OUTDOOR LIGHTING

Date:	**Approved:**
Type:	
Luminaire:	
Project:	

FCI-TXXXR(S)-RCW

(Recessed Ceiling / Wall Series)

WORLD CLASS FEATURES

Precision Aperature Glass Masking

Flush Zero-Sightline Design

World Class Durability Package

- IP66, IP67, IP68, IP69K
- IK10 Max Impact Resistance
- 2,200 lb Heavy Duty Walkover

World Class Easy Install Package

- Field Wirable IP68 Connection System
- Toolless Lever-Lock Termination Method

SPECIFICATIONS

PHYSICAL

dimensions	**Luminaire:** (FCI-T175R/S) Ø 1.77" x 2.48" D, (FCI-T250R/S) Ø 2.52" x 2.99" D **Well Housing:** (See drawings on page 5.)
housing	**Luminaire:** Fully silicone high temperature potted, marine grade, corrosion-resistant, heavy-walled, solid low copper alloy, precision CNC body with with silicone seals. Protected by a captive Nickel Plated Alumium Alloy perimeter flush wall with no visible fasteners for a clean aesthetics. **Well Housing:** High-strength, heavy-walled PVC polymeric material featuring UL 746C f1 UV protection and a UL94 5VA flame rating.
lens	Heavy-gauge, thick, tempered low-iron high-transmission glass lens, IK10 (IEC 62262) impact-resistant. **Optional:** Internal anti-glare optical accessories.
mounting	Pavement, concrete, sand, soil
ingress protection	Luminaire is IP66, IP67, IP68, and IP69K rated (IEC 60529) to withstand water, moisture, and high-pressure jet washdowns. ETL Listed for dry, damp or wet locations. Cabling is anti-syphon (standard) with IP68 waterproof connection systems available as an optional accessory.
impact resistance	IK10 (IEC 62262) impact-resistant for all models and sizes. Heavy-Duty walk over compliant up to 1000 kg (approximately 2,204 lbs).
finish	Housing is chemically cleaned, e-coated, and processed through a 7-stage pretreatment wash before application of UV-resistant, super-durable polyester powder coat at a minimum 18 µm dry-film thickness. Finish withstands a minimum 5,000 hour salt spray test per ASTM B117 and complies with AAMA 2604 and Florida requirements for superior corrosion resistance and weatherability.

PERFORMANCE

color	2700K, 3000K, 3500K, 4000K - 93 CRI (standard)
lumen output	50 lm - 500 lm
beam spread	NSP (5°), SP (18°), NFL (24°), FL (36°), WFL (60°), DO (Diffused) **Note:** Beam angle options vary by size, see IES files for specific beam angles.
lumen maintenance	L70 > 100,000 hours
operating temperature	-22°F to 122°F (-30°C to 50°C)
warranty	5-Year limited warranty

ELECTRICAL

input voltage	24 VDC, **Optional:** UNV (120 - 277 VAC) (includes well housing driver)
power consumption	1W - 5W
power supply	Well housing integral for UNV models (IP67 Rated - see installation instructions). Remote driver options for 24VDC models (order separately - see DRIVER section).
certification	ETL
standards	UL1598 / CSA C22.2 No. 250.0 - Class I / IES LM-79 / LM-80
dimming	Both 24 VDC with REMOTE POWER and UNV Models are Tri-Dim (1%, 0-10V, 120 - 277 VAC), (1%, TRIAC & ELV, 120 VAC Only) standard.
cabling	Optional direct burial cabling options for 24 VDC & UNV available.

Intertek RoHS 2002/95/EC

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Ordering Information

ORDERING INFORMATION

	RCW							
MODEL	**SERIES**	**VOLTAGE**	**LIGHT SOURCE**	**COLOR**	**POWER (Typical)**	**OPTICS (Typical)**	**GLASS TYPE (Screen Printing)**	**DIMMING**
FCI-T175R[1] 1.75" (45mm) Round					**02W*** 2W (100 Lumens) **01W*** 1W (50 Lumens)			
FCI-T250R 2.50" (64mm) Round					**05W*** 5W (250 Lumens) **03W*** 3W (200 Lumens)			
FCI-T175S[1] 1.75" (45mm) Square					**02W*** 2W (100 Lumens) **01W*** 1W (50 Lumens)			
FCI-T250S 2.50" (64mm) Square					**05W*** 5W (250 Lumens) **03W*** 3W (200 Lumens)			
	RCW Recessed Ceiling/Wall	**24VDC** 24 VDC **UNV** 120 - 277 VAC [1]**UNV** *not available for FCI-T175R & FCI-T175S sizes.*	**COB** Chip on Board **LED**** SMD LED Discrete	**927** 93 CRI, 2700K **930** 93 CRI, 3000K **935** 93 CRI, 3500K **940** 93 CRI, 4000K		**NSP** Narrow Spot **SP** Spot **NFL** Narrow Flood **FL** Flood **WFL** Wide Flood **DO** Diffused **Note:** *All Optic except DO to only be used with ASE Glass Type.* **Note:** *DO Optic only with SHW or LVS.* **Note:** *See IES files for specific beam angles.*	**SHW** Slot Horizontal Window **LVS** Linear Vertical Slot **ASE** Asymmetric Scoop Eyelid	**TD***** Tri-Dim (1%, 0-10V, 120 - 277 VAC), (1%, TRIAC & ELV, 120 VAC Only)

***Note:** *Remote drivers require a minimum of 6W for startup, i.e. two 5W units minimum. See page 3 for driver specifications.*
****Note:** *LED Option availble for NSP Option Only and required on all FCI-T175R & FCI-T175S Models.*
*****Note:** *TD Option with 24VDC requires REMOTE 24VDC POWER Options. Leave blank if no UNV or REMOTE 24VDC is selected, function will be no dimming (ON/OFF).*
Note: *Lumen output typical based on 940 color & NFL optic, see IES files for complete details.*

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Ordering Information

DRIVERS

INTERIOR - REMOTE 24VDC POWER OPTIONS – Dry, Damp, Wet Location UL Listed
Dimming TD Standard - Tri-Dim (1%, 0-10V, 120 - 277 VAC), (1%, TRIAC & ELV, 120 VAC Only)

_____ **DRR-UNV-24VDC-30W-TD**

_____ **DRR-UNV-24VDC-60W-TD**

_____ **DRR-UNV-24VDC-96W-TD**

IMPORTANT: Remote power supplies must not exceed 80% capacity to prevent overheating and voltage drop.
(Power Supply Wattage × 0.80) ÷ Luminaire Wattage = Maximum Luminaires. (Example: (96W × 0.80) ÷ 5W = 15 luminaires max, rounded down).

EXTERIOR - REMOTE 24VDC POWER OPTIONS – IP66, IP67, IP69 UL Listed
Dimming TD Standard - Tri-Dim (1%, 0-10V, 120 - 277 VAC), (1%, TRIAC & ELV, 120 VAC Only)

_____ **DRX-UNV-24VDC-30W-TD**

_____ **DRX-UNV-24VDC-60W-TD**

_____ **DRX-UNV-24VDC-96W-TD**

IMPORTANT: Remote power supplies must not exceed 80% capacity to prevent overheating and voltage drop.
(Power Supply Wattage × 0.80) ÷ Luminaire Wattage = Maximum Luminaires. (Example: (96W × 0.80) ÷ 5W = 15 luminaires max, rounded down).

ACCESSORIES *(Order separately. Indicate the quantity needed for each item. See page 4 for wiring chart and illustration.)*

_____ **E62902-XX** 18AWG 2C UL DIR BUR CABLE (for 24VDC Option) (XX provide feet in length)

_____ **E62905-XX** 18AWG 5C UL DIR BUR CABLE (for UNV Option) (XX provide feet in length)

_____ **ES1** WATERPROOF WIRE NUTS IN BAG (5PCS). SOLD BY THE BAG. (Qty 1 = 1 Bag). (See wiring chart and illustration section.)

_____ **EW-P20-2P** 24VDC IP68 2-WAY CONNECTOR (only for 24VDC)

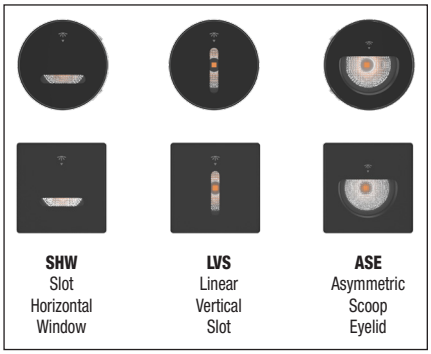
_____ **EW-P20T-2P** 24VDC IP68 3-WAY CONNECTOR (only for 24VDC)

_____ **FCI-T-ADJ-TOOL** FCI-T-ADJ ADJUSTABLE TOOL (only for FCI-T-ADJ Models)

_____ **FCI-T-SUCTION** FCI-T-ADJ SUCTION CUP TOOL (for removal/adjustments)

_____ **FCI-T-SUCTION-SMALL** FCI-T-SUCTION CUP TOOL - SMALL for FCI-T175R/S Models (for removal/adjustments)

GLASS TYPE (SCREEN PRINTING)



SHW
Slot
Horizontal
Window

LVS
Linear
Vertical
Slot

ASE
Asymmetric
Scoop
Eyelid

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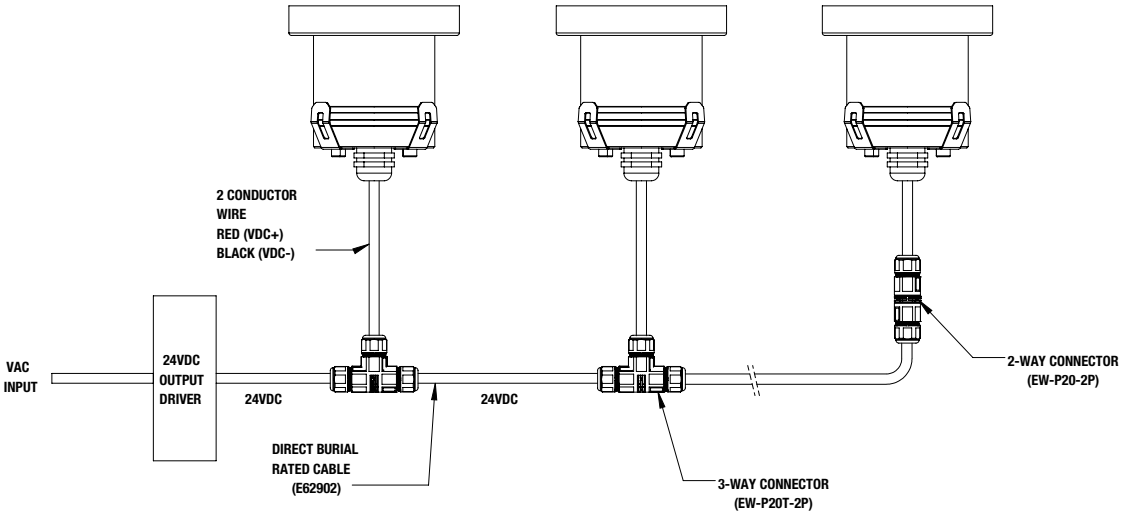
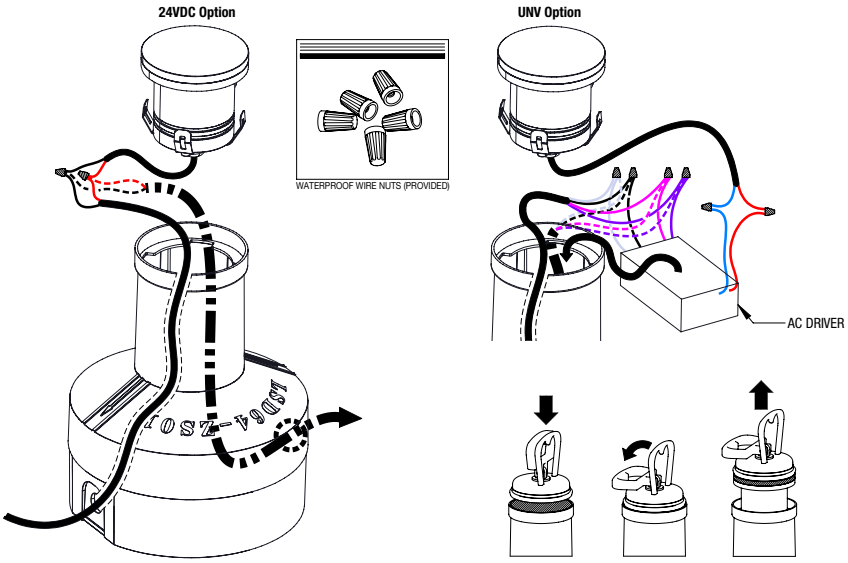
Wiring Information

WIRING CHART AND ILLUSTRATION

MAXIMUM WIRING DISTANCE (Feet)					
WIRE SIZE	10AWG (5.6mm²)	12AWG (3.3mm²)	14AWG (2.0mm²)	16AWG (1.3mm²)	18AWG (0.78mm²)
UNV (120 - 277 VAC)	357	210	137	85	54
30W (24VDC)	480	282	185	114	73
60W (24VDC)	300	176	115	71	45
100W (24VDC)	120	71	46	29	18





Note: *See installation instructions for full details.*

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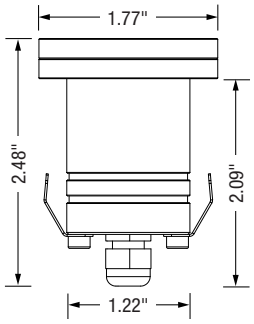
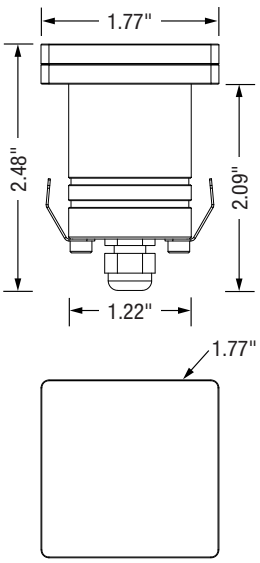
Dimensions

PRODUCT DIMENSIONS - STANDARD PRODUCT

Marine grade aluminum with nickel plated alloy construction.

FCI-T175R/S





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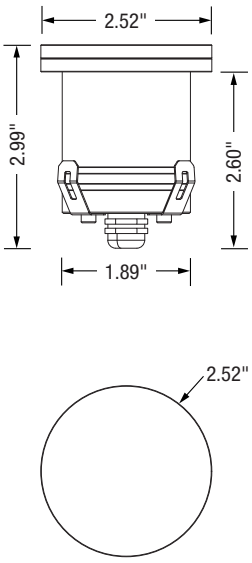
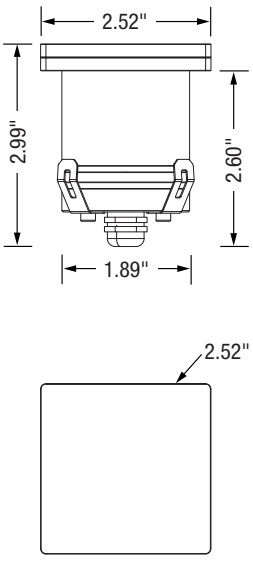
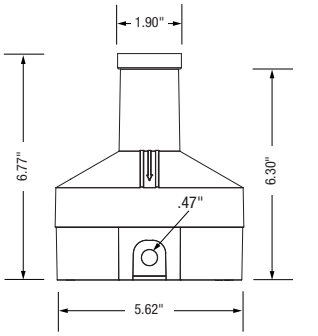


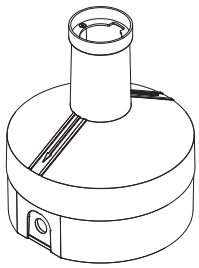


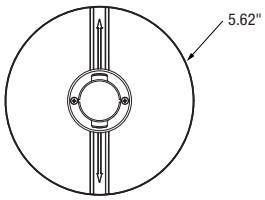
MOUNTING - *well housing included, one per luminaire*

French drain required for proper installation, see installation instructions.

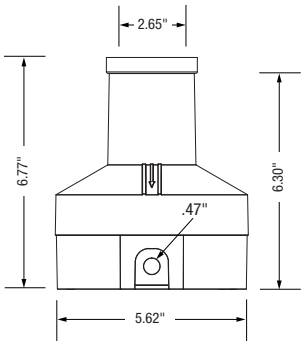
FCI-T175R/S (Square Models have Square Nickel Plated Alloy Insert)

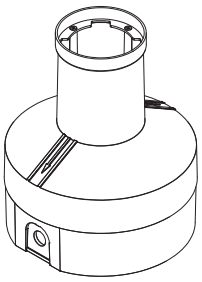


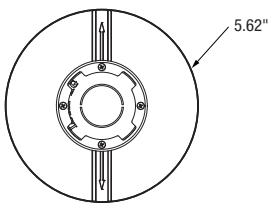




FCI-T250R/S (Square Models have Square Nickel Plated Alloy Insert)







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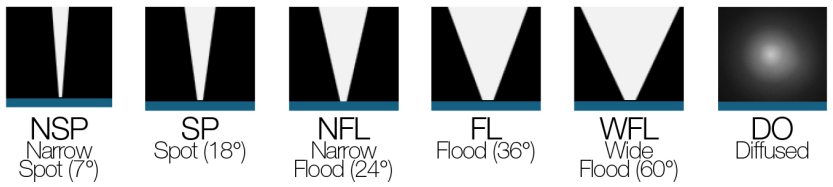
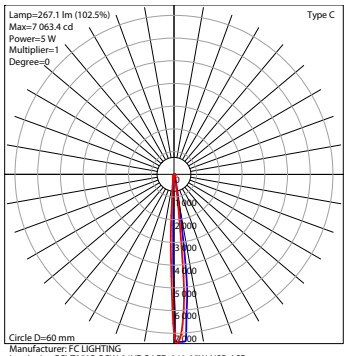
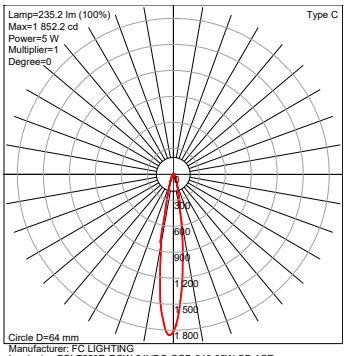
Photometry

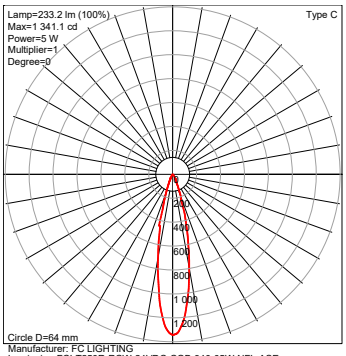
OPTICAL DISTRIBUTION - See IES files for complete details.

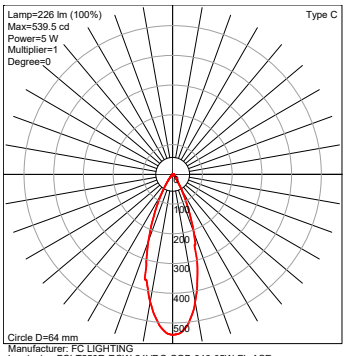


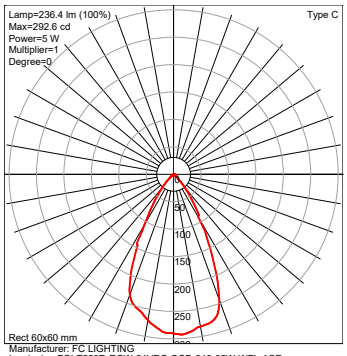
Note: Beam angle options vary by size, see IES files for specific beam angles

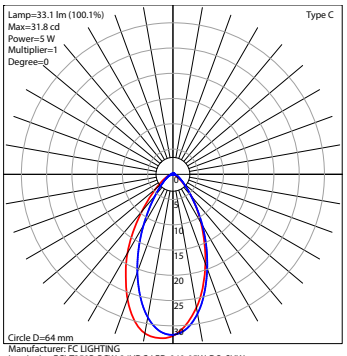


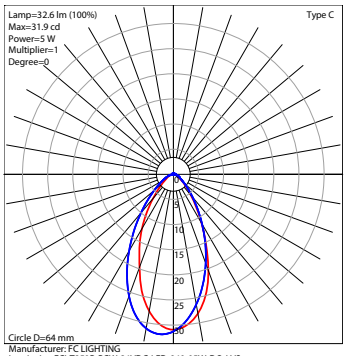












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