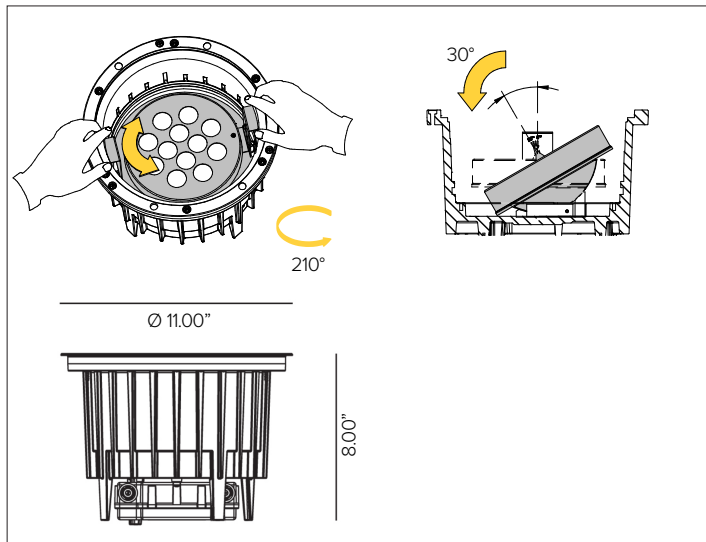


KEPLERO GIMBAL HP

Professional High Performance Inground LED Fixture



KEPLERO® Gimbal HP with brushed natural trim and clear lens.



CONCEPT

High performance inground LED gimbal incorporating maximum precision and control for specific aimed illumination of objects.

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	Adjustable +/-30° on the vertical axis and rotated 210° 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	14lbs
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

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.

ELECTRICAL CHARACTERISTICS

Power Supply	Integrated 4/1 smart driver (Non-dimmable / 0-10V / Reverse Phase / Forward Phase).
Wattage	16W (NSP) / 39W (SP / FL / MWFL)
Voltage	Universal Voltage 120-277V AC 50/60Hz
Ambient Temp.	-25°C / +35°C (95°F)

SOURCE

High efficiency LED emitter.

TM30	CCT (Nominal)	CRI	R _f	R _g	SDCM
SP / FL / MWFL Optics	2700K	80	85	98	3
	3000K	80	85	99	3
	3500K	80	85	99	3
	4000K	80	85	95	3
NSP Optic Only	2700K	80	83	98	3
	3000K	80	85	99	3
	3500K	80	85	100	3
	4000K	80	85	95	3

OPTIC

Optical system comprised of optical grade PMMA lens and holographic diffusing filter.

Beam	NSP 5°	SP 11°	FL 21°	MWFL 44°
Delivered Lumens				
2700K	1,321Lm	3,284Lm	3,018Lm	2,985Lm
3000K	1,407Lm	3,518Lm	3,233Lm	3,198Lm
4000K	1,515Lm	3,753Lm	3,449Lm	3,411Lm

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

Efficacy	96Lm/W max. Refer to photometric graphs for specific values.
Lifetime	L96/B10 30,000hrs at max TA +25°C L93/B10 50,000hrs at max TA +25°C

Photobiological Classification Low risk safety RG1

SUSTAINABILITY

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

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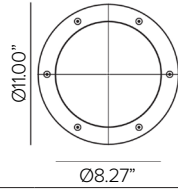
SPECIFICATION INFORMATION

KPL	41	GHP							
1	2	3	4	5	6	7	8	9	10
Ex: KPL41GHPNSL030 / 1E2525 / 1DU2521 / 1DU2530						REQUIRED	OPTIONAL	REQUIRED	OPTIONAL

1 - PRODUCT CODE	2 - DRIVER	3 - TYPE	4 - OPTICS	5 - WATTAGE	6 - KELVIN
KPL — KEPLERO	41 — 4/1 Smart Driver <i>(Non-Dimming / 0-10V / Reverse Phase / Forward Phase)</i>	GHP — Gimbal HP	NS — NSP 5° SP — SP 11° FL — FL 21° MW — MWFL 44°	L0 — 16W L2 — 39W	27 — 2700K 30 — 3000K 35 — 3500K 40 — 4000K
7 - TRIM	8 - OPTICAL ACCESSORIES	9 - INSTALLATION	10 - 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	Torx Key See section for details Fixture Removal Tool See section for details Glass Removal Tool See section for details		

KEPLERO GIMBAL HP

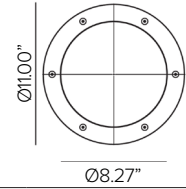
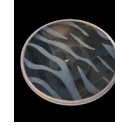
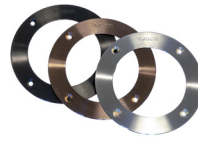
7 - TRIM (REQUIRED)



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

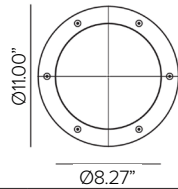
Part No. **1DU2325** **1DU2325B** **1DU2325K**



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**

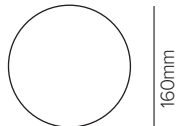


Round stainless steel (AISI316L) decorative ring with half frosted glass. 10mm thick extra clear protective glass. Silicone gasket. Tamper proof (AISI316L) Torx screws.

Finish ● Brushed Natural ● Bronze PVD ● Black PVD

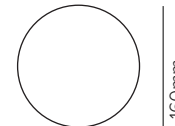
Part No. **1DU2325E** **1DU2325BE** **1DU2325KE**

8 - OPTICAL ACCESSORIES (OPTIONAL)



'Blade of Light' linear spread lens. Parallel ribbed glass complete with holder.

Part No. **A063**



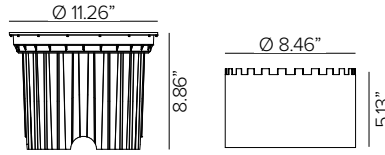
Anti-glare honeycomb louver with lacquered metal structure, complete with holder.

Finish ● Deep Black

Part No. **A062**

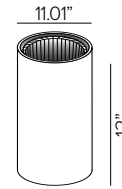
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9 - INSTALLATION (REQUIRED)



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.

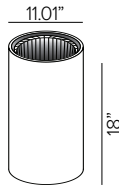
Part No. **1DU2394**



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

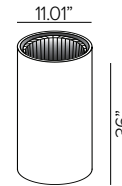
Part No. **1DU4343-12**



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

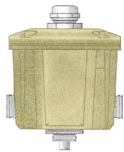
Part No. **1DU4343-18**



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**

10 - 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**

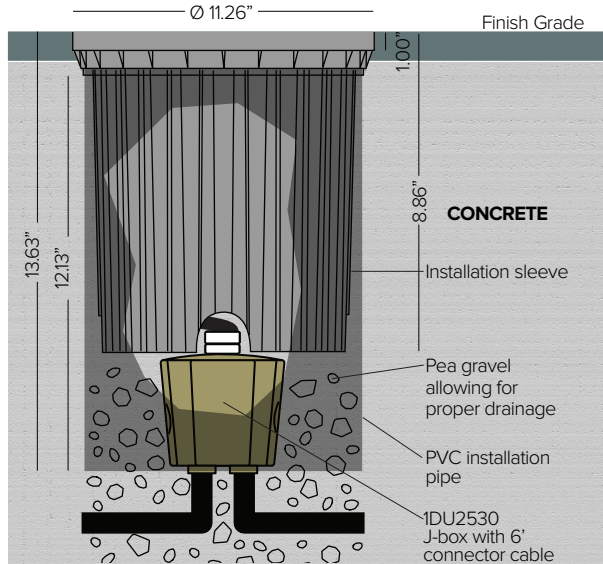
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INSTALLATION DIAGRAM

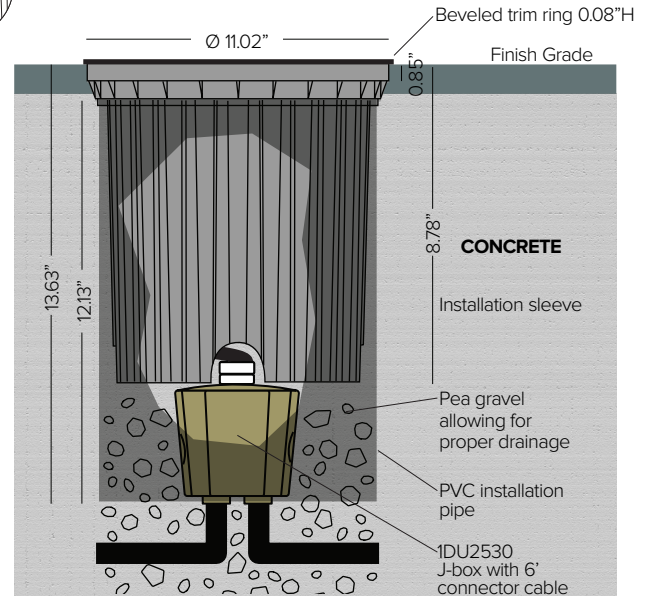
CONCRETE POUR APPLICATION



Flush Mount Sleeve Assembly
1DU2394 Sleeve



Semi-Flush Mount Sleeve Assembly
1DU2394 Sleeve



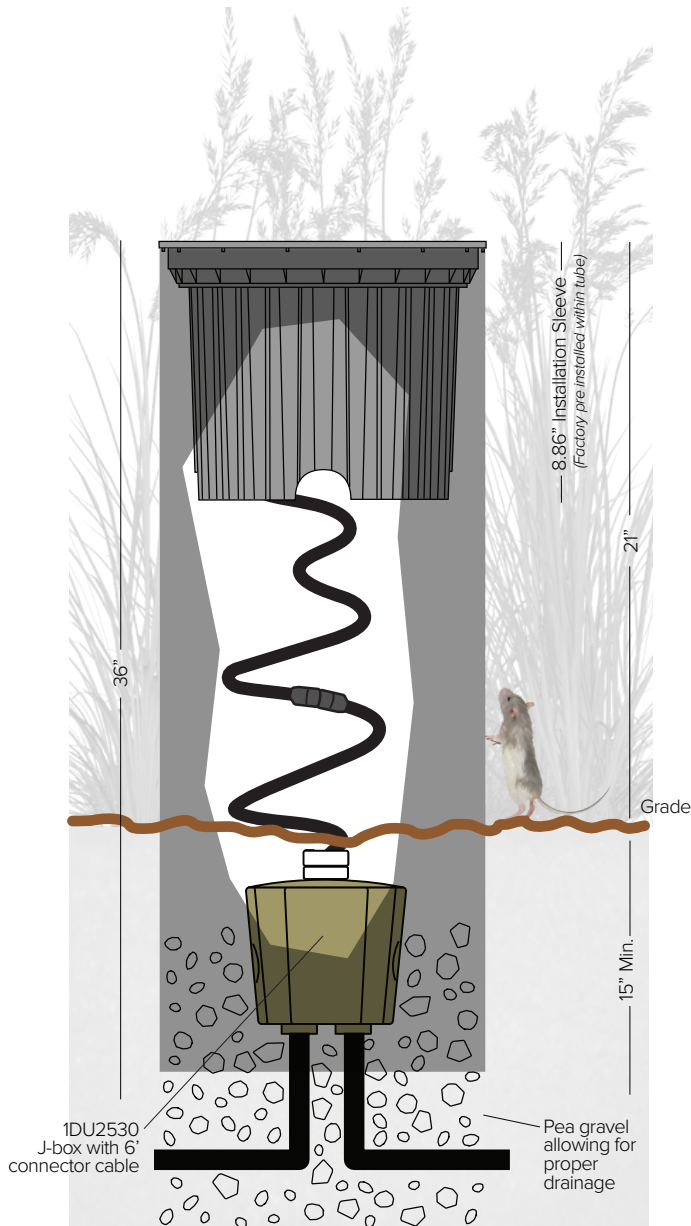
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INSTALLATION DIAGRAM

SOFTSCAPE APPLICATION

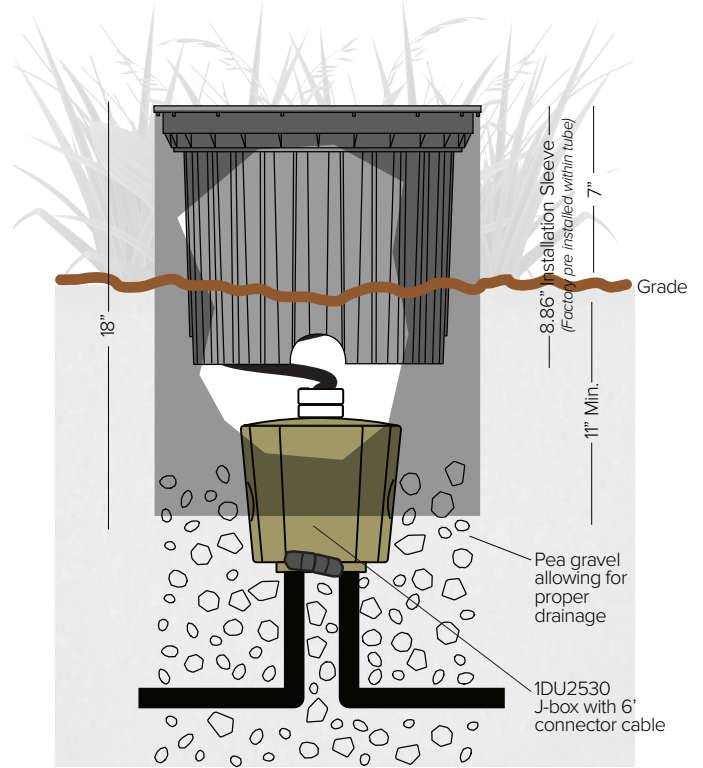
RAISED TUBE INSTALLATION ASSEMBLY

Recommended for Softscape Landscape Raised Installation
1DU4343



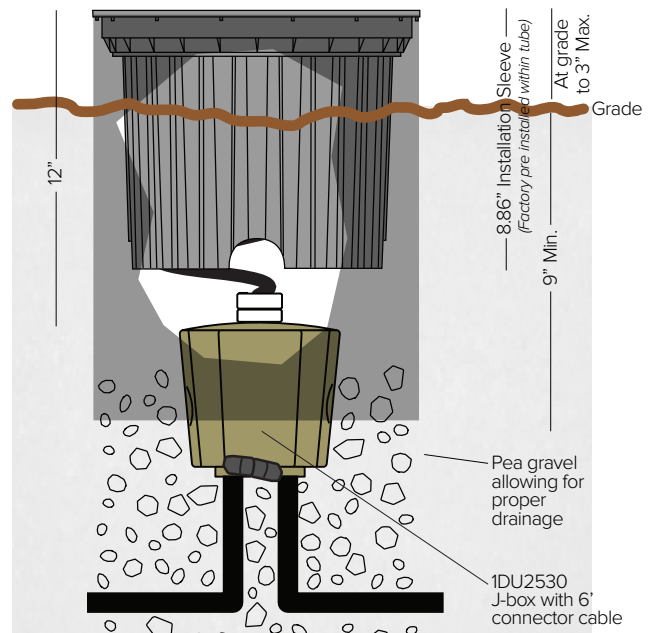
RAISED TUBE INSTALLATION ASSEMBLY

Recommended for Softscape Ground Level Installation
1DU434318



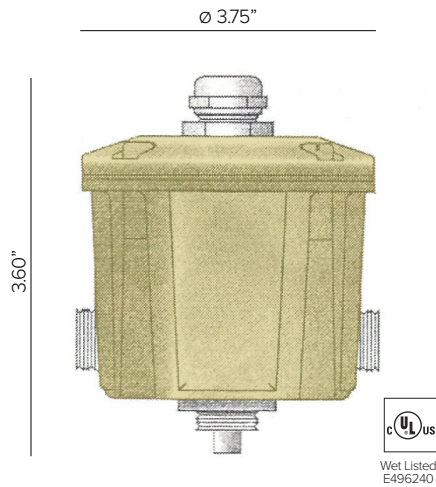
RAISED TUBE INSTALLATION ASSEMBLY

Recommended for Softscape Turf Installation
1DU434312



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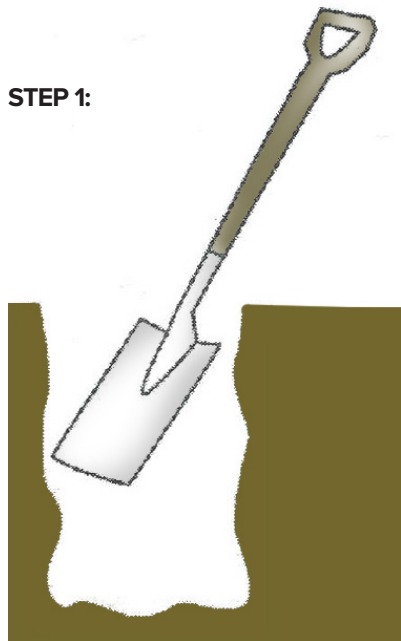
INSTALLATION DIAGRAM - 1DU2530 J-Box



Brass junction box is supplied with the following components:

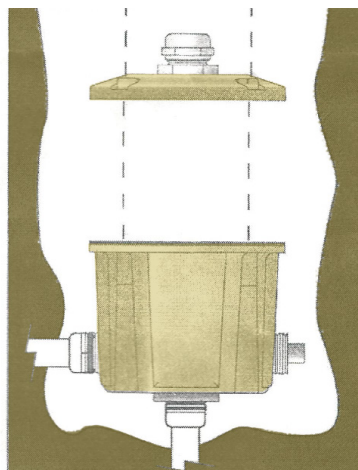
- (4) $\frac{3}{4}"$ side/bottom NPT holes
- (4) $\frac{1}{2}"$ reduction NPT adapters
- (2) $\frac{1}{2}"$ cap plugs

NOTE: Box fill size = 15.94 IN³



Dig a hole large enough to accommodate the junction box.

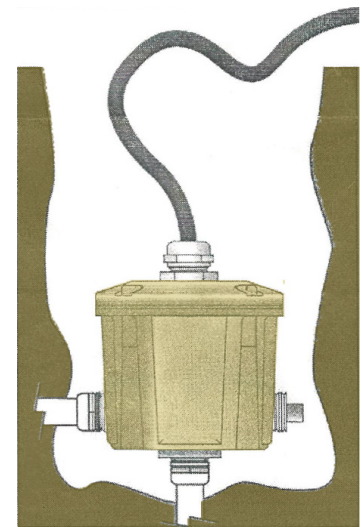
STEP 2:



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.

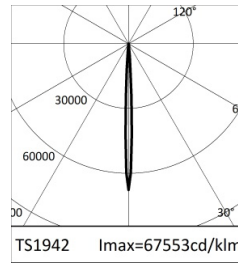
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PHOTOMETRY

NARROW SPOT



2700K		H(m)	D(m)	E _{max} (lx)		
Ra80			5°			
Fixture Power	16W	1	0.09	109976		
Source Flux	1628lm	2	0.17	27494		
Fixture Flux	1321lm	3	0.26	12220		
Efficacy	82lm/W	4	0.34	6874		
TS1942	I _{max} =67553cd/klm	I _{max}	109976cd	5	0.43	4399



3000K		H(m)	D(m)	E _{max} (lx)		
Ra80			5°			
Fixture Power	16W	1	0.09	117137		
Source Flux	1734lm	2	0.17	29284		
Fixture Flux	1407lm	3	0.26	13015		
Efficacy	87lm/W	4	0.34	7321		
TS1942	I _{max} =67553cd/klm	I _{max}	117137cd	5	0.43	4685

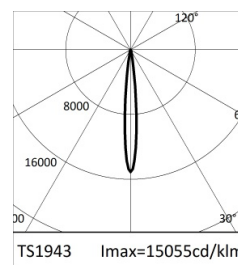


4000K		H(m)	D(m)	E _{max} (lx)		
Ra80			5°			
Fixture Power	16W	1	0.09	126121		
Source Flux	1867lm	2	0.17	31530		
Fixture Flux	1515lm	3	0.26	14013		
Efficacy	94lm/W	4	0.34	7883		
TS1942	I _{max} =67553cd/klm	I _{max}	126121cd	5	0.43	5045

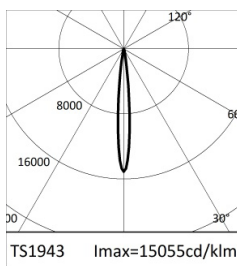
SPOT



2700K		H(m)	D(m)	E _{max} (lx)		
Ra80			11°			
Fixture Power	39W	1	0.19	63681		
Source Flux	4230lm	2	0.37	15920		
Fixture Flux	3284lm	3	0.56	7076		
Efficacy	84lm/W	4	0.74	3980		
TS1943	I _{max} =15055cd/klm	I _{max}	63681cd	5	0.93	2547

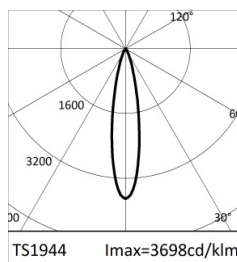


3000K		H(m)	D(m)	E _{max} (lx)		
Ra80			11°			
Fixture Power	39W	1	0.19	68228		
Source Flux	4532lm	2	0.37	17057		
Fixture Flux	3518lm	3	0.56	7581		
Efficacy	90lm/W	4	0.74	4264		
TS1943	I _{max} =15055cd/klm	I _{max}	68228cd	5	0.93	2729

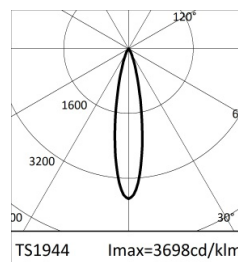


4000K		H(m)	D(m)	E _{max} (lx)		
Ra80			11°			
Fixture Power	39W	1	0.19	72774		
Source Flux	4834lm	2	0.37	18194		
Fixture Flux	3753lm	3	0.56	8086		
Efficacy	96lm/W	4	0.74	4548		
TS1943	I _{max} =15055cd/klm	I _{max}	72774cd	5	0.93	2911

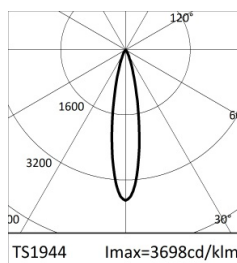
FLOOD



2700K		H(m)	D(m)	E _{max} (lx)		
Ra80			21°			
Fixture Power	39W	1	0.36	15641		
Source Flux	4230lm	2	0.73	3910		
Fixture Flux	3018lm	3	1.09	1738		
Efficacy	77lm/W	4	1.46	978		
TS1944	I _{max} =3698cd/klm	I _{max}	15641cd	5	1.82	626



3000K		H(m)	D(m)	E _{max} (lx)		
Ra80			21°			
Fixture Power	39W	1	0.36	16758		
Source Flux	4532lm	2	0.73	4189		
Fixture Flux	3233lm	3	1.09	1862		
Efficacy	83lm/W	4	1.46	1047		
TS1944	I _{max} =3698cd/klm	I _{max}	16758cd	5	1.82	670

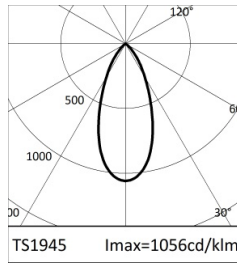


4000K		H(m)	D(m)	E _{max} (lx)		
Ra80			21°			
Fixture Power	39W	1	0.36	17874		
Source Flux	4834lm	2	0.73	4469		
Fixture Flux	3449lm	3	1.09	1986		
Efficacy	89lm/W	4	1.46	1117		
TS1944	I _{max} =3698cd/klm	I _{max}	17874cd	5	1.82	715

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PHOTOMETRY

MEDIUM WIDE FLOOD



2700K		H(m)	D(m)	Emax(lx)
Ra80			44°	
Fixture Power	39W	1	0.81	4468
Source Flux	4230lm	2	1.62	1117
Fixture Flux	2985lm	3	2.43	496
Efficacy	77lm/W	4	3.24	279
TS1945	Imax=1056cd/klm	Imax	4468cd	5
			4.05	179



3000K		H(m)	D(m)	Emax(lx)
Ra80			44°	
Fixture Power	39W	1	0.81	4788
Source Flux	4532lm	2	1.62	1197
Fixture Flux	3198lm	3	2.43	532
Efficacy	82lm/W	4	3.24	299
TS1945	Imax=1056cd/klm	Imax	4788cd	5
			4.05	192



4000K		H(m)	D(m)	Emax(lx)
Ra80			44°	
Fixture Power	39W	1	0.81	5107
Source Flux	4834lm	2	1.62	1277
Fixture Flux	3411lm	3	2.43	567
Efficacy	88lm/W	4	3.24	319
TS1945	Imax=1056cd/klm	Imax	5107cd	5
			4.05	204