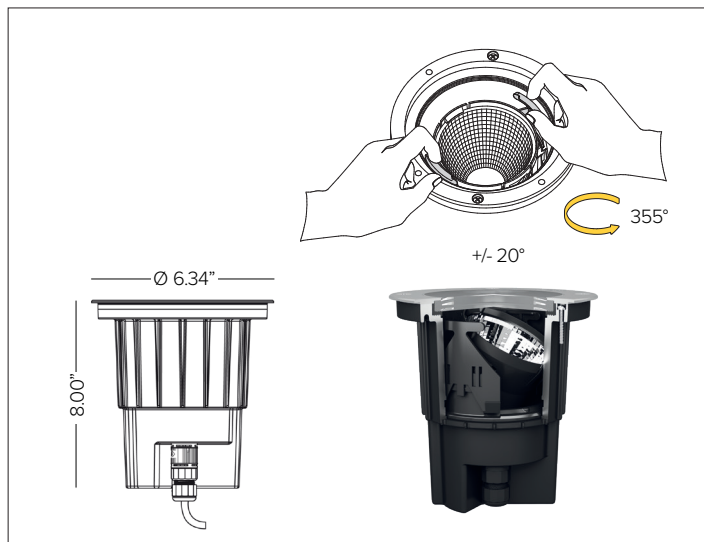


# KEPLERO MINI HIGH EFFICACY

## Professional Inground LED Fixture



KEPLERO® Mini HE with brushed natural trim and clear lens



### CONCEPT

Compact high performance inground for even illumination with maximum efficiency.

### 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: #808080; border-radius: 50%;"></span> Brushed Natural <span style="display: inline-block; width: 10px; height: 10px; background-color: #8B4513; border-radius: 50%;"></span> Bronze PVD* <span style="display: inline-block; width: 10px; height: 10px; background-color: #000000; border-radius: 50%;"></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 j-box (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 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
<b>Ambient Temp.</b>	-25°C / +35°C (95°F)

### SOURCE

High efficiency LED Chip on Board.

TM30	CCT (Nominal)	CRI	Rf	Rg	SDCM
	2700K	80	82	96	2
	3000K	80	85	94	2
	3500K	80	83	95	2
	4000K	80	85	95	2

Ra90 available upon request

### OPTIC

Optical system comprised of high efficiency reflector.

Beam	SP 11°	FL 18°	MWFL 40°
<b>Delivered Lumens</b>			
<b>2700K</b>	1,425Lm	1,435Lm	1,421Lm
<b>3000K</b>	1,503Lm	1,514Lm	1,499Lm
<b>4000K</b>	1,521Lm	1,532Lm	1,517Lm

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

<b>Efficacy</b>	112Lm/W max. Refer to photometric graphs for specific values.
<b>Lifetime</b>	L95/B10 30,000hrs at max TA +25°C L94/B10 50,000hrs at max TA +25°C
<b>Photobiological Classification</b>	Low risk safety RG1

### 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 HIGH EFFICACY

## SPECIFICATION INFORMATION

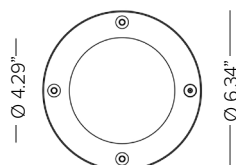
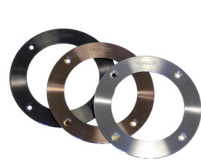
KPLM	41	HE				/	/	/	
1	2	3	4	5	6	7	8	9	10
Ex: KPLM41HESPL227 / 1E2525 / 1DU2521 / 1DU2530							REQUIRED		OPTIONAL

1 - PRODUCT CODE	2 - DRIVER	3 - TYPE	4 - OPTICS	5 - WATTAGE	6 - KELVIN
KPLM — KEPLERO MINI	41 — 4/1 Smart Dimming (Non-Dimming / 0-10V / Reverse Phase / Forward Phase)	HE — High Efficacy	SP — SP 11° FL — FL 18° MF — MWFL 40°	L2 — 14W	27 — 2700K 30 — 3000K 35 — 3500K 40 — 4000K
7 - TRIM	8 - INSTALLATION	9 - INSTALLATION ACCESSORIES	10 - OPTICAL ACCESSORIES		
<a href="#">Round Trim Ring</a> See section for details <a href="#">Square Trim Ring</a> See section for details	<a href="#">Flush Mount Sleeve</a> See section for details <a href="#">Raised Tube</a> See section for details <a href="#">Junction Box</a> See section for details	<a href="#">Torx Key</a> See section for details <a href="#">Fixture Removal Tool</a> See section for details <a href="#">Glass Removal Tool</a> See section for details	<a href="#">Holder Ring</a> See section for details <a href="#">Blade of Light Linear Spread Lens</a> See section for details <a href="#">Blade of Light Linear Spread Lens</a> See section for details <a href="#">Anti Glare Honeycomb Louver</a> See section for details <a href="#">Half Moon Anti Glare Shutter</a> See section for details		

# KEPLERO MINI HIGH EFFICACY

## 6 - TRIM (REQUIRED)

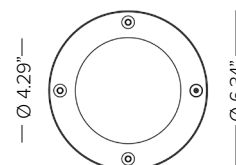
### ROUND TRIM RING



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

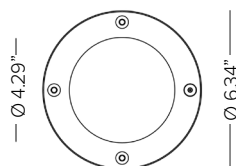
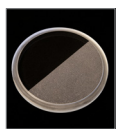
Part No.    **1E2525**                      **1DU2525B**                      **1DU2525K**



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**

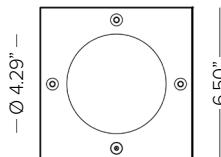


Round stainless steel (AISI316L) decorative ring with half frosted glass. 10mm thick extra clear protective glass. Silicone gasket. Tamper proof (AISI316L) Torx screws.

Finish    ● Brushed Natural    ● Bronze PVD    ● Black PVD

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

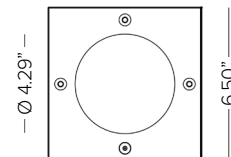
### SQUARE TRIM RING



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

Finish    ● Brushed Natural

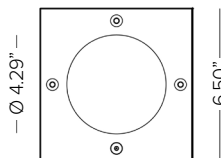
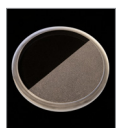
Part No.    **1E2526**



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**



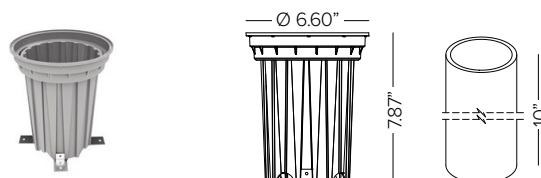
Square stainless steel (AISI316L) decorative ring. 10mm thick extra clear protective glass. Silicone gasket. Tamper proof (AISI316L) Torx screws.

Finish    ● Brushed Natural

Part No.    **1DU2526E**

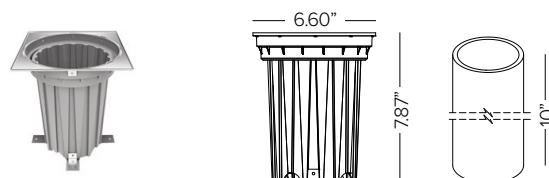
# KEPLERO MINI HIGH EFFICACY

## 7 - INSTALLATION (REQUIRED)



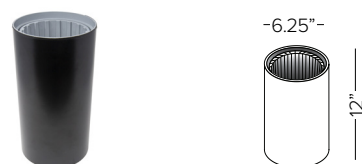
Installation sleeve for concrete pour applications. Grey Nylon casing with PVC installation outer pipe. For flush or semi-flush installations. **Required for use with 1DU2530 by NEC.**

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

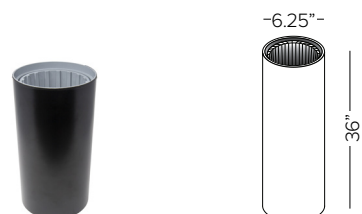
Part No. **1DU4344-12**



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

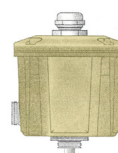
Part No. **1DU4344-18**



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**



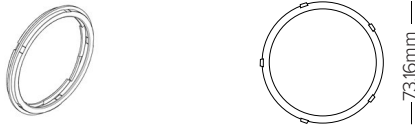
Glass suction removal tool. Helpful one per 20 fixtures.

Part No. **1E0388**

# KEPLERO MINI HIGH EFFICACY

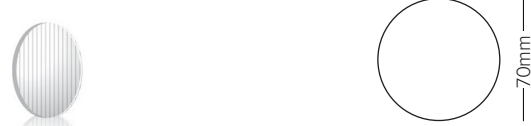
## 9 - OPTICAL ACCESSORIES (OPTIONAL)

MAXIMUM OF ONE OPTICAL FILTER OR LOUVER ACCESSORY PER FIXTURE



Transparent polycarbonate holder ring for the accessories. **Required for use of all filters and glare grid.**

Part No. **1T3727**



'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**

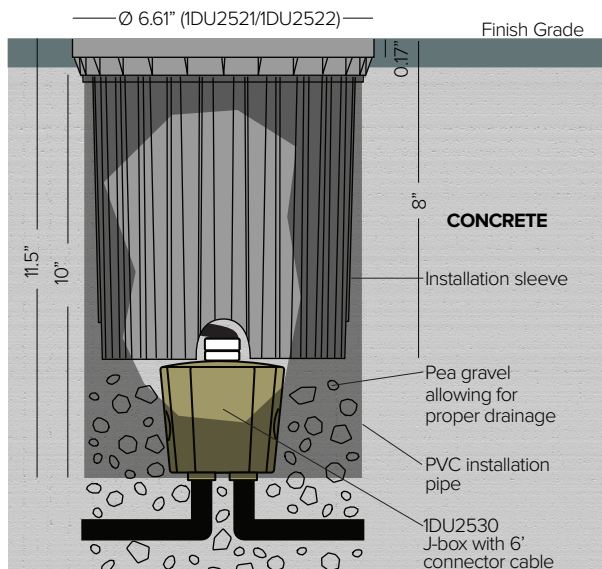
## INSTALLATION DIAGRAM

CONCRETE POUR APPLICATION



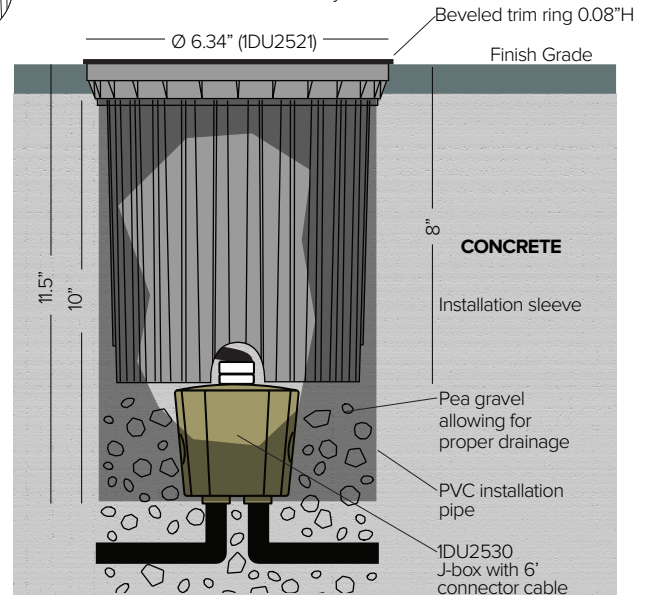
### Flush Mount Sleeve Assembly

1DU2521 and 1DU2522 Sleeves



### Semi-Flush Mount Sleeve Assembly

1DU2521 Sleeve Only



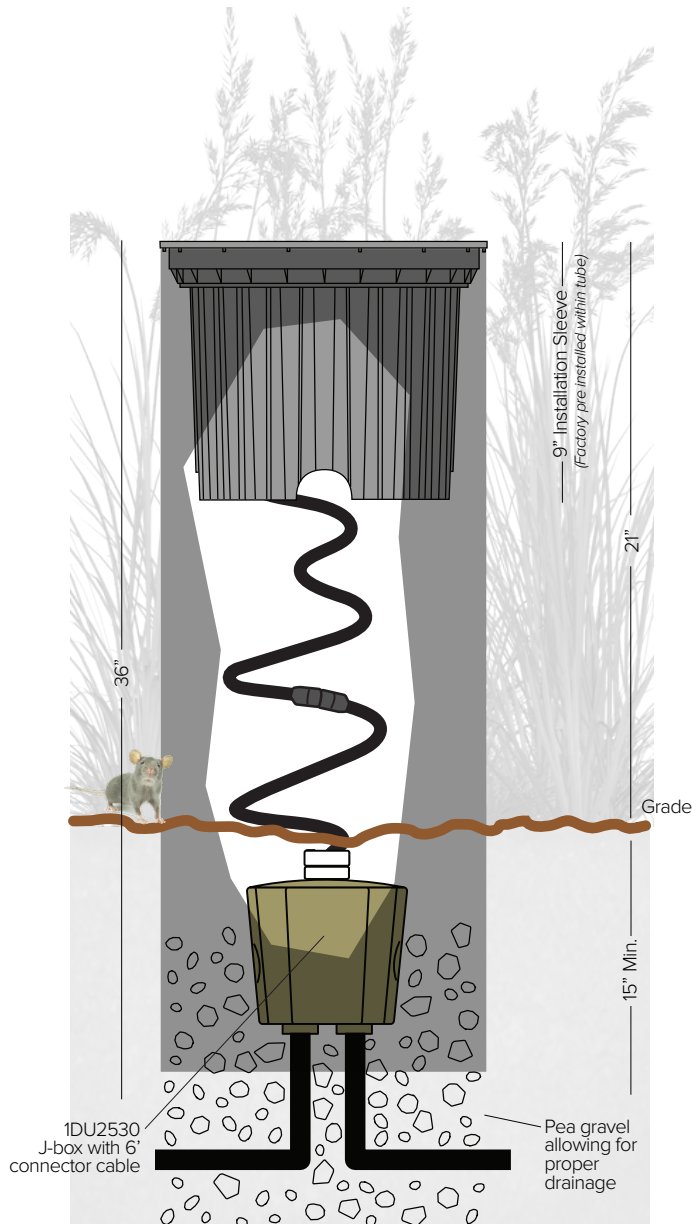
# KEPLERO MINI HIGH EFFICACY

## INSTALLATION DIAGRAM

### LANDSCAPE APPLICATION

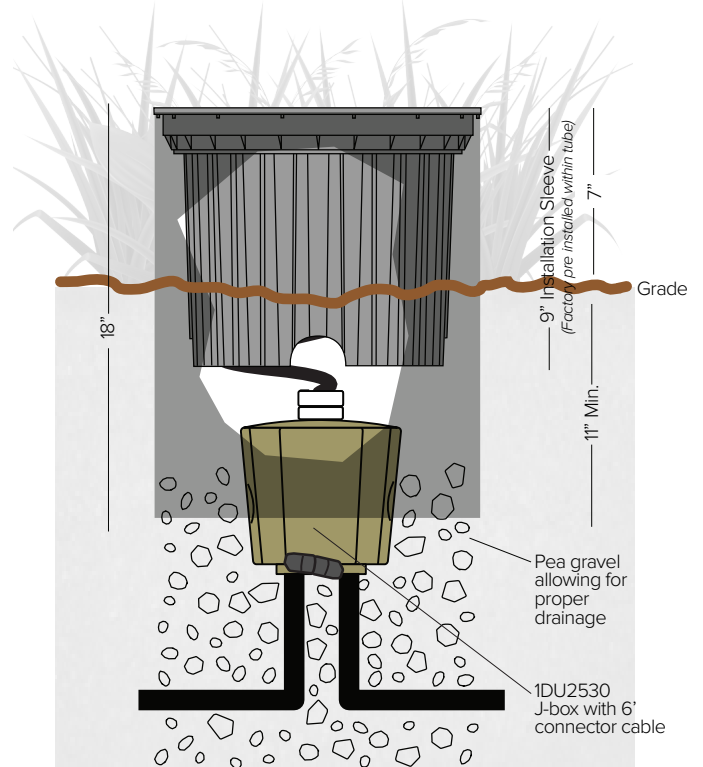
#### RAISED TUBE INSTALLATION ASSEMBLY

Recommended for Landscape Installation  
1DU4344 with Round Trim ONLY



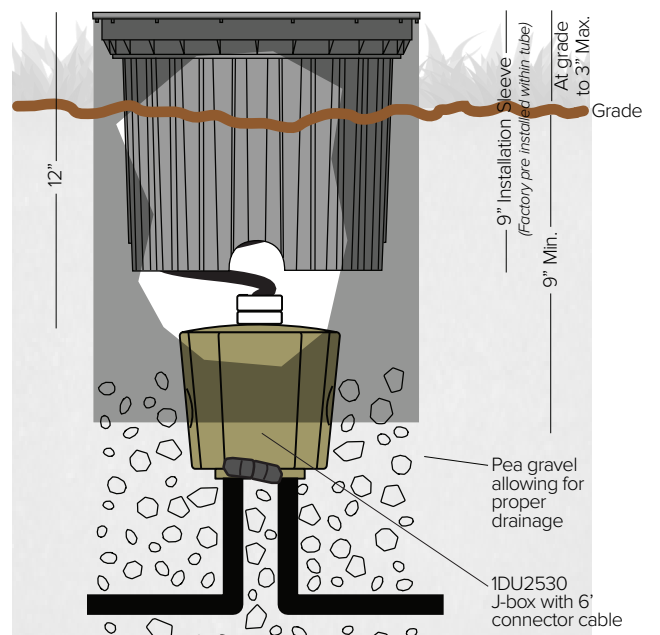
#### RAISED TUBE INSTALLATION ASSEMBLY

Recommended for Ground Level Installation  
1DU434418 with Round Trim ONLY



#### RAISED TUBE INSTALLATION ASSEMBLY

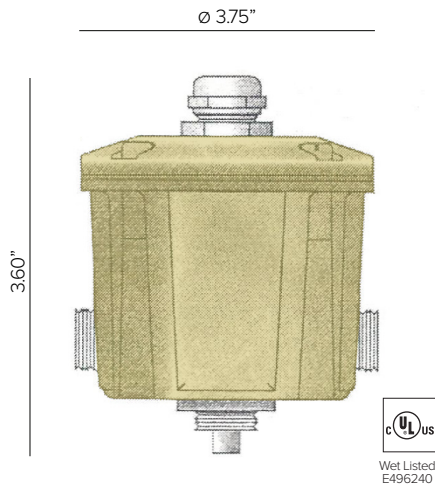
Recommended for Turf Installation  
1DU434412 with Round Trim ONLY





# KEPLERO MINI HIGH EFFICACY

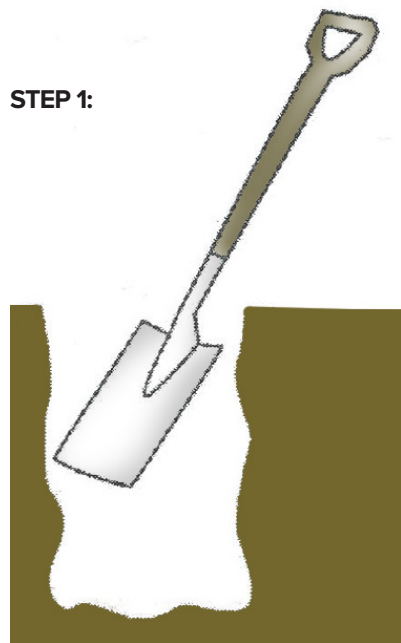
## INSTALLATION DIAGRAM - 1DU2530 J-Box



Brass junction box is supplied with the following components:

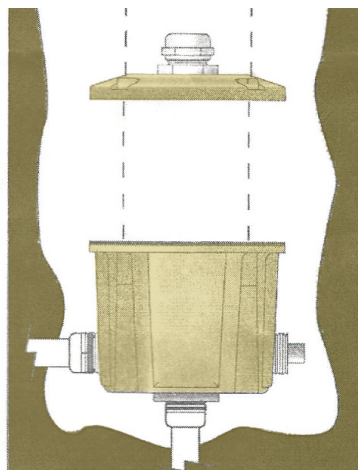
- (4)  $\frac{3}{4}"$  side/bottom NPT holes
- (4)  $\frac{1}{2}"$  reduction NPT adapters
- (2)  $\frac{1}{2}"$  cap plugs

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



Dig a hole large enough to accommodate the junction box.

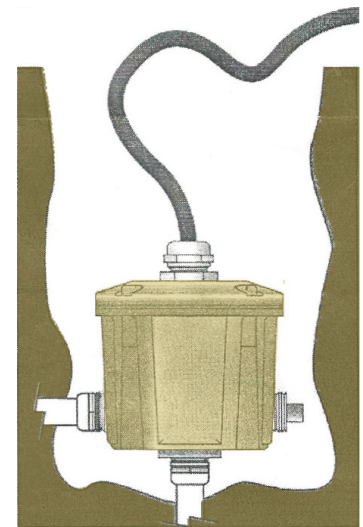
### STEP 2:



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 HIGH EFFICACY

## PHOTOMETRY

### SPOT

	2700K	H(m)	D(m)	Emax(lx)
	Ra80		11°	
	Fixture Power	14W	1	0.20
	Source Flux	1823lm	2	0.39
	Fixture Flux	1425lm	3	0.59
	Efficacy	104lm/W	4	0.79
	TS821	Imax=9992cd/klm	Imax	18216cd

	3000K	H(m)	D(m)	Emax(lx)
	Ra80		11°	
	Fixture Power	14W	1	0.20
	Source Flux	1923lm	2	0.39
	Fixture Flux	1503lm	3	0.59
	Efficacy	110lm/W	4	0.79
	TS821	Imax=9992cd/klm	Imax	19215cd

	4000K	H(m)	D(m)	Emax(lx)
	Ra80		11°	
	Fixture Power	14W	1	0.20
	Source Flux	1946lm	2	0.39
	Fixture Flux	1521lm	3	0.59
	Efficacy	111lm/W	4	0.79
	TS821	Imax=9992cd/klm	Imax	19445cd

### FLOOD

	2700K	H(m)	D(m)	Emax(lx)
	Ra80		18°	
	Fixture Power	14W	1	0.31
	Source Flux	1823lm	2	0.63
	Fixture Flux	1435lm	3	0.94
	Efficacy	105lm/W	4	1.25
	TS822	Imax=4490cd/klm	Imax	8184cd

	3000K	H(m)	D(m)	Emax(lx)
	Ra80		18°	
	Fixture Power	14W	1	0.31
	Source Flux	1923lm	2	0.63
	Fixture Flux	1514lm	3	0.94
	Efficacy	111lm/W	4	1.25
	TS822	Imax=4490cd/klm	Imax	8633cd

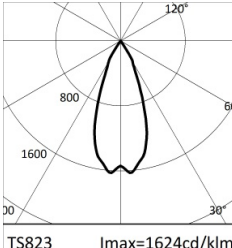
	4000K	H(m)	D(m)	Emax(lx)
	Ra80		18°	
	Fixture Power	14W	1	0.31
	Source Flux	1946lm	2	0.63
	Fixture Flux	1532lm	3	0.94
	Efficacy	112lm/W	4	1.25
	TS822	Imax=4490cd/klm	Imax	8737cd

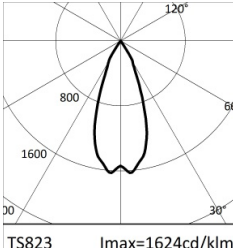


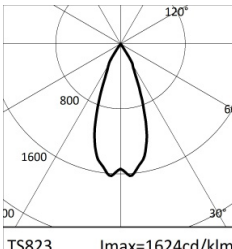
# KEPLERO MINI HIGH EFFICACY

## PHOTOMETRY

### MEDIUM WIDE FLOOD

	2700K	H(m)	D(m)	Emax(lx)
	Ra80		40°	
	Fixture Power	14W	1	0.73 2938
	Source Flux	1823lm	2	1.47 735
	Fixture Flux	1421lm	3	2.20 326
	Efficacy	104lm/W	4	2.93 184
	TS823 I <sub>max</sub> =1624cd/klm	I <sub>max</sub>	2960cd	5 3.67 118

	3000K	H(m)	D(m)	Emax(lx)
	Ra80		40°	
	Fixture Power	14W	1	0.73 3100
	Source Flux	1923lm	2	1.47 775
	Fixture Flux	1499lm	3	2.20 344
	Efficacy	109lm/W	4	2.93 194
	TS823 I <sub>max</sub> =1624cd/klm	I <sub>max</sub>	3122cd	5 3.67 124

	4000K	H(m)	D(m)	Emax(lx)
	Ra80		40°	
	Fixture Power	14W	1	0.73 3137
	Source Flux	1946lm	2	1.47 784
	Fixture Flux	1517lm	3	2.20 349
	Efficacy	111lm/W	4	2.93 196
	TS823 I <sub>max</sub> =1624cd/klm	I <sub>max</sub>	3160cd	5 3.67 125