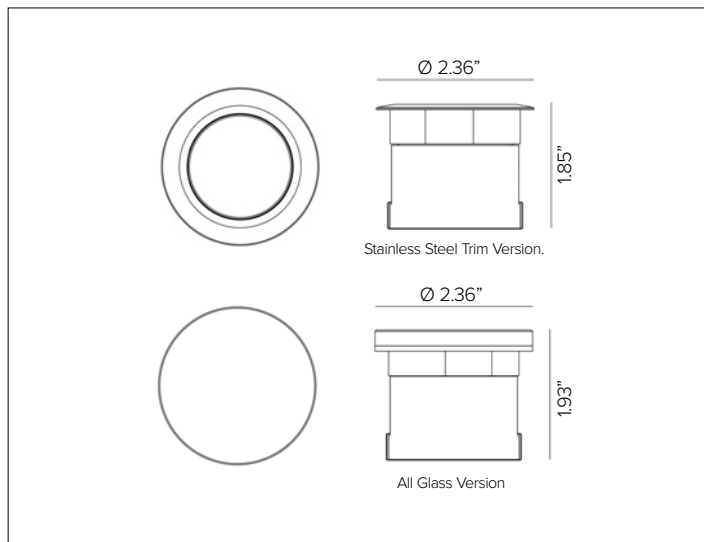


KEPLERO QUANTUM FIXED 60 (2")

Professional Recessed Inground LED Luminaire



CONCEPT

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

MECHANICAL CHARACTERISTICS

Housing	1.85"H x 2.36"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 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	2W (NS / OP) ONLY / 5W (SP / FL / WF / WW) 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 / WF 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	NSP 7°	SP 17°	FL 34°	WF 50°	WW	OP
Delivered Lumens						
2200K	177Lm	300Lm	288Lm	266Lm	50Lm	138Lm
2700K	200Lm	396Lm	380Lm	351Lm	65Lm	156Lm
3000K	204Lm	419Lm	402Lm	371Lm	69Lm	160Lm
4000K	215Lm	435Lm	417Lm	385Lm	72Lm	169Lm

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

Efficacy	105Lm /W max. Refer to photometric graphs for specific values.
Photobiological Classification	Low risk safety RG1

KEPLERO QUANTUM FIXED 60 (2")

SPECIFICATION INFORMATION

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

Ex: QUF2VBZSPL227 / 1USA130BZ / DMLE301242UD

OPTIONAL

REQUIRED

1 - PRODUCT CODE	2 - SIZE	3 - REMOTE DRIVER	4 - TRIM	6 - OPTICS	7 - WATTAGE	8 - KELVIN	9 - ACCESSORIES
QUF — KEPLERO QUANTUM FIXED	2 — 2" Dia.	V — 24V DC	BS — Brushed Natural	NS ^{C, D} — NSP 7°	L1 — 2W	22 — 2200K	LV ^C — Integral Honeycomb Louver
			BZ — Bronze	OP ^{C, D} — Opal Direct View			
			BK — Black	SP — SP 17°	L2 — 5W	30 — 3000K	
			GL — All Glass	FL — FL 34°		35 — 3500K	
			WF ^{C, D} — WFL 50°	40 — 4000K			
WW ^{C, D} — WW 34°x59°							
9 - INSTALLATION	10 - POWER SUPPLY						
Installation Sleeve See section for details	Power Supply See section for details						

^c Integral honeycomb louver not compatible with NSP / OP / WF / WW optics.

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

^e 2W versions available with NSP / OP optic only.

^f 5W versions available with SP / FL / WF / WW optics only.

TRIM VERSIONS

BRUSHED NATURAL



BRONZE PVD



BLACK PVD



ALL GLASS



OPTIC VERSIONS

NSP / SP / FL / MF / WF OPTICS



WW OPTIC



OPAL DIRECT VIEW



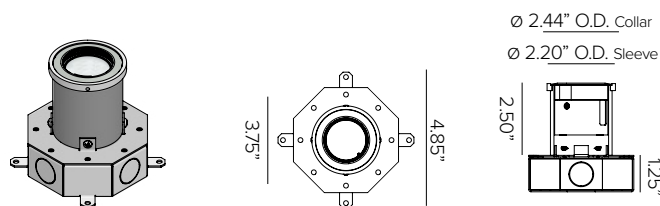
OPTICAL ACCESSORIES

INTEGRAL HONEYCOMB LOUVER



KEPLERO QUANTUM FIXED 60 (2")

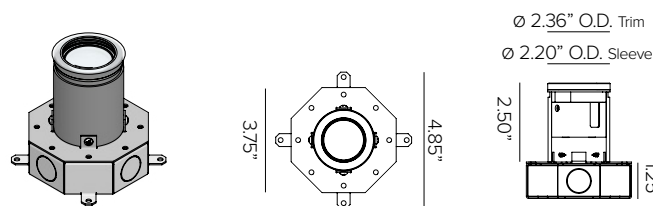
9 - INSTALLATION (REQUIRED)



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.

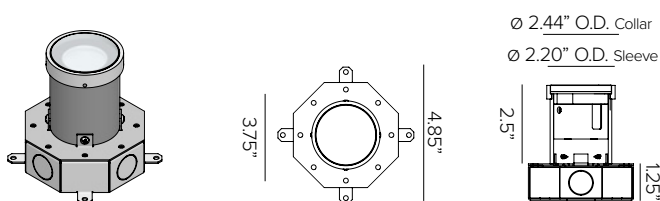
Finish ● Brushed Natural ● Bronze ● Black

Part No. **1USA130BS** **1USA130BZ** **1USA130BK**



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.

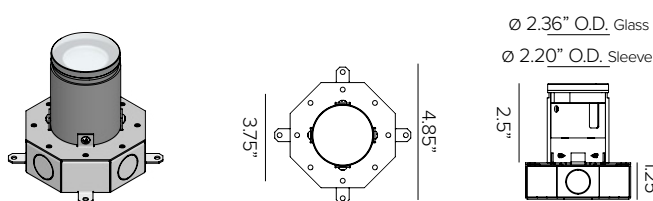
Part No. **1USA129**



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. **1USA131BK**



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. **1USA131**

10 - POWER SUPPLY (REQUIRED)

STANDARD DIMMING POWER SUPPLIES VERSIONS ONLY – ENCLOSURE ONLY

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.

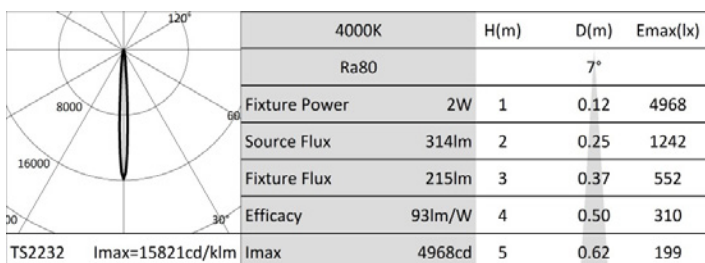
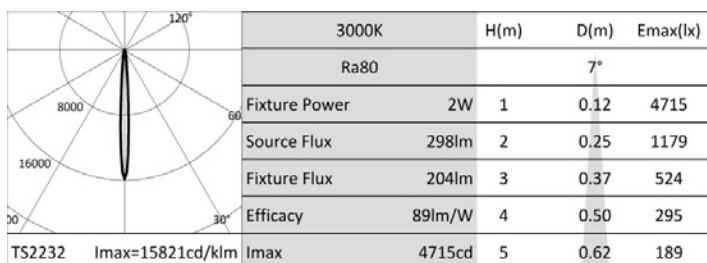
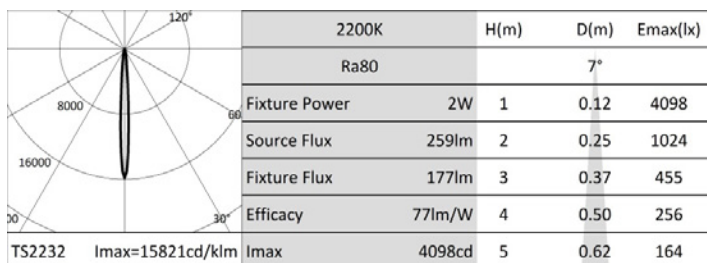
MAX FIXTURES PER DRIVER

Fixture Wattage	Driver Wattage					
	30W	60W	96W	2 x 96W	3 x 96W	
	2W	12	22	38	38 + 38	38 + 38 + 38
	5W	4	10	16	16 + 16	16 + 16 + 16

KEPLERO QUANTUM FIXED 60 (2")

PHOTOMETRY

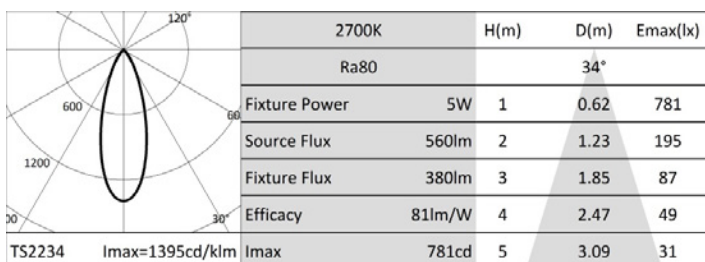
NARROW SPOT



SPOT



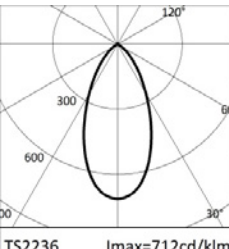
FLOOD

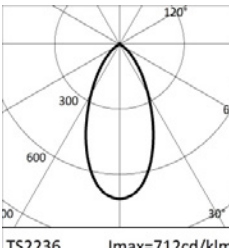


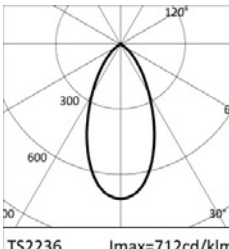
KEPLERO QUANTUM FIXED 60 (2")

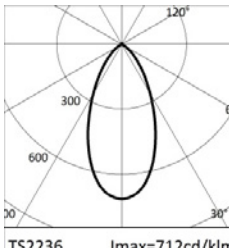
PHOTOMETRY

WIDE FLOOD

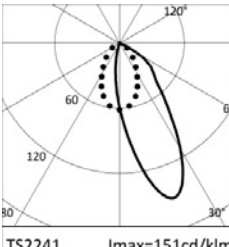
	2200K	H(m)	D(m)	Emax(lx)
	Ra90		50°	
	Fixture Power	5W	1	0.93
	Source Flux	422lm	2	1.85
	Fixture Flux	266lm	3	2.78
	Efficacy	57lm/W	4	3.71
	TS2236	Imax=712cd/klm	Imax	300cd

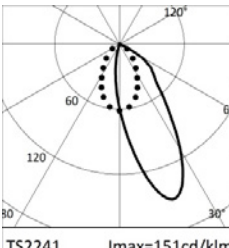
	3000K	H(m)	D(m)	Emax(lx)
	Ra80		50°	
	Fixture Power	5W	1	0.93
	Source Flux	590lm	2	1.85
	Fixture Flux	371lm	3	2.78
	Efficacy	79lm/W	4	3.71
	TS2236	Imax=712cd/klm	Imax	420cd

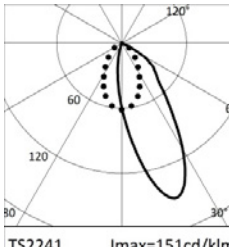
	2700K	H(m)	D(m)	Emax(lx)
	Ra80		50°	
	Fixture Power	5W	1	0.93
	Source Flux	557lm	2	1.85
	Fixture Flux	351lm	3	2.78
	Efficacy	75lm/W	4	3.71
	TS2236	Imax=712cd/klm	Imax	396cd

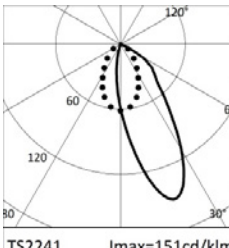
	4000K	H(m)	D(m)	Emax(lx)
	Ra80		50°	
	Fixture Power	5W	1	0.93
	Source Flux	611lm	2	1.85
	Fixture Flux	385lm	3	2.78
	Efficacy	82lm/W	4	3.71
	TS2236	Imax=712cd/klm	Imax	435cd

WALL WASHER

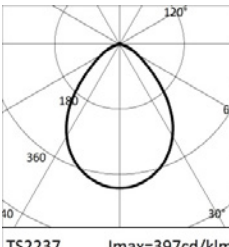
	2200K	H(m)	D1(m)	D2(m)	Emax(lx)
	Ra90		34°	59°	
	Fixture Power	5W	1	0.69	1.20
	Source Flux	424lm	2	1.38	2.40
	Fixture Flux	50lm	3	2.07	3.61
	Efficacy	11lm/W	4	2.77	4.81
	TS2241	Imax=151cd/klm	Imax	64cd	5

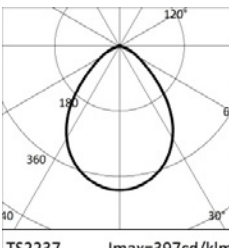
	3000K	H(m)	D1(m)	D2(m)	Emax(lx)
	Ra80		34°	59°	
	Fixture Power	5W	1	0.69	1.20
	Source Flux	592lm	2	1.38	2.40
	Fixture Flux	69lm	3	2.07	3.61
	Efficacy	15lm/W	4	2.77	4.81
	TS2241	Imax=151cd/klm	Imax	89cd	5

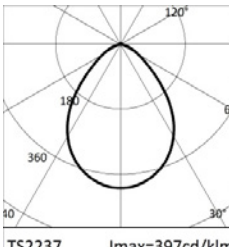
	2700K	H(m)	D1(m)	D2(m)	Emax(lx)
	Ra80		34°	59°	
	Fixture Power	5W	1	0.69	1.20
	Source Flux	560lm	2	1.38	2.40
	Fixture Flux	65lm	3	2.07	3.61
	Efficacy	14lm/W	4	2.77	4.81
	TS2241	Imax=151cd/klm	Imax	85cd	5

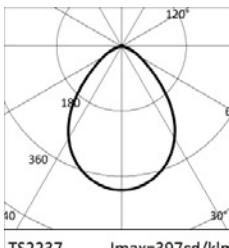
	4000K	H(m)	D1(m)	D2(m)	Emax(lx)
	Ra80		34°	59°	
	Fixture Power	5W	1	0.69	1.20
	Source Flux	614lm	2	1.38	2.40
	Fixture Flux	72lm	3	2.07	3.61
	Efficacy	15lm/W	4	2.77	4.81
	TS2241	Imax=151cd/klm	Imax	93cd	5

OPAL

	2200K	H(m)	D(m)	Emax(lx)
	Ra80		82°	
	Fixture Power	2W	1	1.75
	Source Flux	191lm	2	3.49
	Fixture Flux	138lm	3	5.24
	Efficacy	86lm/W	4	6.98
	TS2237	Imax=397cd/klm	Imax	76cd

	3000K	H(m)	D(m)	Emax(lx)
	Ra80		82°	
	Fixture Power	2W	1	1.75
	Source Flux	221lm	2	3.49
	Fixture Flux	160lm	3	5.24
	Efficacy	100lm/W	4	6.98
	TS2237	Imax=397cd/klm	Imax	88cd

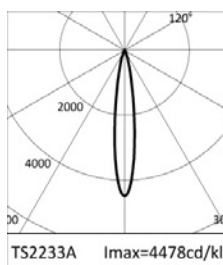
	2700K	H(m)	D(m)	Emax(lx)
	Ra80		82°	
	Fixture Power	2W	1	1.75
	Source Flux	216lm	2	3.49
	Fixture Flux	156lm	3	5.24
	Efficacy	98lm/W	4	6.98
	TS2237	Imax=397cd/klm	Imax	86cd

	4000K	H(m)	D(m)	Emax(lx)
	Ra80		82°	
	Fixture Power	2W	1	1.75
	Source Flux	233lm	2	3.49
	Fixture Flux	169lm	3	5.24
	Efficacy	105lm/W	4	6.98
	TS2237	Imax=397cd/klm	Imax	92cd

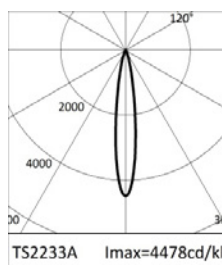
KEPLERO QUANTUM FIXED 60 (2")

PHOTOMETRY

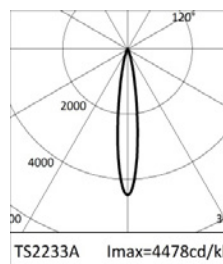
SPOT WITH HONEYCOMB LOUVER



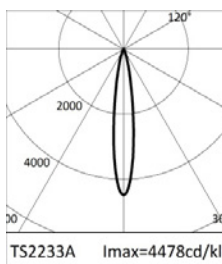
2200K		H(m)	D(m)	Emax(lx)
Ra90			16°	
Fixture Power	5W	1	0.27	1899
Source Flux	424lm	2	0.55	475
Fixture Flux	228lm	3	0.82	211
Efficacy	49lm/W	4	1.09	119
TS2233A	Imax=4478cd/klm	Imax	1899cd	5



2700K		H(m)	D(m)	Emax(lx)
Ra80			16°	
Fixture Power	5W	1	0.27	2508
Source Flux	560lm	2	0.55	627
Fixture Flux	301lm	3	0.82	279
Efficacy	64lm/W	4	1.09	157
TS2233A	Imax=4478cd/klm	Imax	2508cd	5

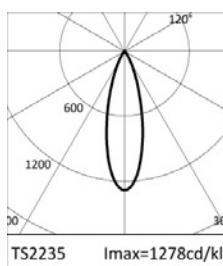


3000K		H(m)	D(m)	Emax(lx)
Ra80			16°	
Fixture Power	5W	1	0.27	2651
Source Flux	592lm	2	0.55	663
Fixture Flux	319lm	3	0.82	295
Efficacy	68lm/W	4	1.09	166
TS2233A	Imax=4478cd/klm	Imax	2651cd	5

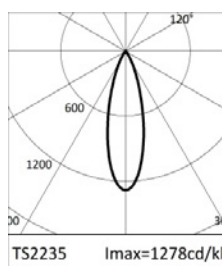


4000K		H(m)	D(m)	Emax(lx)
Ra80			16°	
Fixture Power	5W	1	0.27	2750
Source Flux	614lm	2	0.55	687
Fixture Flux	331lm	3	0.82	306
Efficacy	70lm/W	4	1.09	172
TS2233A	Imax=4478cd/klm	Imax	2750cd	5

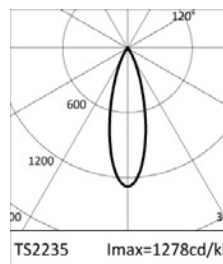
FLOOD WITH HONEYCOMB LOUVER



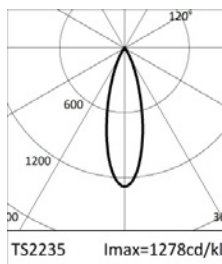
2200K		H(m)	D(m)	Emax(lx)
Ra90			30°	
Fixture Power	5W	1	0.53	542
Source Flux	424lm	2	1.06	136
Fixture Flux	183lm	3	1.58	60
Efficacy	39lm/W	4	2.11	34
TS2235	Imax=1278cd/klm	Imax	542cd	5



2700K		H(m)	D(m)	Emax(lx)
Ra80			30°	
Fixture Power	5W	1	0.53	716
Source Flux	560lm	2	1.06	179
Fixture Flux	242lm	3	1.58	80
Efficacy	51lm/W	4	2.11	45
TS2235	Imax=1278cd/klm	Imax	716cd	5



3000K		H(m)	D(m)	Emax(lx)
Ra80			30°	
Fixture Power	5W	1	0.53	757
Source Flux	592lm	2	1.06	189
Fixture Flux	256lm	3	1.58	84
Efficacy	54lm/W	4	2.11	47
TS2235	Imax=1278cd/klm	Imax	757cd	5

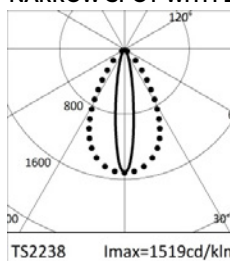


4000K		H(m)	D(m)	Emax(lx)
Ra80			30°	
Fixture Power	5W	1	0.53	785
Source Flux	614lm	2	1.06	196
Fixture Flux	265lm	3	1.58	87
Efficacy	56lm/W	4	2.11	49
TS2235	Imax=1278cd/klm	Imax	785cd	5

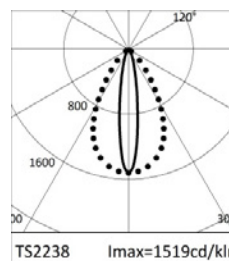
KEPLERO QUANTUM FIXED 60 (2")

PHOTOMETRY

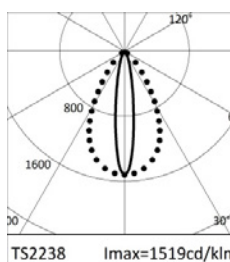
NARROW SPOT WITH LINEAR SPREAD LENS



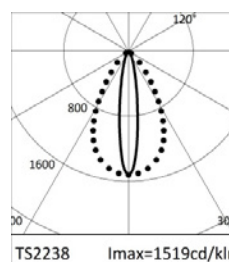
2200K		H(m)	D1(m)	D2(m)	Emax(lx)		
Ra90			17°	60°			
Fixture Power	5W	1	0.30	1.16	644		
Source Flux	424lm	2	0.59	2.32	161		
Fixture Flux	284lm	3	0.89	3.48	72		
Efficacy	60lm/W	4	1.19	4.64	40		
TS2238	I _{max} =1519cd/klm	I _{max}	644cd	5	1.48	5.81	26



2700K		H(m)	D1(m)	D2(m)	Emax(lx)		
Ra80			17°	60°			
Fixture Power	5W	1	0.30	1.16	850		
Source Flux	560lm	2	0.59	2.32	213		
Fixture Flux	375lm	3	0.89	3.48	94		
Efficacy	80lm/W	4	1.19	4.64	53		
TS2238	I _{max} =1519cd/klm	I _{max}	850cd	5	1.48	5.81	34

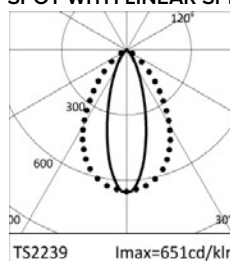


3000K		H(m)	D1(m)	D2(m)	Emax(lx)		
Ra80			17°	60°			
Fixture Power	5W	1	0.30	1.16	899		
Source Flux	592lm	2	0.59	2.32	225		
Fixture Flux	396lm	3	0.89	3.48	100		
Efficacy	84lm/W	4	1.19	4.64	56		
TS2238	I _{max} =1519cd/klm	I _{max}	899cd	5	1.48	5.81	36

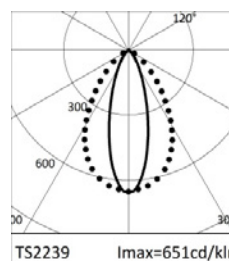


4000K		H(m)	D1(m)	D2(m)	Emax(lx)		
Ra80			17°	60°			
Fixture Power	5W	1	0.30	1.16	932		
Source Flux	614lm	2	0.59	2.32	233		
Fixture Flux	411lm	3	0.89	3.48	104		
Efficacy	87lm/W	4	1.19	4.64	58		
TS2238	I _{max} =1519cd/klm	I _{max}	932cd	5	1.48	5.81	37

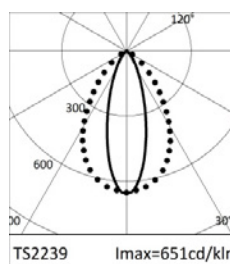
SPOT WITH LINEAR SPREAD LENS



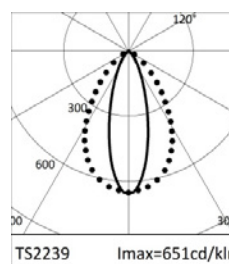
2200K		H(m)	D1(m)	D2(m)	Emax(lx)		
Ra90			32°	68°			
Fixture Power	5W	1	0.57	1.35	276		
Source Flux	424lm	2	1.13	2.70	69		
Fixture Flux	226lm	3	1.70	4.05	31		
Efficacy	48lm/W	4	2.27	5.39	17		
TS2239	I _{max} =651cd/klm	I _{max}	276cd	5	2.83	6.74	11



2700K		H(m)	D1(m)	D2(m)	Emax(lx)		
Ra80			32°	68°			
Fixture Power	5W	1	0.57	1.35	364		
Source Flux	560lm	2	1.13	2.70	91		
Fixture Flux	299lm	3	1.70	4.05	40		
Efficacy	64lm/W	4	2.27	5.39	23		
TS2239	I _{max} =651cd/klm	I _{max}	364cd	5	2.83	6.74	15

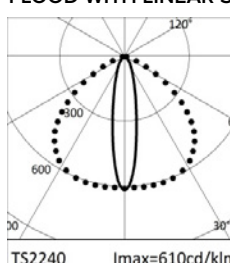


3000K		H(m)	D1(m)	D2(m)	Emax(lx)		
Ra80			32°	68°			
Fixture Power	5W	1	0.57	1.35	385		
Source Flux	592lm	2	1.13	2.70	96		
Fixture Flux	316lm	3	1.70	4.05	43		
Efficacy	67lm/W	4	2.27	5.39	24		
TS2239	I _{max} =651cd/klm	I _{max}	385cd	5	2.83	6.74	15

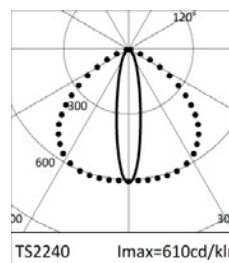


4000K		H(m)	D1(m)	D2(m)	Emax(lx)		
Ra80			32°	68°			
Fixture Power	5W	1	0.57	1.35	400		
Source Flux	614lm	2	1.13	2.70	100		
Fixture Flux	328lm	3	1.70	4.05	44		
Efficacy	70lm/W	4	2.27	5.39	25		
TS2239	I _{max} =651cd/klm	I _{max}	400cd	5	2.83	6.74	16

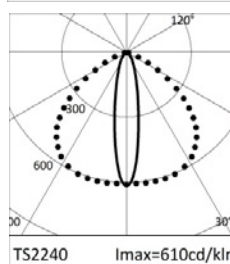
FLOOD WITH LINEAR SPREAD LENS



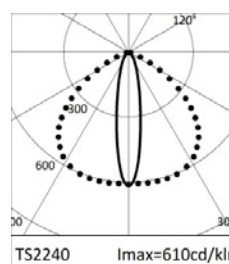
2200K		H(m)	D1(m)	D2(m)	Emax(lx)		
Ra90			21°	106°			
Fixture Power	5W	1	0.37	2.66	258		
Source Flux	424lm	2	0.74	5.31	65		
Fixture Flux	222lm	3	1.11	7.97	29		
Efficacy	47lm/W	4	1.47	10.62	16		
TS2240	I _{max} =610cd/klm	I _{max}	258cd	5	1.84	13.28	10



2700K		H(m)	D1(m)	D2(m)	Emax(lx)		
Ra80			21°	106°			
Fixture Power	5W	1	0.37	2.66	341		
Source Flux	560lm	2	0.74	5.31	85		
Fixture Flux	293lm	3	1.11	7.97	38		
Efficacy	62lm/W	4	1.47	10.62	21		
TS2240	I _{max} =610cd/klm	I _{max}	341cd	5	1.84	13.28	14



3000K		H(m)	D1(m)	D2(m)	Emax(lx)		
Ra80			21°	106°			
Fixture Power	5W	1	0.37	2.66	361		
Source Flux	592lm	2	0.74	5.31	90		
Fixture Flux	310lm	3	1.11	7.97	40		
Efficacy	66lm/W	4	1.47	10.62	23		
TS2240	I _{max} =610cd/klm	I _{max}	361cd	5	1.84	13.28	14



4000K		H(m)	D1(m)	D2(m)	Emax(lx)		
Ra80			21°	106°			
Fixture Power	5W	1	0.37	2.66	374		
Source Flux	614lm	2	0.74	5.31	94		
Fixture Flux	322lm	3	1.11	7.97	42		
Efficacy	68lm/W	4	1.47	10.62	23		
TS2240	I _{max} =610cd/klm	I _{max}	374cd	5	1.84	13.28	15