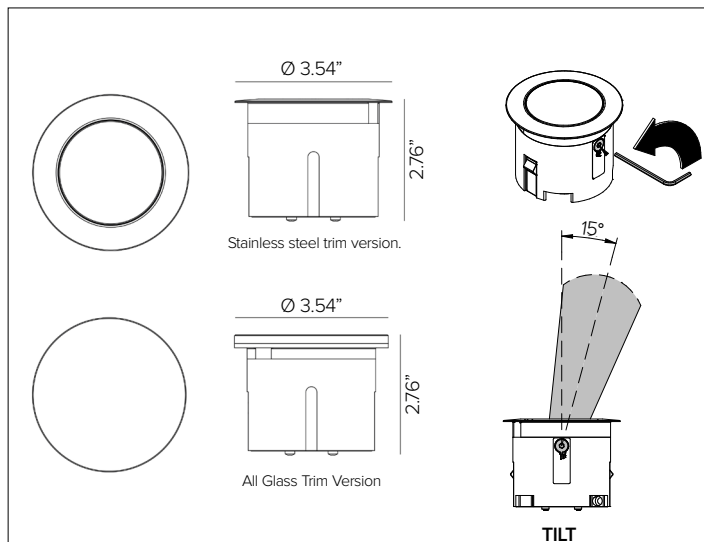


KEPLERO QUANTUM ADJUSTABLE 90 (3")

Professional Recessed Inground LED Luminaire



CONCEPT

A compact fully sealed corrosion-resistant inground LED luminaire designed for high-performance precision optics outdoor architectural lighting.

MECHANICAL CHARACTERISTICS

Housing	2.76"H x 3.54"Dia.
Materials	Marine-grade anodized cataphoresis ^A die-cast aluminum heat sink body with stainless steel ingrade connection box and PVC installation sleeve. AISI 316L stainless steel flat trim ring with extra-clear glass lens or all-glass version, optional anti-slip.
Finish	● Brushed Natural ● Bronze PVD* ● Black PVD* *Physical Vapor Deposition.
Power Connection	Pre-cabled with 2ft direct burial 18-2ga with water proof ingrade three conductor for connection to remote power supply.
Functionality	Factory-sealed luminaire with external side-mounted tilt, enabling precise aiming without opening the fixture and preserving housing integrity. Vertical adjustment up to 15°.
Mounting	Installation sleeve for flush or surface mounting.
Protection	IP68 ^B
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.

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.

ELECTRICAL CHARACTERISTICS

Power Supply	Remote Class 2 120V-277V AC power supply required.
Wattage	5W (NSP) ONLY / 10W (SP / FL) ONLY
Voltage	24V DC
Ambient Temp.	-25°C / +35°C (95°F)

SOURCE

High efficiency LED Chip on Board.

TM30	CCT (Nominal)	CRI	R _f	R _g	SDCM
	2200K	90	91	101	2
	2700K	80	80	97	2
	3000K	80	84	97	2
	3500K	80	82	96	2
	4000K	80	81	96	2

Ra90 available upon request

OPTIC

Comprised of optical grade PMMA lens and holographic diffusing filter.

Beam	NS 9°	SP 15°	FL 24°
Delivered Lumens			
2200K	299Lm	793Lm	713Lm
2700K	359Lm	1,046Lm	940Lm
3000K	367Lm	1,109Lm	996Lm
4000K	392Lm	1,151Lm	1,034Lm

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

Efficacy 112Lm /W max. Refer to photometric graphs for specific values.

Photobiological Classification Low risk safety RG1

KEPLERO QUANTUM ADJUSTABLE 90 (3")

SPECIFICATION INFORMATION

QUA	3								
1	2	3	4	5	6	7	8	9	10

Ex: QUA3VBZSPL227 / 1USA125BZ / DMLE301242UD

OPTIONAL

REQUIRED

1 - PRODUCT CODE	2 - SIZE	3 - REMOTE DRIVER	4 - TRIM	5 - OPTICS	6 - WATTAGE	7 - KELVIN	8 - ACCESSORIES
QUA — KEPLERO QUANTUM ADJUSTABLE	3 — 3" Dia.	V — 24V DC	BS — Brushed Natural BZ — Bronze BK — Black GL — All Glass SA — Brushed Natural Anti-Slip ZA — Bronze Anti-Slip KA — Black Anti-Slip GA — All Glass Anti-Slip	NS — NSP 9° SP — SP 15° FL — FL 24°	L1 ^c — 5W L2 ^d — 10W	22 — 2200K 27 — 2700K 30 — 3000K 35 — 3500K 40 — 4000K	LV — Integral Honeycomb Louver

9 - INSTALLATION	10 - POWER SUPPLY
Installation Sleeve See section for details	Power Supply See section for details

^c 5W version available with NSP optic only.

^d 10W versions available with SP / FL optics only.

TRIM VERSIONS

BRUSHED NATURAL WITH ANTI-SLIP GLASS



BRONZE PVD WITH ANTI-SLIP GLASS



BLACK PVD WITH ANTI-SLIP GLASS



ALL GLASS WITH ANTI-SLIP GLASS



OPTIC VERSIONS

SP / FL / WF OPTICS



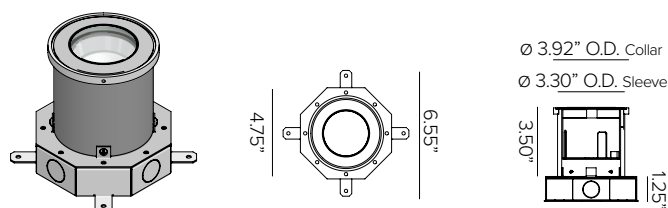
OPTICAL ACCESSORIES

INTEGRAL HONEYCOMB LOUVER



KEPLERO QUANTUM ADJUSTABLE 90 (3")

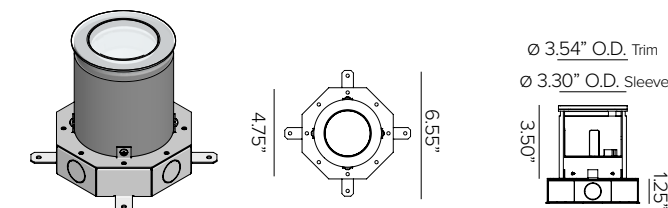
7 - INSTALLATION (REQUIRED)



Installation sleeve designed for flush mounting of trimmed fixture versions only. Stainless steel ingrade connection box with PVC installation sleeve and 316 stainless steel collar. Complete with a cover to protect the recessed housing during concrete pouring.

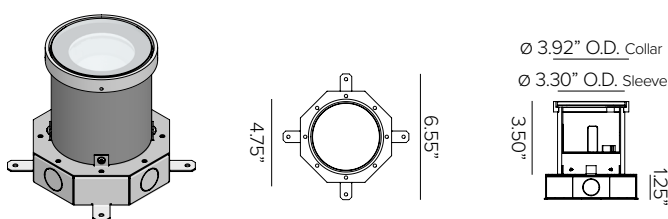
Finish ● Brushed Natural ● Bronze ● Black

Part No. **1USA125BS** **1USA125BZ** **1USA125BK**



Installation sleeve designed for surface mounting of trimmed fixture versions only. Stainless steel ingrade connection box with PVC installation sleeve. Complete with a cover to protect the recessed housing during concrete pouring.

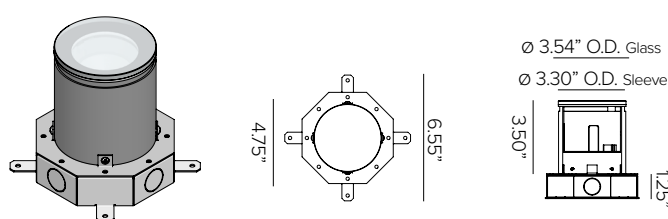
Part No. **1USA124**



Installation sleeve designed for flush mounting of All Glass fixture versions only. Stainless steel ingrade connection box with PVC installation sleeve and 316 stainless steel collar. Complete with a cover to protect the recessed housing during concrete pouring.

Finish ● Black

Part No. **1USA126BK**



Installation sleeve designed for surface mounting of All Glass fixture versions only. Stainless steel ingrade connection box with PVC installation sleeve. Complete with a cover to protect the recessed housing during concrete pouring.

Part No. **1USA126**

10 - POWER SUPPLY (REQUIRED)

Part No.	Wattage	Control	Dim Range	Rating	In / Out Voltage	Certification	Dimensions (Enclosure)	Description
DMLE301242UD	30W	MLV / ELV / 0-10V / TRIAC	15%	NEMA3R	120-277V / 24V	UL Class 2	4.47" X 6.79" X 1.38"	EMCOD MLE-UD electronic driver with wiring compartment.
DMLE601242UD	60W	MLV / ELV / 0-10V / TRIAC	15%	NEMA3R	120-277V / 24V	UL Class 2	4.47" X 6.79" X 1.38"	EMCOD MLE-UD electronic driver with wiring compartment.
DMLE961242UD	96W	MLV / ELV / 0-10V / TRIAC	15%	NEMA3R	120-277V / 24V	UL Class 2	5.16" X 7.73" X 1.54"	EMCOD MLE-UD electronic driver with wiring compartment.
DMLE1922242UD	2X96W	MLV / ELV / 0-10V / TRIAC	15%	NEMA3R	120-277V / 24V	UL Class 2	5.04" X 10.94" X 1.81"	EMCOD MLE-UD electronic driver with wiring compartment.
DMLE2882242UD	3X96W	MLV / ELV / 0-10V / TRIAC	15%	NEMA3R	120-277V / 24V	UL Class 2	5.04" X 10.94" X 1.81"	EMCOD MLE-UD electronic driver with wiring compartment.

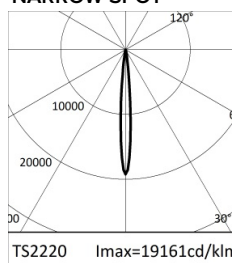
MAX FIXTURES PER DRIVER

Fixture Wattage	Driver Wattage					
	30W	60W	96W	2 x 96W	3 x 96W	
	5W	4	10	16	16 + 16	16 + 16 + 16
	10W	2	5	8	8 + 8	8 + 8 + 8

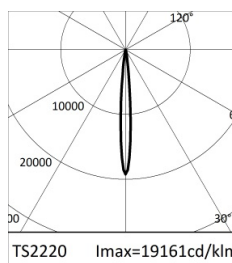
KEPLERO QUANTUM ADJUSTABLE 90 (3")

PHOTOMETRY

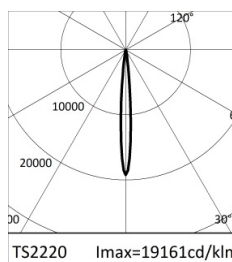
NARROW SPOT



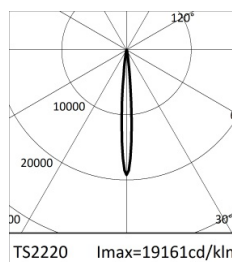
2200K	H(m)	D(m)	Emax(lx)
Ra90		9°	
Fixture Power 5W	1	0.16	7990
Source Flux 417lm	2	0.32	1998
Fixture Flux 299lm	3	0.47	888
Efficacy 60lm/W	4	0.63	499
TS2220 Imax=19161cd/klm	Imax	7990cd	5 0.79 320



2700K	H(m)	D(m)	Emax(lx)
Ra80		9°	
Fixture Power 5W	1	0.16	9600
Source Flux 501lm	2	0.32	2400
Fixture Flux 359lm	3	0.47	1067
Efficacy 72lm/W	4	0.63	600
TS2220 Imax=19161cd/klm	Imax	9600cd	5 0.79 384

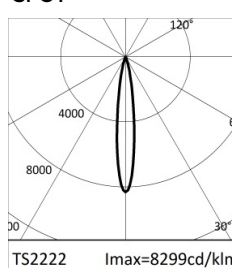


3000K	H(m)	D(m)	Emax(lx)
Ra80		9°	
Fixture Power 5W	1	0.16	9811
Source Flux 512lm	2	0.32	2453
Fixture Flux 367lm	3	0.47	1090
Efficacy 73lm/W	4	0.63	613
TS2220 Imax=19161cd/klm	Imax	9811cd	5 0.79 392

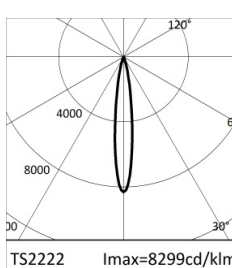


4000K	H(m)	D(m)	Emax(lx)
Ra80		9°	
Fixture Power 5W	1	0.16	10462
Source Flux 546lm	2	0.32	2616
Fixture Flux 392lm	3	0.47	1162
Efficacy 78lm/W	4	0.63	654
TS2220 Imax=19161cd/klm	Imax	10462cd	5 0.79 418

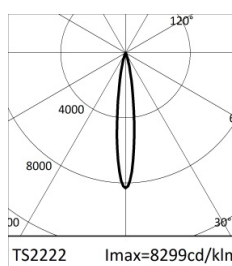
SPOT



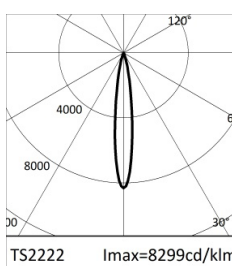
2200K	H(m)	D(m)	Emax(lx)
Ra90		15°	
Fixture Power 10W	1	0.26	8067
Source Flux 972lm	2	0.51	2017
Fixture Flux 793lm	3	0.77	896
Efficacy 77lm/W	4	1.02	504
TS2222 Imax=8299cd/klm	Imax	8067cd	5 1.28 323



2700K	H(m)	D(m)	Emax(lx)
Ra80		15°	
Fixture Power 10W	1	0.26	10640
Source Flux 1282lm	2	0.51	2660
Fixture Flux 1046lm	3	0.77	1182
Efficacy 102lm/W	4	1.02	665
TS2222 Imax=8299cd/klm	Imax	10640cd	5 1.28 426

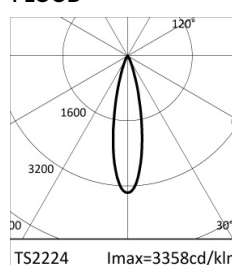


3000K	H(m)	D(m)	Emax(lx)
Ra80		15°	
Fixture Power 10W	1	0.26	11279
Source Flux 1359lm	2	0.51	2820
Fixture Flux 1109lm	3	0.77	1253
Efficacy 108lm/W	4	1.02	705
TS2222 Imax=8299cd/klm	Imax	11279cd	5 1.28 451

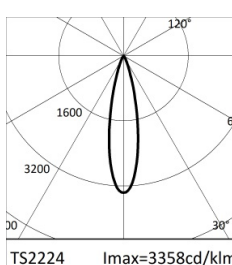


4000K	H(m)	D(m)	Emax(lx)
Ra80		15°	
Fixture Power 10W	1	0.26	11710
Source Flux 1411lm	2	0.51	2928
Fixture Flux 1151lm	3	0.77	1301
Efficacy 112lm/W	4	1.02	732
TS2222 Imax=8299cd/klm	Imax	11710cd	5 1.28 468

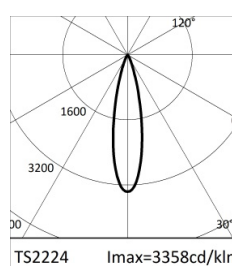
FLOOD



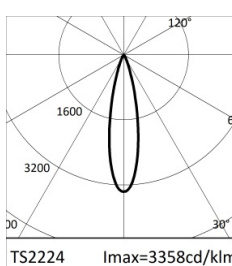
2200K	H(m)	D(m)	Emax(lx)
Ra90		24°	
Fixture Power 10W	1	0.42	3264
Source Flux 972lm	2	0.84	816
Fixture Flux 713lm	3	1.26	363
Efficacy 69lm/W	4	1.68	204
TS2224 Imax=3358cd/klm	Imax	3264cd	5 2.10 131



2700K	H(m)	D(m)	Emax(lx)
Ra80		24°	
Fixture Power 10W	1	0.42	4305
Source Flux 1282lm	2	0.84	1076
Fixture Flux 940lm	3	1.26	478
Efficacy 91lm/W	4	1.68	269
TS2224 Imax=3358cd/klm	Imax	4305cd	5 2.10 172



3000K	H(m)	D(m)	Emax(lx)
Ra80		24°	
Fixture Power 10W	1	0.42	4564
Source Flux 1359lm	2	0.84	1141
Fixture Flux 996lm	3	1.26	507
Efficacy 97lm/W	4	1.68	285
TS2224 Imax=3358cd/klm	Imax	4564cd	5 2.10 183

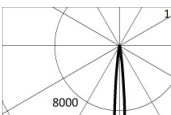


4000K	H(m)	D(m)	Emax(lx)
Ra80		24°	
Fixture Power 10W	1	0.42	4738
Source Flux 1411lm	2	0.84	1185
Fixture Flux 1034lm	3	1.26	526
Efficacy 100lm/W	4	1.68	296
TS2224 Imax=3358cd/klm	Imax	4738cd	5 2.10 190

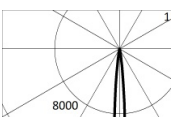
KEPLERO QUANTUM ADJUSTABLE 90 (3")

PHOTOMETRY

HONEYCOMB LOUVER NARROW SPOT

	2200K	H(m)	D(m)	Emax(lx)	
	Ra90		9°		
	Fixture Power	5W	1	0.15	7102
	Source Flux	417lm	2	0.30	1775
	Fixture Flux	236lm	3	0.45	789
	Efficacy	47lm/W	4	0.60	444
	TS2221 I _{max} =17030cd/klm	I _{max}	7102cd	5	0.76

	2700K	H(m)	D(m)	Emax(lx)	
	Ra80		9°		
	Fixture Power	5W	1	0.15	8532
	Source Flux	501lm	2	0.30	2133
	Fixture Flux	283lm	3	0.45	948
	Efficacy	57lm/W	4	0.60	533
	TS2221 I _{max} =17030cd/klm	I _{max}	8532cd	5	0.76

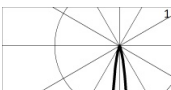
	3000K	H(m)	D(m)	Emax(lx)	
	Ra80		9°		
	Fixture Power	5W	1	0.15	8720
	Source Flux	512lm	2	0.30	2180
	Fixture Flux	289lm	3	0.45	969
	Efficacy	58lm/W	4	0.60	545
	TS2221 I _{max} =17030cd/klm	I _{max}	8720cd	5	0.76

	4000K	H(m)	D(m)	Emax(lx)	
	Ra80		9°		
	Fixture Power	5W	1	0.15	9299
	Source Flux	546lm	2	0.30	2325
	Fixture Flux	308lm	3	0.45	1033
	Efficacy	62lm/W	4	0.60	581
	TS2221 I _{max} =17030cd/klm	I _{max}	9299cd	5	0.76

HONEYCOMB LOUVER SPOT

	2200K	H(m)	D(m)	Emax(lx)	
	Ra90		13°		
	Fixture Power	10W	1	0.22	7485
	Source Flux	972lm	2	0.45	1871
	Fixture Flux	573lm	3	0.67	832
	Efficacy	56lm/W	4	0.90	468
	TS2223 I _{max} =7700cd/klm	I _{max}	7485cd	5	1.12

	2700K	H(m)	D(m)	Emax(lx)	
	Ra80		13°		
	Fixture Power	10W	1	0.22	9872
	Source Flux	1282lm	2	0.45	2468
	Fixture Flux	756lm	3	0.67	1097
	Efficacy	73lm/W	4	0.90	617
	TS2223 I _{max} =7700cd/klm	I _{max}	9872cd	5	1.12

	3000K	H(m)	D(m)	Emax(lx)	
	Ra80		13°		
	Fixture Power	10W	1	0.22	10465
	Source Flux	1359lm	2	0.45	2616
	Fixture Flux	801lm	3	0.67	1163
	Efficacy	78lm/W	4	0.90	654
	TS2223 I _{max} =7700cd/klm	I _{max}	10465cd	5	1.12

	4000K	H(m)	D(m)	Emax(lx)	
	Ra80		13°		
	Fixture Power	10W	1	0.22	10865
	Source Flux	1411lm	2	0.45	2716
	Fixture Flux	832lm	3	0.67	1207
	Efficacy	81lm/W	4	0.90	679
	TS2223 I _{max} =7700cd/klm	I _{max}	10865cd	5	1.12

HONEYCOMB LOUVER FLOOD

	2200K	H(m)	D(m)	Emax(lx)	
	Ra90		28°		
	Fixture Power	10W	1	0.50	1593
	Source Flux	972lm	2	1.00	398
	Fixture Flux	424lm	3	1.50	177
	Efficacy	41lm/W	4	2.00	100
	TS2226 Imax=1639cd/klm	Imax	1593cd	5	2.49

	2700K	H(m)	D(m)	Emax(lx)	
	Ra80		28°		
	Fixture Power	10W	1	0.50	2101
	Source Flux	1282lm	2	1.00	525
	Fixture Flux	559lm	3	1.50	233
	Efficacy	54lm/W	4	2.00	131
	TS2226 Imax=1639cd/klm	Imax	2101cd	5	2.49

	3000K	H(m)	D(m)	Emax(lx)	
	Ra80		28°		
	Fixture Power	10W	1	0.50	2227
	Source Flux	1359lm	2	1.00	557
	Fixture Flux	593lm	3	1.50	247
	Efficacy	58lm/W	4	2.00	139
	TS2226 I _{max} =1639cd/klm	I _{max}	2227cd	5	2.49

	4000K	H(m)	D(m)	Emax(lx)	
	Ra80		28°		
	Fixture Power	10W	1	0.50	2312
	Source Flux	1411lm	2	1.00	578
	Fixture Flux	615lm	3	1.50	257
	Efficacy	60lm/W	4	2.00	144
	TS2226 I _{max} =1639cd/klm	I _{max}	2312cd	5	2.49