.4	63.2

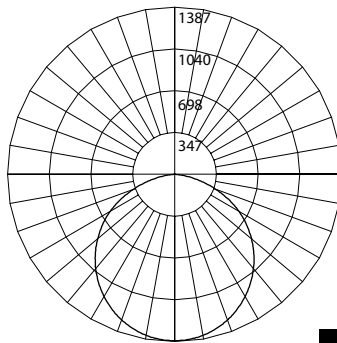
Zonal Lumen Summary

Zone	Lumens	% of Luminaire
0-30	1007	25.7%
0-40	1649	42.1%
0-60	2940	75.1%
0-90	3915	100%
90-180	0	0%
0-180	3915	100%

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

TARS224 45W

Input Voltage (VAC)	120-277
System Level Power (W)	46.10
Delivered Lumens (Lm)	6006
System Efficacy (Lm/W)	130.3
Correlated Color Temp (K)	3488
Color Rendering Index (CRI)	82
Beam Angle	107°
Spacing Criteria	1.3



Intensity Summary (Candle Power)

Angle	Mean CP
0	1973
10	1929
20	1813
30	1629
40	1395
50	1121
60	831
70	548
80	292
90	27

Data Multiplier

	35K	40K	50K
Low	0.77	0.86	0.78
Med	0.88	0.96	0.89
High	1.00	1.07	1.02

Cone of Light Tabulation

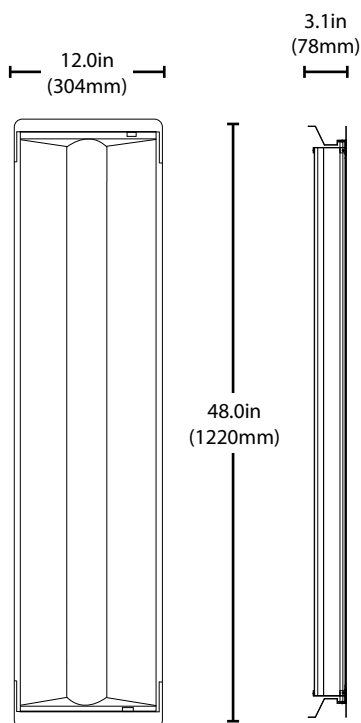
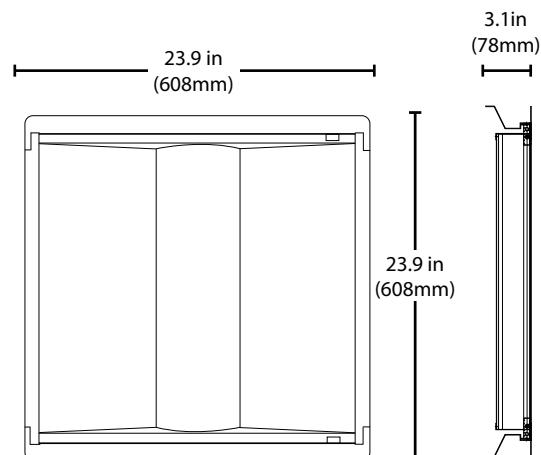
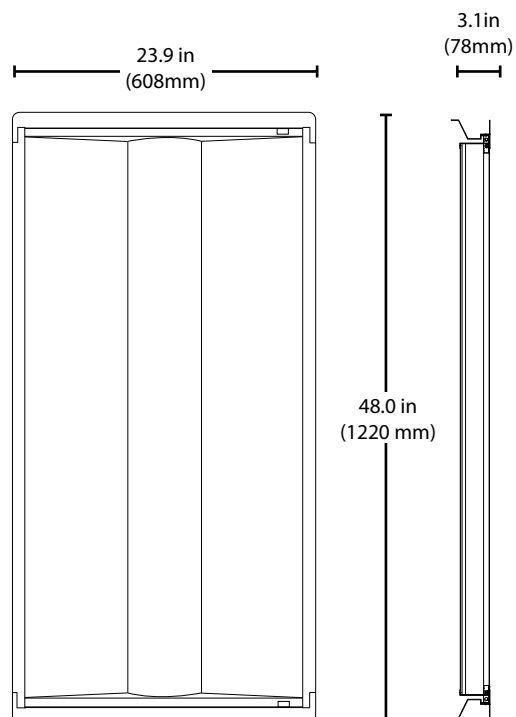
Mounted height (Feet)	Footcandles Beam Center	Diameter (Feet)
8	30.8	32.3
10	19.7	40.4
12	13.7	48.5
14	10.1	56.5
16	5.4	64.6

Zonal Lumen Summary

Zone	Lumens	% of Luminaire
0-30	0	25.4%
0-40	719	41.6%
0-60	1525	74.3%
0-90	6006	100%
90-180	0	0%
0-180	6006	100%

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

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.