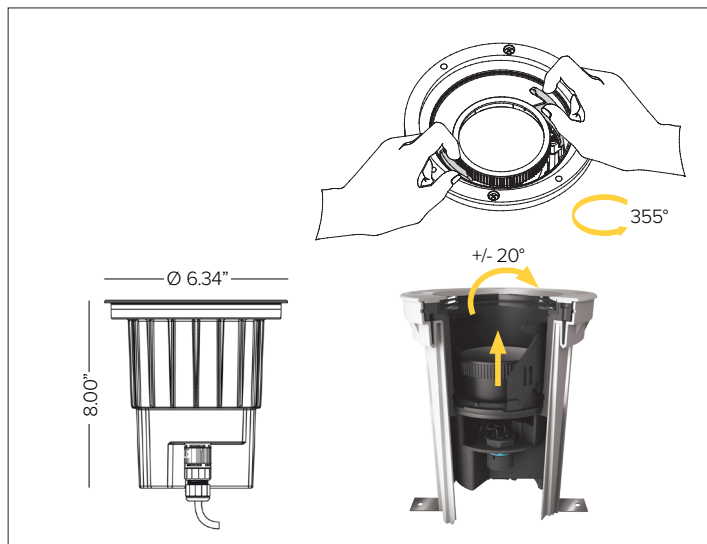


KEPLERO MINI ZOOM

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

Housing	8"H x 6.34"Dia. Housing.
Materials	Anodized marine grade cataphoresis ^A die-cast aluminum heat sink body with PVC installation sleeve. AISI316L stainless steel trim ring with beveled edge with extra clear glass lens.
Finish	 Brushed Natural Bronze PVD* Black PVD*
	*Physical Vapor Deposition.
Power Connection	Provided with 4ft SJ00W 16-6 cable and DSMT anti-wicking quick disconnect to direct burial brass ingrade jbox (required, sold separately).
Functionality	Adjustable +/-20° on the vertical axis and rotated 355° on the horizontal axis with friction locking mechanism.
Mounting	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.
Weight	2.43lbs
Protection	IP68 ^B / IP69K
Impact	IK10
Load	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

Power Supply	Integral 4/1 smart driver (Non-Dimmable / 0-10V / Reverse Phase / Forward Phase).
Wattage	14W
Voltage	Universal Voltage 120-277V AC 50/60Hz
Ambient Temp.	-25°C / +35°C (95°F)

SOURCE

High efficiency LED Chip on Board.

TM30	CCT (Nominal)	CRI	R _f	R _g	SDCM
	2700K	80	82	96	2
	3000K	80	83	96	2
	3500K	80	83	95	2
	4000K	80	82	95	2

R_a90 available upon request

OPTIC

Zoom optical system manually slides and locks on vertical axis collimating the optic to four different fixed beam positions (SP / FL / MWFL / WFL).

Beam	SP 15°	FL 32°	MWFL 53°	WFL 61°
Delivered Lumens				
2700K	627Lm	831Lm	1,073Lm	1,158Lm
3000K	661Lm	876Lm	1,132Lm	1,221Lm
4000K	669Lm	887Lm	1,146Lm	1,236Lm

For 3500K lumen values use multiplier of 1.01 from 3000K.

Efficacy	95Lm/W max. Refer to photometric graphs for specific values.
Lifetime	L95/B10 30,000hrs at max TA +25°C L94/B10 50,000hrs at max TA +25°C

Photobiological Classification Low risk safety RG1

WARRANTY

5 year limited warranty.
^A 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.
^B 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

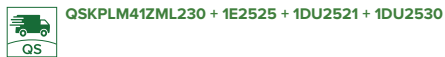
SPECIFICATION INFORMATION

KPLM	41	ZM						
1	2	3	4	5	6	7	8	9

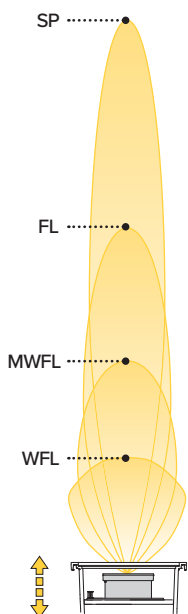
Ex: KPLM41ZML227 / 1E2525 / 1DU2521 / 1DU2530

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 See section for details Square Trim Ring See section for details	Flush Mount Sleeve See section for details Raised Tube See section for details Junction Box See section for details	Torx Key See section for details Fixture Removal Tool See section for details Glass Removal Tool See section for details	Blade of Light Linear Spread Lens See section for details Anti Glare Honeycomb Louver See section for details Half Moon Anti Glare Shutter See section for details	

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.

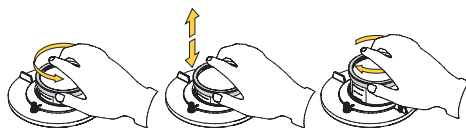


OPTICAL SYSTEM



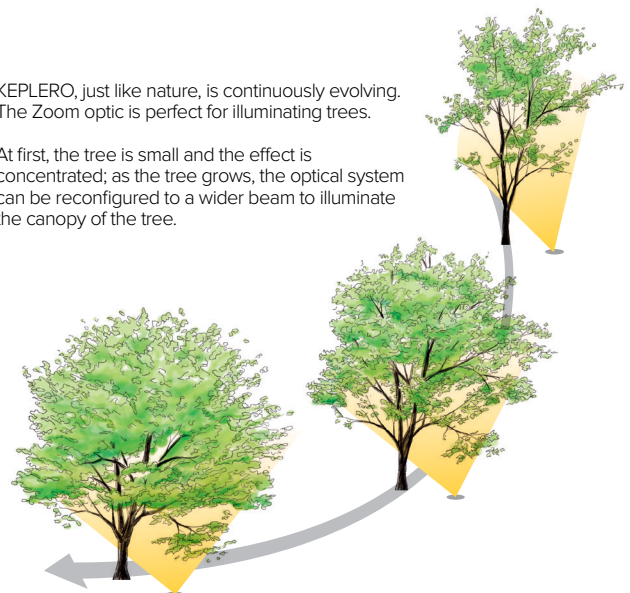
Zoom is a patented optical system that allows variation of the beam opening by manually moving the optical chamber.

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.

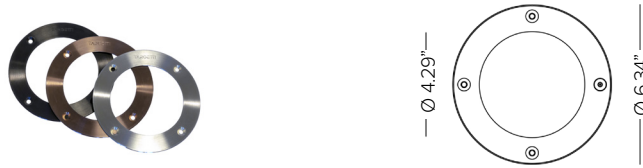
At first, the tree is small and the effect is concentrated; as the tree grows, the optical system can be reconfigured to a wider beam to illuminate the canopy of the tree.



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**

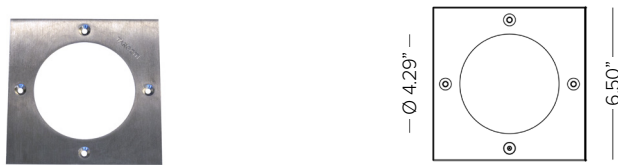


Round stainless steel (AISI316L) decorative ring with half frosted glass. 10mm thick extra clear protective glass. Silicone gasket. Tamper proof (AISI316L) Torx screws.

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**



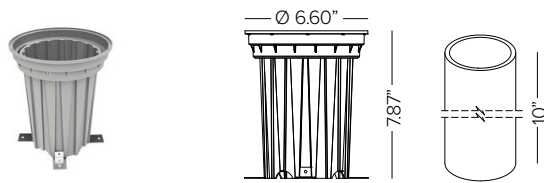
Square stainless steel (AISI316L) decorative ring. 10mm thick extra clear protective glass. Silicone gasket. Tamper proof (AISI316L) Torx screws.

Finish ● Brushed Natural

Part No. **1DU2526E**

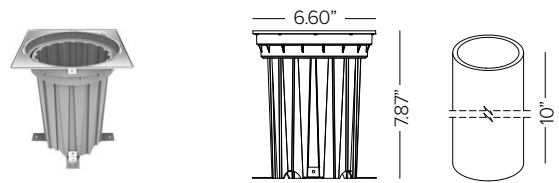
KEPLERO MINI ZOOM

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

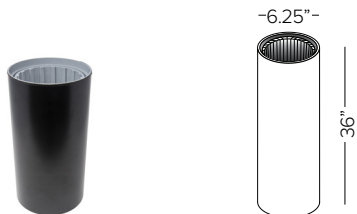
Part No. **1DU4344-12**



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

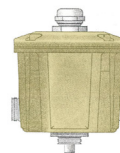
Part No. **1DU4344-18**



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**



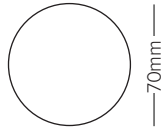
Glass suction removal tool. Helpful one per 20 fixtures.

Part No. **1E0388**

KEPLERO MINI ZOOM

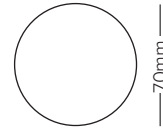
9 - OPTICAL ACCESSORIES (OPTIONAL)

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

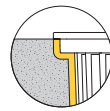
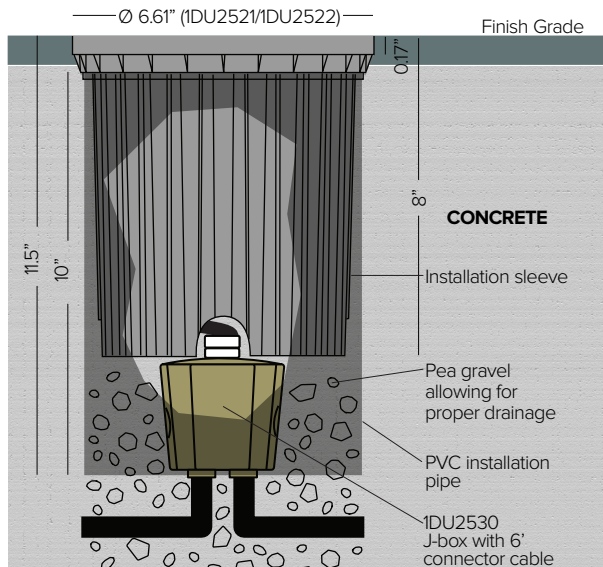
Part No. **1E2523**

INSTALLATION DIAGRAM

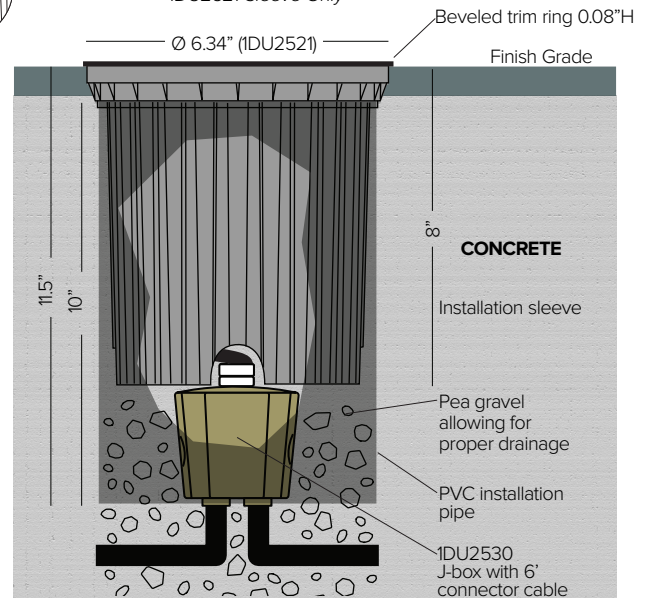
CONCRETE POUR APPLICATION



Flush Mount Sleeve Assembly
1DU2521 and 1DU2522 Sleeves



Semi-Flush Mount Sleeve Assembly
1DU2521 Sleeve Only



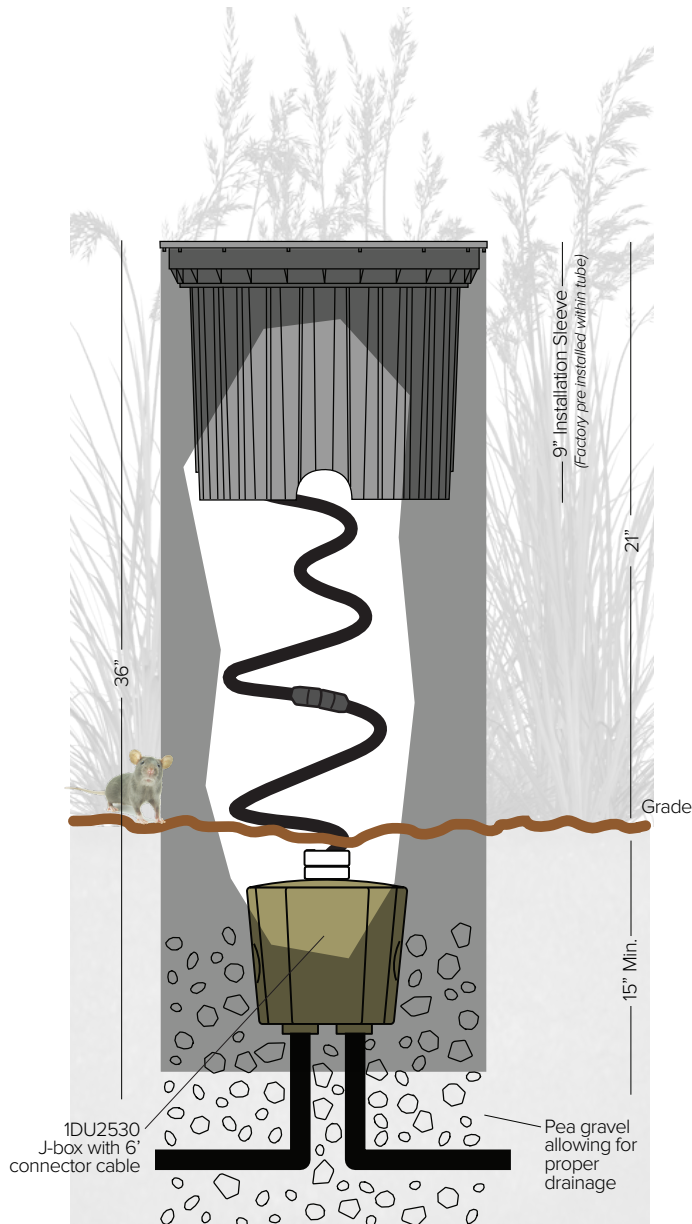
KEPLERO MINI ZOOM

INSTALLATION DIAGRAM

LANDSCAPE APPLICATION

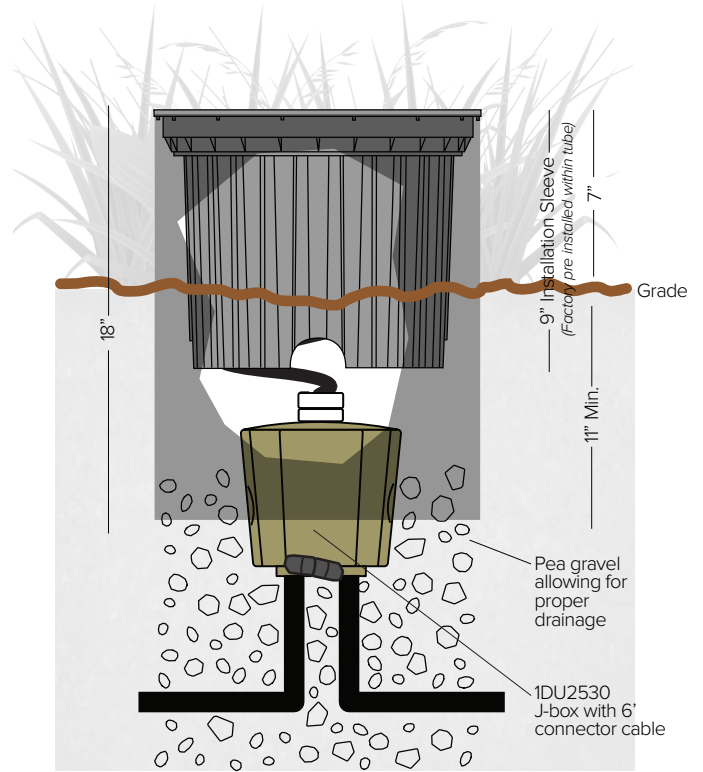
RAISED TUBE INSTALLATION ASSEMBLY

Recommended for Landscape Installation
1DU4344 with Round Trim ONLY



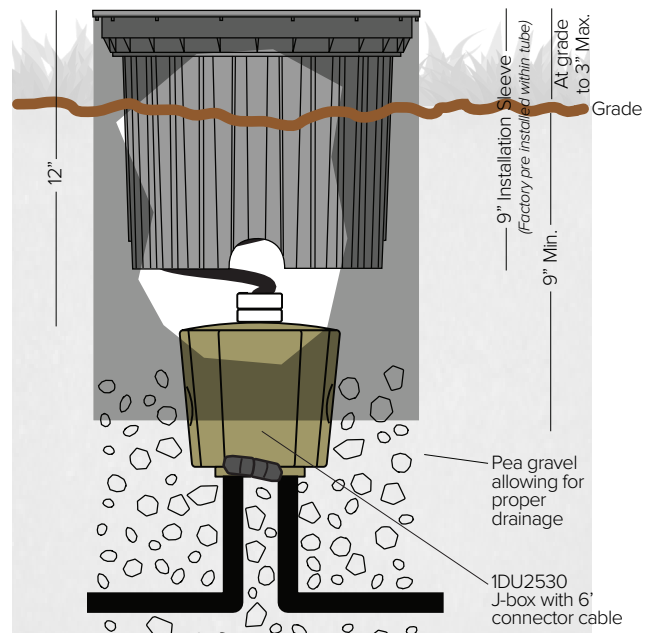
RAISED TUBE INSTALLATION ASSEMBLY

Recommended for Ground Level Installation
1DU434418 with Round Trim ONLY



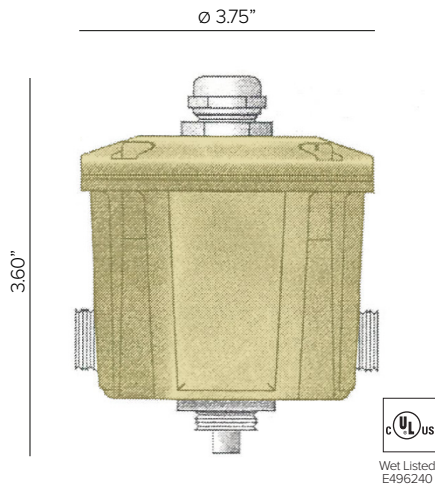
RAISED TUBE INSTALLATION ASSEMBLY

Recommended for Turf Installation
1DU434412 with Round Trim ONLY



KEPLERO MINI ZOOM

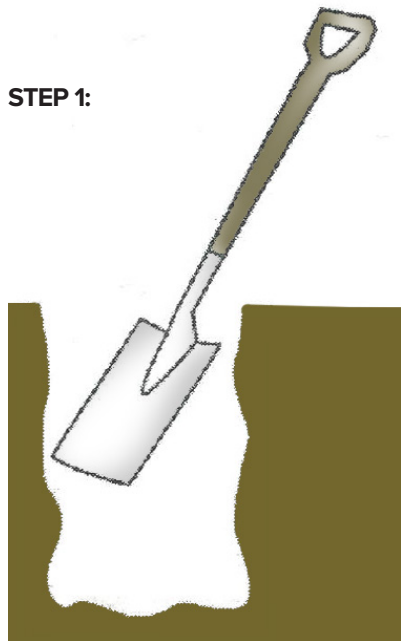
INSTALLATION DIAGRAM - 1DU2530 J-Box



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

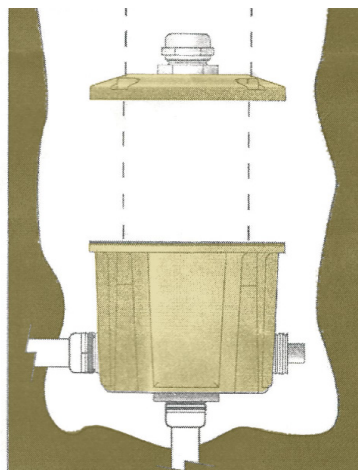
NOTE: Box fill size = 15.94 IN³



STEP 1:

Dig a hole large enough to accommodate the junction box.

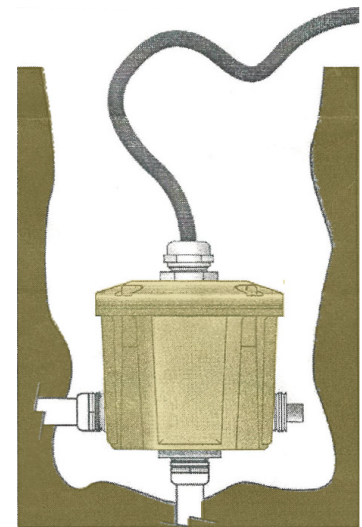
STEP 2:



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

	2700K	H(m)	D(m)	Emax(lx)		
	Ra80		15°			
	Fixture Power	14W	1	0.27	5870	
	Source Flux	1823lm	2	0.54	1467	
	Fixture Flux	627lm	3	0.82	652	
	Efficacy	46lm/W	4	1.09	367	
	TS815	Imax=3220cd/klm	Imax	5870cd	5	1.36

	3000K	H(m)	D(m)	Emax(lx)		
	Ra80		15°			
	Fixture Power	13W	1	0.27	6192	
	Source Flux	1923lm	2	0.54	1548	
	Fixture Flux	661lm	3	0.82	688	
	Efficacy	49lm/W	4	1.09	387	
	TS815	Imax=3220cd/klm	Imax	6192cd	5	1.36

	4000K	H(m)	D(m)	Emax(lx)		
	Ra80		15°			
	Fixture Power	13W	1	0.27	6266	
	Source Flux	1946lm	2	0.54	1566	
	Fixture Flux	669lm	3	0.82	696	
	Efficacy	51lm/W	4	1.09	392	
	TS815	Imax=3220cd/klm	Imax	6266cd	5	1.36

FLOOD

	2700K	H(m)	D(m)	Emax(lx)		
	Ra80		32°			
	Fixture Power	14W	1	0.58	2678	
	Source Flux	1823lm	2	1.15	670	
	Fixture Flux	831lm	3	1.73	298	
	Efficacy	61lm/W	4	2.30	167	
	TS816	Imax=1469cd/klm	Imax	2678cd	5	2.88

	3000K	H(m)	D(m)	Emax(lx)		
	Ra80		32°			
	Fixture Power	13W	1	0.58	2825	
	Source Flux	1923lm	2	1.15	706	
	Fixture Flux	876lm	3	1.73	314	
	Efficacy	65lm/W	4	2.30	177	
	TS816	Imax=1469cd/klm	Imax	2825cd	5	2.88

	4000K	H(m)	D(m)	Emax(lx)		
	Ra80		32°			
	Fixture Power	13W	1	0.58	2859	
	Source Flux	1946lm	2	1.15	715	
	Fixture Flux	887lm	3	1.73	318	
	Efficacy	68lm/W	4	2.30	179	
	TS816	Imax=1469cd/klm	Imax	2859cd	5	2.88

KEPLERO MINI ZOOM

PHOTOMETRY

MEDIUM WIDE FLOOD

	2700K	H(m)	D(m)	Emax(lx)		
	Ra80		53°			
	Fixture Power	14W	1	0.99	1578	
	Source Flux	1823lm	2	1.98	394	
	Fixture Flux	1073lm	3	2.97	175	
	Efficacy	78lm/W	4	3.95	99	
	TS817	I _{max} =866cd/klm	I _{max}	1578cd	5	4.94

	3000K	H(m)	D(m)	Emax(lx)		
	Ra80		53°			
	Fixture Power	13W	1	0.99	1664	
	Source Flux	1923lm	2	1.98	416	
	Fixture Flux	1132lm	3	2.97	185	
	Efficacy	84lm/W	4	3.95	104	
	TS817	I _{max} =866cd/klm	I _{max}	1664cd	5	4.94

	4000K	H(m)	D(m)	Emax(lx)		
	Ra80		53°			
	Fixture Power	13W	1	0.99	1684	
	Source Flux	1946lm	2	1.98	421	
	Fixture Flux	1146lm	3	2.97	187	
	Efficacy	88lm/W	4	3.95	105	
	TS817	I _{max} =866cd/klm	I _{max}	1684cd	5	4.94

WIDE FLOOD

	2700K	H(m)	D(m)	Emax(lx)		
	Ra80		61°			
	Fixture Power	14W	1	1.18	1132	
	Source Flux	1823lm	2	2.37	283	
	Fixture Flux	1158lm	3	3.55	126	
	Efficacy	85lm/W	4	4.74	71	
	TS818	I _{max} =621cd/klm	I _{max}	1132cd	5	5.92

	3000K	H(m)	D(m)	Emax(lx)		
	Ra80		61°			
	Fixture Power	13W	1	1.18	1194	
	Source Flux	1923lm	2	2.37	299	
	Fixture Flux	1221lm	3	3.55	133	
	Efficacy	91lm/W	4	4.74	75	
	TS818	I _{max} =621cd/klm	I _{max}	1194cd	5	5.92

	4000K	H(m)	D(m)	Emax(lx)		
	Ra80		61°			
	Fixture Power	13W	1	1.18	1208	
	Source Flux	1946lm	2	2.37	302	
	Fixture Flux	1236lm	3	3.55	134	
	Efficacy	95lm/W	4	4.74	76	
	TS818	I _{max} =621cd/klm	I _{max}	1208cd	5	5.92