OUTDOOR LIGHTING

FCD10R-LED

Discrete LED Optical Solutions

WORLD CLASS FEATURES

World Class Features

- +143K Max Candela, +380ft @ 1fc (VNSP @ 60W)
- Best in Industry 12-Year Limited Warranty
- Rated IP66, IP67, IP68, IP69K (1,450 PSI at 176°F)
- Purest Stainless Steel Grade 316L with Titanium Coating (TiN)
- Class 1 Division 2 Type HL Power Supply with 6KV/4KV Surge Protection
- True Plug and Play, No Tools for Replacement, No Visible Fasteners

Best in Class Features

- Up to 40° of Bi-directional Optical Tilt (20° Dual-axis)
- IK10 Max Impact Resistance
- Dynamic Drive Over Rating of 5000kg (11,000 lbs)
- Foolproof Keyed Connectors
- External Aiming Adjustment (Standard)

Intertek

SPECIFICATIONS

PHYSICAL

length/dimensions/weight	**Luminaire:** 10.6" Ø x 7.7" D, **Well Housing:** 12" Ø x 12.5" D, **Combined Weight:** 10 lbs
housing	**Luminaire:** Marine grade, corrosion-resistant, heavy-walled, solid low copper alloy, precision die-casted aluminum body with solid copper coil inserts for optimal heat transfer to gimbal assembly. Zero friction adjustment with thermally conductive coatings allows for superior performance and durability. Finished to the highest grade (see finish) for ultimate corrosion protection with no visible fasteners when installed. **Wiring Box:** Marine grade, corrosion-resistant, heavy-walled, solid low copper alloy, precision die-casted aluminum body wiring box comes finished to the highest grade (see finish) with two ½ NPT IP68 Plugs Installed, 90 degree over molded connector, anti-wicking with sealed dust cap to prevent debree prior and during installation. Includes internally 5 waterproof wiring nuts and 2 cable glands to assist installation. Available to ship in advance, see FCD10R-WELL-WIRING-KIT. **Trim Ring:** Purest Stainless Steel Grade 316L with titanium coating (5 µm Titanium Nitride (TiN)) via Vacuum Metallization provides the highest prevention against tarnish, varnish, heavy abrasions, and severe corrosion protection. Features hidden access door for adjustment with seamless integration and no visible fasteners (standard). **Well Housing:** High-strength, high-impact, heavy-walled PVC polymeric material featuring UL 746C f1 UV protection and a UL94 5VA flame rating. Comes with Splatter Guard and 316SS Anchor Stakes to secure footing into soil, gravel, or concrete.
lens	Each lens type is IK10-certified (IEC 62262) and features 10 mm thick, low-iron tempered glass. The Standard Lens features high light transmission and robust protection for internal components. The optional **ARAS** (Anti-Reflective, Anti-Scratch) upgraded glass adds an internal Sol-Gel/Pyrolytic AR silica-matrix coating for ultra-high light transmission, along with a hydrophobic external coating that helps repel dirt, supports self-cleaning, and improves resistance to scratches and abrasion. An additional **SR** (Slip-Resistant) coating can be applied externally to any glass option. It helps reduce slipping in wet or icy conditions, including rain, snow, and sleet.
mounting	Suitable for mounting in concrete, sand and soil with included pour sleeve and proper drainage.
ingress protection	Luminaire is IP66, IP67, IP68, and IP69K Rated (IEC 60529) to withstand water, moisture, and high-pressure jet, high-temperature washdown procedures up to 1,450 PSI at 176°F. ETL Listed for dry, damp or wet locations. Plug & Play cabling systems are anti-syphon (standard) with IP68 waterproof connection, shipped with sealed dust cap to prevent contaminants prior to installation.
impact resistance	IK10 (IEC 62262) impact-resistant for all models and sizes. Dynamic Drive Over Rating of 5000kg (11,000 lbs). See Installation Instructions for Heavy-Duty Walk Over Ratings.
installation	Plug & Play Cconnection system is over-molded, anti-syphon, sealed with dust caps prior to use and is completely connectorized system from wiring box to luminaire. 360 degree rotation of light and field adjustable tilt allows site aiming of luminaire.
finish	Housing is shot peen, chemically cleaned, e-coated, and processed through a 7-stage pretreatment wash before application of UV-resistant, TGIC polyester powder coat at a minimum 18 µm dry-film thickness. Paint 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. 316L Trim provides an ultimate structural lifespan up to 50 years.

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Intertek

SPECIFICATIONS *(continued from page 1)*

PERFORMANCE	
source	LED (high power, narrow beam angle)
color temperature	2700K, 3000K, 3500K, 4000K - 93 CRI (standard), 3SDCM
lumen output	Up to 3,784.1 lm @ 60W, 143,661.8 Max Cd. See IES files for complete details.
beam spread	Very Narrow Spot - 7°, Narrow Spot - 9°, Spot - 13°, Narrow Flood - 22°, Flood - 32°, Wide Flood - 55°
array tilt	+/– 20° exterior adjustment, 360° field rotatable
lumen maintenance	L70 > 100,000 hours
operating temperature	-22°F to 122°F (-30°C to 50°C)
warranty	Factory Sealed, 12-Year Limited Warranty

ELECTRICAL	
input voltage	Universal 120 - 277 VAC
power consumption	20W, 38W, 45W, and 60W MAX Input Power Options
power supply	Integral Class I, electronic high-power factor 99% @ 120V , 96% @ 277V. Driver has 6KV/4KV Surge protection (standard). Additional, 10KV/10KA Surge protection (option) installed into wiring box (field-wireable) available. Short-Circuit Proof, Maximum Case Temp (110 °C), Independent Type HL for Class 1, Div 2 applications.
certification	ETL / cETL Listed, FCC-Part 15 Class A
standards	UL1598 / CSA C22.2 No. 250.0 - Class I / IES LM-79 / LM-80
dimming	0-10V (1%) Dimming Standard

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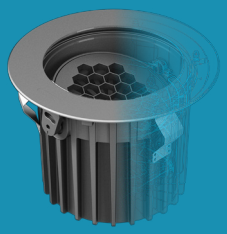


Ordering Information

ORDERING INFORMATION

FCD10R	ADJ	UNV	LED						
MODEL	**SERIES**	**VOLTAGE**	**LIGHT SOURCE**	**COLOR**	**POWER (Typical)***	**OPTICS (Typical)**	**TRIM FINISH****	**OPTIONS*****	
FCD10R 10" Drive Over (Round)	ADJ Adjustable Gimble	UNV 120 - 277 VAC	LED SMD LED Source	927 93CRI, 2700K	60W 60W (4200 Lumens)	VNSP Very Narrow Spot (7°)	FTSS Flush Trim Stainless Steel	LD 0-10V Dimming (1%) Standard	
				930 93CRI, 3000K	45W 45W (3400 Lumens)	NSP Narrow Spot (9°)	BTSS Bevel Edge Trim Stainless Steel	LPVC Less PVC Housing (FCD10R-WELL-WIRING-KIT) ****Order Seperatel	
				935 93CRI, 3500K	38W 38W (3000 Lumens)	SP Spot (13°)		ARAS Anti-Reflective, Anti-Scratch Lens	
				940 93CRI, 4000K	20W 20W (1900 Lumens)	NFL Narrow Flood (22°)		SR Slip Resistant Lens	
						FL Flood (32°)		HC Honeycomb Louver	
						WFL Wide Flood (55°)		DF Soft Diffuser	

***Note:** *Based on 940 and FL Optic, See IES Files for complete details.*
****Note:** *For Trim Finish details see page 5.*
*****Note:** *For Lens Option details see page 4.*
******Note:** *LPVC must be ordered seperately.*

ACCESSORIES *(Order separately. Indicate the quantity needed for each item. See installation instructions for further details.)*

_____	**FCD10R-WELL-WIRING-KIT***	FCD10R WELL HOUSING + WIRING BOX (ships in advance of luminaire)
_____	**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 right.)
_____	**FCD10R-SUCTION**	FCD10R SUCTION CUP TOOL 6" OD (for removal / adjustments)
_____	**SPD**	10kV/10kV SURGE PROTECTOR - FIELD WIREABLE (wires into wiring box in the field)

WATERPROOF WIRE NUTS IN BAG (5PCS)

***FCD10R-WELL-WIRING-KIT INCLUDES:**

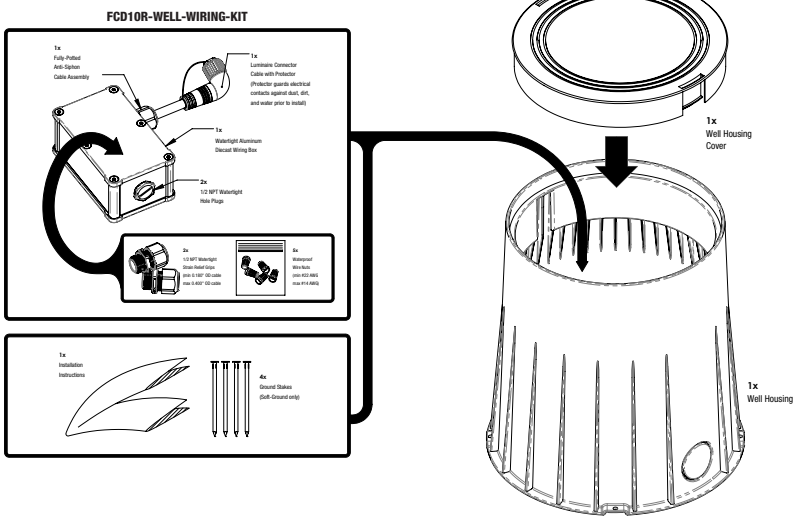
FCD10R-WELL HOUSING AND WIRING BOX KIT
1PC FCD10R WELL HOUSING
1PC FCD10R WELL HOUSING COVER
1PC FCD10R WIRING BOX

INCLUDES ASSEMBLED (FIELD WIREABLE READY):

1PC POWDER COATED DIECAST IP68 RATED BOX
1PC 90-DEGREE ANTI-SYPHON PLUG & PLAY CONNECTOR (24" LONG)
2PC SEALED PLUGS W/NUTS (INSTALLED)
1PC DUST CAP SEAL (ON 90 DEGREE CONNECTOR)

INCLUDES INSIDE:

2PC 1/2" NPT CABLE GLANDS
5PC WATERPROOF WIRING NUTS (BAGGED)
4PC SS RETAINING STAKES
FCD10R INSTALLATION INSTRUCTIONS (PRINTED/PACKED)



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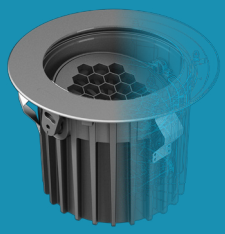
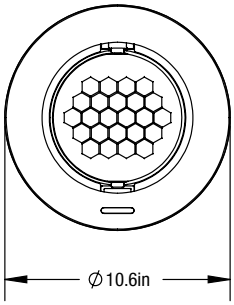
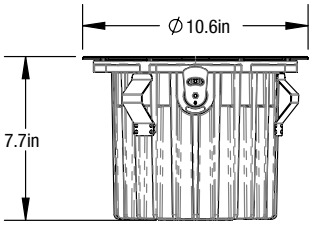


Dimensions

PRODUCT DIMENSIONS - STANDARD PRODUCT

width	outside diameter 10.6" Ø
depth	7.7" D

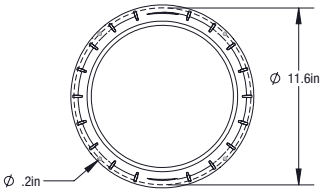


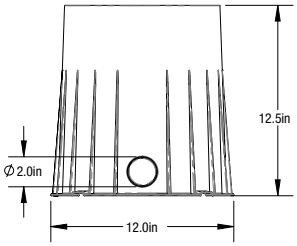


Note: Shown with BTSS Trim.

MOUNTING - *mounting sleeve included, one per luminaire*

PVC housing	12" Ø
well housing depth	12.5" D



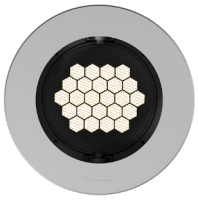


French drain required for proper installation, see installation instructions.

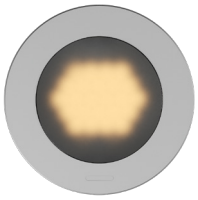
LENS OPTIONS

- **SR - Slip Resistant Lens**
- **HC - Honeycomb Louver**
- **DF - Soft Diffuser**

SR
Slip Resistant
Lens

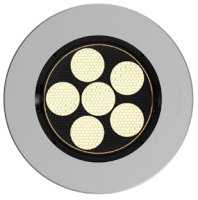


HC
Honeycomb
Louver

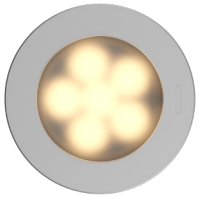


DF
Soft
Diffuser

SR
(Narrow Beam-7°)
Slip Resistant
Lens



HC
(Narrow Beam-7°)
Honeycomb
Louver



DF
(Narrow Beam-7°)
Soft
Diffuser

Note: Lens options are factory installed, not in the field.
Note: SR option can be combined with any internal optical accessory.

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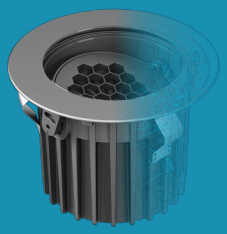


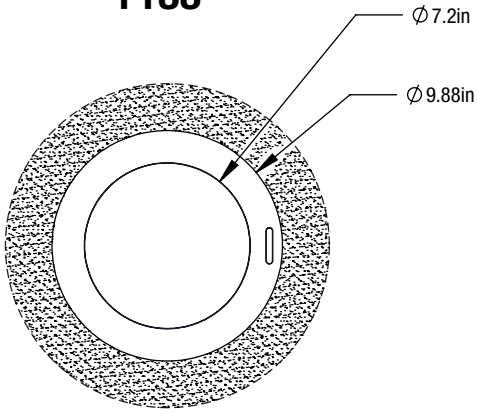
Dimensions

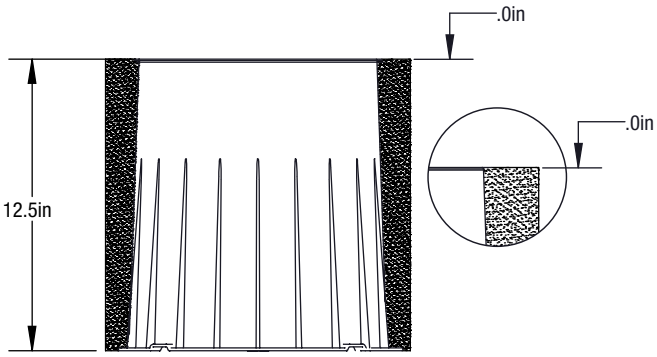
TRIM RING OPTIONS

FTSS - Flush Trim Stainless Steel

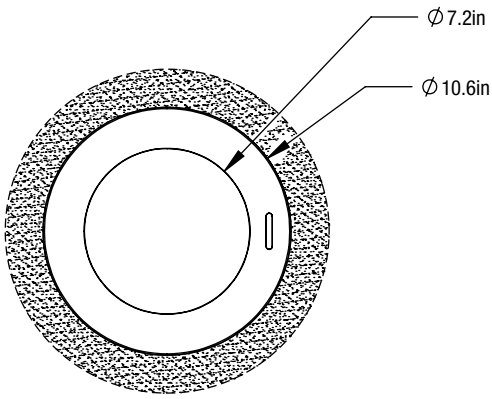
BTSS - Bevel Edge Trim Stainless Steel

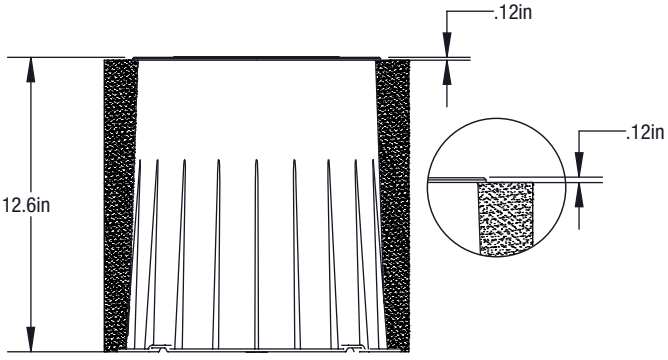
FTSS





BTSS





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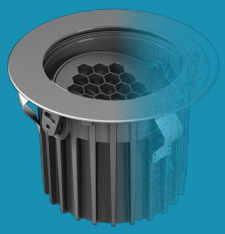
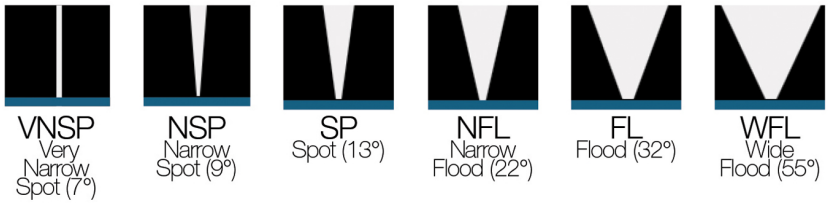
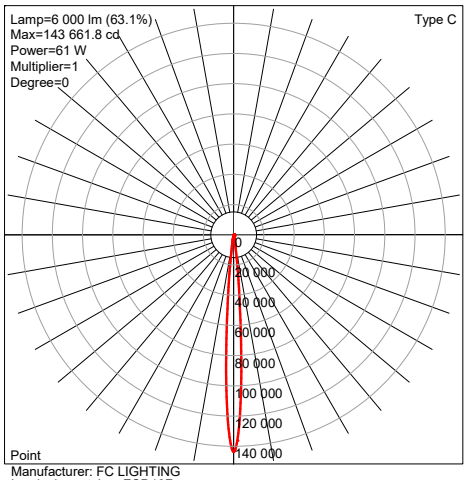


Photometry

OPTICAL DISTRIBUTION



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



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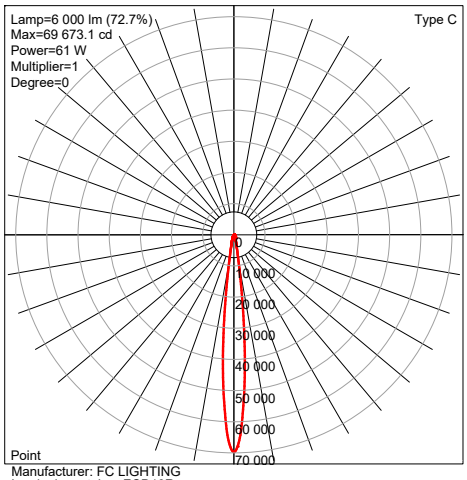
Luminaire catalog: FCD10R
Luminaire: FCD10R-ADJ-UNV-LED-940-60W-VNSP-BTSS-LD



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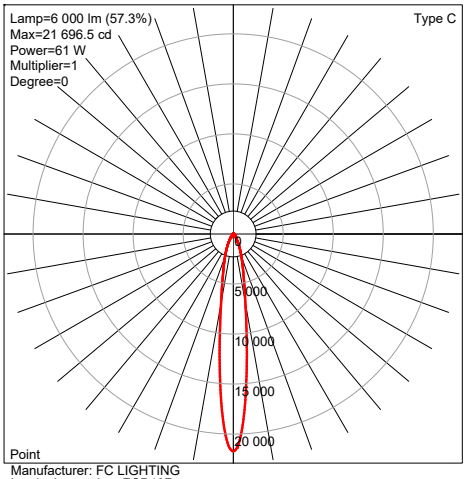

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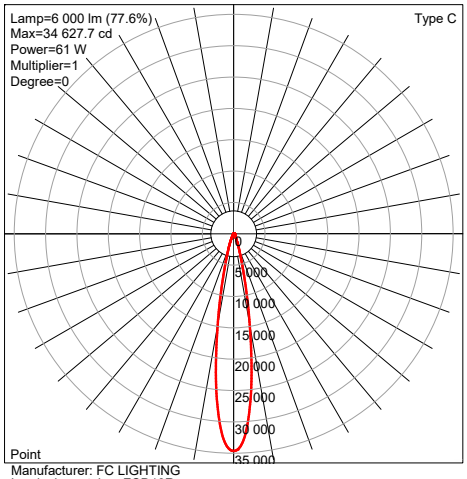

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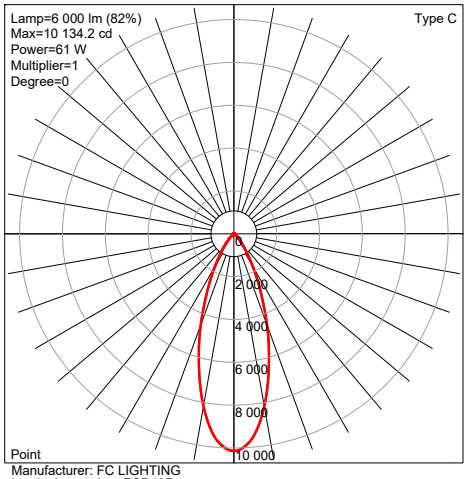

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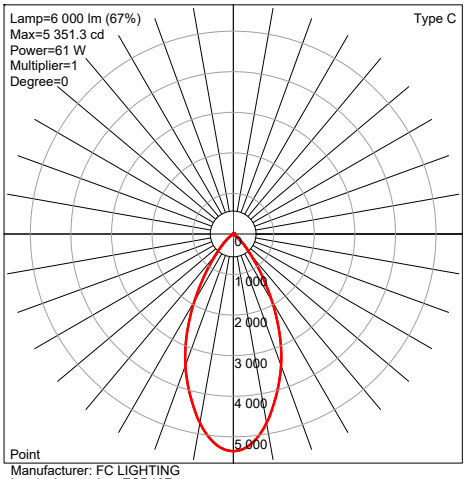

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