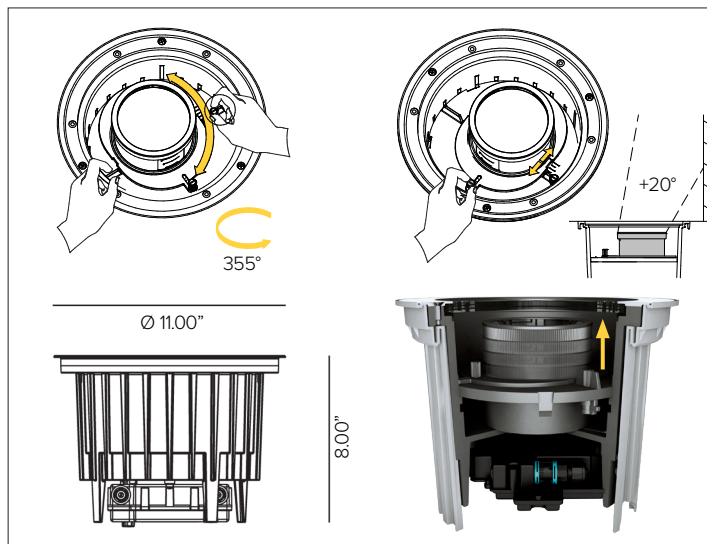


KEPLERO ZOOM

Professional Inground LED Fixture



KEPLERO® Zoom with brushed natural trim and clear lens.



CONCEPT

High output 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 11"Dia. Housing.
Materials	Anodized marine grade cathaphoresis ^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 DSM&T anti-wicking quick disconnect to direct burial brass ingrade j-box (required, sold separately).
Functionality	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.
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	12.0lbs
Protection	IP68 ^B / IP69K
Impact	IK10
Load	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

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

SOURCE

Single LED COB

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

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 19°	FL 26°	MWFL 43°	WFL 64°
Delivered Lumens				
2700K	1,707Lm	2,259Lm	2,823Lm	2,960Lm
3000K	1,801Lm	2,384Lm	2,978Lm	3,124Lm
4000K	1,823Lm	2,413Lm	3,015Lm	3,162Lm

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

Efficacy	91lm/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 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.

^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 ZOOM

SPECIFICATION INFORMATION

KPL	41	ZM	L2					
1	2	3	4	5	6	7	8	9
					REQUIRED	OPTIONAL	REQUIRED	OPTIONAL

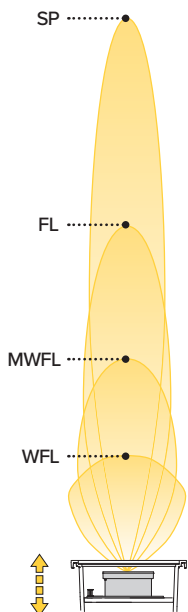
Ex: KPL41ZML227 / 1DU2525 / 1DU2521 / 1DU2530

1 - PRODUCT CODE	2 - DRIVER	3 - TYPE	4 - WATTAGE	5 - KELVIN
KPL — KEPLERO	41 — 4/1 Smart Driver <i>(Non-Dimming / 0-10V / Reverse Phase / Forward Phase)</i>	ZM — Zoom	L2 — 35W	27 — 2700K 30 — 3000K 35 — 3500K 40 — 4000K

6 - TRIM	7 - OPTICAL ACCESSORIES	8 - INSTALLATION	9 - INSTALLATION ACCESSORIES
Round Trim Ring 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	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



OPTICAL SYSTEM



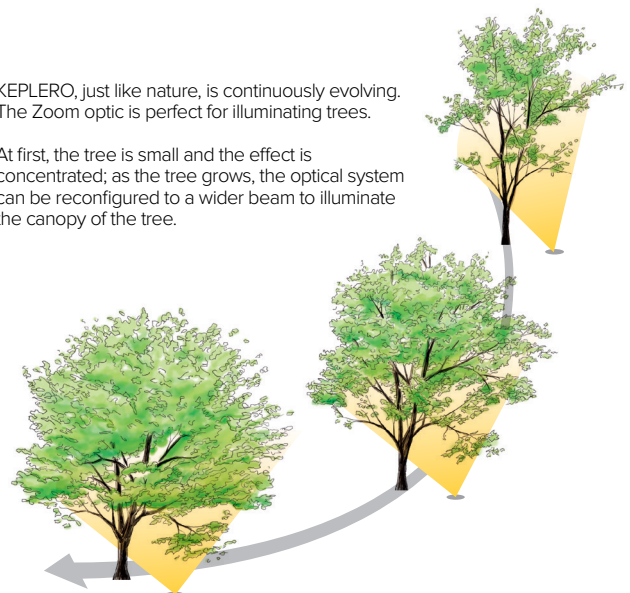
Zoom is a patented optical system that allows variation of the beam opening by manually moving the optical chamber.

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.



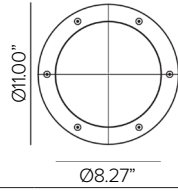
KEPLERO, just like nature, is continuously evolving. The Zoom optic is perfect for illuminating trees.

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

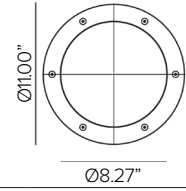
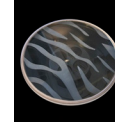
6 - TRIM (REQUIRED)



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

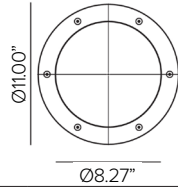
Part No. **1DU2325** **1DU2325B** **1DU2325K**



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**



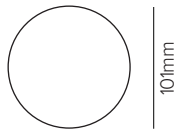
Round stainless steel (AISI316L) decorative ring with half frosted glass. 10mm thick extra clear protective glass. Silicone gasket. Tamper proof (AISI316L) Torx screws.

Finish ● Brushed Natural ● Bronze PVD ● Black PVD

Part No. **1DU2325E** **1DU2325BE** **1DU2325KE**

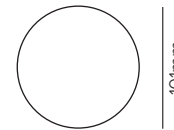
7 - OPTICAL ACCESSORIES (OPTIONAL)

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**



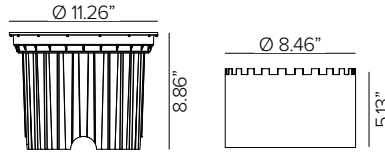
Integral half moon anti glare shutter. Can be used as one per fixture with a filter or louver, not considered as part of the maximum optical accessories.

Finish ● Deep Black

Part No. **1E2402**

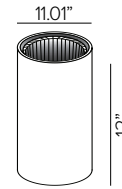
KEPLERO ZOOM

8 - 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.

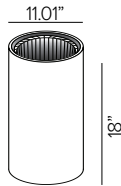
Part No. **1DU2394**



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

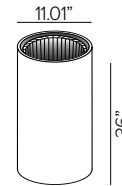
Part No. **1DU4343-12**



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

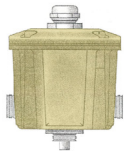
Part No. **1DU4343-18**



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**

9 - 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**

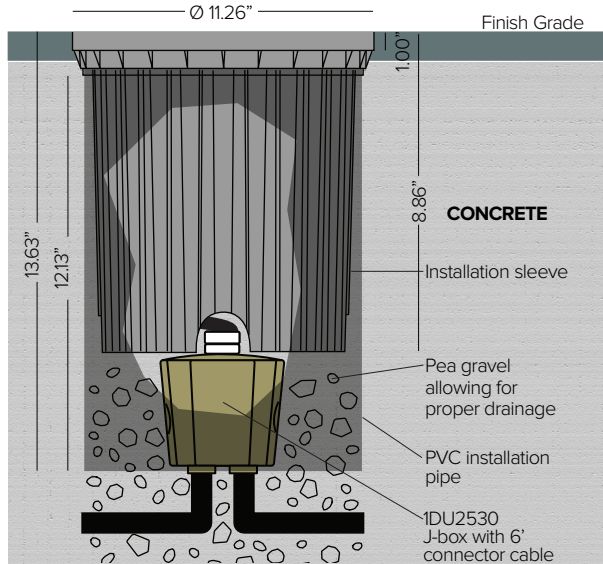
KEPLERO ZOOM

INSTALLATION DIAGRAM

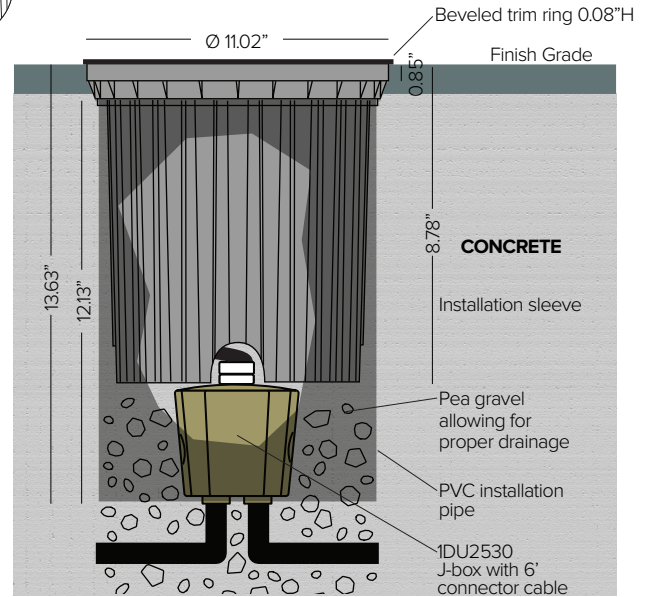
HARDSCAPE APPLICATION



Flush Mount Sleeve Assembly
1DU2394 Sleeve



Semi-Flush Mount Sleeve Assembly
1DU2394 Sleeve



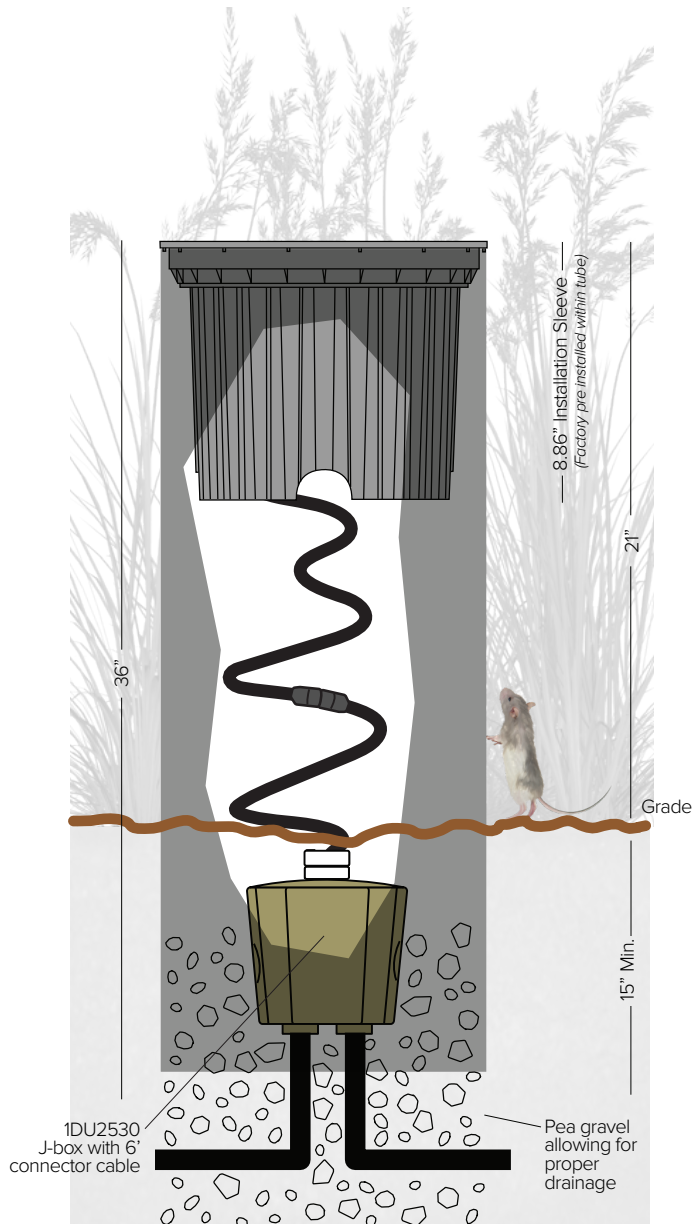
KEPLERO ZOOM

INSTALLATION DIAGRAM

SOFTSCAPE APPLICATION

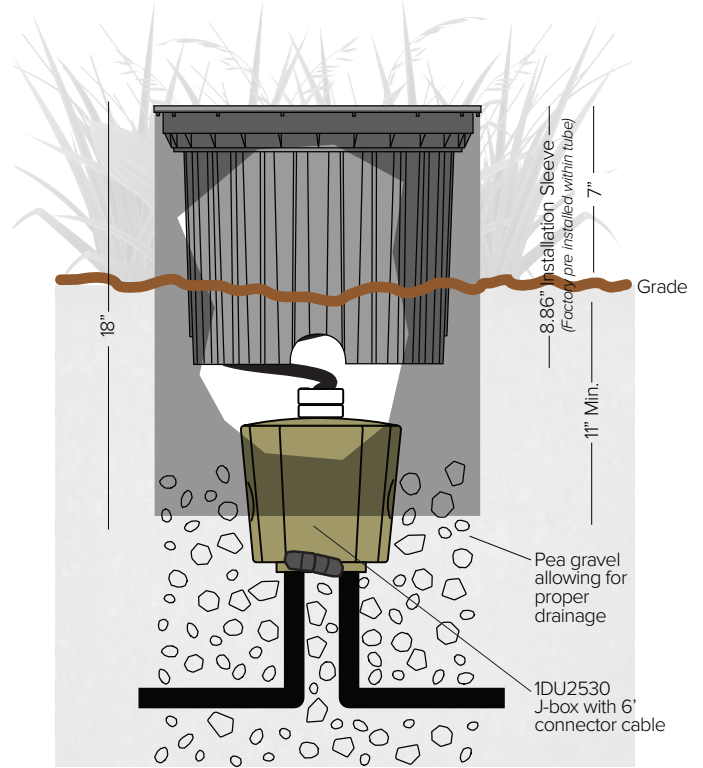
RAISED TUBE INSTALLATION ASSEMBLY

Recommended for Softscape Landscape Raised Installation
1DU4343



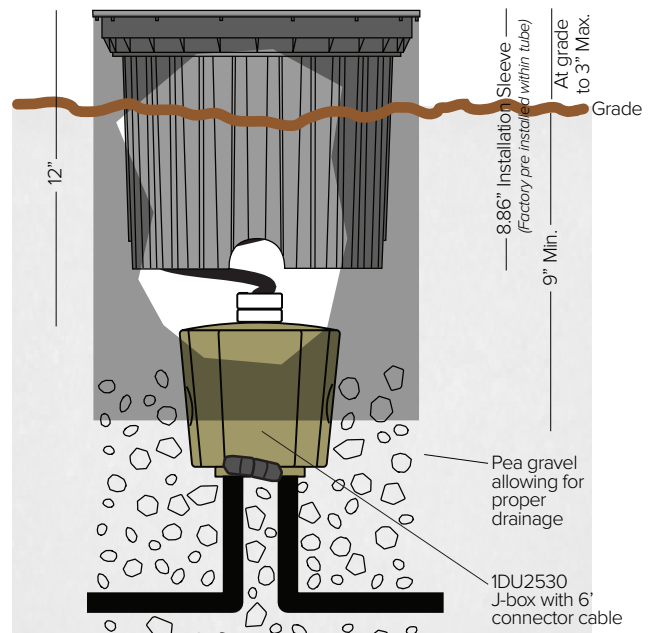
RAISED TUBE INSTALLATION ASSEMBLY

Recommended for Softscape Ground Level Installation
1DU434318



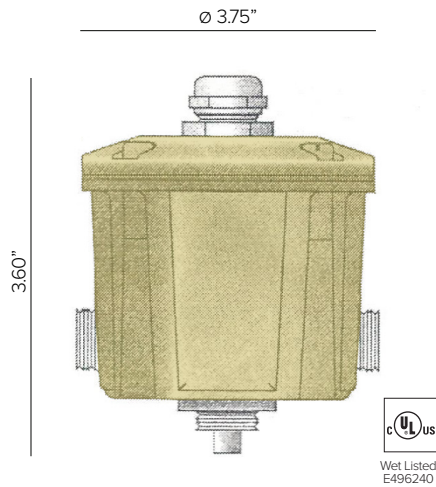
RAISED TUBE INSTALLATION ASSEMBLY

Recommended for Softscape Turf Installation
1DU434312



KEPLERO ZOOM

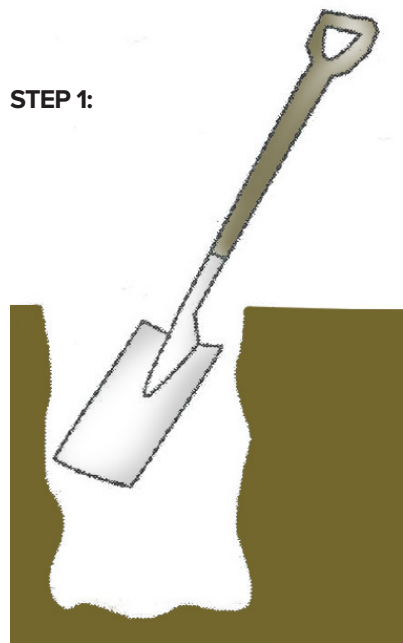
INSTALLATION DIAGRAM - 1DU2530 J-Box



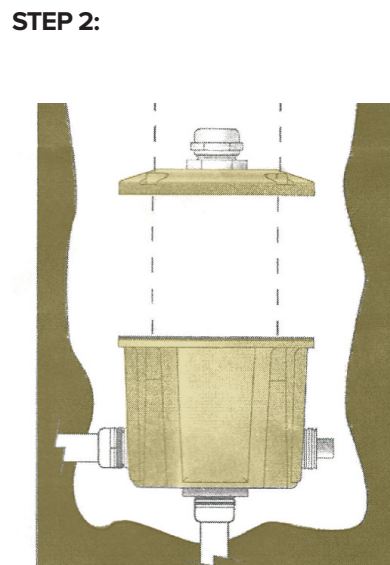
Brass junction box is supplied with the following components:

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

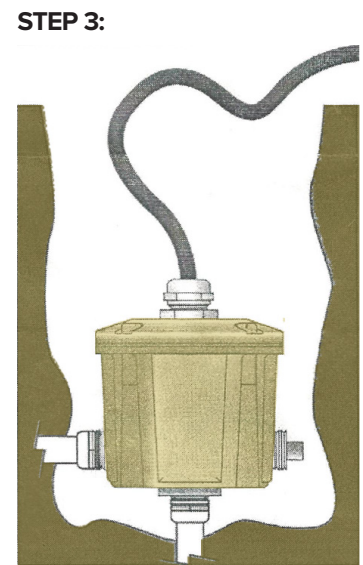
NOTE: Box fill size = 15.94 IN³



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.

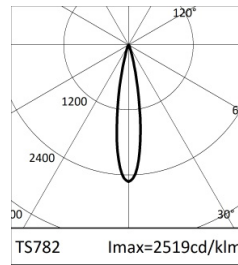
KEPLERO ZOOM

PHOTOMETRY

SPOT



2700K		H(m)	D(m)	Emax(lx)		
Ra80			19°			
Fixture Power	35W	1	0.34	11742		
Source Flux	4662lm	2	0.67	2935		
Fixture Flux	1707lm	3	1.01	1305		
Efficacy	48lm/W	4	1.34	734		
TS782	I _{max} =2519cd/klm	I _{max}	11742cd	5	1.68	470



3000K		H(m)	D(m)	Emax(lx)		
Ra80			19°			
Fixture Power	35W	1	0.34	12389		
Source Flux	4919lm	2	0.67	3097		
Fixture Flux	1801lm	3	1.01	1377		
Efficacy	52lm/W	4	1.34	774		
TS782	I _{max} =2519cd/klm	I _{max}	12389cd	5	1.68	496

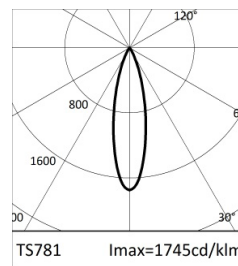


4000K		H(m)	D(m)	Emax(lx)		
Ra80			19°			
Fixture Power	35W	1	0.34	12540		
Source Flux	4979lm	2	0.67	3135		
Fixture Flux	1823lm	3	1.01	1393		
Efficacy	52lm/W	4	1.34	784		
TS782	I _{max} =2519cd/klm	I _{max}	12540cd	5	1.68	502

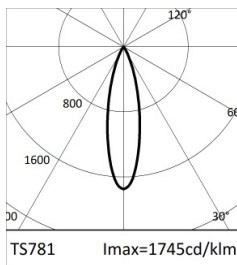
FLOOD



2700K		H(m)	D(m)	Emax(lx)		
Ra80			26°			
Fixture Power	35W	1	0.46	8134		
Source Flux	4662lm	2	0.93	2034		
Fixture Flux	2259lm	3	1.39	904		
Efficacy	64lm/W	4	1.86	508		
TS781	I _{max} =1745cd/klm	I _{max}	8134cd	5	2.32	325



3000K		H(m)	D(m)	Emax(lx)		
Ra80			26°			
Fixture Power	35W	1	0.46	8583		
Source Flux	4919lm	2	0.93	2146		
Fixture Flux	2384lm	3	1.39	954		
Efficacy	68lm/W	4	1.86	536		
TS781	I _{max} =1745cd/klm	I _{max}	8583cd	5	2.32	343

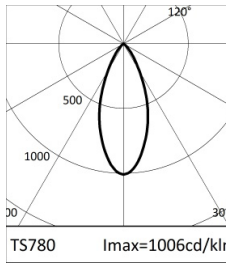


4000K		H(m)	D(m)	Emax(lx)		
Ra80			26°			
Fixture Power	35W	1	0.46	8687		
Source Flux	4979lm	2	0.93	2172		
Fixture Flux	2413lm	3	1.39	965		
Efficacy	69lm/W	4	1.86	543		
TS781	I _{max} =1745cd/klm	I _{max}	8687cd	5	2.32	347

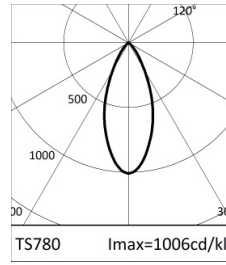
KEPLERO ZOOM

PHOTOMETRY

MEDIUM WIDE FLOOD



2700K		H(m)	D(m)	Emax(lx)		
Ra80			43°			
Fixture Power	35W	1	0.78	4692		
Source Flux	4662lm	2	1.56	1173		
Fixture Flux	2823lm	3	2.34	521		
Efficacy	80lm/W	4	3.12	293		
TS780	I _{max} =1006cd/klm	I _{max}	4692cd	5	3.90	188



3000K		H(m)	D(m)	Emax(lx)		
Ra80			43°			
Fixture Power	35W	1	0.78	4950		
Source Flux	4919lm	2	1.56	1238		
Fixture Flux	2978lm	3	2.34	550		
Efficacy	85lm/W	4	3.12	309		
TS780	I _{max} =1006cd/klm	I _{max}	4950cd	5	3.90	198

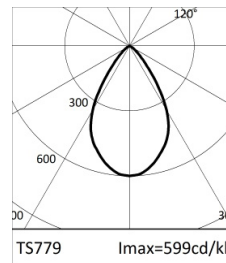


4000K		H(m)	D(m)	Emax(lx)		
Ra80			43°			
Fixture Power	35W	1	0.78	5011		
Source Flux	4979lm	2	1.56	1253		
Fixture Flux	3015lm	3	2.34	557		
Efficacy	86lm/W	4	3.12	313		
TS780	I _{max} =1006cd/klm	I _{max}	5011cd	5	3.90	200

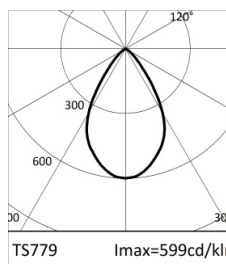
WIDE FLOOD



2700K		H(m)	D(m)	Emax(lx)		
Ra80			64°			
Fixture Power	35W	1	1.25	2792		
Source Flux	4662lm	2	2.50	698		
Fixture Flux	2960lm	3	3.75	310		
Efficacy	84lm/W	4	5.00	174		
TS779	I _{max} =599cd/klm	I _{max}	2792cd	5	6.25	112



3000K		H(m)	D(m)	Emax(lx)		
Ra80			64°			
Fixture Power	35W	1	1.25	2945		
Source Flux	4919lm	2	2.50	736		
Fixture Flux	3124lm	3	3.75	327		
Efficacy	90lm/W	4	5.00	184		
TS779	I _{max} =599cd/klm	I _{max}	2945cd	5	6.25	118



4000K		H(m)	D(m)	Emax(lx)		
Ra80			64°			
Fixture Power	35W	1	1.25	2981		
Source Flux	4979lm	2	2.50	745		
Fixture Flux	3162lm	3	3.75	331		
Efficacy	91lm/W	4	5.00	186		
TS779	I _{max} =599cd/klm	I _{max}	2981cd	5	6.25	119