PINNACLE
ARCHITECTURAL LIGHTING®

Project Name _____

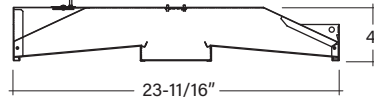Date _____ Type _____

TRAVERSE TR22
2x2 Architectural Recessed

4"

23-11/16"

Key Features

- Three-piece luminous lens design offers elevated style and visual comfort
- White or Silver center rails
- Up to 6000 delivered lumens (2x2) with 80CRI or 90CRI options
- High performance efficacy up to 147 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

c(UL)us · IC RATED · LED · SMART · 5 YEAR LED WARRANTY · DESIGNED IN DENVER CO. · QUICKSHIP

Example Part #: TR22-W-830HO-G1-U-FSD-1-0-W

TR22

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

_ _	_ _ _ _ _ _	_ _ _ _ _ _	_
SHIELDING	**SOURCE[1]** *QS*	**MOUNTING**	**VOLTAGE**
W - Satine Lens with White Rails *QS* **S** - Satine Lens with Silver Rails *Shielding pg. 2*	**_27_ _** - 2700K **_30_ _** - 3000K **_35_ _** - 3500K **_40_ _** - 4000K **CL_ _ _ _ _ _** - Custom Lumens **CW_ _ _ _ _ _** - Custom Watts *Lumen Output pg. 2*	**G1** - 15/16" Grid *QS* **G9** - 9/16" Grid *QS* **GS** - Screw Slot Grid *QS* **FL** - Flanged *Mounting pg. 3*	**U** - Universal *(120 thru 277V)* *QS* **1** - 120V *QS* **2** - 277V *QS* **3** - 347V *Voltage pg. 3*

_ _ _	_	_ _ _	_ _
DRIVER	**CIRCUITING**	**BATTERY & EMERGENCY**	**FINISH**
FSD - Factory Select Driver *(1%, 0-10v)* *QS* **PL2** - Advance Xitanium *(1%, 0-10v)* *QS* **OL2** - eldoLED Optotronic *(1%, 0-10v)* *QS* **OL2** - 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 *Driver pg. 4*	**1** - Single Circuit *QS* **E** - Emergency *QS* *(entire fixture)* **N** - Night Light *QS* *(entire fixture)* *Circuiting pg. 4*	**0** - None *QS* **FSB** - Factory Select Battery *QS* **FSG** - Factory Select ALCR **GI** - Iota ETS DR **GB** - Bodine GTD **1ILL** - Iota 10W, Lithium, Self Testing *QS* **1PLL** - Bodine 10W, Lithium, Self Testing *QS* *Battery and Emergency pg. 4*	**W** - White *QS* *Finish pg. 5*

_ _ _ _	_ _ _
FIXTURE OPTIONS[2]	**CONTROLS**[3]
QS - QuickShip *QS* **TW** - Through-wiring **CP** - Chicago Plenum *QS* **AR** - Air Return **AM** - Antimicrobial Paint **FW6** - 6' Flex Whip *QS* *Fixture Options pg. 5*	**DLMFC** - Wattstopper DLM *(wired)* **DLMFS** - Wattstopper LLLC *(wireless)* **SNSLM** - Encelium SensiLUM *(wireless)* **LEVIS0** - Leviton Intellect Sensor *(wireless)* **ENL_** - Enlighted IOT *(wireless)* **ENL2_** - Enlighted 2-Wire IOT *(wireless)* *Controls pg. 6*

[1]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. [2]If specifying QS, QS must be used in fixture options section of part number to qualify. [3]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.
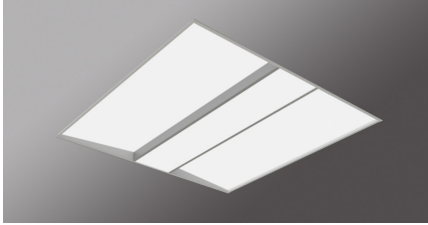
Shielding

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

W	S
Satine Lens with White Rails	Satine Lens with Silver Rails

Output

- 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

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 Lumens	LPW	S Silver Trim Lumens	LPW
830LO	3000K	Low	17.0	2416	142	2295	135
830MO	3000K	Middle	28.5	3820	134	3629	127
830HO	3000K	High	38.2	4995	131	4746	124
830VHO	3000K	Very High	46.1	5875	127	5581	121
835LO	3500K	Low	17.0	2426	143	2305	136
835MO	3500K	Middle	28.5	3836	135	3645	128
835HO	3500K	High	38.2	5016	131	4766	125
835VHO	3500K	Very High	46.1	5899	128	5605	122
840LO	4000K	Low	17.0	2491	147	2367	139
840MO	4000K	Middle	28.5	3939	138	3742	131
840HO	4000K	High	38.2	5151	135	4893	128
840VHO	4000K	Very High	46.1	6058	131	5755	125

90 CRI
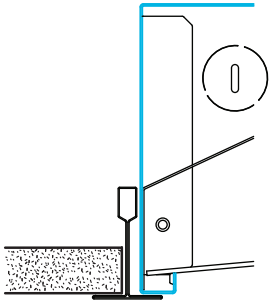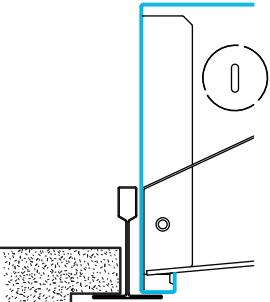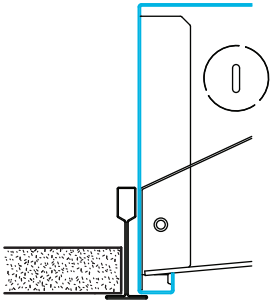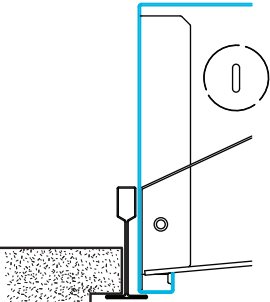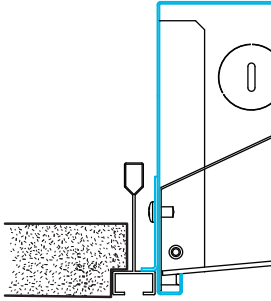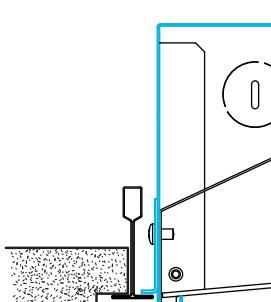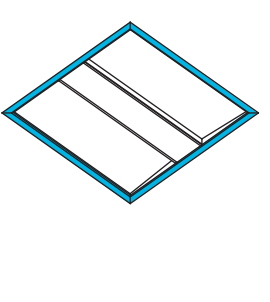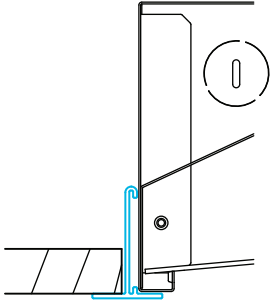
	Color	Output	Watts	White Trim Lumens	LPW	Silver Trim Lumens	LPW
927LO	2700K	Low	17.0	2004	118	1903	112
927MO	2700K	Middle	28.5	3168	111	3010	106
927HO	2700K	High	38.2	4143	108	3935	103
927VHO	2700K	Very High	46.1	4872	106	4628	100
930LO	3000K	Low	17.0	2052	121	1950	115
930MO	3000K	Middle	28.5	3245	114	3083	108
930HO	3000K	High	38.2	4243	111	4031	106
930VHO	3000K	Very High	46.1	4990	108	4741	103
935LO	3500K	Low	17.0	2142	126	2035	120
935MO	3500K	Middle	28.5	3387	119	3217	113
935HO	3500K	High	38.2	4428	116	4207	110
935VHO	3500K	Very High	46.1	5208	113	4947	107
940LO	4000K	Low	17.0	2199	129	2089	123
940MO	4000K	Middle	28.5	3477	122	3303	116
940HO	4000K	High	38.2	4546	119	4319	113
940VHO	4000K	Very High	46.1	5346	116	5079	110

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pg. 2

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 15.4lbs

G1	G9	GS	FL
1" Grid Mount *Works with 15/16" grid ceiling types. See profile for fixture position in relation to ceiling grid and tile.*	**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.*	**Screw Slot Mounting** *Works with screw slot and bolt slot grid ceiling types.*	**Flange Kit** *A separate flange kit is supplied for installations into inaccessible or drywall applications. Flange kit ships from factory uninstalled separately from fixture.*

Standard Tile (G1)
Standard Tile (G9)
Standard Tile (GS)

Tegular Tile (G1)
Tegular Tile (G9)
Tegular Tile (GS)

Voltage

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

U	Universal
1	120 volt
2	277 volt
3	347 volt

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pg. 3

PINNACLE ARCHITECTURAL LIGHTING® TRAVERSE TR22 Architectural Recessed

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
DALI Drivers	
EE3	eldoLED ECOdrive .1%, DALI, Logarithmic
OD1	eldoLED Optotronic 1%, DEXAL
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

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

- Test button is integral to fixture
- For more Battery options, see Pinnacle Resource Guide

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

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Finish

▪ Powder-coat white painted finish

W	White

Fixture Options

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

QS	Quick Ship
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 *See pg 2*	G1 G9 GS	1" Grid 9/16" Grid Screw Slot	U 1 2	Universal 120v 277v	FSD PL2 OL2	Factory Select Driver *(1%, 0-10v)* Advance Xitanium 0-10v, 1% Osram 0-10v, 1%	1 E N	Single Emergency Night Light	0 FSB ILL PLL	None Factory Select Battery Iota 10w Bodine 10w	W	White	CP FW6	Chicago Plenum 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	Not available with Battery
DLMFS	Legrand Wattstopper LLLC	LMFS-601-W / LMFI-111	Wireless DLM Fixture Sensor	Wireless	OD1, PR1I or 0-10v	0-10v requires interface
SNSLM	Encelium SensiLUM	EN-CLM-PIR-DD-ZB	Encelium, Daylight/PIR Occupancy	Wireless	OD1, OL5	
LEVIS0	Leviton Intellect Sensor	ZL07S-N00	Leviton Intellect, Daylight/PIR Occupancy	Wireless	OL5	
ENLI	Enlighted IOT	SU-5E-IOT	Enlighted, Daylight/PIR Occupancy	Wireless	ANY 0-10V	
ENLC	Enlighted Connected Lighting	SU-5E-CL	Enlighted, Daylight/PIR Occupancy	Wireless	ANY 0-10V	
ENL2I	Enlighted 2-Wire IOT	KIT-SU-5E-D-IOT	Enlighted, Daylight/PIR Occupancy	Wireless	OD1, PR1	
ENL2C	Enlighted 2-Wire Connected Lighting	KIT-SU-5E-D-CL	Enlighted, Daylight/PIR Occupancy	Wireless	OD1, PR1	

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pg. 5

Photometrics

Satine Lens

Test #	5157-5
Catalog #	TR22-W-835
Lumens	6209 lm
Watts	46.7 W
Efficacy	133 LPW

2178
1634
1089
545
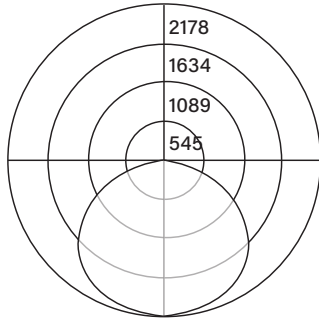
Candela Distribution

Vert Angle	Horizontal Angle				
	0	22.5	45	67.5	90
0	2172	2172	2172	2172	2172
5	2169	2160	2157	2159	2163
10	2134	2124	2125	2131	2136
15	2077	2069	2076	2088	2097
20	1999	1994	2010	2034	2049
25	1902	1902	1932	1969	1990
30	1789	1793	1838	1893	1923
35	1659	1668	1727	1801	1839
40	1515	1529	1600	1686	1731
45	1362	1378	1457	1548	1595
50	1206	1220	1300	1387	1430
55	1040	1052	1126	1201	1239
60	870	880	940	999	1029
65	700	701	746	790	812
70	532	529	557	584	598
75	366	362	377	392	400
80	215	212	215	220	223
85	142	184	175	165	163
90	20	19	20	20	22

Luminance Data (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5178	5538	6064
55	4875	5278	5809
65	4453	4746	5163
75	3797	3914	4157
85	4394	5394	5021

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 accredited testing laboratory. Testing conducted at 25℃ 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 15.4 lbs.

LED: 25℃ 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.

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), 277 volt (2) and 347 volt (3) 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℃ 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: DLM utilizes wired network connections for digital control through switching and dimming. ENCELIUM 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: 15.4 lbs maximum.

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

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