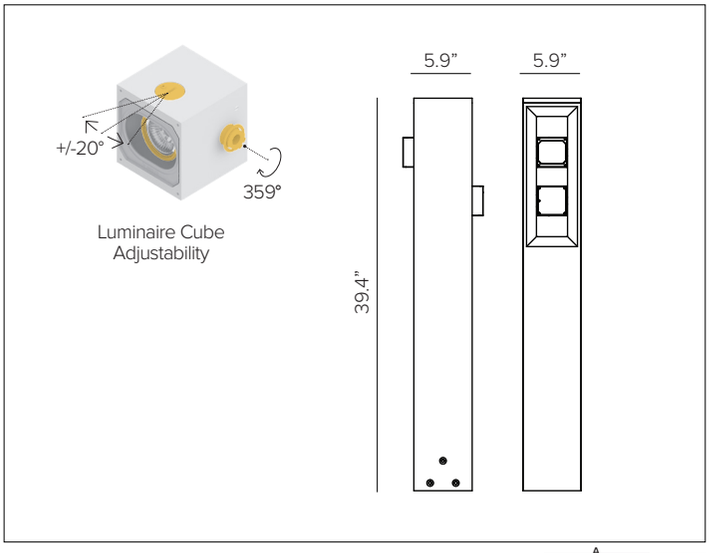
LUCERA™ BOLLARD

Multi-head Bollard with Professional Adjustable Floodlight Projectors



RoHS3 Compliant · Marine · IP66 · cULus

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. Ferrite Dark Grey · Black · White · Bronze Sandstone Grey · Heritage Brown [B] Custom RAL · [B] Custom Faux Wood *[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 E488257.
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
Ambient Temp.	-25°C / +35°C (95°F)

SOURCE

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

TM30	*CCT (Nominal)*	*CRI*	*Rf*	*Rg*	*SDCM*
	2700K	81	80	97	2
	3000K	82	82	97	2
	3500K	82	81	97	2
	4000K	82	81	97	2
	TW 2700K–5000K	81	81	97	2
	RGBW 6500K	–	–	–	–

Ra90 available upon request

OPTIC

Equipped with collimating optic with angle specific holographic lens.

Beam		*SP 17°*	*NFL 28°*	*FL 37°*	*MWFL 47°*
Delivered Lumens	***2700K***	676Lm	649Lm	627Lm	604Lm
Refer to photometry section for all fixture variations.	***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	**Static White:** L92/B10 30000h at max TA+25°C / L90/B10 50000h at max TA +25°C: **RGBW & TW:** L80/B10 60000h at max TA +25°C

LUCERA™ BOLLARD

SPECIFICATION INFORMATION

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

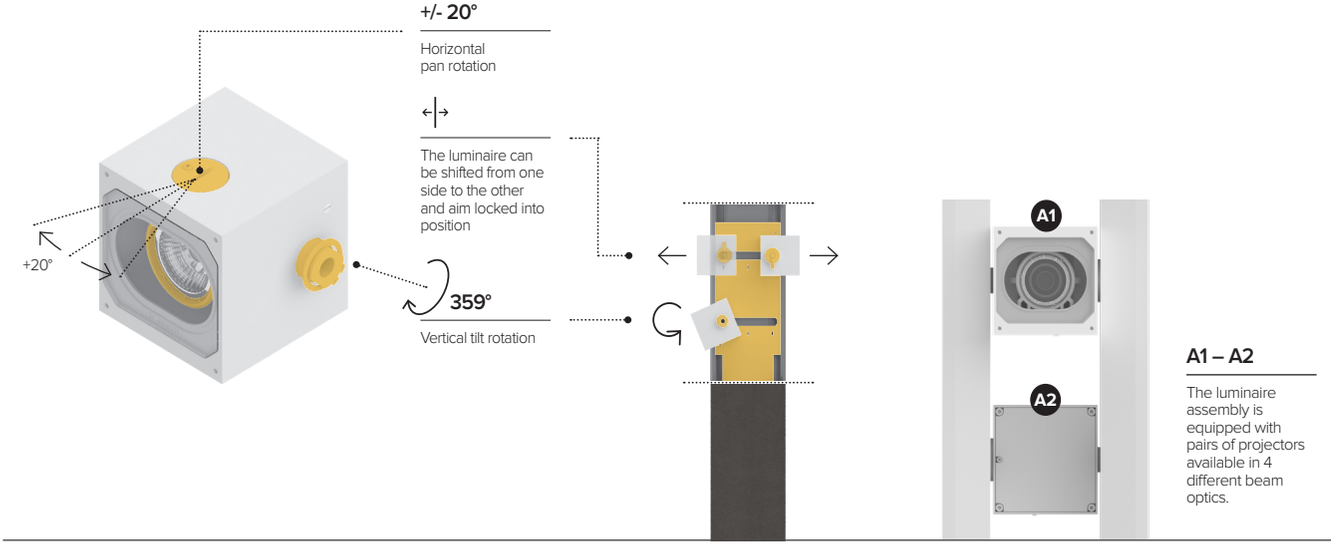
Ex: LUCBA1L1NF30FE / 1USA012A / 1US2530

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
			L2 — 17W	**SP** — SP 17° **NF** — NFL 28° **FL** — FL 37° **MW** — MWFL 47°	**DY** — Dynamic RGBW	**SG** — Sandstone Grey **RAL** — Custom RAL
			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



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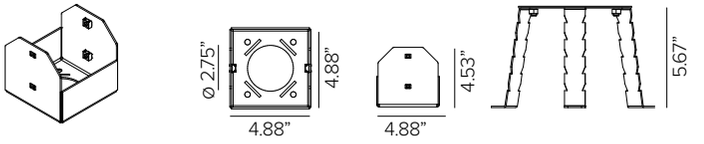
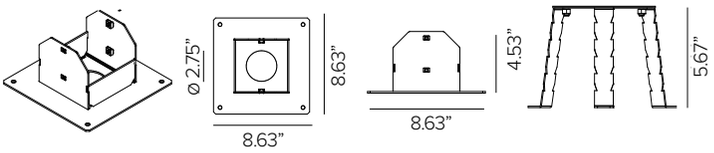
9 – MOUNTING (REQUIRED)



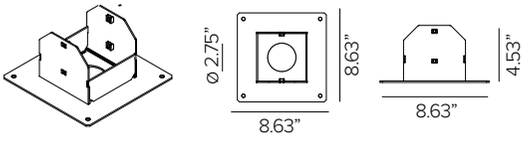
Trimless mounting base with ground anchor fixing rods for installation in concrete. AISI 316 stainless steel. Mounting bolts included. **Required for use with 1US2530 by NEC.**

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(*)**



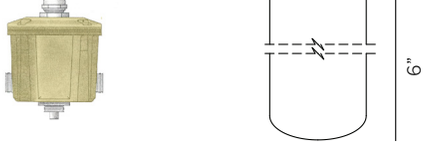
Powder coated mounting plate for surface installation outside the post. AISI 316 stainless steel compatible with dowels to be inserted into 4 holes, Ø 0.34" Dia. for use with 5/16" bolts maximum. Anchor bolts not included. **Required for use with 1US2530 by NEC.**

Part No. **A012C(*)**

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

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**

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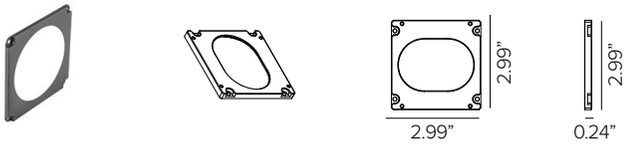
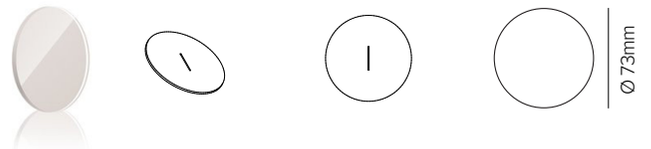
11 – OPTICAL ACCESSORIES (OPTIONAL)

MAXIMUM OF TWO ACCESSORIES PER LUMINAIRE CUBE.
ACCESSORIES AVAILABLE AS INDIVIDUAL ITEMS, NOTATE QUANTITY OF DESIRED ACCESSORIES PER POLE.



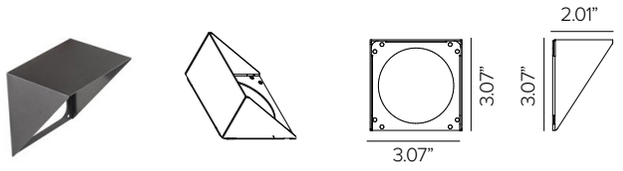
Filter holder ring. CNC machined anodized and powder coated aluminum. **Required for use of all filters.**

Part No. **A011D (*)**



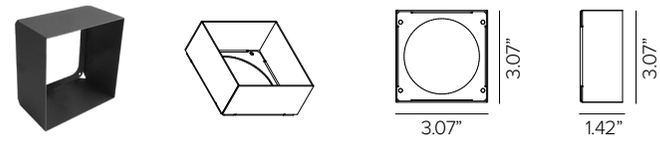
‘Blade of Light’ linear spread lens. PMMA holographic filter. **To be completed with A011D dedicated holder ring. Does not apply toward maximum accessory count.**

Part No. **A011E**



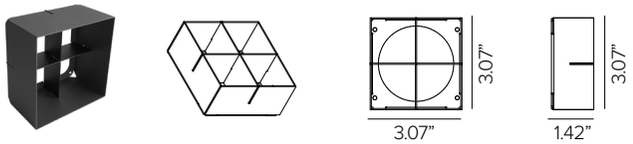
Asymmetric snoot. Powder coated stainless steel. **Not compatible with A011A and A011B.**

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**)*

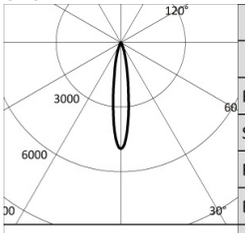
Add suffix to end of number to identify finish (EX. 1E3741HB)

LUCERA™ BOLLARD

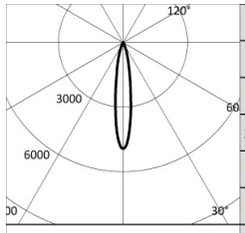
PHOTOMETRY

SHOWN AS INDIVIDUAL LUMINAIRE CUBE.

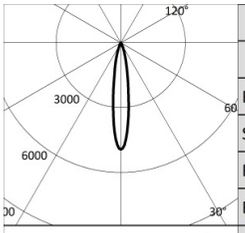
SPOT



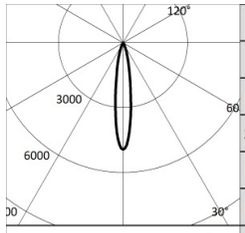
2700K		H(m)	D(m)	Emax(lx)
Ra80			17°	
Fixture Power	8W	1	0.29	4644
Source Flux	943lm	2	0.58	1161
Fixture Flux	676lm	3	0.87	516
Efficacy	84lm/W	4	1.17	290
TS1714 Imax=4924cd/klm	Imax	4644cd	5	1.46	186



3000K		H(m)	D(m)	Emax(lx)
Ra80			17°	
Fixture Power	8W	1	0.29	4870
Source Flux	989lm	2	0.58	1218
Fixture Flux	708lm	3	0.87	541
Efficacy	89lm/W	4	1.17	304
TS1714 Imax=4924cd/klm	Imax	4870cd	5	1.46	195

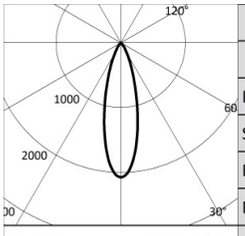


3500K		H(m)	D(m)	Emax(lx)
Ra80			17°	
Fixture Power	8W	1	0.29	4998
Source Flux	1015lm	2	0.58	1250
Fixture Flux	727lm	3	0.87	555
Efficacy	91lm/W	4	1.17	312
TS1714 Imax=4924cd/klm	Imax	4998cd	5	1.46	200

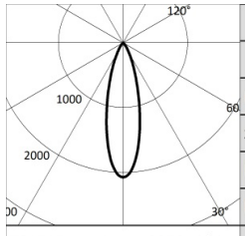


4000K		H(m)	D(m)	Emax(lx)
Ra80			17°	
Fixture Power	8W	1	0.29	5121
Source Flux	1040lm	2	0.58	1280
Fixture Flux	745lm	3	0.87	569
Efficacy	93lm/W	4	1.17	320
TS1714 Imax=4924cd/klm	Imax	5121cd	5	1.46	205

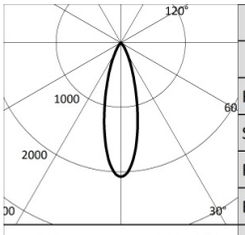
NARROW FLOOD



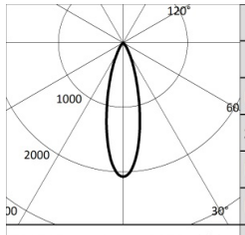
2700K		H(m)	D(m)	Emax(lx)
Ra80			28°	
Fixture Power	8W	1	0.50	1952
Source Flux	943lm	2	1.01	488
Fixture Flux	649lm	3	1.51	217
Efficacy	81lm/W	4	2.02	122
TS1715 Imax=2070cd/klm	Imax	1952cd	5	2.52	78



3000K		H(m)	D(m)	Emax(lx)
Ra80			28°	
Fixture Power	8W	1	0.50	2047
Source Flux	989lm	2	1.01	512
Fixture Flux	680lm	3	1.51	227
Efficacy	85lm/W	4	2.02	128
TS1715 Imax=2070cd/klm	Imax	2047cd	5	2.52	82

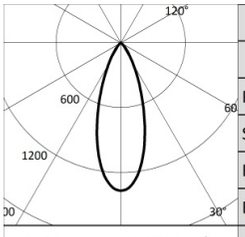


3500K		H(m)	D(m)	Emax(lx)
Ra80			28°	
Fixture Power	8W	1	0.50	2101
Source Flux	1015lm	2	1.01	525
Fixture Flux	698lm	3	1.51	233
Efficacy	87lm/W	4	2.02	131
TS1715 Imax=2070cd/klm	Imax	2101cd	5	2.52	84

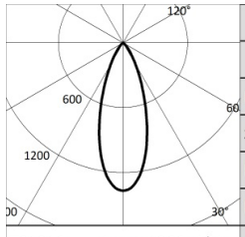


4000K		H(m)	D(m)	Emax(lx)
Ra80			28°	
Fixture Power	8W	1	0.50	2153
Source Flux	1040lm	2	1.01	538
Fixture Flux	715lm	3	1.51	239
Efficacy	89lm/W	4	2.02	135
TS1715 Imax=2070cd/klm	Imax	2153cd	5	2.52	86

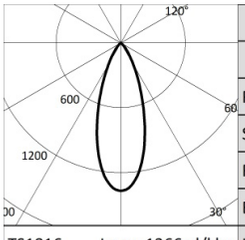
FLOOD



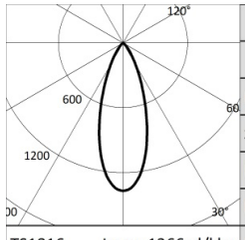
2700K		H(m)	D(m)	Emax(lx)
Ra80			37°	
Fixture Power	8W	1	0.66	1288
Source Flux	943lm	2	1.32	322
Fixture Flux	627lm	3	1.98	143
Efficacy	78lm/W	4	2.64	80
TS1716 Imax=1366cd/klm	Imax	1288cd	5	3.30	52



3000K		H(m)	D(m)	Emax(lx)
Ra80			37°	
Fixture Power	8W	1	0.66	1351
Source Flux	989lm	2	1.32	338
Fixture Flux	658lm	3	1.98	150
Efficacy	82lm/W	4	2.64	84
TS1816 Imax=1366cd/klm	Imax	1351cd	5	3.30	54



3500K		H(m)	D(m)	Emax(lx)
Ra80			37°	
Fixture Power	8W	1	0.66	1386
Source Flux	1015lm	2	1.32	347
Fixture Flux	675lm	3	1.98	154
Efficacy	84lm/W	4	2.64	87
TS1816 Imax=1366cd/klm	Imax	1386cd	5	3.30	55



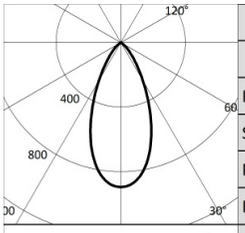
4000K		H(m)	D(m)	Emax(lx)
Ra80			37°	
Fixture Power	8W	1	0.66	1420
Source Flux	1040lm	2	1.32	355
Fixture Flux	691lm	3	1.98	158
Efficacy	86lm/W	4	2.64	89
TS1816 Imax=1366cd/klm	Imax	1420cd	5	3.30	57

LUCERA™ BOLLARD

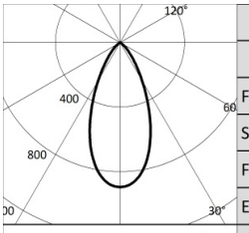
PHOTOMETRY

SHOWN AS INDIVIDUAL LUMINAIRE CUBE.

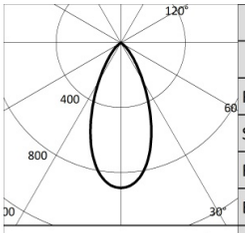
MEDIUM WIDE FLOOD



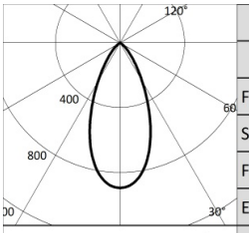
2700K		H(m)	D(m)	Emax(lx)
Ra80			47°	
Fixture Power	8W	1	0.86	842
Source Flux	943lm	2	1.73	211
Fixture Flux	604lm	3	2.59	94
Efficacy	76lm/W	4	3.46	53
TS1717 Imax=893cd/klm	Imax 842cd	5	4.32	34



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	35

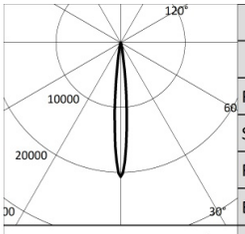


3500K		H(m)	D(m)	Emax(lx)
Ra80			47°	
Fixture Power	8W	1	0.86	907
Source Flux	1015lm	2	1.73	227
Fixture Flux	650lm	3	2.59	101
Efficacy	81lm/W	4	3.46	57
TS1717 Imax=893cd/klm	Imax 907cd	5	4.32	36



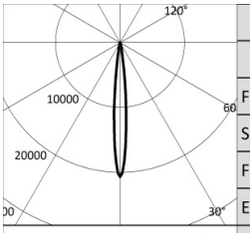
4000K		H(m)	D(m)	Emax(lx)
Ra80			47°	
Fixture Power	8W	1	0.86	929
Source Flux	1040lm	2	1.73	232
Fixture Flux	667lm	3	2.59	103
Efficacy	83lm/W	4	3.46	58
TS1717 Imax=893cd/klm	Imax 929cd	5	4.32	37

SPOT / RED



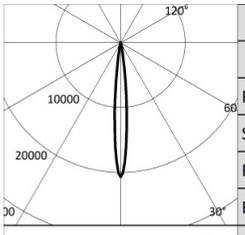
-		H(m)	D(m)	Emax(lx)
-			10°	
Fixture Power	3W	1	0.18	1218
Source Flux	59lm	2	0.36	304
Fixture Flux	59lm	3	0.54	135
Efficacy	18lm/W	4	0.72	76
TS1831 Imax=20639cd/klm	Imax 1218cd	5	0.90	49

SPOT / GREEN



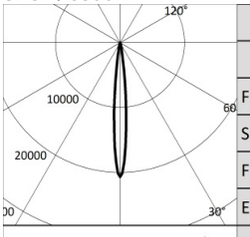
-		H(m)	D(m)	Emax(lx)
-			10°	
Fixture Power	4W	1	0.18	2353
Source Flux	114lm	2	0.36	588
Fixture Flux	114lm	3	0.54	261
Efficacy	28lm/W	4	0.72	147
TS1831 Imax=20639cd/klm	Imax 2353cd	5	0.90	94

SPOT / BLUE



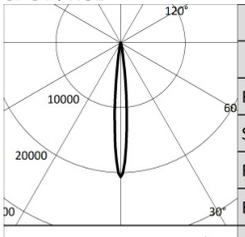
-		H(m)	D(m)	Emax(lx)
-			10°	
Fixture Power	4W	1	0.18	475
Source Flux	23lm	2	0.36	119
Fixture Flux	23lm	3	0.54	53
Efficacy	6lm/W	4	0.72	30
TS1831 Imax=20639cd/klm	Imax 475cd	5	0.90	19

SPOT / 6500K



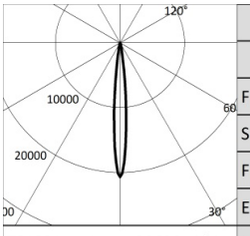
6500K		H(m)	D(m)	Emax(lx)
-			10°	
Fixture Power	3W	1	0.18	3509
Source Flux	170lm	2	0.36	877
Fixture Flux	170lm	3	0.54	390
Efficacy	50lm/W	4	0.72	219
TS1831 Imax=20639cd/klm	Imax 3509cd	5	0.90	140

SPOT / RGB



-		H(m)	D(m)	Emax(lx)
-			10°	
Fixture Power	10W	1	0.18	3633
Source Flux	176lm	2	0.36	908
Fixture Flux	176lm	3	0.54	404
Efficacy	17lm/W	4	0.72	227
TS1831 Imax=20639cd/klm	Imax 3633cd	5	0.90	145

SPOT / RGBW



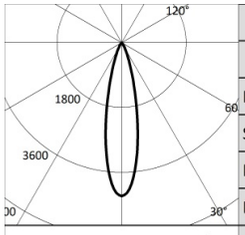
-		H(m)	D(m)	Emax(lx)
-			10°	
Fixture Power	13W	1	0.18	6419
Source Flux	311lm	2	0.36	1605
Fixture Flux	311lm	3	0.54	713
Efficacy	24lm/W	4	0.72	401
TS1831 Imax=20639cd/klm	Imax 6419cd	5	0.90	257

LUCERA™ BOLLARD

PHOTOMETRY

SHOWN AS INDIVIDUAL LUMINAIRE CUBE.

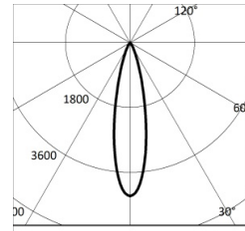
NARROW FLOOD / RED



-		H(m)	D(m)	Emax(lx)
-			24°	
Fixture Power	3W	1	0.42	225
Source Flux	53lm	2	0.84	56
Fixture Flux	53lm	3	1.25	25
Efficacy	17lm/W	4	1.67	14
Imax	225cd	5	2.09	9

TS1832 Imax=4248cd/klm

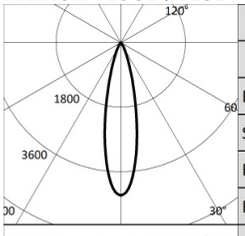
NARROW FLOOD / GREEN



-		H(m)	D(m)	Emax(lx)
-			24°	
Fixture Power	4W	1	0.42	433
Source Flux	102lm	2	0.84	108
Fixture Flux	102lm	3	1.25	48
Efficacy	25lm/W	4	1.67	27
Imax	433cd	5	2.09	17

TS1832 Imax=4248cd/klm

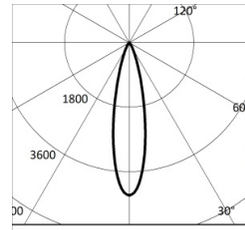
NARROW FLOOD / BLUE



-		H(m)	D(m)	Emax(lx)
-			24°	
Fixture Power	4W	1	0.42	89
Source Flux	21lm	2	0.84	22
Fixture Flux	21lm	3	1.25	10
Efficacy	5lm/W	4	1.67	6
Imax	89cd	5	2.09	4

TS1832 Imax=4248cd/klm

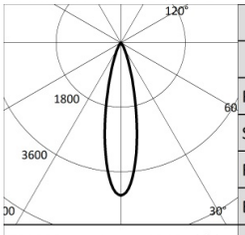
NARROW FLOOD / 6500K



6500K		H(m)	D(m)	Emax(lx)
-			24°	
Fixture Power	3W	1	0.42	650
Source Flux	153lm	2	0.84	162
Fixture Flux	153lm	3	1.25	72
Efficacy	45lm/W	4	1.67	41
Imax	650cd	5	2.09	26

TS1832 Imax=4248cd/klm

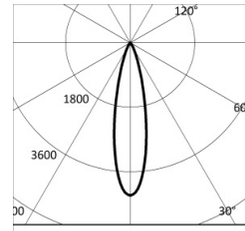
NARROW FLOOD / RGB



-		H(m)	D(m)	Emax(lx)
-			24°	
Fixture Power	10W	1	0.42	671
Source Flux	158lm	2	0.84	168
Fixture Flux	158lm	3	1.25	75
Efficacy	15lm/W	4	1.67	42
Imax	671cd	5	2.09	27

TS1832 Imax=4248cd/klm

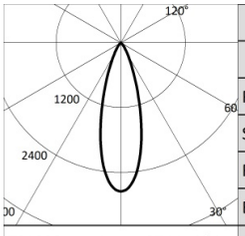
NARROW FLOOD / RGBW



-		H(m)	D(m)	Emax(lx)
-			24°	
Fixture Power	13W	1	0.42	1185
Source Flux	279lm	2	0.84	296
Fixture Flux	279lm	3	1.25	132
Efficacy	21lm/W	4	1.67	74
Imax	1185cd	5	2.09	47

TS1832 Imax=4248cd/klm

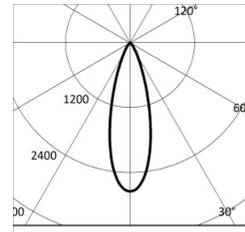
FLOOD / RED



-		H(m)	D(m)	Emax(lx)
-			31°	
Fixture Power	3W	1	0.55	143
Source Flux	52lm	2	1.10	36
Fixture Flux	52lm	3	1.65	16
Efficacy	16lm/W	4	2.20	9
Imax	143cd	5	2.75	6

TS1833 Imax=2744cd/klm

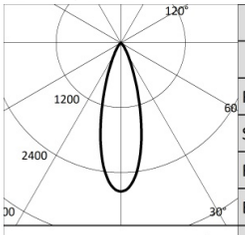
FLOOD / GREEN



-		H(m)	D(m)	Emax(lx)
-			31°	
Fixture Power	4W	1	0.55	277
Source Flux	101lm	2	1.10	69
Fixture Flux	101lm	3	1.65	31
Efficacy	25lm/W	4	2.20	17
Imax	277cd	5	2.75	11

TS1833 Imax=2744cd/klm

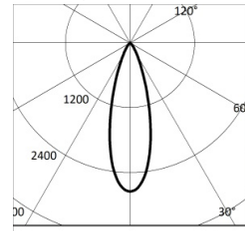
FLOOD / BLUE



-		H(m)	D(m)	Emax(lx)
-			31°	
Fixture Power	4W	1	0.55	58
Source Flux	21lm	2	1.10	14
Fixture Flux	21lm	3	1.65	6
Efficacy	5lm/W	4	2.20	4
Imax	58cd	5	2.75	2

TS1833 Imax=2744cd/klm

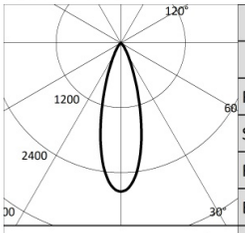
FLOOD / 6500K



6500K		H(m)	D(m)	Emax(lx)
-			31°	
Fixture Power	3W	1	0.55	414
Source Flux	151lm	2	1.10	104
Fixture Flux	151lm	3	1.65	46
Efficacy	44lm/W	4	2.20	26
Imax	414cd	5	2.75	17

TS1833 Imax=2744cd/klm

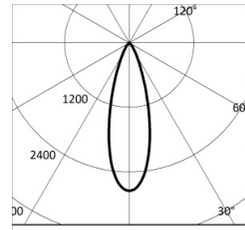
FLOOD / RGB



-		H(m)	D(m)	Emax(lx)
-			31°	
Fixture Power	10W	1	0.55	428
Source Flux	156lm	2	1.10	107
Fixture Flux	156lm	3	1.65	48
Efficacy	15lm/W	4	2.20	27
Imax	428cd	5	2.75	17

TS1833 Imax=2744cd/klm

FLOOD / RGBW



-		H(m)	D(m)	Emax(lx)
-			31°	
Fixture Power	13W	1	0.55	757
Source Flux	276lm	2	1.10	189
Fixture Flux	276lm	3	1.65	84
Efficacy	21lm/W	4	2.20	47
Imax	757cd	5	2.75	30

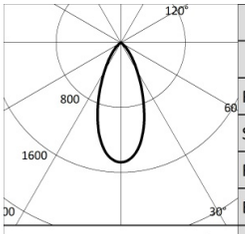
TS1833 Imax=2744cd/klm

LUCERA™ BOLLARD

PHOTOMETRY

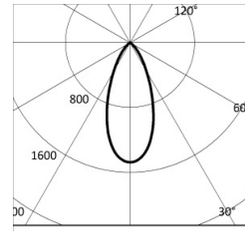
SHOWN AS INDIVIDUAL LUMINAIRE CUBE.

MEDIUM WIDE FLOOD / RED



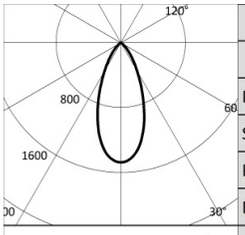
-		H(m)	D(m)	Emax(lx)
-			44°	
Fixture Power	3W	1	0.80	75
Source Flux	51lm	2	1.61	19
Fixture Flux	51lm	3	2.41	8
Efficacy	16lm/W	4	3.21	5
TS1834 Imax=1472cd/klm	Imax 75cd	5	4.02	3

MEDIUM WIDE FLOOD / GREEN



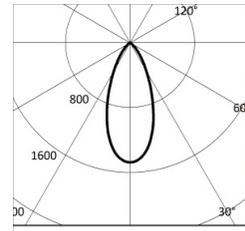
-		H(m)	D(m)	Emax(lx)
-			44°	
Fixture Power	4W	1	0.80	147
Source Flux	100lm	2	1.61	37
Fixture Flux	100lm	3	2.41	16
Efficacy	24lm/W	4	3.21	9
TS1834 Imax=1472cd/klm	Imax 147cd	5	4.02	6

MEDIUM WIDE FLOOD / BLUE



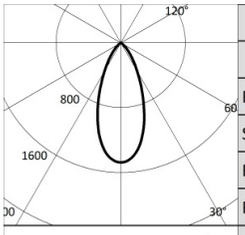
-		H(m)	D(m)	Emax(lx)
-			44°	
Fixture Power	4W	1	0.80	31
Source Flux	21lm	2	1.61	8
Fixture Flux	21lm	3	2.41	3
Efficacy	5lm/W	4	3.21	2
TS1834 Imax=1472cd/klm	Imax 31cd	5	4.02	1

MEDIUM WIDE FLOOD / 6500K



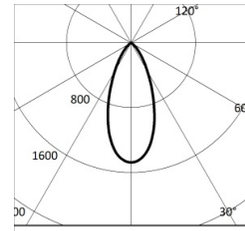
6500K		H(m)	D(m)	Emax(lx)
-			44°	
Fixture Power	3W	1	0.80	219
Source Flux	149lm	2	1.61	55
Fixture Flux	149lm	3	2.41	24
Efficacy	44lm/W	4	3.21	14
TS1834 Imax=1472cd/klm	Imax 219cd	5	4.02	9

MEDIUM WIDE FLOOD / RGBW



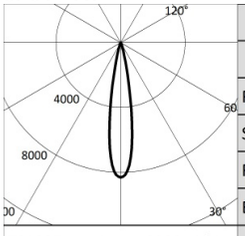
-		H(m)	D(m)	Emax(lx)
-			44°	
Fixture Power	10W	1	0.80	225
Source Flux	153lm	2	1.61	56
Fixture Flux	153lm	3	2.41	25
Efficacy	15lm/W	4	3.21	14
TS1834 Imax=1472cd/klm	Imax 225cd	5	4.02	9

MEDIUM WIDE FLOOD / RGBW

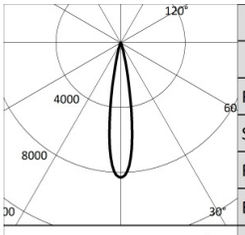


-		H(m)	D(m)	Emax(lx)
-			44°	
Fixture Power	13W	1	0.80	400
Source Flux	272lm	2	1.61	100
Fixture Flux	272lm	3	2.41	44
Efficacy	21lm/W	4	3.21	25
TS1834 Imax=1472cd/klm	Imax 400cd	5	4.02	16

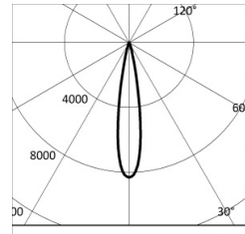
SPOT / TW



2700K		H(m)	D(m)	Emax(lx)
Ra80			18°	
Fixture Power	5W	1	0.32	2382
Source Flux	287lm	2	0.64	595
Fixture Flux	287lm	3	0.95	265
Efficacy	60lm/W	4	1.27	149
TS1827 Imax=8299cd/klm	Imax 2382cd	5	1.59	95



5000K		H(m)	D(m)	Emax(lx)
Ra80			18°	
Fixture Power	5W	1	0.32	3096
Source Flux	373lm	2	0.64	774
Fixture Flux	373lm	3	0.95	344
Efficacy	78lm/W	4	1.27	193
TS1827 Imax=8299cd/klm	Imax 3096cd	5	1.59	124



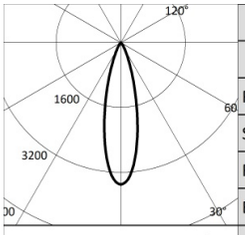
3850K		H(m)	D(m)	Emax(lx)
Ra80			18°	
Fixture Power	5W	1	0.32	3004
Source Flux	362lm	2	0.64	751
Fixture Flux	362lm	3	0.95	334
Efficacy	75lm/W	4	1.27	188
TS1827 Imax=8299cd/klm	Imax 3004cd	5	1.59	120

LUCERA™ BOLLARD

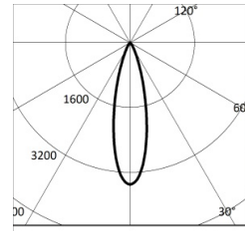
PHOTOMETRY

SHOWN AS INDIVIDUAL LUMINAIRE CUBE.

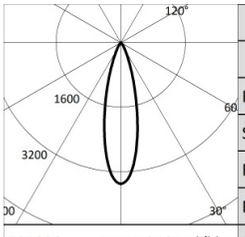
NARROW FLOOD / TW



2700K		H(m)	D(m)	Emax(lx)
Ra80			26°	
Fixture Power	5W	1	0.47	915
Source Flux	262lm	2	0.94	229
Fixture Flux	262lm	3	1.41	102
Efficacy	55lm/W	4	1.88	57
TS1828 Imax=3491cd/klm	Imax 915cd	5	2.35	37

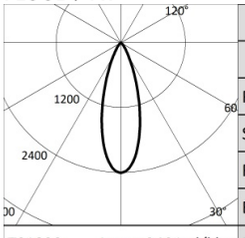


3850K		H(m)	D(m)	Emax(lx)
Ra80			26°	
Fixture Power	5W	1	0.47	1148
Source Flux	329lm	2	0.94	287
Fixture Flux	329lm	3	1.41	128
Efficacy	69lm/W	4	1.88	72
TS1828 Imax=3491cd/klm	Imax 1148cd	5	2.35	46

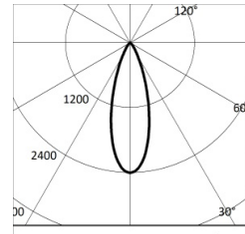


5000K		H(m)	D(m)	Emax(lx)
Ra80			26°	
Fixture Power	5W	1	0.47	1187
Source Flux	340lm	2	0.94	297
Fixture Flux	340lm	3	1.41	132
Efficacy	71lm/W	4	1.88	74
TS1828 Imax=3491cd/klm	Imax 1187cd	5	2.35	47

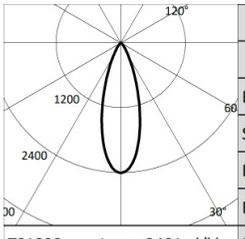
FLOOD / TW



2700K		H(m)	D(m)	Emax(lx)
Ra80			33°	
Fixture Power	5W	1	0.59	610
Source Flux	254lm	2	1.19	152
Fixture Flux	254lm	3	1.78	68
Efficacy	53lm/W	4	2.38	38
TS1829 Imax=2401cd/klm	Imax 610cd	5	2.97	24

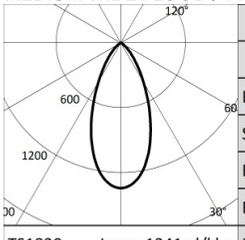


3850K		H(m)	D(m)	Emax(lx)
Ra80			33°	
Fixture Power	5W	1	0.59	768
Source Flux	320lm	2	1.19	192
Fixture Flux	320lm	3	1.78	85
Efficacy	67lm/W	4	2.38	48
TS1829 Imax=2401cd/klm	Imax 768cd	5	2.97	31

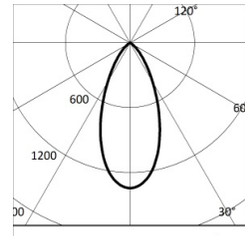


5000K		H(m)	D(m)	Emax(lx)
Ra80			33°	
Fixture Power	5W	1	0.59	792
Source Flux	330lm	2	1.19	198
Fixture Flux	330lm	3	1.78	88
Efficacy	69lm/W	4	2.38	50
TS1829 Imax=2401cd/klm	Imax 792cd	5	2.97	32

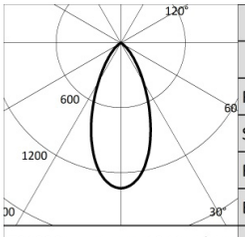
MEDIUM WIDE FLOOD / TW



2700K		H(m)	D(m)	Emax(lx)
Ra80			46°	
Fixture Power	5W	1	0.86	334
Source Flux	249lm	2	1.71	83
Fixture Flux	249lm	3	2.57	37
Efficacy	52lm/W	4	3.42	21
TS1830 Imax=1341cd/klm	Imax 334cd	5	4.28	13



3850K		H(m)	D(m)	Emax(lx)
Ra80			46°	
Fixture Power	5W	1	0.86	422
Source Flux	315lm	2	1.71	106
Fixture Flux	315lm	3	2.57	47
Efficacy	66lm/W	4	3.42	26
TS1830 Imax=1341cd/klm	Imax 422cd	5	4.28	17



5000K		H(m)	D(m)	Emax(lx)
Ra80			46°	
Fixture Power	5W	1	0.86	433
Source Flux	323lm	2	1.71	108
Fixture Flux	323lm	3	2.57	48
Efficacy	67lm/W	4	3.42	27
TS1830 Imax=1341cd/klm	Imax 433cd	5	4.28	17