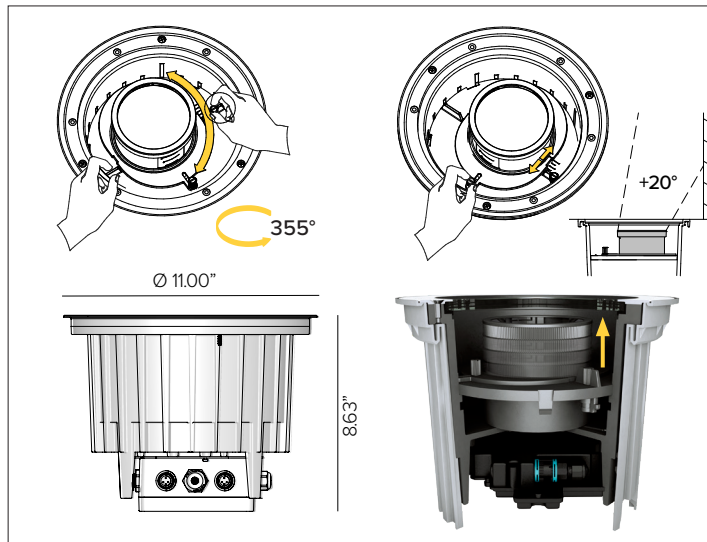


# KEPLERO ZOOM RGBW

## Professional Inground LED Fixture



KEPLERO ZOOM RGBW with brushed natural trim and clear lens.



### CONCEPT

Professional fully adjustable inground fixture with high intensity dynamic color changing RGBW LED's. As landscaping matures overtime the zoom optic can be manually adjusted to adapt with the ever changing landscape conditions.

### MECHANICAL CHARACTERISTICS

<b>Housing</b>	8"H x 11"Dia. Housing.
<b>Materials</b>	Anodized marine grade cathaphoresis <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="color: grey;">●</span> Brushed Natural <span style="color: brown;">●</span> Bronze PVD* <span style="color: black;">●</span> Black PVD* *Physical Vapor Deposition.
<b>Power Connection</b>	Provided with 4ft SJ00W 16-6 cable and DSM&T anti-wicking quick disconnect to direct burial brass ingrade j-box (required, sold separately). DMX Direct Burial Lead cable and fixture to fixture Jumpers with IP68 connectors with gold plated pin and socket contacts for improved long term data transmission available in varied lengths to be specified and ordered separately.
<b>Functionality</b>	Light optic assembly is adjusted horizontally to tilt beam illumination pattern +20°, and can be rotated 355° on the horizontal plane with integral locking system.
<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>	11.0lbs
<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 electronic driver, DMX 512 protocol. 0% dim range. Refer to Targetti <a href="#">Onsite Services</a> for additional programming and installation support.
<b>Wattage</b>	58W max at full all color / 4Ch
<b>Voltage</b>	Universal Voltage 120-277V AC 50/60Hz
<b>Ambient Temp.</b>	-25°C / +35°C (95°F)

### SOURCE

High efficiency RGBW LED emitter.

<b>TM30</b>	<b>CCT (Nominal)</b>	<b>SDCM</b>
	RGBW 4000K	2

### 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 23°	FL 32°	MWFL 51°	WFL 72°
<b>Delivered Lumens</b>				
<b>RGBW</b>	826Lm	1,086Lm	1,131Lm	1,403Lm
<b>RGB</b>	702Lm	939Lm	1,195Lm	1,246Lm
<b>RED</b>	265Lm	345Lm	440Lm	469Lm
<b>GREEN</b>	439Lm	592Lm	747Lm	786Lm
<b>BLUE</b>	85Lm	115Lm	148Lm	153Lm
<b>4000K</b>	287Lm	364Lm	443Lm	461Lm

<b>Efficacy</b>	31Lm/W max. Refer to photometric graphs for specific values.
<b>Lifetime</b>	L80/B10 60,000hrs 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 cathaphoresis 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 ZOOM RGBW

## SPECIFICATION INFORMATION

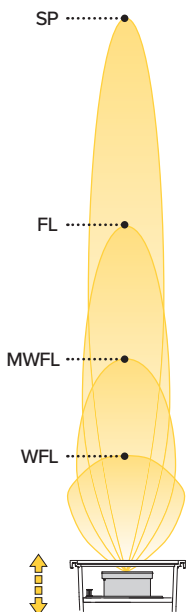
KPL	ZM								
1	2	3	4	5	6	7	8	9	10
				REQUIRED		OPTIONAL		REQUIRED	OPTIONAL

Ex: KPLZML1RGBWE2 / 1DU2325 / 1DU2394 / 1DU2530 / 1DU2533LEAD-20E2 / 1DU2533TERME2

1 - PRODUCT CODE	2 - TYPE	3 - WATTAGE	4 - KELVIN		
KPL — KEPLERO	ZM — Zoom	L1 — 58W	RGBWE2 — RGBW		
5 - TRIM	6 - INSTALLATION	7 - INSTALLATION ACCESSORIES	8 - OPTICAL ACCESSORIES	9 - CONNECTIONS	10 - CONTROL
<a href="#">Round 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="#">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	<a href="#">Lead Connection Cable</a> See section for details <a href="#">Jumper Connection Cable</a> See section for details <a href="#">Terminal</a> See section for details	<a href="#">Controller</a> See section for details

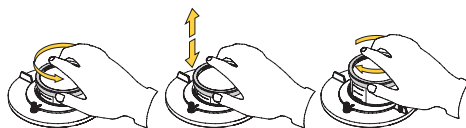


## OPTICAL SYSTEM



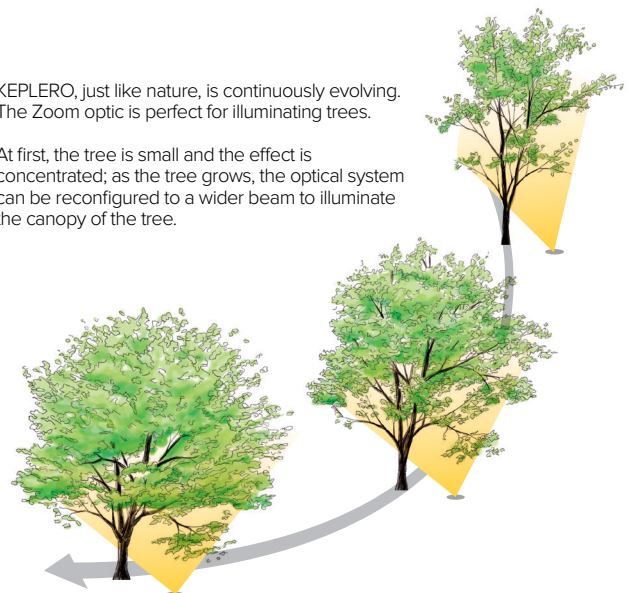
Zoom is a patented optical system that allows variation of the beam opening by manually moving the optical chamber.

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 ZOOM RGBW

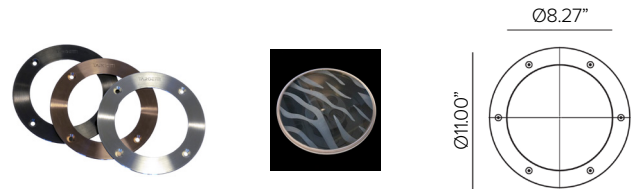
## 5 - TRIM (REQUIRED)



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. **1DU2325**      **1DU2325B**      **1DU2325K**

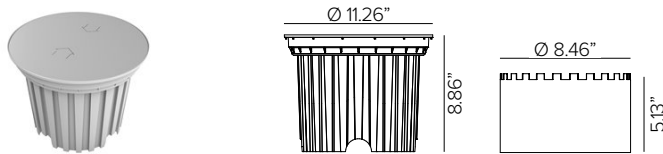


Round stainless steel (AISI316L) decorative ring with anti-slip glass. 10mm thick extra clear protective glass. Silicone gasket. Tamper proof (AISI316L) Torx screws.

Finish ● Brushed Natural ● Bronze PVD ● Black PVD

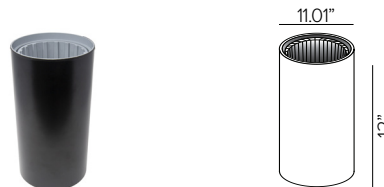
Part No. **1DU2325A**      **1DU2325BA**      **1DU2325KA**

## 6 - INSTALLATION (REQUIRED)



Installation sleeve for concrete pour applications. Grey Nylon 9" sleeve with 4.77" aluminum extension sleeve. Complete with dedicated cover cap for installations in concrete. Round ring for flush or semi-flush installations.

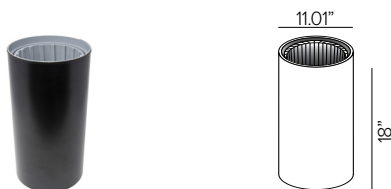
Part No. **1DU2394**



At grade or raised installation sleeve for turf or ground cover applications. 12"H stainless steel, includes factory pre-installed inner PVC installation sleeve. **Not suitable for use with 1DU2394.** (Field cuttable. Used for fixture elevations at grade to 3" above grade). **Required for use with 1DU2530 by NEC.**

Finish ● Deep Black

Part No. **1DU4343-12**



Raised installation sleeve for ground cover (succulents and low level planting) applications. 18"H stainless steel, includes factory pre-installed inner PVC sleeve. **Not suitable with 1DU2394.** (Field cuttable. Used for fixture elevation 7" above grade). **Required for use with 1DU2530 by NEC.**

Finish ● Deep Black

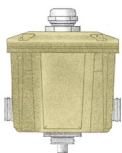
Part No. **1DU4343-18**



Raised installation sleeve for landscape applications. 36"H stainless steel, includes factory pre-installed inner PVC sleeve. **Not suitable with 1DU2394.** (Field cuttable. Used for fixture elevation 7" above grade). **Required for use with 1DU2530 by NEC.**

Finish ● Deep Black

Part No. **1DU4343**



Direct burial brass in-grade 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**

# KEPLERO ZOOM RGBW

## 8 - INSTALLATION ACCESSORIES (OPTIONAL)



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

Part No. **1E2496**



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

Part No. **1E2495**

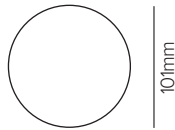


Glass suction removal tool. Helpful one per 20 fixtures.

Part No. **1E0388**

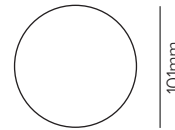
## 10 - OPTICAL ACCESSORIES (OPTIONAL)

MAXIMUM OF TWO OPTICAL FILTERS OR LOUVER ACCESSORY PER FIXTURE



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

Part No. **1T1696**



Anti-glare honeycomb louver with lacquered metal structure.

Finish ● Deep Black

Part No. **1T1699**



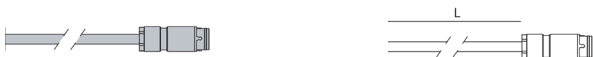
Integral half moon anti glare shutter. **Can be used as one per fixture with a filter or louver, not considered as part of the maximum optical accessories.**

Finish ● Deep Black

Part No. **1E2402**

# KEPLERO ZOOM RGBW

## 8 - CONNECTIONS (REQUIRED)



DMX data lead cable. DMX data direct burial cable for fixture to controller lead wire connection with IP68 female 3-pin connector (DMX out) bare wire at opposite end for DMX in controller connection. **Required for first fixture.**

Length	20ft	30ft	40ft	50ft
Part No.	<b>1DU2533LEAD-20E2</b>	<b>1DU2533LEAD-30E2</b>	<b>1DU2533LEAD-40E2</b>	<b>1DU2533LEAD-50E2</b>



DMX data jumper cable. Direct burial cable for fixture to fixture connection with IP68 male 3-pin connector (DMX In) and IP68 female 3-pin connector (DMX out).

Length	10ft	20ft	30ft	40ft	50ft
Part No.	<b>1DU2533-10E2</b>	<b>1DU2533-20E2</b>	<b>1DU2533-30E2</b>	<b>1DU2533-40E2</b>	<b>1DU2533-50E2</b>



Connection terminal. DMX IP68 end terminal 2"L x 0.75" dia. male gold plated 3-pin connector terminal. **Required for last fixture in run only.**

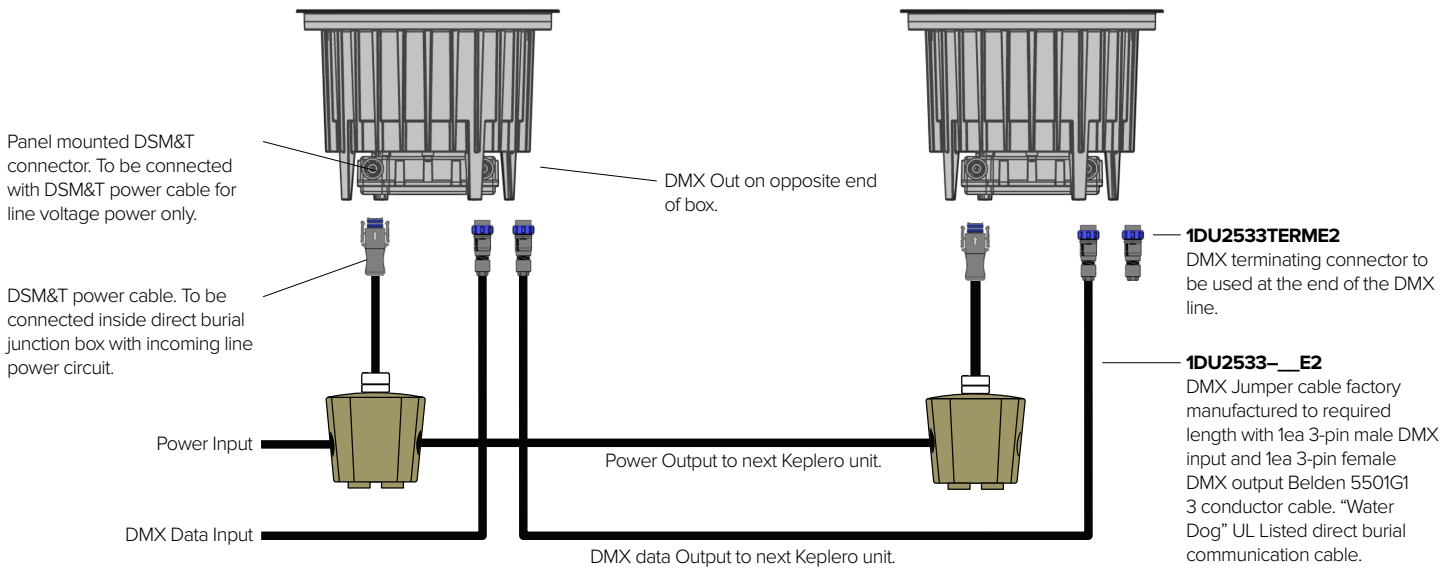
Part No. **1DU2533TERME2**

## 9 - CONTROL (OPTIONAL)

Part No.		Channels	Scenes	Zones	Rating	Voltage	Certification	Dimensions	Description
<b>TGDMXSLES AU9</b>		256	20	1	Indoor	5.5V DC	ETL, UL	5.3"W x 5.5"H x 1.9D	Nicolaudie Slesa smart DMX 1/2 universe programmable controller with easy to use software interface.
<b>TGDMXSLES AU11</b>		1024	99	5	Indoor	5VDC 120V AC <i>Plug in power supply included</i>	ETL	6.3" x 3.6" x 1.8"	Nicolaudie Slesa smart DMX interface, 2 DMX 512 universes, intuitive backlit keyboard programmable controller with easy to use software interface.
<b>TGDMXSTICKDE3B</b>		1024	500	10	Indoor	6-7V DC 120V AC <i>Plug in power supply included</i>	ETL	5.8" x 4.2" x 0.5"	Nicolaudie intelligent control keypad with glass touch sensitive graphic display, stand-alone DMX 512, 2 universe programmable controller with easy to use software interface. Black finish.
<b>TGDMXSTICKDE3W</b>		1024	500	10	Indoor	6-7V DC 120V AC <i>Plug in power supply included</i>	ETL	5.8" x 4.2" x 0.5"	Nicolaudie intelligent control keypad with glass touch sensitive graphic display, stand-alone DMX 512, 2 universe programmable controller with easy to use software interface. White finish.
<b>1E2767</b>									USB-RDM Programmer code. DMX-RDM (Remote Device Management) address planner. Used with the "RDM Targetti" software that can be downloaded for free from the Targetti USA website. To be used with all RGBW products. The USB-RDM programmer manages to direct DMX-RDM fixtures if there are no BUFFER or Splitter DMX on the section.

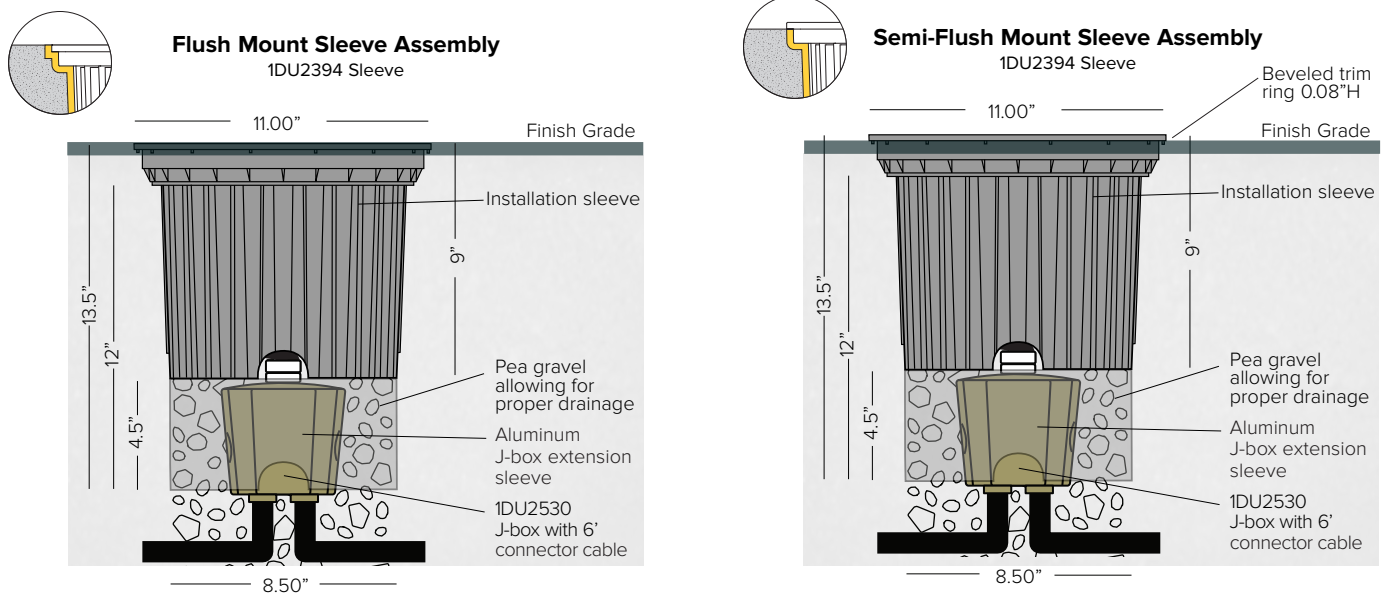
# KEPLERO ZOOM RGBW

## WIRING DIAGRAM



## INSTALLATION DIAGRAM

### HARDSCAPE APPLICATIONS

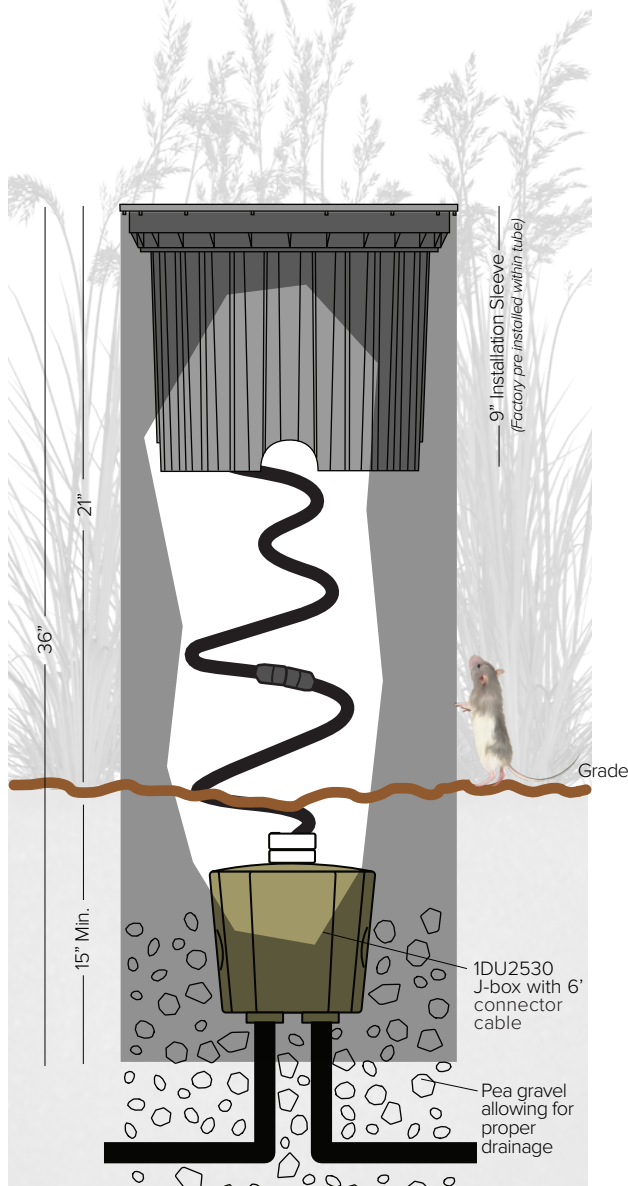


# KEPLERO ZOOM RGBW

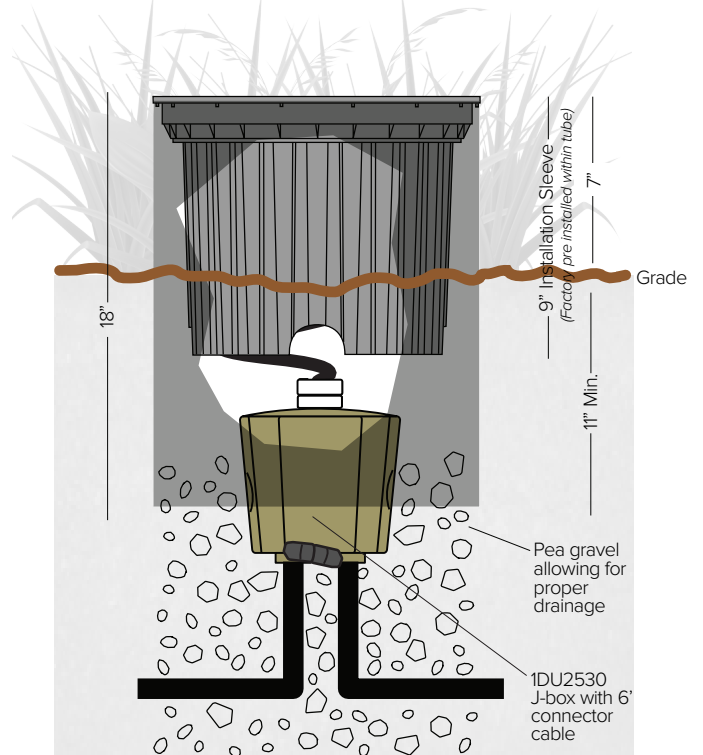
## INSTALLATION DIAGRAM

SOFTSCAPE APPLICATIONS

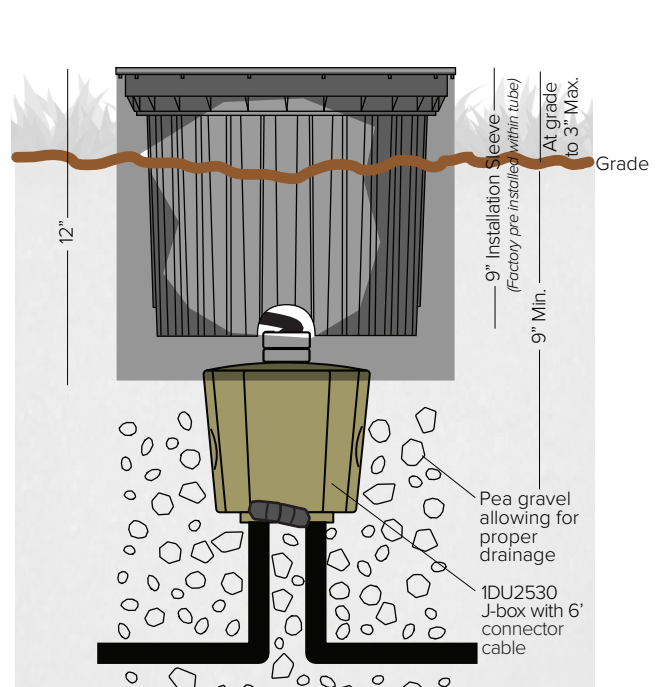
**RAISED TUBE INSTALLATION ASSEMBLY**  
Recommended for Landscape Installation



**RAISED TUBE INSTALLATION ASSEMBLY**  
Recommended for Ground Level Installation

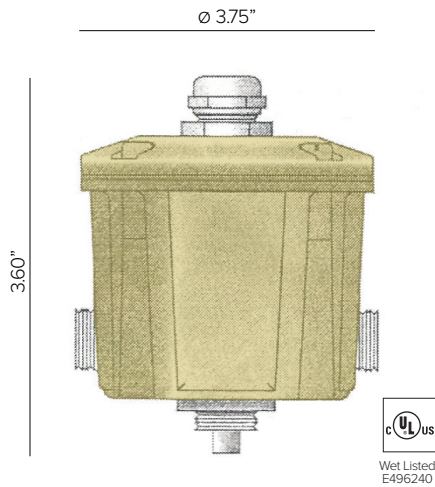


**RAISED TUBE INSTALLATION ASSEMBLY**  
Recommended for Turf Installation



# KEPLERO ZOOM RGBW

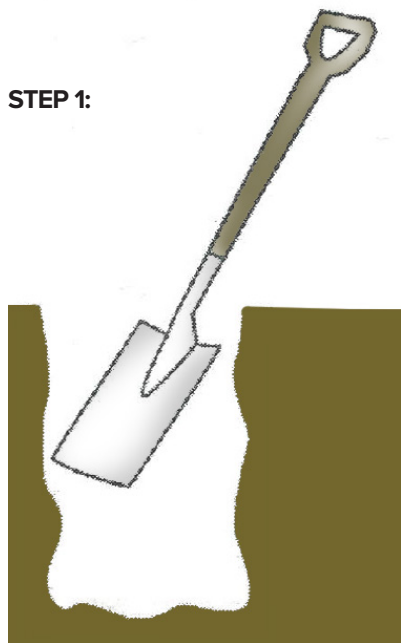
## INSTALLATION DIAGRAM - 1DU2530 J-Box



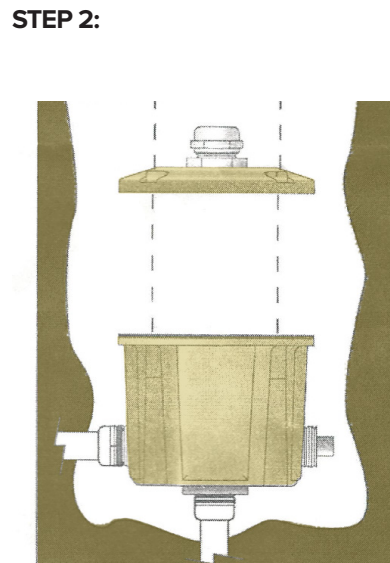
Brass junction box is supplied with the following components:

- (4) 3/4" side/bottom NPT holes
- (4) 1/2" reduction NPT adapters
- (2) 1/2" cap plugs

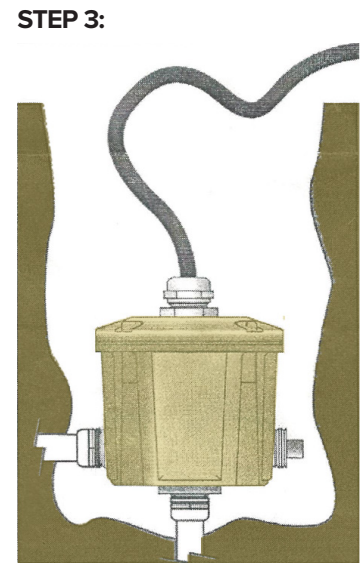
**NOTE: Box fill size = 15.94 IN<sup>3</sup>**



Dig a hole large enough to accommodate the junction box.



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.**



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 1/2" strain relief.



# KEPLERO ZOOM RGBW

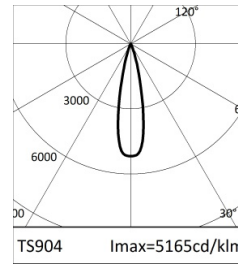
## PHOTOMETRY

### SPOT / RED



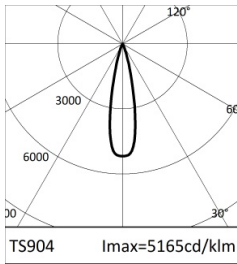
		H(m)	D(m)	Emax(lx)		
			23°			
Fixture Power	20W	1	0.42	1369		
Source Flux	265lm	2	0.83	342		
Fixture Flux	265lm	3	1.25	152		
Efficacy	13lm/W	4	1.66	86		
TS904	Imax=5165cd/klm	Imax	1369cd	5	2.08	55

### SPOT / GREEN



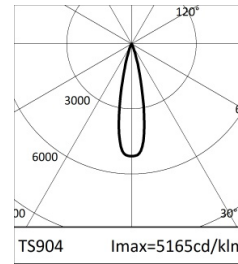
		H(m)	D(m)	Emax(lx)		
			23°			
Fixture Power	28W	1	0.42	2268		
Source Flux	439lm	2	0.83	567		
Fixture Flux	439lm	3	1.25	252		
Efficacy	16lm/W	4	1.66	142		
TS904	Imax=5165cd/klm	Imax	2268cd	5	2.08	91

### SPOT / BLUE



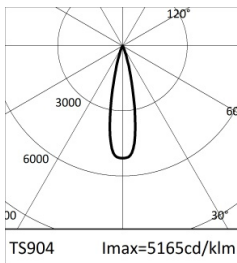
		H(m)	D(m)	Emax(lx)		
			23°			
Fixture Power	20W	1	0.42	439		
Source Flux	85lm	2	0.83	110		
Fixture Flux	85lm	3	1.25	49		
Efficacy	4lm/W	4	1.66	27		
TS904	Imax=5165cd/klm	Imax	439cd	5	2.08	18

### SPOT / 4000K



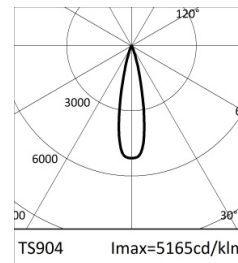
		H(m)	D(m)	Emax(lx)		
	4000K					
	Ra80		23°			
Fixture Power	15W	1	0.42	1482		
Source Flux	287lm	2	0.83	371		
Fixture Flux	287lm	3	1.25	165		
Efficacy	19lm/W	4	1.66	93		
TS904	Imax=5165cd/klm	Imax	1482cd	5	2.08	59

### SPOT / RGB



		H(m)	D(m)	Emax(lx)		
			23°			
Fixture Power	58W	1	0.42	3626		
Source Flux	702lm	2	0.83	907		
Fixture Flux	702lm	3	1.25	403		
Efficacy	12lm/W	4	1.66	227		
TS904	Imax=5165cd/klm	Imax	3626cd	5	2.08	145

### SPOT / RGBW



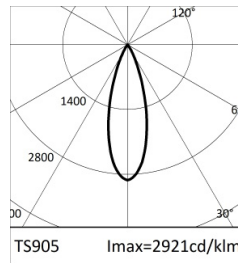
		H(m)	D(m)	Emax(lx)		
			23°			
Fixture Power	56W	1	0.42	4267		
Source Flux	826lm	2	0.83	1067		
Fixture Flux	826lm	3	1.25	474		
Efficacy	15lm/W	4	1.66	267		
TS904	Imax=5165cd/klm	Imax	4267cd	5	2.08	171

### FLOOD / RED



		H(m)	D(m)	Emax(lx)		
			32°			
Fixture Power	20W	1	0.57	1008		
Source Flux	345lm	2	1.14	252		
Fixture Flux	345lm	3	1.71	112		
Efficacy	17lm/W	4	2.27	63		
TS905	Imax=2921cd/klm	Imax	1008cd	5	2.84	40

### FLOOD / GREEN



		H(m)	D(m)	Emax(lx)		
			32°			
Fixture Power	28W	1	0.57	1729		
Source Flux	592lm	2	1.14	432		
Fixture Flux	592lm	3	1.71	192		
Efficacy	21lm/W	4	2.27	108		
TS905	Imax=2921cd/klm	Imax	1729cd	5	2.84	69

### FLOOD / BLUE



		H(m)	D(m)	Emax(lx)		
			32°			
Fixture Power	20W	1	0.57	336		
Source Flux	115lm	2	1.14	84		
Fixture Flux	115lm	3	1.71	37		
Efficacy	6lm/W	4	2.27	21		
TS905	Imax=2921cd/klm	Imax	336cd	5	2.84	13

### FLOOD / 4000K



		H(m)	D(m)	Emax(lx)		
	4000K					
	Ra80		32°			
Fixture Power	15W	1	0.57	1063		
Source Flux	364lm	2	1.14	266		
Fixture Flux	364lm	3	1.71	118		
Efficacy	24lm/W	4	2.27	66		
TS905	Imax=2921cd/klm	Imax	1063cd	5	2.84	43

# KEPLERO ZOOM RGBW

## PHOTOMETRY

### FLOOD / RGB

		H(m)	D(m)	Emax(lx)
	-			
	-		32°	
Fixture Power	58W	1	0.57	2742
Source Flux	939lm	2	1.14	686
Fixture Flux	939lm	3	1.71	305
Efficacy	16lm/W	4	2.27	171
TS905	I <sub>max</sub> =2921cd/klm	I <sub>max</sub>	2742cd	110

### FLOOD / RGBW

		H(m)	D(m)	Emax(lx)
	-			
	-		32°	
Fixture Power	56W	1	0.57	3172
Source Flux	1086lm	2	1.14	793
Fixture Flux	1086lm	3	1.71	352
Efficacy	19lm/W	4	2.27	198
TS905	I <sub>max</sub> =2921cd/klm	I <sub>max</sub>	3172cd	127

### MEDIUM WIDE FLOOD / RED

		H(m)	D(m)	Emax(lx)
	-			
	-		51°	
Fixture Power	20W	1	0.95	607
Source Flux	440lm	2	1.90	152
Fixture Flux	440lm	3	2.85	67
Efficacy	22lm/W	4	3.80	38
TS906	I <sub>max</sub> =1380cd/klm	I <sub>max</sub>	607cd	24

### MEDIUM WIDE FLOOD / GREEN

		H(m)	D(m)	Emax(lx)
	-			
	-		51°	
Fixture Power	28W	1	0.95	1031
Source Flux	747lm	2	1.90	258
Fixture Flux	747lm	3	2.85	115
Efficacy	27lm/W	4	3.80	64
TS906	I <sub>max</sub> =1380cd/klm	I <sub>max</sub>	1031cd	41

### MEDIUM WIDE FLOOD / BLUE

		H(m)	D(m)	Emax(lx)
	-			
	-		51°	
Fixture Power	20W	1	0.95	204
Source Flux	148lm	2	1.90	51
Fixture Flux	148lm	3	2.85	23
Efficacy	7lm/W	4	3.80	13
TS906	I <sub>max</sub> =1380cd/klm	I <sub>max</sub>	204cd	8

### MEDIUM WIDE FLOOD / 4000K

		H(m)	D(m)	Emax(lx)
	4000K			
	Ra80		51°	
Fixture Power	15W	1	0.95	612
Source Flux	443lm	2	1.90	153
Fixture Flux	443lm	3	2.85	68
Efficacy	30lm/W	4	3.80	38
TS906	I <sub>max</sub> =1380cd/klm	I <sub>max</sub>	612cd	24

### MEDIUM WIDE FLOOD / RGB

		H(m)	D(m)	Emax(lx)
	-			
	-		51°	
Fixture Power	58W	1	0.95	1650
Source Flux	1195lm	2	1.90	412
Fixture Flux	1195lm	3	2.85	183
Efficacy	21lm/W	4	3.80	103
TS906	I <sub>max</sub> =1380cd/klm	I <sub>max</sub>	1650cd	66

### MEDIUM WIDE FLOOD / RGBW

		H(m)	D(m)	Emax(lx)
	-			
	-		51°	
Fixture Power	56W	1	0.95	1561
Source Flux	1131lm	2	1.90	390
Fixture Flux	1131lm	3	2.85	173
Efficacy	20lm/W	4	3.80	98
TS906	I <sub>max</sub> =1380cd/klm	I <sub>max</sub>	1561cd	62

### WIDE FLOOD / RED

		H(m)	D(m)	Emax(lx)
	-			
	-		72°	
Fixture Power	20W	1	1.45	360
Source Flux	469lm	2	2.90	90
Fixture Flux	469lm	3	4.35	40
Efficacy	23lm/W	4	5.80	22
TS907	I <sub>max</sub> =768cd/klm	I <sub>max</sub>	360cd	14

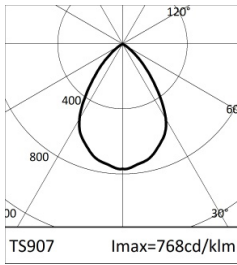
### WIDE FLOOD / GREEN

		H(m)	D(m)	Emax(lx)
	-			
	-		72°	
Fixture Power	28W	1	1.45	603
Source Flux	786lm	2	2.90	151
Fixture Flux	786lm	3	4.35	67
Efficacy	28lm/W	4	5.80	38
TS907	I <sub>max</sub> =768cd/klm	I <sub>max</sub>	603cd	24

# KEPLERO ZOOM RGBW

## PHOTOMETRY

### WIDE FLOOD / BLUE



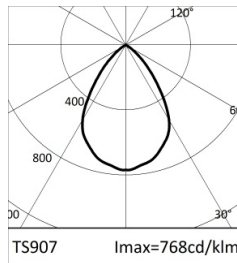
		H(m)	D(m)	Emax(lx)
	-			
	-		72°	
Fixture Power	20W	1	1.45	117
Source Flux	153lm	2	2.90	29
Fixture Flux	153lm	3	4.35	13
Efficacy	8lm/W	4	5.80	7
TS907	I <sub>max</sub> =768cd/klm	I <sub>max</sub>	117cd	5
			7.25	5

### WIDE FLOOD / 4000K



		H(m)	D(m)	Emax(lx)
	4000K			
	Ra80		72°	
Fixture Power	15W	1	1.45	354
Source Flux	461lm	2	2.90	88
Fixture Flux	461lm	3	4.35	39
Efficacy	31lm/W	4	5.80	22
TS907	I <sub>max</sub> =768cd/klm	I <sub>max</sub>	354cd	5
			7.25	14

### WIDE FLOOD / RGB



		H(m)	D(m)	Emax(lx)
	-			
	-		72°	
Fixture Power	58W	1	1.45	956
Source Flux	1246lm	2	2.90	239
Fixture Flux	1246lm	3	4.35	106
Efficacy	21lm/W	4	5.80	60
TS907	I <sub>max</sub> =768cd/klm	I <sub>max</sub>	956cd	5
			7.25	38

### WIDE FLOOD / RGBW



		H(m)	D(m)	Emax(lx)
	-			
	-		72°	
Fixture Power	56W	1	1.45	1077
Source Flux	1403lm	2	2.90	269
Fixture Flux	1403lm	3	4.35	120
Efficacy	25lm/W	4	5.80	67
TS907	I <sub>max</sub> =768cd/klm	I <sub>max</sub>	1077cd	5
			7.25	43