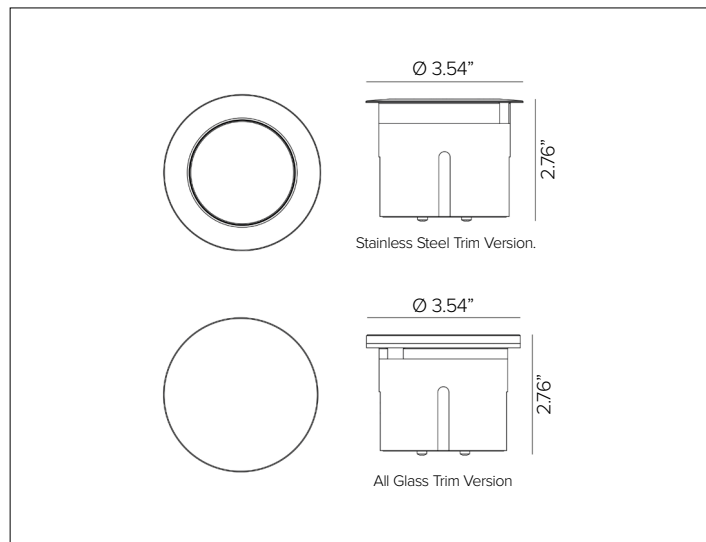
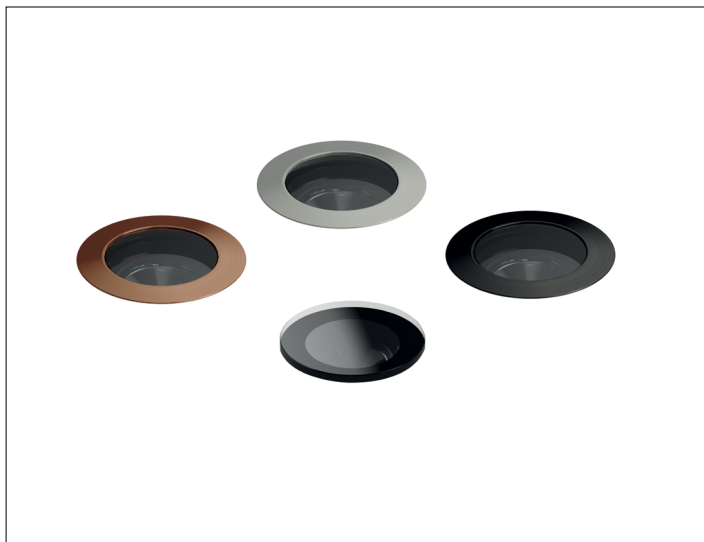


KEPLERO QUANTUM FIXED 90 (3")

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 precise fixed optics.
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 (Stainless Steel trim version only). All Glass trim walk over only.

CERTIFICATIONS

cULus Class 2 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	10W (SP / FL / WFL / WW) ONLY / 2W OP 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	97	2

Ra90 available upon request

OPTIC

Optical system is dependent on beam angle. NSP / SP / FL versions comprised of optical grade PMMA lens and holographic diffusing filter. WW version comprised of optical grade PMMA lens, holographic diffusing filter and half-moon black shutter. OP version comprised of internal optical system made of a MC-PET high reflectance white reflector and double holographic diffusive filter.

Beam		SP 15°	FL 24°	WF 57°	WW	OP
Delivered Lumens	2200K	793Lm	713Lm	697Lm	549Lm	162Lm
	2700K	1,046Lm	940Lm	919Lm	724Lm	183Lm
	3000K	1,109Lm	996Lm	974Lm	765Lm	187Lm
	4000K	1,151Lm	1,034Lm	1,011Lm	796Lm	197Lm

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 FIXED 90 (3")

SPECIFICATION INFORMATION

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

Ex: QUF3VBZSPL127 / 1USA125BZ / DMLE301242UD

OPTIONAL

REQUIRED

1 - PRODUCT CODE	2 - SIZE	3 - REMOTE DRIVER	4 - TRIM	5 - OPTICS	6 - WATTAGE	7 - KELVIN	8 - ACCESSORIES
QUF — KEPLERO QUANTUM FIXED	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	SP — SP 15° FL — FL 24° WF ^{C,D} — WFL 57° WW ^{C,D} — WW 24°x110° OP ^{C,D} — Opal Direct View	L1 ^E — 10W L2 ^F — 2W	22 — 2200K 27 — 2700K 30 — 3000K 35 — 3500K 40 — 4000K	LV ^C — Integral Honeycomb Louver SP ^D — Linear Spread Lens
9 - INSTALLATION	10 - POWER SUPPLY						
Installation Sleeve See section for details	Power Supply See section for details						

^C Integral honeycomb louver *not* compatible with WF / WW / OP optics.

^D Linear spread lens *not* compatible with WF / WW / OP optics. Designed to achieve an oval optical effect.

^E 10W versions available with SP / FL / WF / WW optics only.

^F 2W version available with OP optic 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



WALL WASH OPTIC



OP DIRECT VIEW



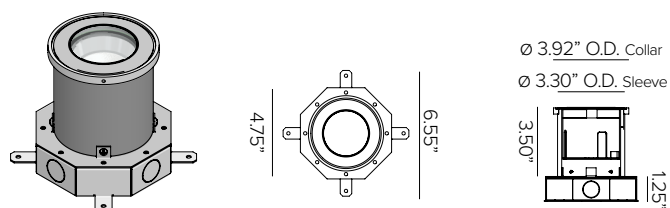
OPTICAL ACCESSORIES

INTEGRAL HONEYCOMB LOUVER



KEPLERO QUANTUM FIXED 90 (3")

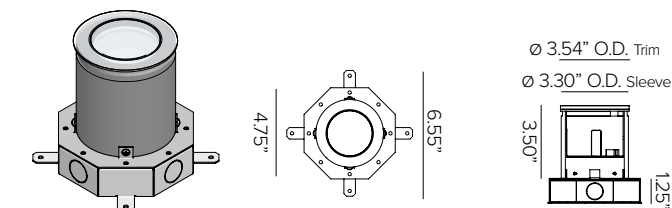
7 - INSTALLATION (REQUIRED)



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.

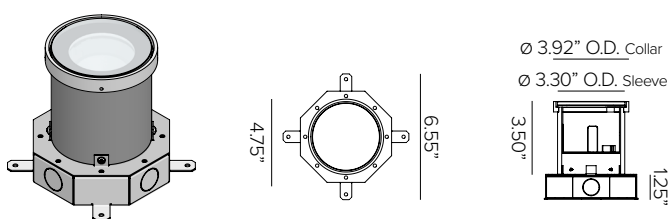
Finish ● Brushed Natural ● Bronze ● Black

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.

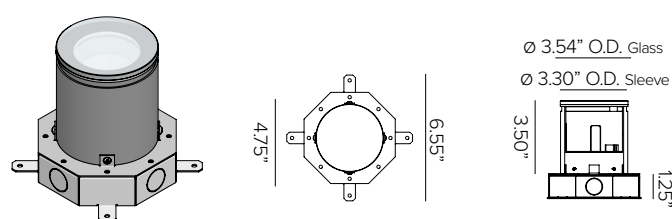
Part No. **1USA124**



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.

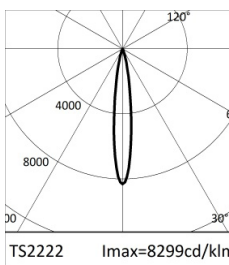
MAX FIXTURES PER DRIVER

Fixture Wattage	Driver Wattage				
	30W	60W	96W	2 x 96W	3 x 96W
	2W	12	22	38	38 + 38
10W	2	5	8	8 + 8	8 + 8 + 8

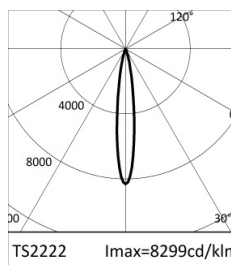
KEPLERO QUANTUM FIXED 90 (3")

PHOTOMETRY

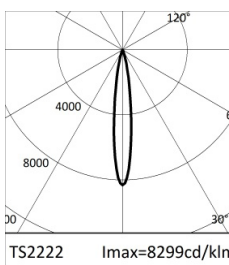
SPOT



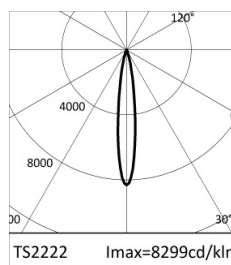
2200K	H(m)	D(m)	Emax(lx)
Ra90		15°	
Fixture Power	10W	1	0.26 8067
Source Flux	972lm	2	0.51 2017
Fixture Flux	793lm	3	0.77 896
Efficacy	77lm/W	4	1.02 504
TS2222 Imax=8299cd/klm	Imax	8067cd	5 1.28 323



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

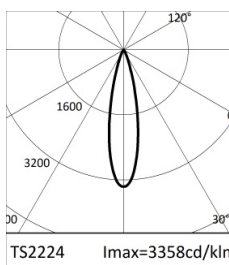


3000K	H(m)	D(m)	Emax(lx)
Ra80		15°	
Fixture Power	10W	1	0.26 11279
Source Flux	1359lm	2	0.51 2820
Fixture Flux	1109lm	3	0.77 1253
Efficacy	108lm/W	4	1.02 705
TS2222 Imax=8299cd/klm	Imax	11279cd	5 1.28 451

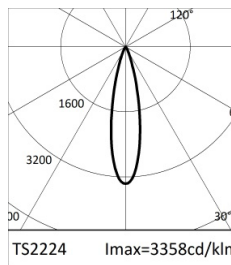


4000K	H(m)	D(m)	Emax(lx)
Ra80		15°	
Fixture Power	10W	1	0.26 11710
Source Flux	1411lm	2	0.51 2928
Fixture Flux	1151lm	3	0.77 1301
Efficacy	112lm/W	4	1.02 732
TS2222 Imax=8299cd/klm	Imax	11710cd	5 1.28 468

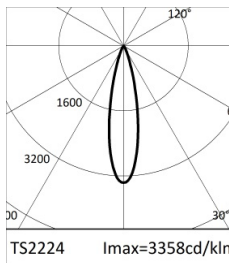
FLOOD



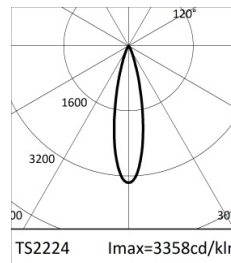
2200K	H(m)	D(m)	Emax(lx)
Ra90		24°	
Fixture Power	10W	1	0.42 3264
Source Flux	972lm	2	0.84 816
Fixture Flux	713lm	3	1.26 363
Efficacy	69lm/W	4	1.68 204
TS2224 Imax=3358cd/klm	Imax	3264cd	5 2.10 131



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

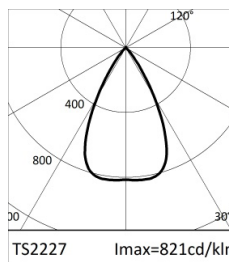


3000K	H(m)	D(m)	Emax(lx)
Ra80		24°	
Fixture Power	10W	1	0.42 4564
Source Flux	1359lm	2	0.84 1141
Fixture Flux	996lm	3	1.26 507
Efficacy	97lm/W	4	1.68 285
TS2224 Imax=3358cd/klm	Imax	4564cd	5 2.10 183

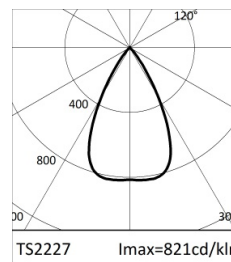


4000K	H(m)	D(m)	Emax(lx)
Ra80		24°	
Fixture Power	10W	1	0.42 4738
Source Flux	1411lm	2	0.84 1185
Fixture Flux	1034lm	3	1.26 526
Efficacy	100lm/W	4	1.68 296
TS2224 Imax=3358cd/klm	Imax	4738cd	5 2.10 190

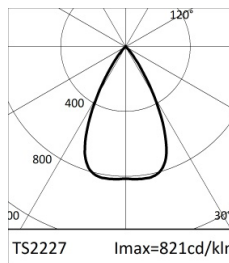
WIDE FLOOD



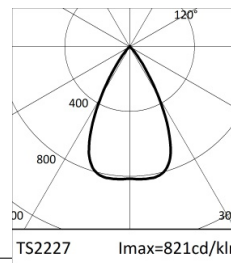
2200K	H(m)	D(m)	Emax(lx)
Ra90		57°	
Fixture Power	10W	1	1.09 791
Source Flux	972lm	2	2.18 198
Fixture Flux	697lm	3	3.27 88
Efficacy	68lm/W	4	4.36 49
TS2227 Imax=821cd/klm	Imax	798cd	5 5.45 32



2700K	H(m)	D(m)	Emax(lx)
Ra80		57°	
Fixture Power	10W	1	1.09 1043
Source Flux	1282lm	2	2.18 261
Fixture Flux	919lm	3	3.27 116
Efficacy	89lm/W	4	4.36 65
TS2227 Imax=821cd/klm	Imax	1052cd	5 5.45 42



3000K	H(m)	D(m)	Emax(lx)
Ra80		57°	
Fixture Power	10W	1	1.09 1106
Source Flux	1359lm	2	2.18 277
Fixture Flux	974lm	3	3.27 123
Efficacy	95lm/W	4	4.36 69
TS2227 Imax=821cd/klm	Imax	1115cd	5 5.45 44

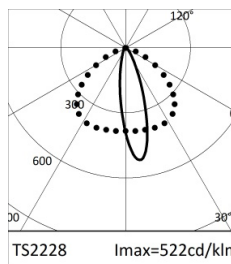


4000K	H(m)	D(m)	Emax(lx)
Ra80		57°	
Fixture Power	10W	1	1.09 1148
Source Flux	1411lm	2	2.18 287
Fixture Flux	1011lm	3	3.27 128
Efficacy	98lm/W	4	4.36 72
TS2227 Imax=821cd/klm	Imax	1158cd	5 5.45 46

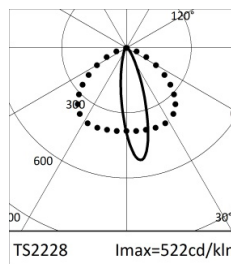
KEPLERO QUANTUM FIXED 90 (3")

PHOTOMETRY

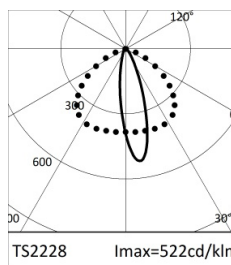
WALL WASHER



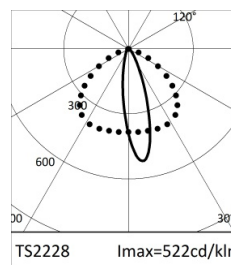
2200K	H(m)	D1(m)	D2(m)	E _{max} (lx)
Ra90		24°	110°	
Fixture Power	10W	1	0.44	2.87 549
Source Flux	1080lm	2	0.87	5.74 137
Fixture Flux	549lm	3	1.31	8.61 61
Efficacy	56lm/W	4	1.74	11.48 34
TS2228	I _{max} =522cd/klm	I _{max}	564cd	5 2.18 14.35 22



2700K	H(m)	D1(m)	D2(m)	E _{max} (lx)
Ra80		24°	110°	
Fixture Power	10W	1	0.44	2.87 725
Source Flux	1424lm	2	0.87	5.74 181
Fixture Flux	724lm	3	1.31	8.61 81
Efficacy	74lm/W	4	1.74	11.48 45
TS2228	I _{max} =522cd/klm	I _{max}	743cd	5 2.18 14.35 29

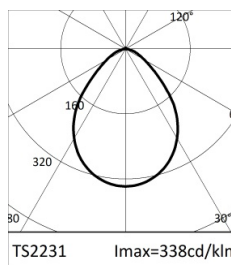


3000K	H(m)	D1(m)	D2(m)	E _{max} (lx)
Ra80		24°	110°	
Fixture Power	10W	1	0.44	2.87 766
Source Flux	1506lm	2	0.87	5.74 192
Fixture Flux	765lm	3	1.31	8.61 85
Efficacy	78lm/W	4	1.74	11.48 48
TS2228	I _{max} =522cd/klm	I _{max}	786cd	5 2.18 14.35 31

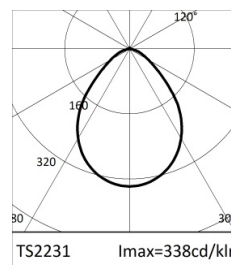


4000K	H(m)	D1(m)	D2(m)	E _{max} (lx)
Ra80		24°	110°	
Fixture Power	10W	1	0.44	2.87 797
Source Flux	1566lm	2	0.87	5.74 199
Fixture Flux	796lm	3	1.31	8.61 89
Efficacy	81lm/W	4	1.74	11.48 50
TS2228	I _{max} =522cd/klm	I _{max}	817cd	5 2.18 14.35 32

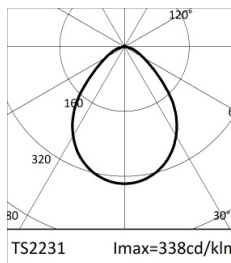
OPAL



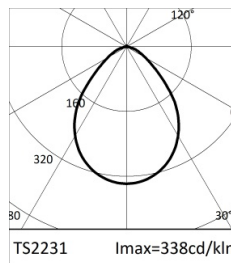
2200K	H(m)	D(m)	E _{max} (lx)
Ra80		85°	
Fixture Power	2W	1	1.82 85
Source Flux	253lm	2	3.65 21
Fixture Flux	162lm	3	5.47 9
Efficacy	71lm/W	4	7.29 5
TS2231	I _{max} =338cd/klm	I _{max}	85cd



2700K	H(m)	D(m)	E _{max} (lx)
Ra80		85°	
Fixture Power	2W	1	1.82 96
Source Flux	285lm	2	3.65 24
Fixture Flux	183lm	3	5.47 11
Efficacy	80lm/W	4	7.29 6
TS2231	I _{max} =338cd/klm	I _{max}	96cd



3000K	H(m)	D(m)	E _{max} (lx)
Ra80		85°	
Fixture Power	2W	1	1.82 98
Source Flux	291lm	2	3.65 25
Fixture Flux	187lm	3	5.47 11
Efficacy	81lm/W	4	7.29 6
TS2231	I _{max} =338cd/klm	I _{max}	98cd

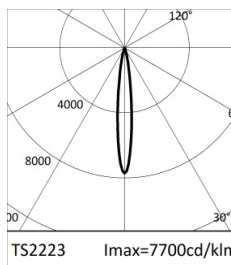


4000K	H(m)	D(m)	E _{max} (lx)
Ra80		85°	
Fixture Power	2W	1	1.82 104
Source Flux	307lm	2	3.65 26
Fixture Flux	197lm	3	5.47 12
Efficacy	86lm/W	4	7.29 6
TS2231	I _{max} =338cd/klm	I _{max}	104cd

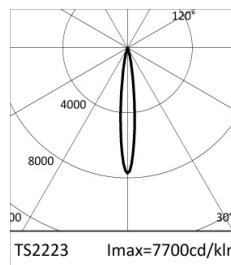
KEPLERO QUANTUM FIXED 90 (3")

PHOTOMETRY

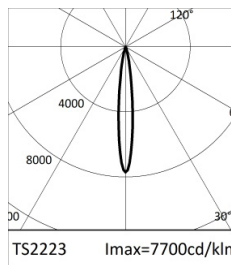
SPOT WITH HONEYCOMB LOUVER



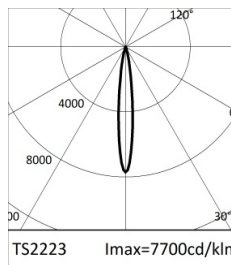
2200K	H(m)	D(m)	Emax(lx)
Ra90		13°	
Fixture Power 10W	1	0.22	7485
Source Flux 972lm	2	0.45	1871
Fixture Flux 573lm	3	0.67	832
Efficacy 56lm/W	4	0.90	468
TS2223 I _{max} =7700cd/klm	I _{max}	7485cd	5 1.12 299



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 1.12 395

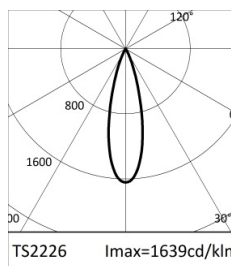


3000K	H(m)	D(m)	Emax(lx)
Ra80		13°	
Fixture Power 10W	1	0.22	10465
Source Flux 1359lm	2	0.45	2616
Fixture Flux 801lm	3	0.67	1163
Efficacy 78lm/W	4	0.90	654
TS2223 I _{max} =7700cd/klm	I _{max}	10465cd	5 1.12 419

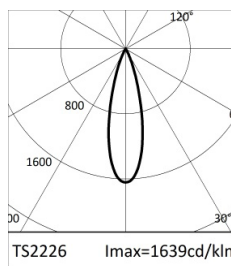


4000K	H(m)	D(m)	Emax(lx)
Ra80		13°	
Fixture Power 10W	1	0.22	10865
Source Flux 1411lm	2	0.45	2716
Fixture Flux 832lm	3	0.67	1207
Efficacy 81lm/W	4	0.90	679
TS2223 I _{max} =7700cd/klm	I _{max}	10865cd	5 1.12 435

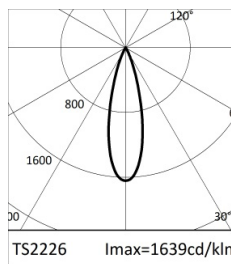
FLOOD WITH HONEYCOMB LOUVER



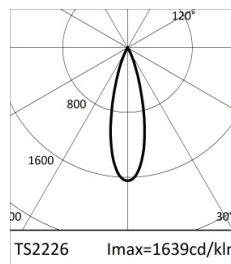
2200K	H(m)	D(m)	Emax(lx)
Ra90		28°	
Fixture Power 10W	1	0.50	1593
Source Flux 972lm	2	1.00	398
Fixture Flux 424lm	3	1.50	177
Efficacy 41lm/W	4	2.00	100
TS2226 I _{max} =1639cd/klm	I _{max}	1593cd	5 2.49 64



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 I _{max} =1639cd/klm	I _{max}	2101cd	5 2.49 84



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 89



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 92

KEPLERO QUANTUM FIXED 90 (3")

PHOTOMETRY

SPOT WITH LINEAR SPREAD LENS

	2200K	H(m)	D1(m)	D2(m)	Emax(lx)
	Ra90		60°	15°	
	Fixture Power	10W	1	1.15	0.27
	Source Flux	972lm	2	2.30	0.53
	Fixture Flux	684lm	3	3.45	0.80
	Efficacy	66lm/W	4	4.60	1.07
	TS2229	Imax=1978cd/klm	Imax	1922cd	5

	2700K	H(m)	D1(m)	D2(m)	Emax(lx)
	Ra80		60°	15°	
	Fixture Power	10W	1	1.15	0.27
	Source Flux	1282lm	2	2.30	0.53
	Fixture Flux	902lm	3	3.45	0.80
	Efficacy	88lm/W	4	4.60	1.07
	TS2229	Imax=1978cd/klm	Imax	2535cd	5

	3000K	H(m)	D1(m)	D2(m)	Emax(lx)
	Ra80		60°	15°	
	Fixture Power	10W	1	1.15	0.27
	Source Flux	1359lm	2	2.30	0.53
	Fixture Flux	957lm	3	3.45	0.80
	Efficacy	93lm/W	4	4.60	1.07
	TS2229	Imax=1978cd/klm	Imax	2688cd	5

	4000K	H(m)	D1(m)	D2(m)	Emax(lx)
	Ra80		60°	15°	
	Fixture Power	10W	1	1.15	0.27
	Source Flux	1411lm	2	2.30	0.53
	Fixture Flux	993lm	3	3.45	0.80
	Efficacy	96lm/W	4	4.60	1.07
	TS2229	Imax=1978cd/klm	Imax	2791cd	5

FLOOD WITH LINEAR SPREAD LENS

	2200K	H(m)	D1(m)	D2(m)	Emax(lx)
	Ra90		69°	31°	
	Fixture Power	10W	1	1.36	0.56
	Source Flux	972lm	2	2.72	1.12
	Fixture Flux	682lm	3	4.09	1.68
	Efficacy	66lm/W	4	5.45	2.25
	TS2230	Imax=961cd/klm	Imax	934cd	5

	2700K	H(m)	D1(m)	D2(m)	Emax(lx)
	Ra80		69°	31°	
	Fixture Power	10W	1	1.36	0.56
	Source Flux	1282lm	2	2.72	1.12
	Fixture Flux	899lm	3	4.09	1.68
	Efficacy	87lm/W	4	5.45	2.25
	TS2230	Imax=961cd/klm	Imax	1232cd	5

	3000K	H(m)	D1(m)	D2(m)	Emax(lx)
	Ra80		69°	31°	
	Fixture Power	10W	1	1.36	0.56
	Source Flux	1359lm	2	2.72	1.12
	Fixture Flux	953lm	3	4.09	1.68
	Efficacy	93lm/W	4	5.45	2.25
	TS2230	Imax=961cd/klm	Imax	1306cd	5

	4000K	H(m)	D1(m)	D2(m)	Emax(lx)
	Ra80		69°	31°	
	Fixture Power	10W	1	1.36	0.56
	Source Flux	1411lm	2	2.72	1.12
	Fixture Flux	989lm	3	4.09	1.68
	Efficacy	96lm/W	4	5.45	2.25
	TS2230	Imax=961cd/klm	Imax	1355cd	5