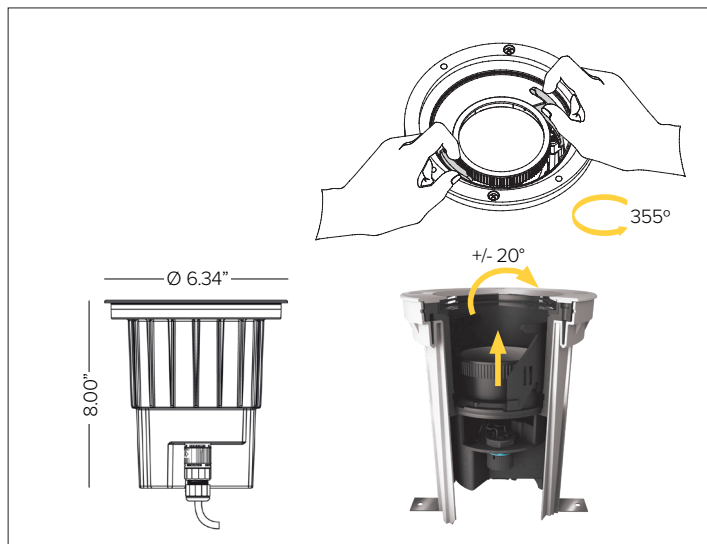


# KEPLERO MINI ZOOM

## Professional Inground LED Fixture



KEPLERO® MINI ZOOM with brushed natural trim and clear lens



### CONCEPT

Professional fully adjustable landscape inground fixture. As landscaping matures and changes overtime the zoom optic can be manually adjusted to adapt with the ever changing landscape conditions.

### MECHANICAL CHARACTERISTICS

<b>Housing</b>	8"H x 6.34"Dia. Housing.
<b>Materials</b>	Anodized marine grade cataphoresis <sup>A</sup> die-cast aluminum heat sink body with PVC installation sleeve. AISI316L stainless steel trim ring with beveled edge with extra clear glass lens.
<b>Finish</b>	<span style="display: inline-block; width: 10px; height: 10px; background-color: #ccc; border-radius: 50%; margin-right: 5px;"></span> Brushed Natural <span style="display: inline-block; width: 10px; height: 10px; background-color: #8B4513; border-radius: 50%; margin-left: 10px; margin-right: 5px;"></span> Bronze PVD* <span style="display: inline-block; width: 10px; height: 10px; background-color: #000; border-radius: 50%; margin-left: 10px; margin-right: 5px;"></span> Black PVD*
	*Physical Vapor Deposition.
<b>Power Connection</b>	Provided with 4ft SJ00W 16-6 cable and DSMT anti-wicking quick disconnect to direct burial brass ingrade jbox (required, sold separately).
<b>Functionality</b>	Adjustable +/-20° on the vertical axis and rotated 355° on the horizontal axis with friction locking mechanism.
<b>Mounting</b>	Flush, semi-flush or raised tube mountings. Installation sleeve for flush or semi-flush mountings includes optional stainless steel 'L' brackets for additional mounting support. Fixture equipped with fastening holes and stainless steel screws for attachment into installation sleeve assembly.
<b>Weight</b>	2.43lbs
<b>Protection</b>	IP68 <sup>B</sup> / IP69K
<b>Impact</b>	IK10
<b>Load</b>	Resistant to static loads up to 4,496lbs in flush mounted cement and pavement installations.

### CERTIFICATIONS

cULus Class2 Wet Location Listed.  
 Tested in accordance with LM-79-08.  
 Compliant for California installations.  
 IEC 62471  
 RoHS3 EU 215/863

### SUSTAINABILITY

Luminaire designed for disposal/recycling at end-of-life. Replaceable LED light source and control gear by a Targetti technician.

### ELECTRICAL CHARACTERISTICS

<b>Power Supply</b>	Integral 4/1 smart driver (Non-Dimmable / 0-10V / Reverse Phase / Forward Phase).
<b>Wattage</b>	14W
<b>Voltage</b>	Universal Voltage 120-277V AC 50/60Hz

### SOURCE

High efficiency LED Chip on Board.

TM30	CCT (Nominal)	CRI	Rf	Rg	SDCM
	2700K	80	82	96	2
	3000K	80	83	96	2
	3500K	80	83	95	2
	4000K	80	82	95	2

Ra90 available upon request

### OPTIC

Zoom optical system that manually slides and locks on vertical axis according to four different fixed beam positions (SP / FL / MFL / WFL).

Beam	SP 15°	FL 32°	MWFL 53°	WFL 61°
<b>Delivered Lumens</b>	<b>3000K</b> 610Lm	809Lm	1045Lm	1127Lm
	<b>4000K</b> 626Lm	830Lm	1072Lm	1156Lm

For 2700K lumen values use multiplier of 0.96 from 3000K For 3500K lumen values use multiplier of 1.02 from 3000K.

<b>Efficacy</b>	86Lm/W max. Refer to photometric graphs for specific values.
<b>Lifetime</b>	L92/B10 30,000hrs at max TA +25°C L90/B10 50,000hrs at max TA +25°C

<b>Photobiological Classification</b>	Low risk safety RG1
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### WARRANTY

5 year limited warranty.

<sup>A</sup> Fixture body complete with marine grade cataphoresis suitable for use in marine grade environments. Stainless steel trim will need to be maintained and cleaned regularly to avoid mineral deposits. Not to be in direct contact with salt or corrosive agents for extended periods of time.

<sup>B</sup> Temporary immersion up to 24 hours at a max depth of 2 meters. Installation of fixture requires proper drainage to prevent any standing water. Should not be used for permanent submersion.

# KEPLERO MINI ZOOM

## SPECIFICATION INFORMATION

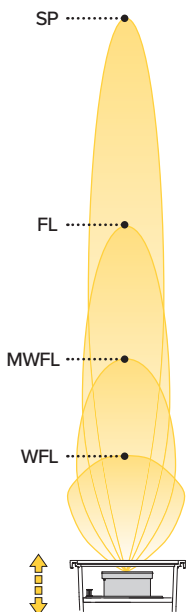
KPLM								
1	2	3	4	5	6	7	8	9
Ex: KPLM41ZML227 / 1E2525 / 1DU2521 / 1DU2530					<b>REQUIRED</b>			<b>OPTIONAL</b>

1 - PRODUCT CODE	2 - DRIVER	3 - TYPE	4 - WATTAGE	5 - KELVIN
KPLM — KEPLERO MINI	41 — 4/1 Smart Dimming (Non-Dimming / 0-10V / Reverse Phase / Forward Phase)	ZM — Zoom	L2 — 14W	27 — 2700K 30 — 3000K 35 — 3500K 40 — 4000K
6 - TRIM	7 - INSTALLATION	8 - INSTALLATION ACCESSORIES	9 - OPTICAL ACCESSORIES	
Round Trim Ring <i>See section for details</i>	Flush Mount Sleeve <i>See section for details</i>	Torx Key <i>See section for details</i>	Blade of Light Linear Spread Lens <i>See section for details</i>	
Square Trim Ring <i>See section for details</i>	Raised Tube <i>See section for details</i>	Fixture Removal Tool <i>See section for details</i>	Anti Glare Honeycomb Louver <i>See section for details</i>	
	Junction Box <i>See section for details</i>	Glass Removal Tool <i>See section for details</i>	Half Moon Anti Glare Shutter <i>See section for details</i>	
			Chromatic Filter <i>See section for details</i>	

For applicable quick ship items, see model configurations listed below. Lead time for quick ship fixtures is 1-2 weeks from processed PO date. Consult factory for quantities of over 20pcs to confirm lead time.

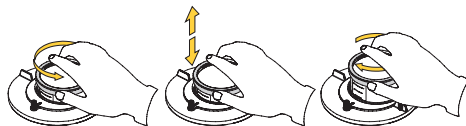


## OPTICAL SYSTEM



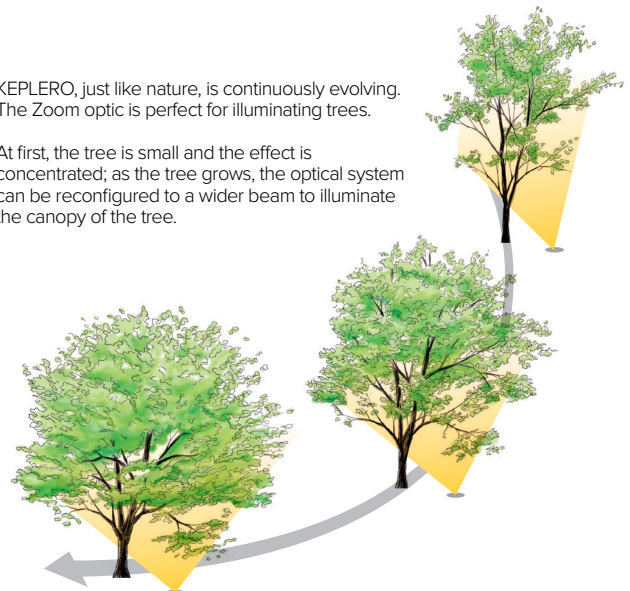
Zoom is a patented optical system that allows variation of the beam opening by manually moving the optical chamber.

Three simple movements - extraction, translation and rotation - it is possible to vary the beam opening from SP to WFL. Graduated rings help to recognize the adjustment allowing for easy repetition.



KEPLERO, just like nature, is continuously evolving. The Zoom optic is perfect for illuminating trees.

At first, the tree is small and the effect is concentrated; as the tree grows, the optical system can be reconfigured to a wider beam to illuminate the canopy of the tree.



# KEPLERO MINI ZOOM

## 6 - TRIM (REQUIRED)

### ROUND TRIM RING



Round stainless steel (AISI316L) decorative ring. 10mm thick extra clear protective glass. Silicone gasket. Tamper proof (AISI316L) Torx screws.

Finish ● Brushed Natural ● Bronze PVD ● Black PVD

Part No. **1E2525** **1DU2525B** **1DU2525K**



Round stainless steel (AISI316L) decorative ring with anti-slip glass. 10mm thick extra clear protective glass. Silicone gasket. Tamper proof (AISI316L) Torx screws.

Finish ● Brushed Natural ● Bronze PVD ● Black PVD

Part No. **1DU2525A** **1DU2525BA** **1DU2525KA**



Round stainless steel (AISI316L) decorative ring with half frosted glass. 10mm thick extra clear protective glass. Silicone gasket. Tamper proof (AISI316L) Torx screws.

Finish ● Brushed Natural ● Bronze PVD ● Black PVD

Part No. **1DU2525E** **1DU2525BE** **1DU2525KE**

### SQUARE TRIM RING



Square stainless steel (AISI316L) decorative ring. 10mm thick extra clear protective glass. Silicone gasket. Tamper proof (AISI316L) Torx screws.

Finish ● Brushed Natural

Part No. **1E2526**



Square stainless steel (AISI316L) decorative ring. 10mm thick extra clear protective glass. Silicone gasket. Tamper proof (AISI316L) Torx screws.

Finish ● Brushed Natural

Part No. **1DU2526A**



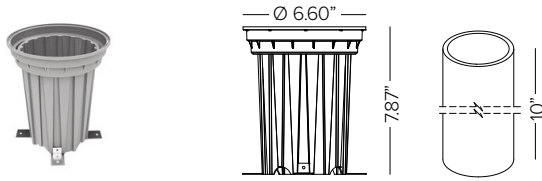
Square stainless steel (AISI316L) decorative ring. 10mm thick extra clear protective glass. Silicone gasket. Tamper proof (AISI316L) Torx screws.

Finish ● Brushed Natural

Part No. **1DU2526E**

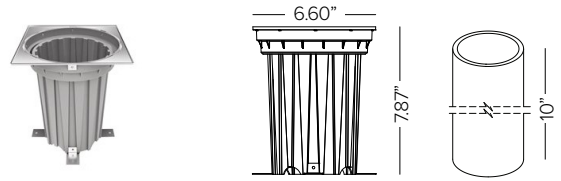
# KEPLERO MINI ZOOM

## 7 - INSTALLATION (REQUIRED)



Installation sleeve for concrete pour applications. Grey Nylon casing with PVC installation outer pipe. For flush or semi-flush installations. **Required for use with 1DU2530 by NEC.**

Part No. **1DU2521**



Installation sleeve for concrete pour applications. Grey Nylon casing and stainless steel profile with PVC installation outer pipe. Square ring for flush installation only. **For use with square trim options only. Required for use with 1DU2530 by NEC.**

Part No. **1DU2522**



At grade or raised installation sleeve for turf or ground cover applications. 12"H stainless steel, includes factory pre-installed inner PVC installation sleeve. **To be used with round trim options only. Not suitable for use with 1DU2521 or 1DU2522.** (Field cuttable. Used for fixture elevations at grade to 3" above grade). **Required for use with 1DU2530 by NEC.**

Finish ● Deep Black

Part No. **1DU434412**



Raised installation sleeve for ground cover (succulents and low level planting) applications. 18"H stainless steel, includes factory pre-installed inner PVC sleeve. **To be used with round trim options. Not suitable with 1DU2521 or 1DU2522.** (Field cuttable. Used for fixture elevation 7" above grade). **Required for use with 1DU2530 by NEC.**

Finish ● Deep Black

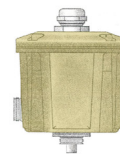
Part No. **1DU434418**



Raised installation sleeve for landscape applications. 36"H stainless steel, includes factory pre-installed inner PVC sleeve. **To be used with round trim options. Not suitable with 1DU2521 or 1DU2522.** (Field cuttable. Used for fixture elevation 21" above grade). **Required for use with 1DU2530 by NEC.**

Finish ● Deep Black

Part No. **1DU4344**



Direct burial brass ingrade j-box. Features stainless steel cover screws and strain relief for power cord, (2) 3/4" NPT bottom holes and (2) 3/4" NPT side holes. Includes (4) 3/4" to 1/2" adapters and (2) 1/2" NPT plugs. **(REQUIRED by NEC).**

Part No. **1DU2530**

## 8 - INSTALLATION (OPTIONAL)



Fixture metal maintenance removal handle. Helpful one per 10 fixtures.

Part No. **1E2524**



Anti-vandal torx head. Helpful one per 5 fixtures.

Part No. **1E2495**



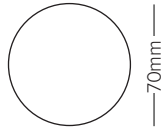
Glass suction removal tool. Helpful one per 20 fixtures.

Part No. **1E0388**

# KEPLERO MINI ZOOM

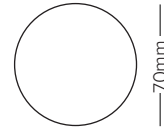
## 9 - OPTICAL ACCESSORIES (OPTIONAL)

MAXIMUM OF ONE OPTICAL FILTER OR LOUVER ACCESSORY PER FIXTURE



'Blade of Light' linear spread lens. Parallel ribbed glass.

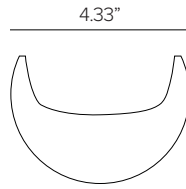
Part No. **1T1708**



Anti-glare honeycomb louver with lacquered metal structure.

Finish ● Deep Black

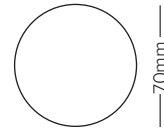
Part No. **1T1711**



Integral half moon anti glare shutter. **Can be used as one per fixture with a filter or louver, not considered as part of the maximum optical accessories.**

Finish ● Deep Black

Part No. **1E2523**



Tone filter. Glass filter to vary the color temperature of light.

Finish Peach Tone Cold Tone Gold Tone

Part No. **1T1759 1T1777 1T1786**

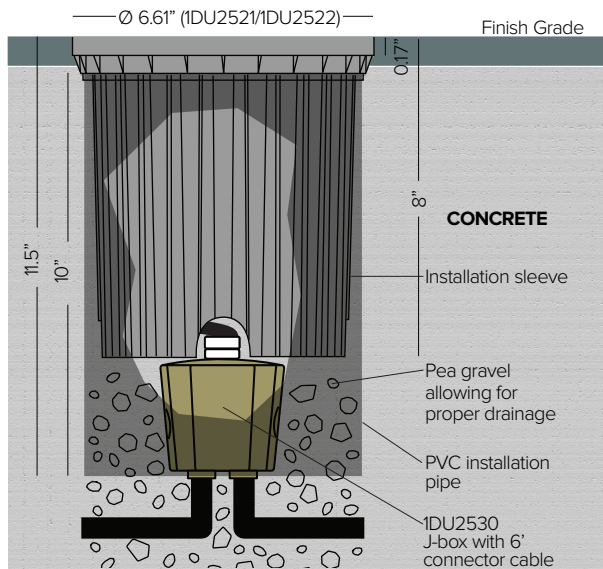
# KEPLERO MINI ZOOM

## INSTALLATION DIAGRAM

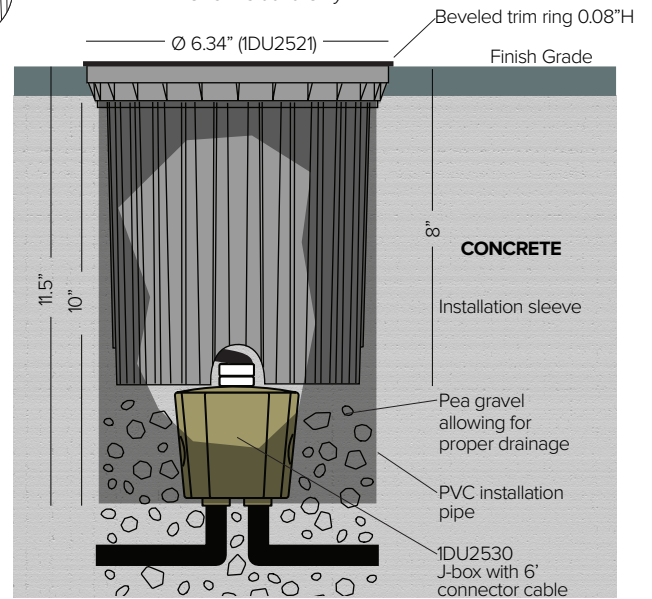
CONCRETE POUR APPLICATION



**Flush Mount Sleeve Assembly**  
1DU2521 and 1DU2522 Sleeves



**Semi-Flush Mount Sleeve Assembly**  
1DU2521 Sleeve Only



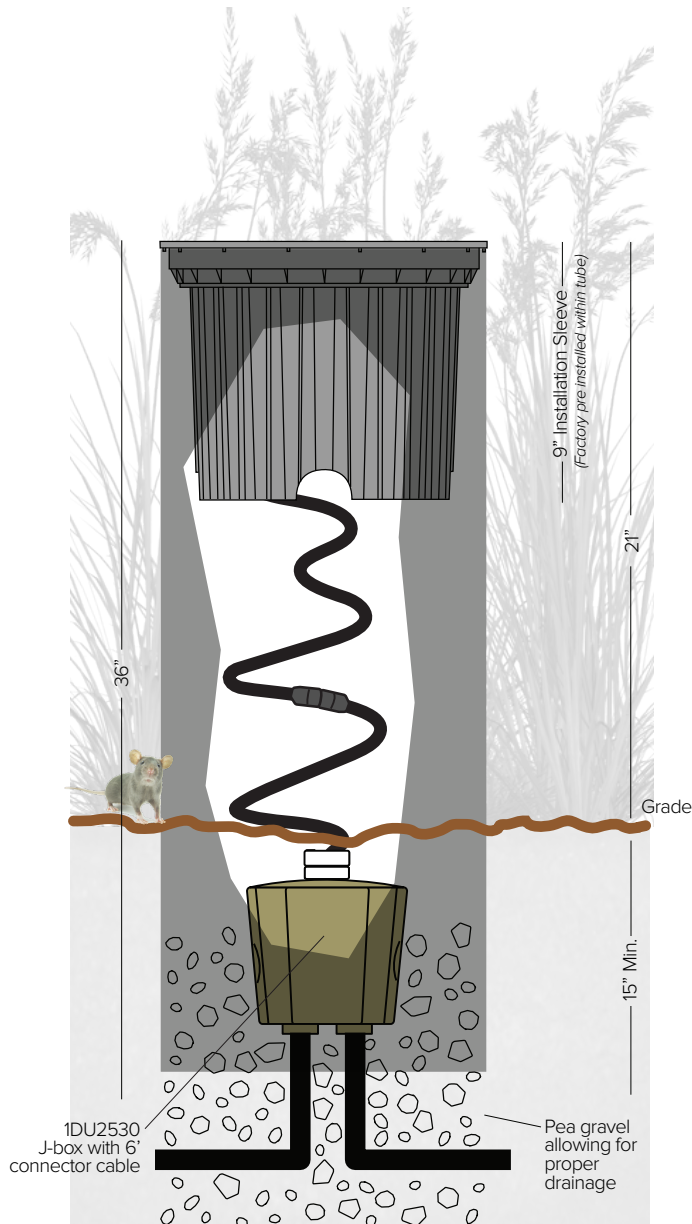
# KEPLERO MINI ZOOM

## INSTALLATION DIAGRAM

### LANDSCAPE APPLICATION

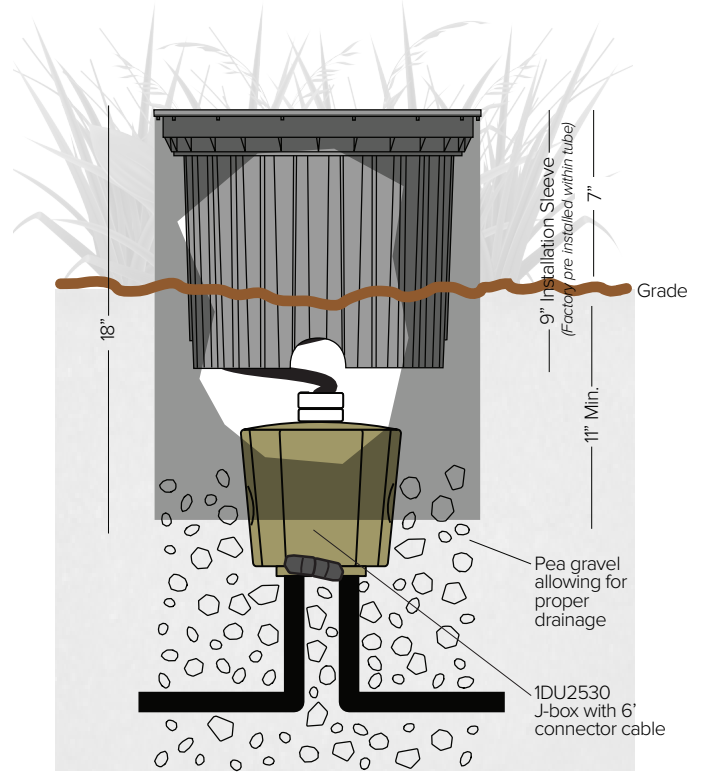
#### RAISED TUBE INSTALLATION ASSEMBLY

Recommended for Landscape Installation  
1DU4344 with Round Trim ONLY



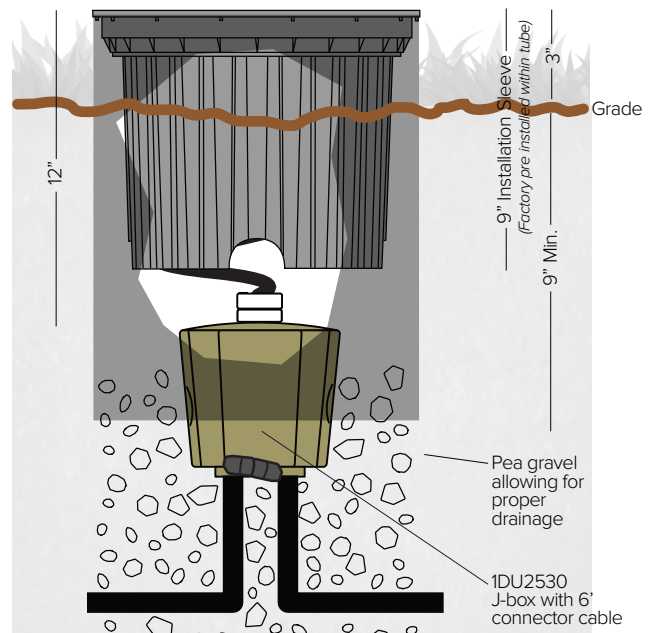
#### RAISED TUBE INSTALLATION ASSEMBLY

Recommended for Ground Level Installation  
1DU434418 with Round Trim ONLY



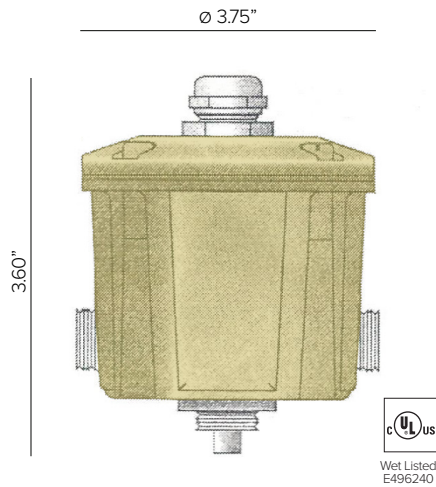
#### RAISED TUBE INSTALLATION ASSEMBLY

Recommended for Turf Installation  
1DU434412 with Round Trim ONLY



# KEPLERO MINI ZOOM

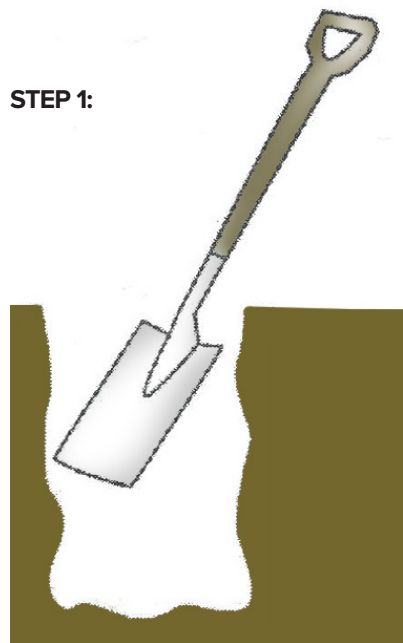
## INSTALLATION DIAGRAM - 1DU2530 J-Box



Brass junction box is supplied with the following components:

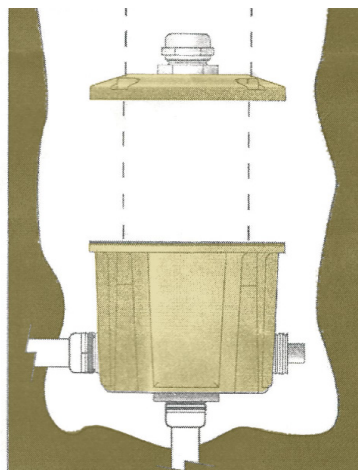
- (4)  $\frac{3}{4}"$  side/bottom NPT holes
- (4)  $\frac{1}{2}"$  reduction NPT adapters
- (2)  $\frac{1}{2}"$  cap plugs

**NOTE: Box fill size = 15.94 IN<sup>3</sup>**



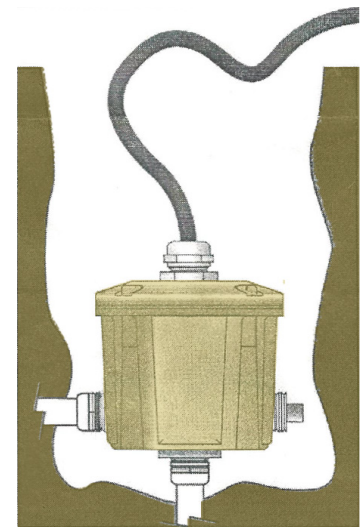
**STEP 1:** Dig a hole large enough to accommodate the junction box.

**STEP 2:**



Connect brass junction box to conduit system. Seal conduit entries inside junction box with a good grade RTV sealant per sealant manufacturer's instructions.  
**Note: Drainage must be in place below junction box.**

**STEP 3:**



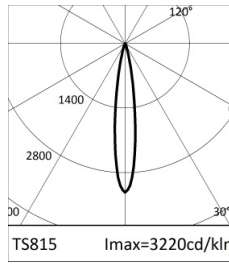
Seal threads. Tighten locking screw on bottom of cover. Connect all wires observing polarity (i.e. green-to-ground, white-to-common, and black-to-voltage). Provided with  $\frac{1}{2}"$  strain relief.



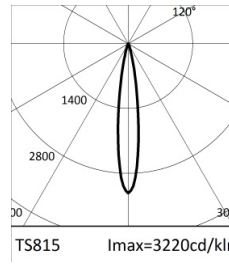
# KEPLERO MINI ZOOM

## PHOTOMETRY

### SPOT



3000K		H(m)	D(m)	Emax(lx)		
Ra84			15°			
Fixture Power	14W	1	0.27	5715		
Source Flux	1775lm	2	0.54	1429		
Fixture Flux	610lm	3	0.82	635		
Efficacy	45lm/W	4	1.09	357		
TS815	I <sub>max</sub> =3220cd/klm	I <sub>max</sub>	5715cd	5	1.36	229

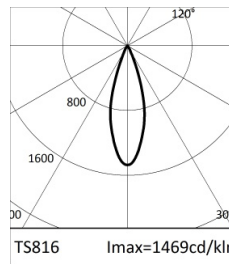


4000K		H(m)	D(m)	Emax(lx)		
Ra84			15°			
Fixture Power	14W	1	0.27	5863		
Source Flux	1821lm	2	0.54	1466		
Fixture Flux	626lm	3	0.82	651		
Efficacy	46lm/W	4	1.09	366		
TS815	I <sub>max</sub> =3220cd/klm	I <sub>max</sub>	5863cd	5	1.36	235

### FLOOD

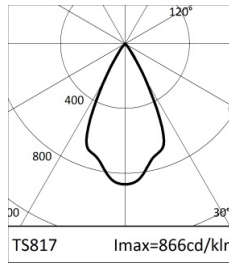


3000K		H(m)	D(m)	Emax(lx)		
Ra84			32°			
Fixture Power	14W	1	0.58	2608		
Source Flux	1775lm	2	1.15	652		
Fixture Flux	809lm	3	1.73	290		
Efficacy	60lm/W	4	2.30	163		
TS816	I <sub>max</sub> =1469cd/klm	I <sub>max</sub>	2608cd	5	2.88	104

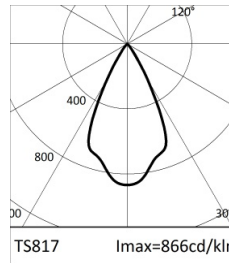


4000K		H(m)	D(m)	Emax(lx)		
Ra84			32°			
Fixture Power	14W	1	0.58	2675		
Source Flux	1821lm	2	1.15	669		
Fixture Flux	830lm	3	1.73	297		
Efficacy	61lm/W	4	2.30	167		
TS816	I <sub>max</sub> =1469cd/klm	I <sub>max</sub>	2675cd	5	2.88	107

### MEDIUM WIDE FLOOD

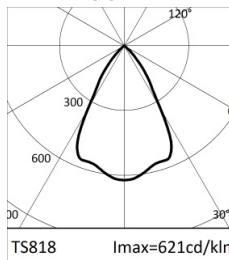


3000K		H(m)	D(m)	Emax(lx)		
Ra84			53°			
Fixture Power	14W	1	0.99	1536		
Source Flux	1775lm	2	1.98	384		
Fixture Flux	1045lm	3	2.97	171		
Efficacy	77lm/W	4	3.95	96		
TS817	I <sub>max</sub> =866cd/klm	I <sub>max</sub>	1536cd	5	4.94	61

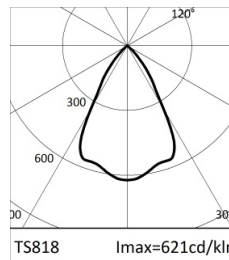


4000K		H(m)	D(m)	Emax(lx)		
Ra84			53°			
Fixture Power	14W	1	0.99	1576		
Source Flux	1821lm	2	1.98	394		
Fixture Flux	1072lm	3	2.97	175		
Efficacy	79lm/W	4	3.95	99		
TS817	I <sub>max</sub> =866cd/klm	I <sub>max</sub>	1576cd	5	4.94	63

### WIDE FLOOD



3000K		H(m)	D(m)	Emax(lx)		
Ra84			61°			
Fixture Power	14W	1	1.18	1102		
Source Flux	1775lm	2	2.37	276		
Fixture Flux	1127lm	3	3.55	122		
Efficacy	83lm/W	4	4.74	69		
TS818	I <sub>max</sub> =621cd/klm	I <sub>max</sub>	1102cd	5	5.92	44



4000K		H(m)	D(m)	Emax(lx)		
Ra84			61°			
Fixture Power	14W	1	1.18	1131		
Source Flux	1821lm	2	2.37	283		
Fixture Flux	1156lm	3	3.55	126		
Efficacy	86lm/W	4	4.74	71		
TS818	I <sub>max</sub> =621cd/klm	I <sub>max</sub>	1131cd	5	5.92	45