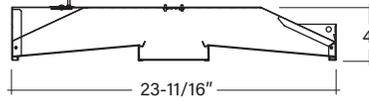




TRAVERSE TR24

2x4 Architectural Recessed



Key Features

- Three-piece luminous lens design offers elevated style and visual comfort
- White or Silver center rails
- Up to 8000 delivered lumens (2x4) with 80CRI or 90CRI options
- High performance efficacy up to 154 lumens per watt
- Lift and shift lenses allow for easy room-side maintenance
- Multiple integrated control options for enhanced energy savings
- 5-year limited warranty



Example Part #: TR24-W-830HO-G1-U-FSD-1-0-W

TR24 - SHIELDING - CRI, CCT & OUTPUT - MOUNTING - VOLTAGE - DRIVER - CIRCUITING - BATTERY & EMERGENCY - FINISH - FIXTURE OPTIONS - CONTROLS

SHIELDING	SOURCE ¹ <i>QS</i>	MOUNTING	VOLTAGE
W - Satine Lens with White Rails <i>QS</i> S - Satine Lens with Silver Rails <i>Shielding pg. 2</i>	27 - 2700K 30 - 3000K 35 - 3500K 40 - 4000K TW - 2CH Tunable White (2700-6500K, 90CRI) CL - Custom Lumens CW - Custom Watts <i>Lumen Output pg. 2</i>	G1 - 15/16" Grid <i>QS</i> G9 - 9/16" Grid <i>QS</i> GS - Screw Slot Grid <i>QS</i> FL - Flanged <i>Mounting pg. 3</i>	U - Universal (120 thru 277V) <i>QS</i> 1 - 120V <i>QS</i> 2 - 277V <i>QS</i> 3 - 347V <i>Voltage pg. 3</i>

DRIVER	CIRCUITING	BATTERY & EMERGENCY	FINISH
FSD - Factory Select Driver (1%, 0-10v) <i>QS</i> PL2 - Advance Xitanium (1%, 0-10v) OL2 - eldoLED Optotronic (1%, 0-10v) OL4 - eldoLED Optotronic 347v (1%, 0-10v) OL5 - eldoLED Optotronic (1%, 0-10v) EE1 - eldoLED ECODrive (1%, 0-10v) EE2 - eldoLED ECODrive (1%, 0-10v) LH1 - Lutron Hi-lume (1%, EcoSystem) PR1 - Advance Xitanium SR <i>Driver pg. 4</i>	1 - Single Circuit <i>QS</i> E - Emergency <i>QS</i> <i>(entire fixture)</i> N - Night Light <i>QS</i> <i>(entire fixture)</i> <i>Circuiting pg. 4</i>	0 - None <i>QS</i> FSB - Factory Select Battery <i>QS</i> FSG - Factory Select ALCR GI - Iota ETS DR GB - Bodine GTD 1ILL - Iota 10W, Lithium, Self Testing 1PLL - Bodine 10W, Lithium, Self Testing <i>QS</i> <i>Battery and Emergency pg. 4</i>	W - White <i>QS</i> <i>Finish pg. 5</i>

FIXTURE OPTIONS ²	CONTROLS ³
QS - QuickShip <i>QS</i> TW - Through-wiring CP - Chicago Plenum <i>QS</i> AR - Air Return AM - Antimicrobial Paint FW6 - 6' Flex Whip <i>QS</i> <i>Fixture Options pg. 5</i>	DLMFC - Wattstopper DLM DLMFS - Wattstopper LLLC SNSLM - Wattstopper PLUS SensiLUM LEVIS0 - Leviton Intellect Sensor <i>Controls pg. 5</i>

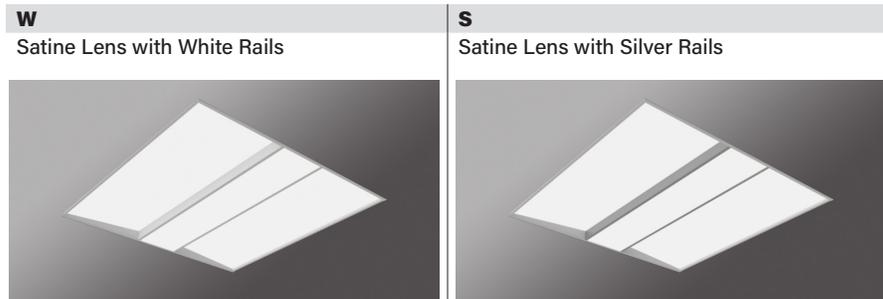
¹When specifying SOURCE the first _ is for specifying either **8** - 80CRI, **9** - 90CRI. The ending __ are for specifying output, example 835HO - 80CRI, 3500K High Output. See output charts for more information. ²When specifying Tunable White, use **TW** and then specify output, example TWHO - Tunable White 90CRI, High Output 2700-6500K. See output charts for more information. Tunable White option requires driver option **FSD** which provides separate 0-10v control leads for Intensity and CCT. ³Tunable White (**TW**) option only available with Universal (**U**), 120V (**1**) or 277V (**2**) options. ⁴Consult factory for Emergency (**E**) or Night Light (**N**) options with Tunable White option. ⁵If specifying QuickShip, **QS** must be used in fixture options section of part number to qualify. ⁶Controls can only be used with Single Circuit (**1**) or Emergency Circuit (**E**). See Controls chart on page 5 for driver options and more information

Specifications and dimensions subject to change without notice. Specification sheets that appear on pinnacle-ltg.com are the most recent version and supersede all other previously printed or electronic versions.



Shielding

- Three piece acrylic diffuse lens
- Fully luminous housing with optimal glare control
- Highly reflective white reflectors maintain uniform lens brightness



Source

- Specify either 80 or 90 CRI
- Longer lead-time may apply for 90 CRI. Consult factory.
- 90 CRI = R9≥50
- Tunable White option requires driver option FSD which provides separate 0-10v control leads for Intensity and CCT.
- Tunable White lumen packages shown at 4000K CCT setpoint

Custom Output- Lumens OR Wattage

CL _____	Specify CRI, CCT and desired lumens (i.e. CL8351200)	Specify lumens between standard offering listed below. Lumens are specified per color temp
CW _____	Specify CRI, CCT and desired wattage (i.e. CW94015)	Specify watts between standard offering listed below

80 CRI

	Color	Output	Watts	Shielding			
				W White Trim		S Silver Trim	
				Lumens	LPW	Lumens	LPW
830LO	3000K	Low	22.1	3308	150	3143	142
830MO		Middle	29.9	4410	147	4190	140
830HO		High	37.5	5484	146	5210	139
830VHO		Very High	55.9	7828	140	7437	133
835LO	3500K	Low	22.1	3322	150	3156	143
835MO		Middle	29.9	4429	148	4207	141
835HO		High	37.5	5507	147	5232	140
835VHO		Very High	55.9	7861	141	7468	134
840LO	4000K	Low	22.1	3411	154	3241	147
840MO		Middle	29.9	4547	152	4320	144
840HO		High	37.5	5655	151	5372	143
840VHO		Very High	55.9	8072	144	7668	137

90 CRI

927LO	2700K	Low	22.1	2743	124	2606	118
927MO		Middle	29.9	3657	122	3474	116
927HO		High	37.5	4548	121	4321	115
927VHO		Very High	55.9	6492	116	6167	110
930LO	3000K	Low	22.1	2810	127	2670	121
930MO		Middle	29.9	3746	125	3559	119
930HO		High	37.5	4659	124	4426	118
930VHO		Very High	55.9	6650	119	6317	113
935LO	3500K	Low	22.1	2933	133	2786	126
935MO		Middle	29.9	3909	131	3714	124
935HO		High	37.5	4862	130	4619	123
935VHO		Very High	55.9	6939	124	6592	118
940LO	4000K	Low	22.1	3011	136	2860	129
940MO		Middle	29.9	4013	134	3813	128
940HO		High	37.5	4991	133	4741	126
940VHO		Very High	55.9	7124	127	6768	121

2 CH Tunable White (2700-6500K, 90CRI)

TWLO	2700 - 6500K	Low	30.8	3400	110.4	2788	90.5
TWMO		Middle	40.8	4500	110.2	3686	90.3
TWHO		High	50.5	5600	110.8	4589	90.8
TWVHO		Very High	80.2	8000	99.7	6556	81.7

Specifications and dimensions subject to change without notice. Specification sheets that appear on pinnacle-ltg.com are the most recent version and supersede all other previously printed or electronic versions.

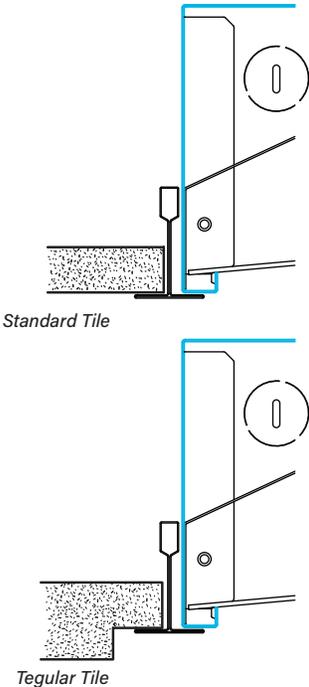
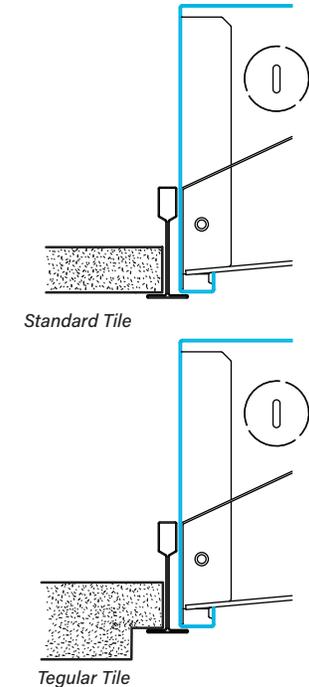
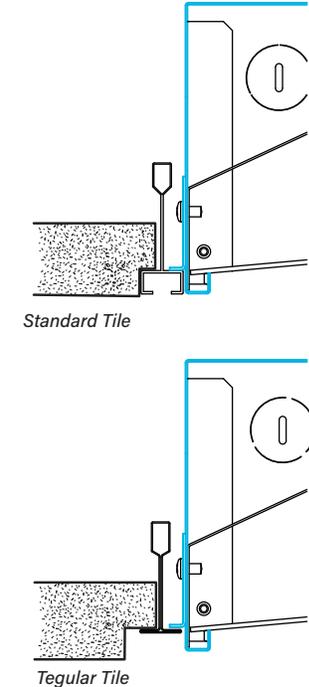
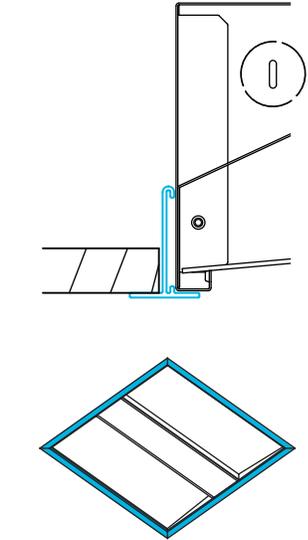
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Mounting

- TRAVERSE can be ordered for all grid types. See below for fixture placement in relation to the tile for each grid type
- Grid retention clips integral to housing and require mechanical attachment
- Tie off fixture to structure with retention wires
- Refer to installation instructions during installation
- Approved for dry/damp location
- Maximum fixture weight is 27.3lbs

G1	G9	GS	FL
<p>1" Grid Mount Works with 15/16" grid ceiling types. See profile for fixture position in relation to ceiling grid and tile.</p>  <p>Standard Tile</p> <p>Tegular Tile</p>	<p>9/16" Grid Mount Works with 9/16" grid ceiling type. For tegular tile installations, fixture position will not be flush to the bottom of the tile. See tegular tile profile image below.</p>  <p>Standard Tile</p> <p>Tegular Tile</p>	<p>Screw Slot Mounting Works with screw slot and bolt slot grid ceiling types.</p>  <p>Standard Tile</p> <p>Tegular Tile</p>	<p>Flange Kit A separate flange kit is supplied for installations into inaccessible or drywall applications. Flange kit ships from factory uninstalled separately from fixture.</p> 

Voltage

- Some TRAVERSE configurations will not accommodate all voltage options; consult with factory
- 347 volt not available with Tunable White (TW) option

U	Universal
1	120 volt
2	277 volt
3	347 volt



Driver

- Standard Driver Option = FSD
- Driver Lifetime: 50,000 hours at 25°C ambient operating conditions
- For more Driver options, see Pinnacle Resource Guide
- Some TRAVERSE configurations will not accommodate all driver options; consult with factory

0-10V Drivers	
FSD	Factory Select Driver 1%, 0-10v
PL2	Advance Xitanium 1%, 0-10v
OL2	eldoLED Optotronic, 1%, 0-10v
OL4	eldoLED Optotronic 347v, 1% 0-10v, requires 347v option
EE1	eldoLED ECOdrive 1%, 0-10v, Logarithmic
EE2	eldoLED ECOdrive 1%, 0-10v, Linear
ES1	eldoLED SOLOdrive 0.1%, 0-10v, Logarithmic
ES2	eldoLED SOLOdrive 0%, 0-10v, Linear
OL5	eldoLED Optotronic 1%, 0-10v, AUX, Dim to Off
DALI Drivers	
EE3	eldoLED SOLOdrive 0.1%, DALI 2, Logarithmic, DT6
OD1	eldoLED Optotronic 1%, DEXAL, DALI 2, DT6, Self powered link
PR1	Advance Xitanium SR, DALI 2, Self powered link
Lutron Drivers	
LH1	Lutron Hi-lume Soft-on, Fade-to-black 1%, EcoSystem, LDE1

Circuiting

- Select fixture circuiting from options below
- Some TRAVERSE configurations will not accommodate all circuiting options; consult with factory
- Consult factory for Emergency (E) or Night Light (N) with Tunable White (TW) option

1	Single Circuit
E	Emergency Circuit only
N	Night Light Circuit only

Battery & Emergency

- Select battery or emergency options if required
- Battery duration is 90 minutes
- For Tunable White (TW) option, battery with illuminate 6500K LED unless otherwise specified.
- Test button is integral to fixture
- For more Battery options, see Pinnacle Resource Guide
- Consult factory for Emergency Control Devices with Tunable White (TW) option

0	No Battery
FSB	Factory Select Battery 10w, Integral Lithium
FSG	Factory Select ALCR Emergency Control Device, UNV
GI	Iota ETS-DR, Emergency Control Device, UNV
GB	Bodine GTD, Emergency Control Device, 120v or 277v
1ILL	Iota 10w, Integral Lithium, Self Testing
1PLL	Bodine 10w, Integral Lithium, Self Testing

For Approximate Battery Lumen Output

- Multiply battery wattage X fixture LPW shown on Lumen Table
- 10 (watts) x 92.3 (LPW) = 923 battery lumen output

Battery & Emergency Ordering Examples

- Single circuit, 10w integral battery Ordering Code: 1-1FSB
- Emergency circuit only, 10w integral battery Ordering Code: E-1PLL



Finish

- Powder-coat white painted finish

W White

Fixture Options

- Additional options to enhance the fixture and finish of the product

QS	QuickShip
TW	Through-Wiring
CP	Chicago Plenum
AM	Antimicrobial Paint
AR	Air Return
FW6	Flex Whip 6'

Quick Ship

Shielding	Output	Mounting	Voltage	Driver	Circuiting	Battery	Finish	Options
10-Day								
W White Rails	80 CRI, All color temperatures, all lumen packages <i>See pg 2</i>	G1 1" Grid G9 9/16" Grid GS Screw Slot	U Universal 1 120v 2 277v	FSD Factory Select Driver (1%, 0-10v)	1 Single E Emergency N Night Light	0 None FSB Factory Select Battery	W White	CP Chicago Plenum FW6 Flex Whip 6' 18-gauge

Consult Factory for projects that are larger than 200 units.

Controls

- Pinnacle Lighting offers easy to specify network control solutions that connect to an intelligent centralized system to maximize lighting energy efficiencies or integral sensors for individual fixture control
- Pinnacle Lighting fixtures ship technology ready; commissioning by others
- Controls can only be used with Single Circuit (1) or Emergency Circuit (E)
- Contact factory for any non-standard configurations for layout, placement, or EM options
- Must specify required driver in Driver section

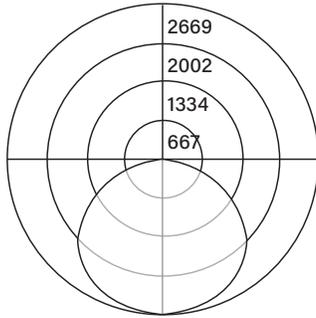
	Solution	Components	Network/Sensor	Connection	Required Drivers	Limitations
DLMFC	Legrand Wattstopper DLM	LMFC-011	Digital Lighting Management (DLM)	Wired, two RJ45 ports	OL2	None
DLMFS	Legrand Wattstopper LLLC	LMFS-601-W / LMFI-111	Wireless DLM Fixture Sensor	Wireless	OD1, PR11 or 0-10v	0-10v requires interface
SNSLM	Wattstopper PLUS SensiLUM	EN-CLM-PIR-DD-ZB	Encelium, Daylight/PIR Occupancy	Wireless	OD1, OL5	
LEVISO	Leviton Intellect Sensor	ZL07S-N00	Leviton Intellect, Daylight/PIR Occupancy	Wireless	OL5	



Photometrics

Satine Lens

Test #	F241200
Catalog #	TR24-A-835
Lumens	7633 lm
Watts	52.8 W
Efficacy	145 LPW



Candela Distribution

Vert Angle	Horizontal Angle				
	0	22.5	45	67.5	90
0	2666	2666	2666	2666	2666
5	2651	2644	2655	2659	2658
10	2612	2606	2618	2626	2626
15	2546	2543	2561	2574	2578
20	2458	2457	2483	2507	2517
25	2343	2349	2389	2427	2443
30	2210	2223	2279	2335	2357
35	2057	2075	2150	2222	2252
40	1887	1910	1999	2083	2118
45	1701	1728	1825	1913	1948
50	1508	1534	1630	1712	1743
55	1303	1329	1415	1483	1506
60	1097	1114	1183	1233	1248
65	882	894	941	974	982
70	675	680	706	721	726
75	465	466	478	482	482
80	274	270	271	267	263
85	111	108	94	93	89
90	6	1	7	3	8

Luminance Data (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3234	3469	3703
55	3053	3316	3529
65	2804	2994	3123
75	2417	2483	2503
85	1710	1455	1380

For all available IES files, please visit our website at pinnacle-ltg.com. Photometry testing in accordance to IESNA-LM-79-08 at an NVLAP or IAS accredited testing laboratory. Testing conducted at 25°C ambient conditions

Approvals & Certifications

Construction: Formed 24 gauge cold rolled steel housing. Highly reflective die-formed reflectors maintain uniform lens brightness. Wiring access on both sides and top of housing. Housing designed to maintain optimal temperature of LED diodes and driver and allow for room-side maintenance of lens, driver and LED boards.

Shielding: 3 piece diffuse lens with center spine creating a fully luminous housing with optimal glare control. Available with white or silver lens side rails.

Mounting: Designed to install into acoustical grid and inaccessible ceilings. Specify G1, G9 or GS for acoustical grid ceiling. Specify FL for inaccessible ceilings. Grid retention clips integral to housing and require mechanical attachment. Tie off fixture to structure with retention wires.

White LED: 25°C test environment. Lumen output/wattage has a margin of +/- 5%. Luminaire configurations tested in accordance with IES LM-79. Diodes tested in accordance with IES LM-80. Lifetime calculated using IES TM-21. Minimum lifetime greater than 60,000 hours. Lifetime Projection L70 = 275,000 hours and L90 = 83,000 hours. MacAdam 3-Step Ellipses. For all available IES files, please visit our website at pinnacle-ltg.com.

Tunable White LED: 2 channel solution with 2700K and 6500K LED, 90CRI only, R9 >50. Lumen packages available shown at 4000K CCT setpoint, lumen output varies based on CCT. Use multipliers for other CCT; 2700K = .91 3000K=.93 3500K=.97 4000K=1.0 5000K=1.044 6500K=1.078.

Color & Lumen Output: Not all lumen packages available. Four lumen packages available. Low (LO), Medium (MO), High (HO) and Very High (VHO). Custom outputs are available. Specify custom lumens or watts between standard offering listed on CRI, CCT & Output page. 80 CRI is available for 3000K, 3500K, and 4000K. 90 CRI is available for 2700K, 3000K, 3500K and 4000K. 90 CRI = R9≥50.

Voltage: Universal (U), 120 volt (1) and 277 volt (2) options available. Some TRAVERSE configurations will not accommodate all voltage options; consult with factory.

Driver: Standard Driver Option is Factory Select Driver 0-10V, 1% = FSD. Electronic driver, Power factor is >0.9 with a THD <20%. Driver Lifetime: 50,000 hours at 25°C ambient operating conditions. Ambient operating range: -20°F/-30°C to 87°F/30C. For more driver options, see Pinnacle Resource Guide. Some TRAVERSE configurations will not accommodate all driver options.

Circuiting: Select from single circuit (1), Emergency circuit (E) or Night Light circuit (N). Some TRAVERSE configurations will not accommodate all circuiting options, consult with factory.

Battery & Emergency: Select battery or emergency options if required. If battery or emergency option is not required, enter 0. Battery duration is 90 minutes as standard. Test button is integral to fixture. For more Battery options, see Pinnacle Resource Guide.

Finish: Powder coat white painted finish.

Controls: Standard options available, refer to Controls section table for available options, component part number(s), connection type, required driver and limitations. Mod options available, consult with factory.

Labels: UL and cUL 1598 listed. LO, MO, HO and VHO lumen packages are IC Rated. Approved for dry/damp location unless otherwise noted.

Fixture Weight: 27.3 lbs maximum.

Warranty: TRAVERSE LED offered with a 5-year limited warranty. Covers LED, driver and fixture.