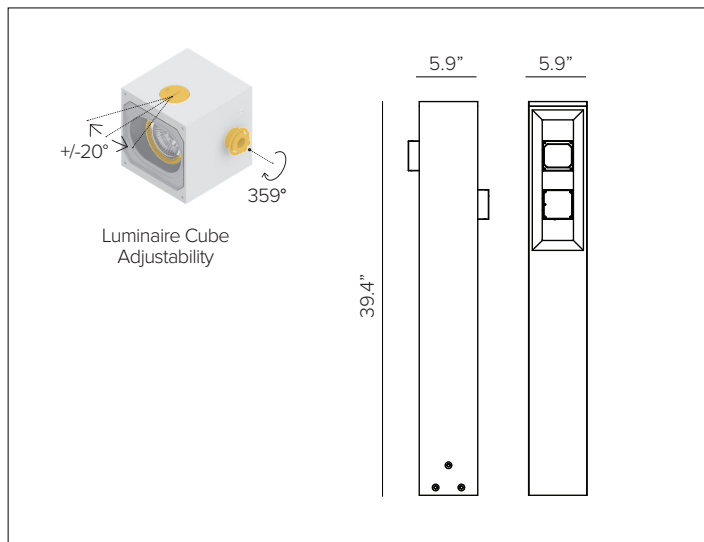


LUCERA™ BOLLARD

Multi-head Bollard with Professional Adjustable Floodlight Projectors



CONCEPT

Small footprint bollard with professional multi head adjustable LED floodlight projectors.

FIXTURE MECHANICAL CHARACTERISTICS

Housing	3.0" x 3.0" luminaire cube.
Materials	Die-cast aluminum powder coated body and joints for maximum heat dissipation.
Finish	Textured finish. <div> <div>● Ferrite Dark Grey</div> <div>● Black</div> <div>● White</div> <div>● Bronze</div> </div> <div> <div>● Sandstone Grey</div> <div>● Heritage Brown</div> </div> <div> <div>^B Custom RAL</div> <div>^B Custom Faux Wood</div> </div>
	^B Consult factory for custom finish options.
Bollard Dimensions	5.9"x5.9"x39.4"
Power Connection	IP67 low voltage quick disconnect with integral power connection box.
Functionality	Adjustable up to +/-359° on the vertical plane and +/-20° on the horizontal plane with aim locking set screw.
Protection	IP66
Resistance	IK09

CERTIFICATIONS

cULus Wet Location Listed
 Tested in accordance with LM-79-08
 Energy efficient for California installations.
 RoHS3 EU 215/863

WARRANTY

5 year limited warranty

SUSTAINABILITY

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

ELECTRICAL CHARACTERISTICS

Driver	For static white version integral 2ea 0-10V drivers that can be powered combined or individually, for individual fixture control consult factory. For dynamic RGBW and TW versions integral DMX 512 driver.
Wattage	Per luminaire cube: 8W static white nominal / 8.4W RGBW 4Ch / 6.7W TW 2Ch. Note: for RGBW and TW, 2ea luminaire cubes controlled per address.
Voltage	Universal Voltage 120-277V AC 50/60Hz

SOURCE

LED Chip on Board for static white versions. Custom LED array for RGBW and TW versions.

TM30	CCT (Nominal)	CRI	R _f	R _g	SDCM
2700K	2700K	81	80	97	2
3000K	3000K	82	82	97	2
3500K	3500K	82	81	97	2
4000K	4000K	82	81	97	2
TW	2700K-5000K	81	81	97	2
RGBW 6500K	RGBW 6500K	-	-	-	-

Ra90 available upon request

OPTIC

Equipped with collimating optic with angle specific holographic spread lens.

Beam	SP 17°	NFL 28°	FL 37°	MWFL 47°
Delivered Lumens				
2700K	676Lm	649Lm	627Lm	604Lm
3000K	708Lm	680Lm	658Lm	634Lm
3500K	727Lm	698Lm	675Lm	650Lm
4000K	745Lm	715Lm	691Lm	667Lm
Efficacy	52Lm/W max. Refer to photometric graphs for specific values.			
Lifetime	100,000hrs			

LUCERA™ BOLLARD

SPECIFICATION INFORMATION

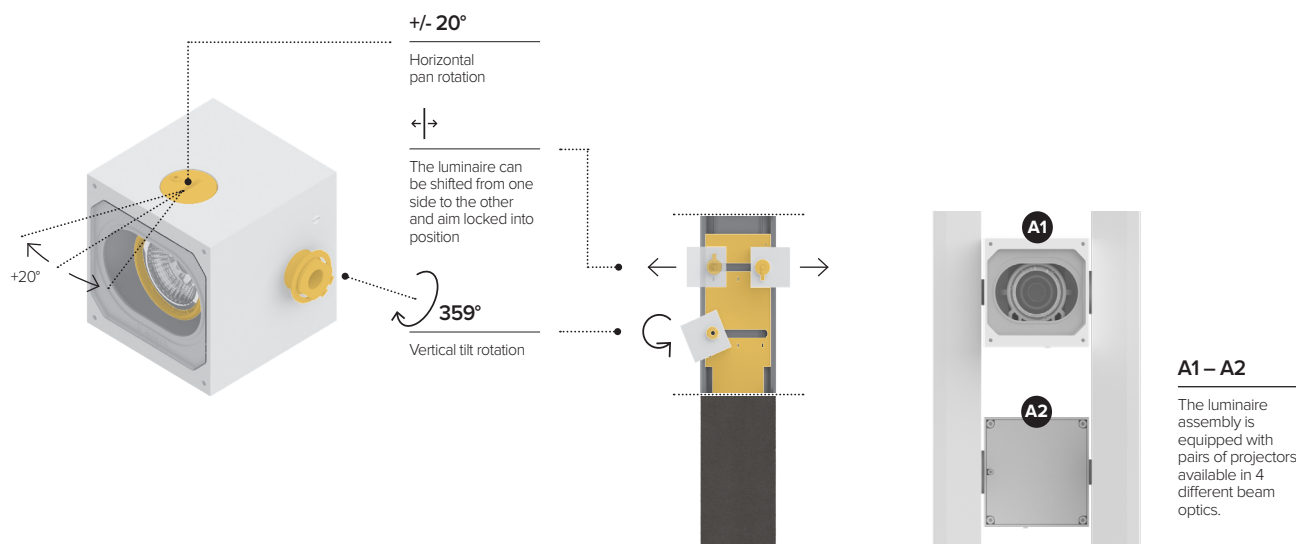
LUC										
1	2	3	4	5	6	7	8	9	10	11
							OPTIONAL	REQUIRED		OPTIONAL

Ex: LUCBA1L1NF30FE / 1USA012A / 1US2530

1 - PRODUCT CODE	2 - POLE HEIGHT	3 - HEAD STYLE	4 - WATTAGE	5 - OPTIC	6 - KELVIN	7 - FINISH
LUC — LUCERA™	B — Bollard	A1 — 2 Adjustable Heads	L1 — 16W	SP — SP 17° NF — NFL 28° FL — FL 37° MW — MWFL 47°	27 — 2700K 30 — 3000K 35 — 3500K 40 — 4000K 50 — 5000K	FE — Ferrite Dark Grey HB — Heritage Brown BZ — Bronze WT — White BT — Black SG — Sandstone Grey RAL — Custom RAL
			L2 — 17W	SP — SP 17° NF — NFL 28° FL — FL 37° MW — MWFL 47°	DY — Dynamic RGBW	
			L3 — 14W	SP — SP 17° NF — NFL 28° FL — FL 37° MW — MWFL 47°	TW — Tunable White	
8 - OPTIONAL	9 - MOUNTING	10 - INSTALLATION	11 - OPTICAL ACCESSORIES			
MG ^A — Marine Grade	Trimless Anchor Base See section for details Ground Anchor Base See section for details Plate for Surface Installation See section for details	J-Box with sleeve See section for details	Filter Holder Ring See section for details Blade Light Linear Spread Lens See section for details Anti-glare Louver See section for details Symmetric Snoot See section for details Asymmetric Snoot See section for details			

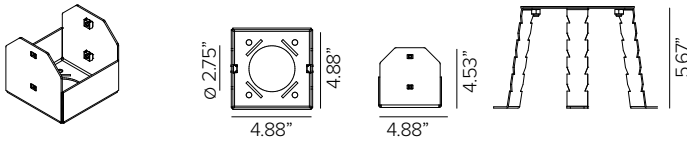
^A Marine Grade is recommended for use in environments with occasional exposure to salt air, reclaimed water, fertilizers, chemical cleaners, or frequent pressure washing (steam) cleaning. Fixture housing complete with marine grade cataphoresis suitable for use in marine grade environments. Not to be in direct contact with salt or corrosive agents for extended periods of time.

OPTICAL FLEXIBILITY



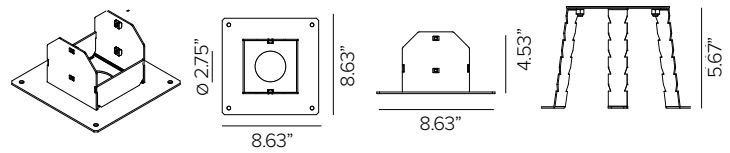
LUCERA™ BOLLARD

9 – MOUNTING (REQUIRED)



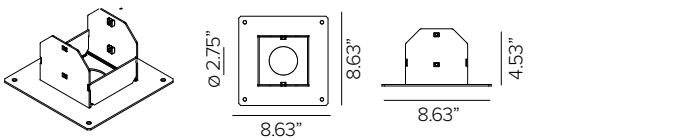
Trimless mounting base with ground anchor fixing rods for installation in concrete. AISI 316 stainless steel. Mounting bolts included. **Required for use with 1US2530 by NEC.**

Part No. **1USA012A**



Powder coated mounting base with ground anchor fixing rods for installation in concrete. AISI 316 stainless steel. Mounting bolts included. **Required for use with 1US2530 by NEC.**

Part No. **1USA012C(*)**



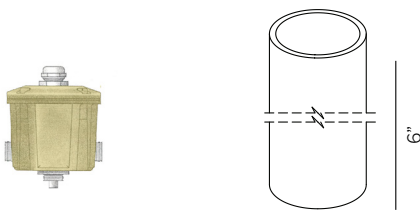
Powder coated mounting plate for surface installation outside the post. AISI 316 stainless steel compatible with dowels to be inserted into 4 holes, Ø 0.34" Dia. for use with 5/16" bolts maximum. Anchor bolts not included. **Required for use with 1US2530 by NEC.**

Part No. **A012C(*)**



***Add suffix to end of number to identify finish (EX. 1US3510HB)**

10 – INSTALLATION (REQUIRED)



Direct burial brass ingrade j-box with PVC sleeve. 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).**

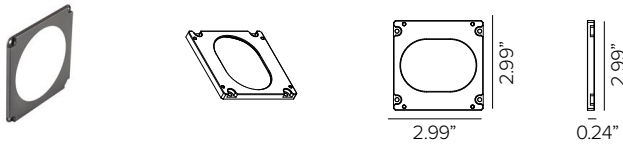
Part No. **1US2530**

LUCERA™ BOLLARD

11 – OPTICAL ACCESSORIES (OPTIONAL)

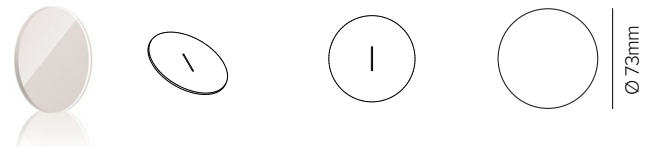
MAXIMUM OF TWO ACCESSORIES PER LUMINAIRE CUBE.

ACCESSORIES AVAILABLE AS INDIVIDUAL ITEMS, NOTATE QUANTITY OF DESIRED ACCESSORIES PER POLE.



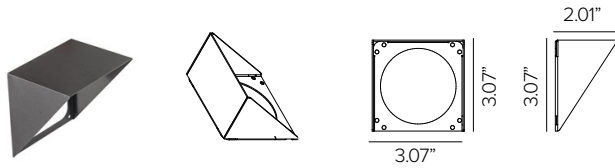
Filter holder ring. CNC machined anodized and powder coated aluminum. **Required for use of all filters.**

Part No. **A011D (*)**



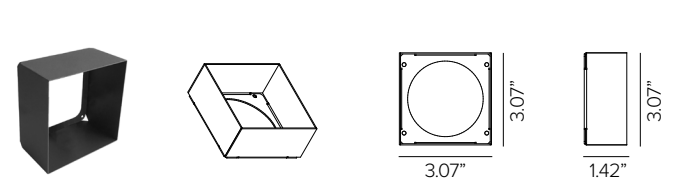
'Blade of Light' linear spread lens. PMMA holographic filter. **To be completed with A011D dedicated holder ring. Does not apply toward maximum accessory count.**

Part No. **A011E**



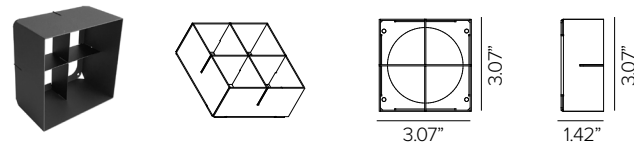
Asymmetric snoot. Powder coated stainless steel. **Not compatible with A011A and A011B.**

Part No. **A011C (*)**



Symmetric snoot. Powder coated stainless steel. **Not compatible with A011B and A011C.**

Part No. **A011A (*)**



Anti glare louver with removable baffles for different levels of glare control. Powder coat stainless steel. **Not compatible with A011A and A011C.**

Part No. **A011B (*)**

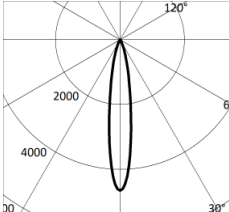
Ferrite Dark Grey (Default)
 Heritage Brown (HB)*
 Bronze (BZ)*
 White (WT)*
 Black (BT)*
 Sandstone Grey (SG)*

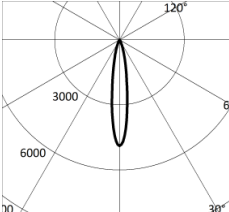
*Add suffix to end of number to identify finish (EX. 1E3741HB)

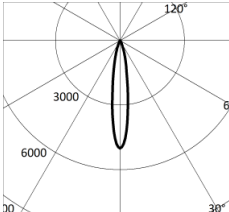
LUCERA™ BOLLARD

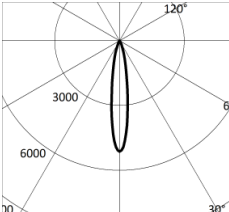
PHOTOMETRY

SPOT

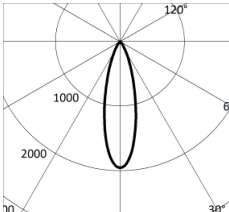
	2700K	H(m)	D(m)	Emax(lx)
	Ra80		17°	
	Fixture Power	8W	1	0.29
	Source Flux	943lm	2	0.58
	Fixture Flux	676lm	3	0.87
	Efficacy	84lm/W	4	1.17
	TS1714	Imax=4924cd/klm	Imax	4644cd

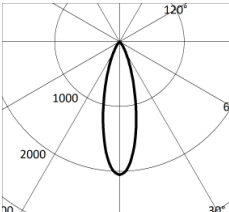
	3000K	H(m)	D(m)	Emax(lx)
	Ra80		17°	
	Fixture Power	8W	1	0.29
	Source Flux	989lm	2	0.58
	Fixture Flux	708lm	3	0.87
	Efficacy	89lm/W	4	1.17
	TS1714	Imax=4924cd/klm	Imax	4870cd

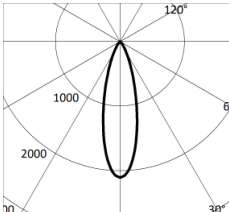
	3500K	H(m)	D(m)	Emax(lx)
	Ra80		17°	
	Fixture Power	8W	1	0.29
	Source Flux	1015lm	2	0.58
	Fixture Flux	727lm	3	0.87
	Efficacy	91lm/W	4	1.17
	TS1714	Imax=4925cd/klm	Imax	4998cd

	4000K	H(m)	D(m)	Emax(lx)
	Ra80		17°	
	Fixture Power	8W	1	0.29
	Source Flux	1040lm	2	0.58
	Fixture Flux	745lm	3	0.87
	Efficacy	93lm/W	4	1.17
	TS1714	Imax=4925cd/klm	Imax	5121cd

NARROW FLOOD

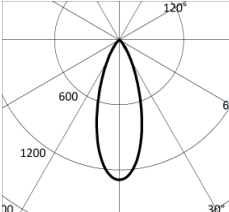
	2700K	H(m)	D(m)	Emax(lx)
	Ra80		28°	
	Fixture Power	8W	1	0.50
	Source Flux	943lm	2	1.01
	Fixture Flux	649lm	3	1.51
	Efficacy	81lm/W	4	2.02
	TS1715	Imax=2070cd/klm	Imax	1952cd

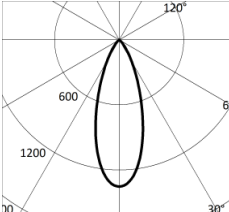
	3000K	H(m)	D(m)	Emax(lx)
	-		28°	
	Fixture Power	8W	1	0.50
	Source Flux	989lm	2	1.01
	Fixture Flux	680lm	3	1.51
	Efficacy	85lm/W	4	2.02
	TS1715	Imax=2070cd/klm	Imax	2047cd

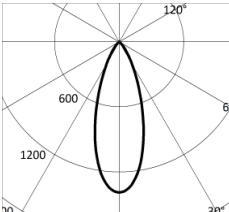
	3500K	H(m)	D(m)	Emax(lx)
	Ra80		28°	
	Fixture Power	8W	1	0.50
	Source Flux	1015lm	2	1.01
	Fixture Flux	698lm	3	1.51
	Efficacy	87lm/W	4	2.02
	TS1715	Imax=2070cd/klm	Imax	2101cd

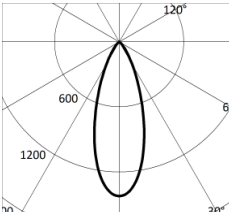
	4000K	H(m)	D(m)	Emax(lx)
	Ra80		28°	
	Fixture Power	8W	1	0.50
	Source Flux	1040lm	2	1.01
	Fixture Flux	715lm	3	1.51
	Efficacy	89lm/W	4	2.02
	TS1715	Imax=2070cd/klm	Imax	2153cd

FLOOD

	2700K	H(m)	D(m)	Emax(lx)
	Ra80		37°	
	Fixture Power	8W	1	0.66
	Source Flux	943lm	2	1.32
	Fixture Flux	627lm	3	1.98
	Efficacy	78lm/W	4	2.64
	TS1716	Imax=1366cd/klm	Imax	1288cd

	3000K	H(m)	D(m)	Emax(lx)
	Ra80		37°	
	Fixture Power	8W	1	0.66
	Source Flux	989lm	2	1.32
	Fixture Flux	658lm	3	1.98
	Efficacy	82lm/W	4	2.64
	TS1716	Imax=1366cd/klm	Imax	1351cd

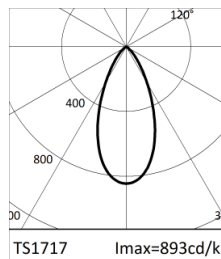
	3500K	H(m)	D(m)	Emax(lx)
	Ra80		37°	
	Fixture Power	8W	1	0.66
	Source Flux	1015lm	2	1.32
	Fixture Flux	675lm	3	1.98
	Efficacy	84lm/W	4	2.64
	TS1716	Imax=1366cd/klm	Imax	1386cd

	4000K	H(m)	D(m)	Emax(lx)
	Ra80		37°	
	Fixture Power	8W	1	0.66
	Source Flux	1040lm	2	1.32
	Fixture Flux	691lm	3	1.98
	Efficacy	86lm/W	4	2.64
	TS1716	Imax=1366cd/klm	Imax	1420cd

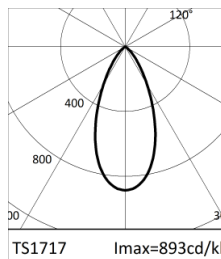
LUCERA™ BOLLARD

PHOTOMETRY

MEDIUM WIDE FLOOD

	2700K	H(m)	D(m)	Emax(lx)		
	Ra80		47°			
	Fixture Power	8W	1	0.86	842	
	Source Flux	943lm	2	1.73	211	
	Fixture Flux	604lm	3	2.59	94	
	Efficacy	76lm/W	4	3.46	53	
	TS1717	Imax=893cd/klm	Imax	842cd	5	4.32

	3500K	H(m)	D(m)	Emax(lx)		
	Ra80		47°			
	Fixture Power	8W	1	0.86	907	
	Source Flux	1015lm	2	1.73	227	
	Fixture Flux	650lm	3	2.59	101	
	Efficacy	81lm/W	4	3.46	57	
	TS1717	Imax=893cd/klm	Imax	907cd	5	4.32

	3000K	H(m)	D(m)	Emax(lx)		
	Ra80		47°			
	Fixture Power	8W	1	0.86	884	
	Source Flux	989lm	2	1.73	221	
	Fixture Flux	634lm	3	2.59	98	
	Efficacy	79lm/W	4	3.46	55	
	TS1717	Imax=893cd/klm	Imax	884cd	5	4.32

	4000K	H(m)	D(m)	Emax(lx)		
	Ra80		47°			
	Fixture Power	8W	1	0.86	929	
	Source Flux	1040lm	2	1.73	232	
	Fixture Flux	667lm	3	2.59	103	
	Efficacy	83lm/W	4	3.46	58	
	TS1717	Imax=893cd/klm	Imax	929cd	5	4.32