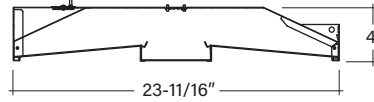




# TRAVERSE TR24

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

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

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FIXTURE OPTIONS <sup>2</sup>	CONTROLS <sup>3</sup>
<b>QS</b> - QuickShip <i>QS</i> <b>TW</b> - Through-wiring <b>CP</b> - Chicago Plenum <i>QS</i> <b>AR</b> - Air Return <b>AM</b> - Antimicrobial Paint <b>FW6</b> - 6' Flex Whip <i>QS</i> <i>Fixture Options pg. 5</i>	<b>DLMFC</b> - Wattstopper DLM ( <i>wired</i> ) <b>DLMFS</b> - Wattstopper LLC ( <i>wireless</i> ) <b>SNSLM</b> - Encelium SensiLUM ( <i>wireless</i> ) <b>LEVIS0</b> - Leviton Intellect Sensor ( <i>wireless</i> ) <b>ENL</b> - Enlighted IOT ( <i>wireless</i> ) <b>ENL2</b> - Enlighted 2-Wire IOT ( <i>wireless</i> ) <i>Controls pg. 6</i>

<sup>1</sup>When specifying SOURCE the first \_ is for specifying either 8 - 80CRI or 9 - 90CRI. The ending \_ are for specifying output, example HO - High Output. See output charts for more information. <sup>2</sup>If specifying QS, QS must be used in fixture options section of part number to qualify. <sup>3</sup>Controls 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

### W

Satine Lens with White Rails



### S

Satine Lens with Silver Rails



## Source

- Specify either 80 or 90 CRI
- Longer lead-time may apply for 90 CRI. Consult factory.
- 90 CRI = R9≥50

## Custom Output- Lumens OR Wattage

<b>CL</b> _____	Specify CRI, CCT and desired lumens (i.e. CL8351200)	Specify lumens between standard offering listed below. Lumens are specified per color temp
<b>CW</b> _____	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
<b>830LO</b>	3000K	Low	22.1	3308	150	2713	123
<b>830MO</b>	3000K	Middle	29.9	4410	147	3616	121
<b>830HO</b>	3000K	High	37.5	5484	146	4497	120
<b>830VHO</b>	3000K	Very High	55.9	7828	140	6419	115
<b>835LO</b>	3500K	Low	22.1	3322	150	2724	123
<b>835MO</b>	3500K	Middle	29.9	4429	148	3631	121
<b>835HO</b>	3500K	High	37.5	5507	147	4516	120
<b>835VHO</b>	3500K	Very High	55.9	7861	141	6446	115
<b>840LO</b>	4000K	Low	22.1	3411	154	2797	127
<b>840MO</b>	4000K	Middle	29.9	4547	152	3729	125
<b>840HO</b>	4000K	High	37.5	5655	151	4637	124
<b>840VHO</b>	4000K	Very High	55.9	8072	144	6619	118

### 90 CRI

<b>927LO</b>	2700K	Low	22.1	2743	124	2250	102
<b>927MO</b>	2700K	Middle	29.9	3657	122	2999	100
<b>927HO</b>	2700K	High	37.5	4548	121	3729	99
<b>927VHO</b>	2700K	Very High	55.9	6492	116	5323	95
<b>930LO</b>	3000K	Low	22.1	2810	127	2304	104
<b>930MO</b>	3000K	Middle	29.9	3746	125	3072	103
<b>930HO</b>	3000K	High	37.5	4659	124	3820	102
<b>930VHO</b>	3000K	Very High	55.9	6650	119	5453	98
<b>935LO</b>	3500K	Low	22.1	2933	133	2405	109
<b>935MO</b>	3500K	Middle	29.9	3909	131	3206	107
<b>935HO</b>	3500K	High	37.5	4862	130	3987	106
<b>935VHO</b>	3500K	Very High	55.9	6939	124	5690	102
<b>940LO</b>	4000K	Low	22.1	3011	136	2469	112
<b>940MO</b>	4000K	Middle	29.9	4013	134	3291	110
<b>940HO</b>	4000K	High	37.5	4991	133	4092	109
<b>940VHO</b>	4000K	Very High	55.9	7124	127	5841	104

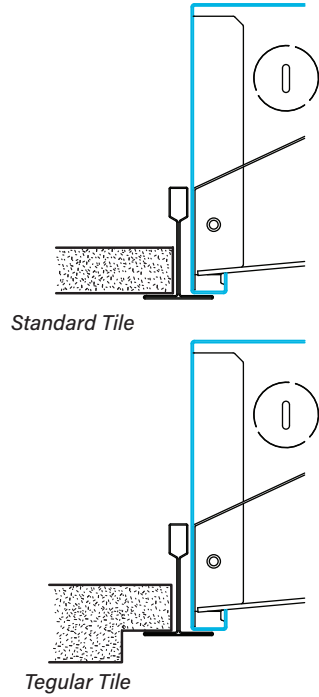
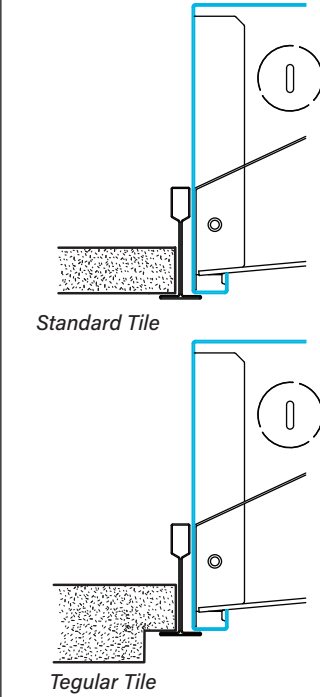
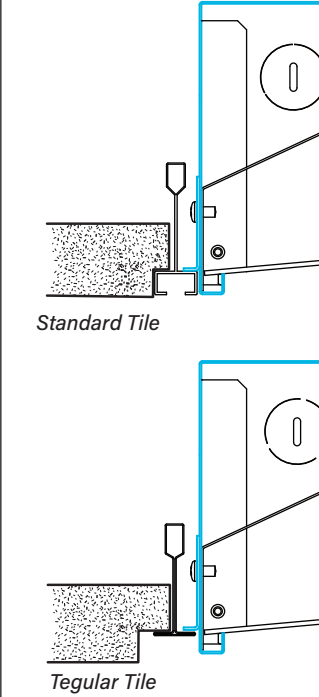
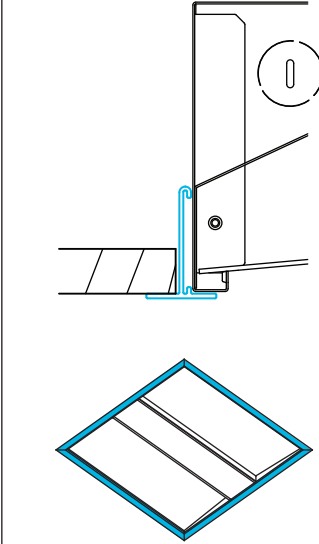
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TR24\_LED\_SPEC\_APRIL2025

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 at the jobsite
  - Approved for dry/damp location
  - Maximum fixture weight is 27.3lbs

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

Voltage

- Some TRAVERSE configurations will not accommodate all voltage options; consult with factory

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

<b>FSD</b>	Factory Select Driver 1%, 0-10v
<b>PL2</b>	Advance Xitanium 1%, 0-10v
<b>OL2</b>	eldoLED Optotronic, 1%, 0-10v
<b>OL4</b>	eldoLED Optotronic 347v, 1% 0-10v, requires 347v option
<b>EE1</b>	eldoLED ECOdrive 1%, 0-10v, Logarithmic
<b>EE2</b>	eldoLED ECOdrive 1%, 0-10v, Linear
<b>ES1</b>	eldoLED SOLOdrive 0.1%, 0-10v, Logarithmic
<b>ES2</b>	eldoLED SOLOdrive 0%, 0-10v, Linear
<b>OL5</b>	eldoLED Optotronic 1%, 0-10v, AUX

### DALI Drivers

<b>EE3</b>	eldoLED ECOdrive .1%, DALI, Logarithmic
<b>OD1</b>	eldoLED Optotronic 1%, DEXAL
<b>PR1</b>	Advance Xitanium SR, DALI 2, Self powered link

### Lutron Drivers

<b>LH1</b>	Lutron Hi-lume Soft-on, Fade-to-black 1%, EcoSystem, LDE1
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## Circuiting

- Select fixture circuiting from options below
- Some TRAVERSE configurations will not accommodate all circuiting options; consult with factory

<b>1</b>	Single Circuit
<b>E</b>	Emergency Circuit only
<b>N</b>	Night Light Circuit only

## Battery & Emergency

- Select battery or emergency options if required
- Battery duration is 90 minutes
- Test button is integral to fixture
- For more Battery options, see Pinnacle Resource Guide

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

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

Quick Ship

Shielding	Output	Mounting	Voltage	Driver	Circuiting	Battery	Finish	Options
10-Day								
<b>W</b> White Rails	80 CRI, All color temperatures, all lumen packages <i>See pg 2</i>	<b>G1</b> 1" Grid <b>G9</b> 9/16" Grid <b>GS</b> Screw Slot	<b>U</b> 120v <b>1</b> 277v <b>2</b>	<b>FSD</b> Factory Select Driver (1%, 0-10v) <b>PL2</b> Advance Xitanium 0-10v, 1% <b>OL2</b> Osram 0-10v, 1%	<b>1</b> Single <b>E</b> Emergency <b>N</b> Night Light	<b>0</b> None <b>FSB</b> Factory Se-lect Battery Iota 10w <b>ILL</b> Bodine 10w <b>PLL</b>	<b>W</b> White	<b>CP</b> Chicago Plenum <b>FW6</b> 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

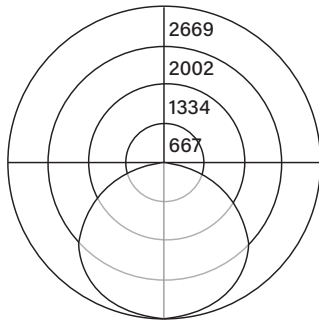
	Solution	Components	Network/Sensor	Connection	Required Drivers	Limitations
<b>DLMFC</b>	Legrand Wattstopper DLM	LMFC-011	Digital Lighting Management (DLM)	Wired, two RJ45 ports	OL2	Not available with Battery
<b>DLMFS</b>	Legrand Wattstopper LLLC	LMFS-601-W / LMFI-111	Wireless DLM Fixture Sensor	Wireless	OD1, PR1I or 0-10v	0-10v requires interface
<b>SNSLM</b>	Encelium SensiLUM	EN-CLM-PIR-DD-ZB	Encelium, Daylight/PIR Occupancy	Wireless	OD1, OL5	
<b>LEVIS0</b>	Leviton Intellect Sensor	ZL07S-N00	Leviton Intellect, Daylight/PIR Occupancy	Wireless	OL5	
<b>ENLI</b>	Enlighted IOT	SU-5E-IOT	Enlighted, Daylight/PIR Occupancy	Wireless	ANY 0-10V	
<b>ENLC</b>	Enlighted Connected Lighting	SU-5E-CL	Enlighted, Daylight/PIR Occupancy	Wireless	ANY 0-10V	
<b>ENL2I</b>	Enlighted 2-Wire IOT	KIT-SU-5E-D-IOT	Enlighted, Daylight/PIR Occupancy	Wireless	OD1, PR1	
<b>ENL2C</b>	Enlighted 2-Wire Connected Lighting	KIT-SU-5E-D-CL	Enlighted, Daylight/PIR Occupancy	Wireless	OD1, PR1	



## 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](http://pinnacle-ltg.com). Photometry testing in accordance to IESNA-LM-79-08 at an NVLAP 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. Maximum fixture weight is 27.3 lbs.

**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](http://pinnacle-ltg.com).

**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/30°C. 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:** DLM utilizes wired network connections for digital control through switching and dimming. ENCELUM SensiLUM sensor provides wireless control, daylight harvesting and PIR occupancy using 0-10V, DEXAL or SR LED drivers. Leviton Intellect sensor provides wireless control, daylight harvesting and PIR occupancy detection using 0-10V, DEXAL or SR LED drivers. Enlighted Smart Sensor provides multi-functionality including daylight harvesting and PIR occupancy; for IOT or Connected platform using 0-10V, DEXAL or SR LED drivers.

**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.