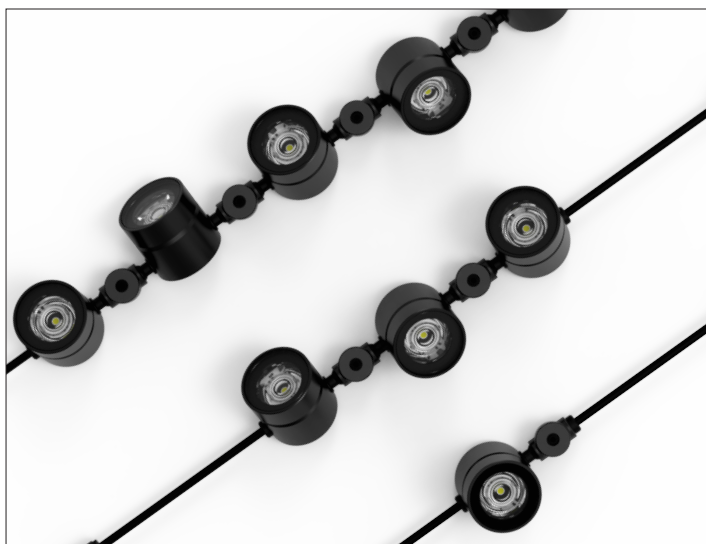
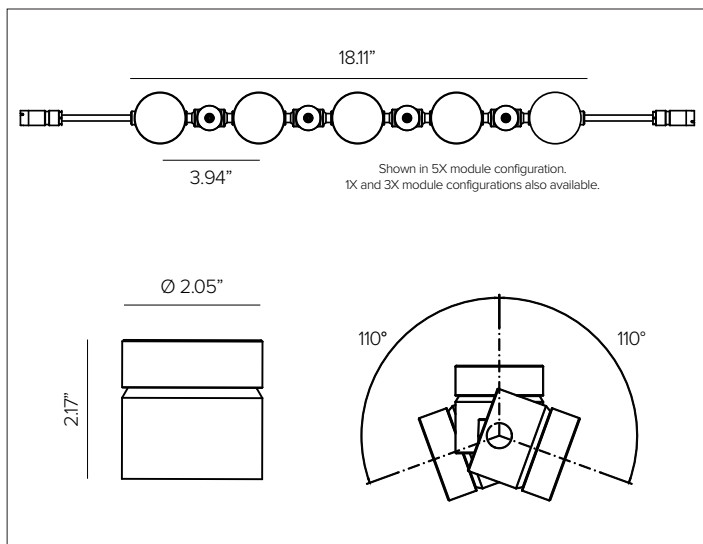


CATIRPEL

Modular Flexible Outdoor Projector System



Shown in Black Anodized finish.



CONCEPT

CATIRPEL is a flexible modular outdoor system designed for landscape and architectural applications that require great installation flexibility and accurate light control. Designed to enhance nature, CATIRPEL is ideal for irregular curved or undulating surfaces.

MECHANICAL CHARACTERISTICS

Housing	2.05" Dia x 2.17" H
Materials	CNC anodized 20μ aluminum body and joint connections.
Finish	Textured finish. <ul style="list-style-type: none"> ● Ferrite Dark Grey ● Heritage Brown ● Bronze ● Black Anodized ● White ● Sandstone Grey Custom RAL
Power Connection	Pre-cabled with IN/OUT IP68 connections for plug-and-play connectivity to other light modules and remote power supply.
Functionality	Each luminaire module utilizes mechanical aim locking for individual adjustment of -/+110° on the vertical surface with aim lock set screw with an angle between the Modules that reaches 45°. Luminaire system is specifically designed for mounting in irregular, curved, non linear or linear applications with a minimum of 7.5" curve diameter.
Mounting	Fixture can be installed directly to mounting surface or used with optional mounting installation accessories for installations in trees, landscape, surface installations.
Weight	0.6lbs per module
Protection	IP67
Impact	IK06

CERTIFICATIONS

cULus Class 2 Wet Location Listed.
 Tested in accordance with LM-79-08.
 Compliant for California installations.
 RoHS3 EU 215/863

WARRANTY

5 year limited warranty.
 * Fixture body complete with marine grade cathaphoresis 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.

SUSTAINABILITY

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

ELECTRICAL CHARACTERISTICS

Power Supply	Remote Class 2 120V-277V AC power supply required, ordered separately.
Wattage	3W per module (NSP only) / 6W per module
Voltage	24V DC

SOURCE

High-Efficiency LED. Chip on Board for SP / FL / MWFL / GZ. Emitter for NSP optic.

TM30	CCT (Nominal)	CRI	Rf	Rg	R9	DUV	SDCM
SP / FL / MWFL / Graze Optics	2400K	90	93	100	50	0.0001	2
	2700K	90	92	99	54	0.0001	2
	3000K	90	92	101	62	0.0001	2
	3500K	90	91	100	57	0.0005	2
	4000K	90	90	98	57	0.001	2
NSP Optic Only	2700K	90	94	99	67	0.0035	2
	3000K	90	94	99	68	0.0045	2
	3500K	90	94	99	74	0.0044	2
	4000K	90	93	101	78	0.0021	2

OPTIC

Optical System Equipped with Lenses

Beam	NSP 7°	SP 19°	FL 34°	MWFL 48°	GZ 19°x57°
Delivered Lumens	2400K -	383Lm	347Lm	337Lm	340Lm
	2700K 173Lm	416Lm	376Lm	366Lm	369Lm
	3000K 173Lm	435Lm	393Lm	382Lm	386Lm
	4000K 188Lm	465Lm	421Lm	409Lm	413Lm
Efficacy	84Lm/W max. Refer to photometric graphs for specific values.				
Lifetime	L88/B10 >30,000hrs at max TA +25°C L83/B10 >50,000hrs at max TA +25°C L75/B10 >80,000hrs at max TA +25°C L71/B10 >100,000hrs at max TA +25°C				

Photobiological Classification Low risk safety RG1

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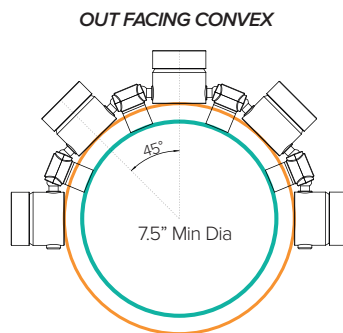
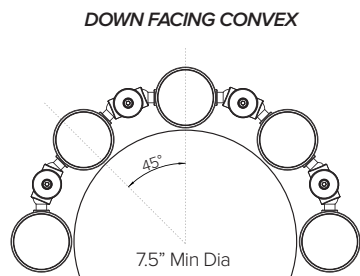
SPECIFICATION INFORMATION



1 - PRODUCT CODE	2 - DRIVER	3 - FINISH	4 - OPTIC	5 - WATTAGE	6 - KELVIN	7 - CONNECTION TYPE
CAT — CATIRPEL	RP — Remote Power	FE — Ferrite Dark Grey HB — Heritage Brown BZ — Bronze WT — White BA — Black Anodized SG — Sandstone Grey RAL — Custom RAL	NS ^B — NSP 7° SP — SP 19° FL — FL 34° MW — MWFL 48° GR — Graze 19°x57°	L1 — 3W L2 — 6W	27 — 2700K 30 — 3000K 35 — 3500K 40 — 4000K 24 ^B — 2400K 27 — 2700K 30 — 3000K 35 — 3500K 40 — 4000K	A — 1x Center B — 1x Lead/End/Solo C — 3x Center D — 3x Lead/End/Solo E — 5x Center F — 5x Lead/End/Solo
8 - OPTIONAL	9 - WIRING ACCESSORIES	10 - POWER SUPPLY	11 - OPTICAL ACCESSORIES	12 - INSTALLATION	12 - INSTALLATION: TREE ACCESSORIES	
LV — Integral Honeycomb Louver	Lead Connection Cable <i>See section for details</i> Jumper Connection Cable <i>See section for details</i> T Branching <i>See section for details</i>	Power Supply <i>See section for details</i>	Symmetric Snoot <i>See section for details</i> Asymmetric Snoot <i>See section for details</i> Cross Baffle <i>See section for details</i> Honeycomb Anti-Glare Louver <i>See section for details</i>	Surface Bracket <i>See section for details</i> Earth Spike <i>See section for details</i> Spacer <i>See section for details</i>	Tree Strap <i>See section for details</i> Tree Bracket <i>See section for details</i> Connection Box <i>See section for details</i> Mesh Wire Protection <i>See section for details</i>	

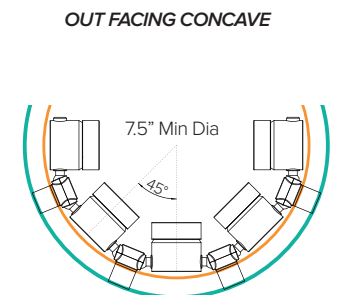
^B 2400K not available with NSP optic.

ORIENTATION EXAMPLES



WITH SPACER ACCESSORY A022
UP TO A MINIMUM DIAMETER OF 7.5"

WITHOUT SPACER ACCESSORY UP
TO A MINIMUM DIAMETER OF 8.85"

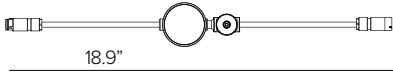


WITH SPACER ACCESSORY A022
UP TO A MINIMUM DIAMETER OF 12.6"

WITHOUT SPACER ACCESSORY UP
TO A MINIMUM DIAMETER OF 11.03"

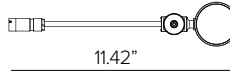
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7 – CONNECTION TYPE (REQUIRED)



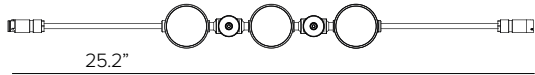
1x (single module) with IN/OUT connections for center configurations.

Connection Type **A**



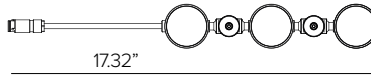
1x (single module) with OUT connection for Lead / End / Solo configurations.

Connection Type **B**



3x (triple module) with IN/OUT connections for center configurations.

Connection Type **C**



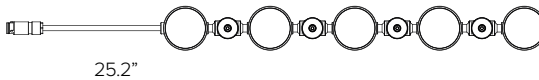
3x (triple module) with OUT connection for Lead / End / Solo configurations.

Connection Type **D**



5x (quintet module) with IN/OUT connections for center configurations.

Connection Type **E**



5x (quintet module) with OUT connection for Lead / End / Solo configurations.

Connection Type **F**

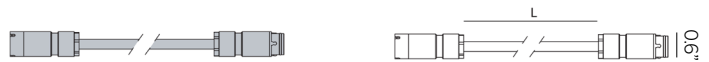
9 – WIRING ACCESSORIES (REQUIRED)



Lead wire connection cable with Female connector.

Length 10ft 25ft 50ft

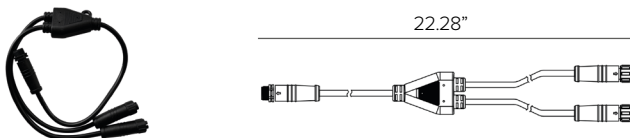
Part No. **1USA03010** **1USA03025** **1USA03050**



Jumper connection cable with Male/Female connectors. (OPTIONAL)

Length 3.28ft (1M) 6.56ft (2M) 9.84ft (3M)

Part No. **A026** **A027** **A028**



T-Branch electrical connector. (OPTIONAL)

Part No. **A024**



End cap connector. (OPTIONAL)

Part No. **1USA029**

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10 - POWER SUPPLY (REQUIRED)

ENCLOSURE								
Part No.	Wattage	Control	Dim Range	Rating	In / Out Voltage	Certification	Dimensions (Enclosure)	Description
DMLE301242UD	30W	MLV / ELV / 0-10V / TRIAC	MLV <10% / ELV <10% / 0-10V <5%	NEMA3R	120-277V / 24V	UL Class 2	4.47" X 6.79" X 1.38"	EMCOD MLE-UD electronic driver with wiring compartment.
DELV30124DJBX	30W	0-10V	1%	IP65	120-277V / 24V	UL Class 2	12.1" X 2.4" X 1.4"	Magnitude SOLIDrive electronic driver with built in junction box.
DMLE601242UD	60W	MLV / ELV / 0-10V / TRIAC	MLV <10% / ELV <10% / 0-10V <5%	NEMA3R	120-277V / 24V	UL Class 2	4.47" X 6.79" X 1.38"	EMCOD MLE-UD electronic driver with wiring compartment.
DELV60124DJBX	60W	0-10V	1%	IP65	120-277V / 24V	UL Class 2	12.1" X 2.4" X 1.4"	Magnitude SOLIDrive electronic driver with built in junction box.
DMLE961242UD	96W	MLV / ELV / 0-10V / TRIAC	MLV <10% / ELV <10% / 0-10V <5%	NEMA3R	120-277V / 24V	UL Class 2	5.16" X 7.73" X 1.54"	EMCOD MLE-UD electronic driver with wiring compartment.
DELV96124DJBX	96W	0-10V	1%	IP65	120-277V / 24V	UL Class 2	12.1" X 2.4" X 1.4"	Magnitude SOLIDrive electronic driver with built in junction box.
DMLE1922242UD	2X96W	MLV / ELV / 0-10V / TRIAC	MLV <10% / ELV <10% / 0-10V <5%	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	MLV <10% / ELV <10% / 0-10V <5%	NEMA3R	120-277V / 24V	UL Class 2	5.04" X 10.94" X 1.81"	EMCOD MLE-UD electronic driver with wiring compartment.

STANDALONE								
Part No.	Wattage	Control	Dim Range	Rating	In / Out Voltage	Certification	Dimensions (Standalone)	Description
DELV30124D	30W	0-10V	1%	IP65	120-277V / 24V	UR Class 2	7.5" X 2.4" X 1.4"	Magnitude SOLIDrive electronic standalone driver. UL listed enclosure provided by others.
DELV60124D	60W	0-10V	1%	IP65	120-277V / 24V	UR Class 2	7.5" X 2.4" X 1.4"	Magnitude SOLIDrive electronic standalone driver. UL listed enclosure provided by others.
DELV96124D	96W	0-10V	1%	IP65	120-277V / 24V	UR Class 2	7.5" X 2.4" X 1.4"	Magnitude SOLIDrive electronic standalone driver. UL listed enclosure provided by others.

MAX CABLE DISTANCE			
Single Fixture Wattage	Fixture Wattages	Max No. Fixtures	Max Distance from Driver to End Fixture (18gu)
6W	30W	4	75ft
	60W	8	37ft
	90W	12	25ft
	96W	12	25ft
3W	30W	8	75ft
	60W	16	37ft
	90W	24	25ft
	96W	25	25ft

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11 – OPTICAL ACCESSORIES (OPTIONAL)



CATIRPEL anti-glare symmetric snoot.

Part No. **A016** (*)



CATIRPEL anti-glare asymmetric snoot.

Part No. **A017** (*)



CATIRPEL anti-glare cross blade baffle.

Part No. **A018** (*)



CATIRPEL holder ring.

Part No. **A033** (*)



CATIRPEL Blade of light filter.

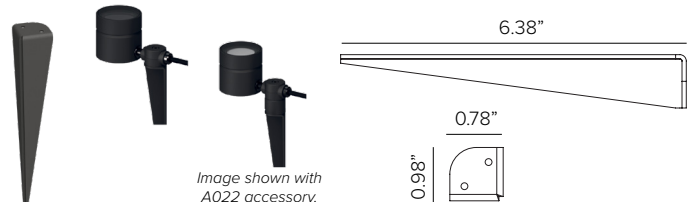
Part No. **A034**

12 – INSTALLATION (REQUIRED)



CATIRPEL mounting bracket for surface installations. *Compatible with A022.*

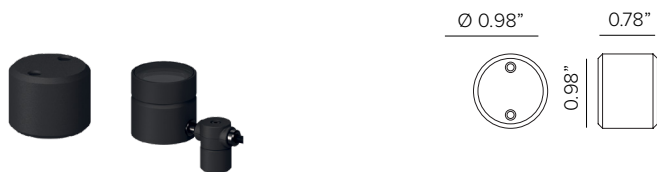
Part No. **A019** (*)



CATIRPEL earth Spike. *Compatible with A022.*

Part No. **A021** (*)

12 – INSTALLATION (OPTIONAL)



CATIRPEL spacer. Required for individual fixture aiming. *Compatible with A019 and A021 installations.*

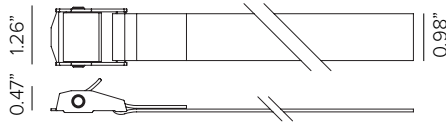
Part No. **A022** (*)

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

*Add suffix to end of number to identify finish (EX. A016BA)

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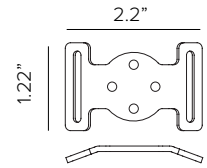
12 – INSTALLATION: TREE MOUNTING



Tree strap, 1ea. **(REQUIRED)**

Finish ● Black

Part No. **A023**



CATIRPEL tree fixture mount bracket comprised of powder coated stainless steel for use with tree strap. **Compatible with A022. (REQUIRED)**

Part No. **A020 (*)**



Tree Strap Connection Box. Painted aluminum UL listed 9in³ j-box with 3ea 3/8" cable glands and 1ea 1/2" cable gland. Mounting bracket for tree strap included. Used to connect multiple 24V DC low voltage cables for one continuous cable connection down the tree to remote driver, additional cable provided by others. **Can be used for up to 3 fixture connections per tree strap. (OPTIONAL)**

Finish ● Ferrite Dark Grey ● Bronze

Part No. **TTCB0103FG TTCB0103BZ**



Mesh wire protection cover sleeve comprised of braided polyethylene terephthalate (PET) mono-filament webbing resistant to chemical degradation, UV radiation and abrasion. 3/8" SJO Cord Sleeve, available per foot. **(OPTIONAL)**

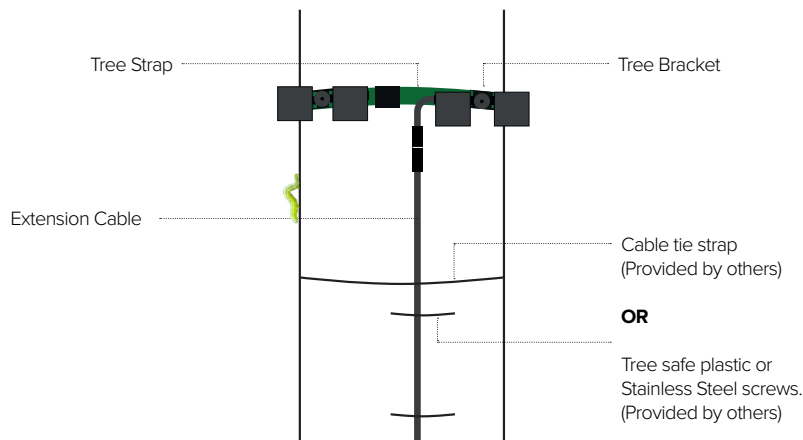
Finish ● Carbon Grey ● Brown ● Forest Green

Part No. **TTSJS01 TTSJS102 TTSJS103**

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

***Add suffix to end of number to identify finish (EX. A016BA)**

WIRING CONFIGURATION

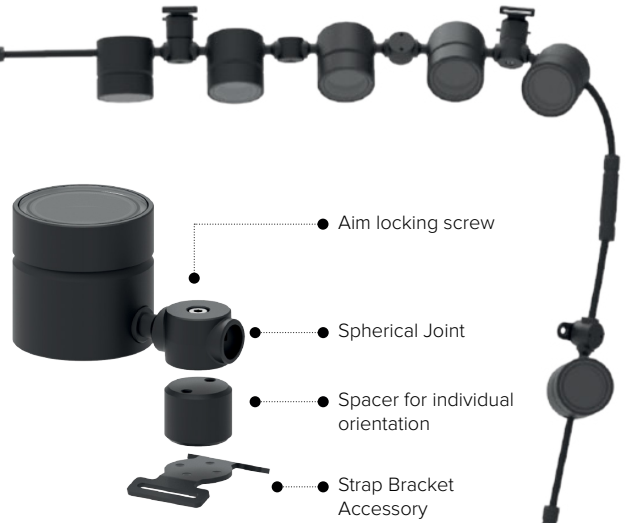


Note: Suggested to adjust the strap every 6 months in order to prevent tree damage.

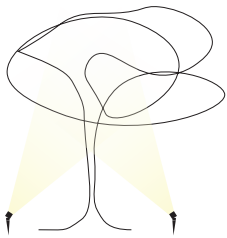
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INSTALLATION EXAMPLES

LANDSCAPE – TREE STRAP INSTALLATION



LANDSCAPE – TREE LIGHTING EFFECTS



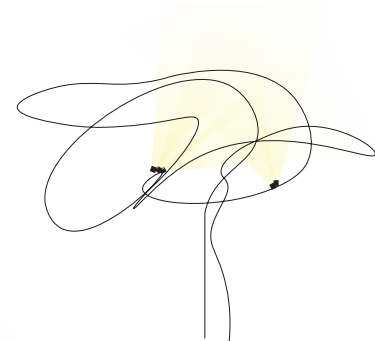
UPLIGHTING

Fixtures on the ground aimed to illuminate the tree, using the earth spike accessory



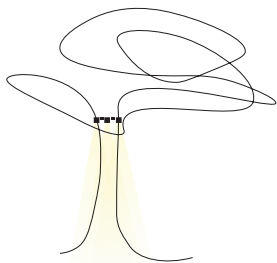
DOWN LIGHTING

The tree branches become a mounting support for the adjustable projectors. Using the spacer, the tree bracket and the tree strap accessory it is possible to install the fixture everywhere on the tree and aim it by hand



INTERNAL GLOW

Illuminating top parts of the tree that the fixture installed on the base cannot reach, using the tree bracket and the tree strap accessory



GRAZING (DOWN LIGHT)

The fixtures can be installed around the trunk and aimed along the trunk surface to highlight the texture, thanks to the tree bracket and the tree strap accessory



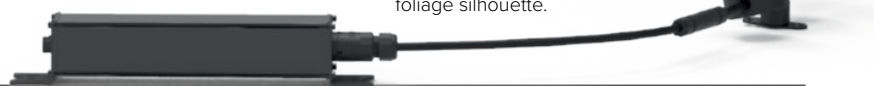
GRAZING (UPLIGHT)

Fixtures on the ground aimed to illuminate the tree, using the earth spike accessory to highlight the texture.



MOON LIGHTING

Fixtures installed on the middle/top branches and aimed to the ground to obtain particular shadows effect thanks to the branches and foliage silhouette.



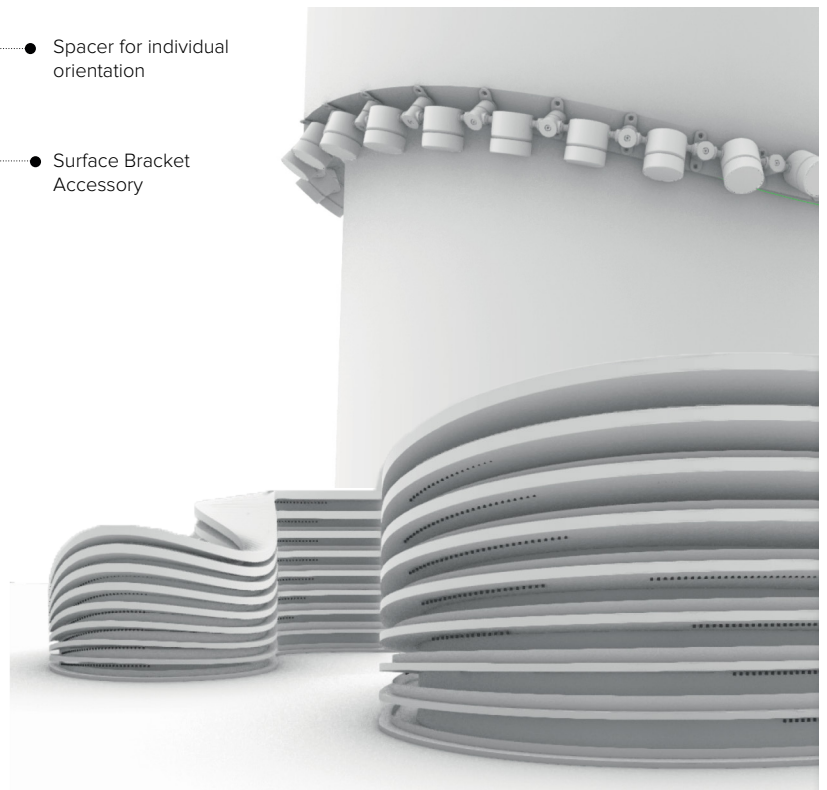
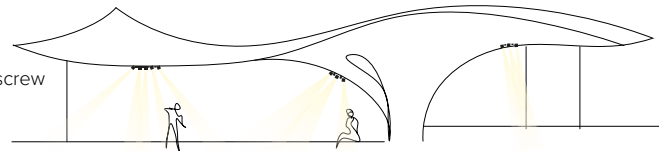
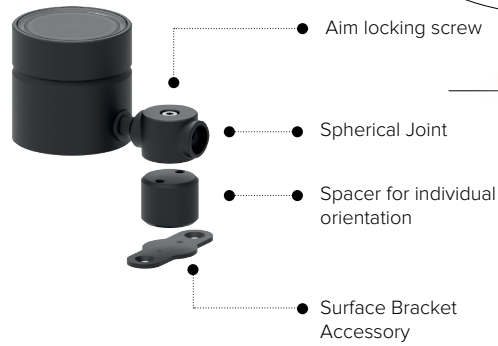
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INSTALLATION EXAMPLES

LANDSCAPE – GROUND INSTALLATION



ARCHITECTURE – CURVED / NON PLANAR SURFACE INSTALLATION



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PHOTOMETRY

NARROW SPOT

	2700K	H(m)	D(m)	Emax(lx)		
	Ra90		7°			
	Fixture Power	3W	1	0.12	5553	
	Source Flux	230lm	2	0.24	1388	
	Fixture Flux	173lm	3	0.36	617	
	Efficacy	58lm/W	4	0.48	347	
TS1843	I _{max} =24142cd/klm	I _{max}	5553cd	5	0.60	222

	3000K	H(m)	D(m)	Emax(lx)		
	Ra90		7°			
	Fixture Power	3W	1	0.12	5553	
	Source Flux	230lm	2	0.24	1388	
	Fixture Flux	173lm	3	0.36	617	
	Efficacy	58lm/W	4	0.48	347	
TS1843	I _{max} =24142cd/klm	I _{max}	5553cd	5	0.60	222

	4000K	H(m)	D(m)	Emax(lx)		
	Ra90		7°			
	Fixture Power	3W	1	0.12	6035	
	Source Flux	250lm	2	0.24	1509	
	Fixture Flux	188lm	3	0.36	671	
	Efficacy	63lm/W	4	0.48	377	
TS1843	I _{max} =24142cd/klm	I _{max}	6035cd	5	0.60	241

SPOT

	2400K	H(m)	D(m)	Emax(lx)		
	Ra90		19°			
	Fixture Power	6W	1	0.33	2380	
	Source Flux	508lm	2	0.65	595	
	Fixture Flux	383lm	3	0.98	264	
	Efficacy	70lm/W	4	1.31	149	
TS1844	I _{max} =4685cd/klm	I _{max}	2380cd	5	1.64	95

	2700K	H(m)	D(m)	Emax(lx)		
	Ra90		19°			
	Fixture Power	6W	1	0.33	2581	
	Source Flux	551lm	2	0.65	645	
	Fixture Flux	416lm	3	0.98	287	
	Efficacy	76lm/W	4	1.31	161	
TS1844	I _{max} =4685cd/klm	I _{max}	2581cd	5	1.64	103

	3000K	H(m)	D(m)	Emax(lx)		
	Ra90		19°			
	Fixture Power	6W	1	0.33	2698	
	Source Flux	576lm	2	0.65	675	
	Fixture Flux	435lm	3	0.98	300	
	Efficacy	79lm/W	4	1.31	169	
TS1844	I _{max} =4685cd/klm	I _{max}	2698cd	5	1.64	108

	4000K	H(m)	D(m)	Emax(lx)		
	Ra90		19°			
	Fixture Power	6W	1	0.33	2886	
	Source Flux	616lm	2	0.65	721	
	Fixture Flux	465lm	3	0.98	321	
	Efficacy	85lm/W	4	1.31	180	
TS1844	I _{max} =4685cd/klm	I _{max}	2886cd	5	1.64	115

FLOOD

	2400K	H(m)	D(m)	Emax(lx)		
	Ra90		34°			
	Fixture Power	6W	1	0.61	750	
	Source Flux	508lm	2	1.23	188	
	Fixture Flux	347lm	3	1.84	83	
	Efficacy	63lm/W	4	2.46	47	
TS1845	I _{max} =1477cd/klm	I _{max}	750cd	5	3.07	30

	2700K	H(m)	D(m)	Emax(lx)		
	Ra90		34°			
	Fixture Power	6W	1	0.61	814	
	Source Flux	551lm	2	1.23	203	
	Fixture Flux	376lm	3	1.84	90	
	Efficacy	68lm/W	4	2.46	51	
TS1845	I _{max} =1477cd/klm	I _{max}	814cd	5	3.07	33

	3000K	H(m)	D(m)	Emax(lx)		
	Ra90		34°			
	Fixture Power	6W	1	0.61	851	
	Source Flux	576lm	2	1.23	213	
	Fixture Flux	393lm	3	1.84	95	
	Efficacy	72lm/W	4	2.46	53	
TS1845	I _{max} =1477cd/klm	I _{max}	851cd	5	3.07	34

	4000K	H(m)	D(m)	Emax(lx)		
	Ra90		34°			
	Fixture Power	6W	1	0.61	910	
	Source Flux	616lm	2	1.23	227	
	Fixture Flux	421lm	3	1.84	101	
	Efficacy	77lm/W	4	2.46	57	
TS1845	I _{max} =1477cd/klm	I _{max}	910cd	5	3.07	36

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PHOTOMETRY

MEDIUM WIDE FLOOD



2400K		H(m)	D(m)	E _{max} (lx)
Ra90			48°	
Fixture Power	6W	1	0.89	413
Source Flux	508lm	2	1.77	103
Fixture Flux	337lm	3	2.66	46
Efficacy	61lm/W	4	3.54	26
TS1846	I _{max} =814cd/klm	I _{max}	413cd	5 4.43 17



2700K		H(m)	D(m)	E _{max} (lx)
Ra90			48°	
Fixture Power	6W	1	0.89	448
Source Flux	551lm	2	1.77	112
Fixture Flux	366lm	3	2.66	50
Efficacy	67lm/W	4	3.54	28
TS1846	I _{max} =814cd/klm	I _{max}	448cd	5 4.43 18



3000K		H(m)	D(m)	E _{max} (lx)
Ra90			48°	
Fixture Power	6W	1	0.89	469
Source Flux	576lm	2	1.77	117
Fixture Flux	382lm	3	2.66	52
Efficacy	70lm/W	4	3.54	29
TS1846	I _{max} =814cd/klm	I _{max}	469cd	5 4.43 19



4000K		H(m)	D(m)	E _{max} (lx)
Ra90			48°	
Fixture Power	6W	1	0.89	501
Source Flux	616lm	2	1.77	125
Fixture Flux	409lm	3	2.66	56
Efficacy	74lm/W	4	3.54	31
TS1846	I _{max} =814cd/klm	I _{max}	501cd	5 4.43 20

GRAZE



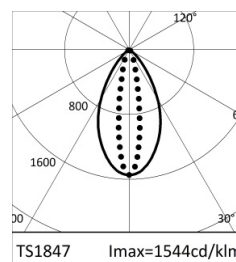
2400K		H(m)	D1(m)	D2(m)	E _{max} (lx)
Ra90			57°	19°	
Fixture Power	6W	1	1.08	0.33	784
Source Flux	508lm	2	2.15	0.67	196
Fixture Flux	340lm	3	3.23	1.00	87
Efficacy	62lm/W	4	4.31	1.34	49
TS1847	I _{max} =1544cd/klm	I _{max}	784cd	5 5.38 1.67	31



2700K		H(m)	D1(m)	D2(m)	E _{max} (lx)
Ra90			57°	19°	
Fixture Power	6W	1	1.08	0.33	851
Source Flux	551lm	2	2.15	0.67	213
Fixture Flux	369lm	3	3.23	1.00	95
Efficacy	67lm/W	4	4.31	1.34	53
TS1847	I _{max} =1544cd/klm	I _{max}	851cd	5 5.38 1.67	34



3000K		H(m)	D1(m)	D2(m)	E _{max} (lx)
Ra90			57°	19°	
Fixture Power	6W	1	1.08	0.33	889
Source Flux	576lm	2	2.15	0.67	222
Fixture Flux	386lm	3	3.23	1.00	99
Efficacy	70lm/W	4	4.31	1.34	56
TS1847	I _{max} =1544cd/klm	I _{max}	889cd	5 5.38 1.67	36



4000K		H(m)	D1(m)	D2(m)	E _{max} (lx)
Ra90			57°	19°	
Fixture Power	6W	1	1.08	0.33	951
Source Flux	616lm	2	2.15	0.67	238
Fixture Flux	413lm	3	3.23	1.00	106
Efficacy	75lm/W	4	4.31	1.34	59
TS1847	I _{max} =1544cd/klm	I _{max}	951cd	5 5.38 1.67	38