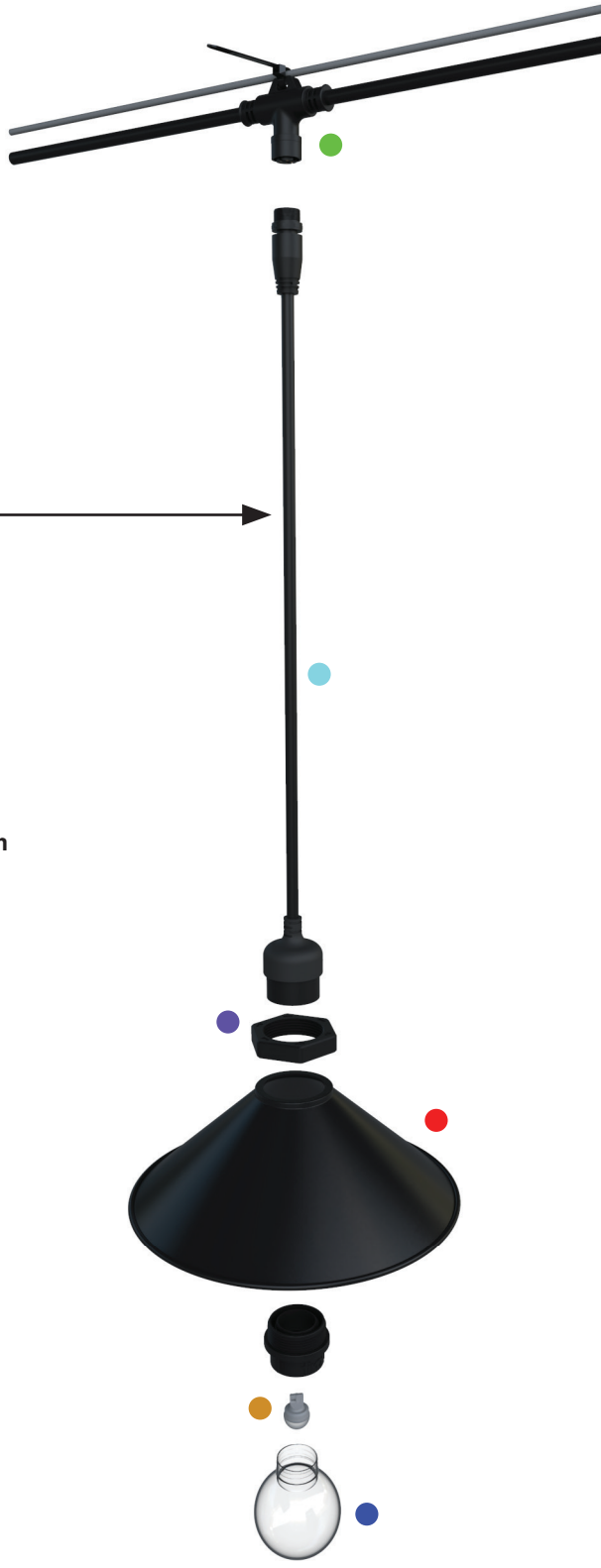
tivoli

LITESPHERE DROP2.0

Litesphere Drop 2.0 String Light- How it works

A simple 3 step order process for cord spacing, drop length, light engine with globe, and power lead length to create a unique experience for personal or public space.



1

Choose Your Cord

2

Choose Your Drop Length, LED Color & Globe

3

Choose Your Power Lead Length

CONNECTION
IP65 Outdoor 2 pin twist connector for solid, reliable performance.

DROP
Tivoli's New DROP system gives you standard 6 length options and a custom offering for additional lengths.

SHADE ADAPTER - optional
Tivoli's Patent Pending universal shade adapter allows you to mix and match any shade with our line of String Light.

LIGHT SHADE - optional
Multiple light shades to choose from to add form and function to your design. Dark Sky compliance.

LIGHT ENGINE
3 light intensities to choose from up to 75 lumens. Available in Standard, High Output and Very High Output. Tivoli's VHO wedge based LED is 20 times brighter than our standard output offering. Built with a thermal plastic base for optimal heat dissipation

GLOBES
12 globe options to finish your design and achieve a personal look.

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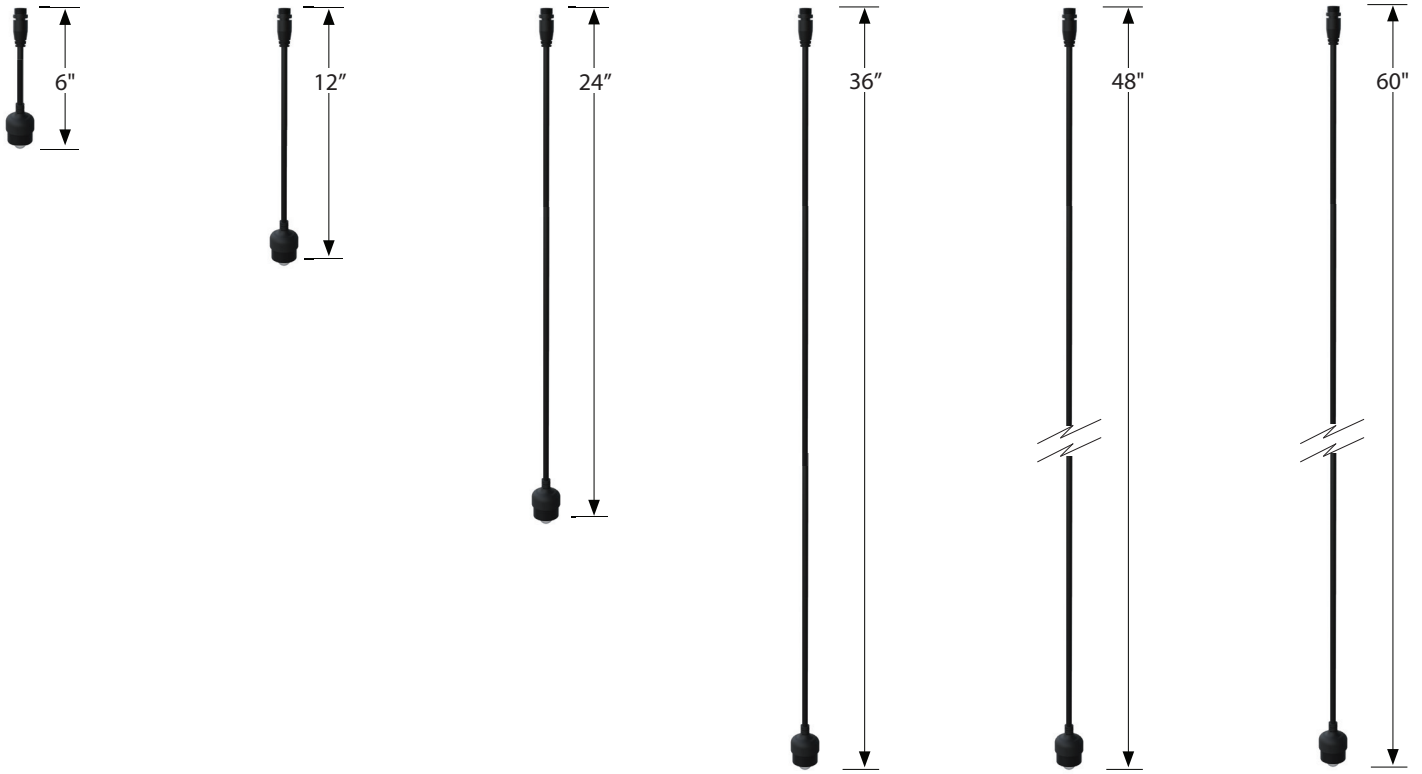
Project: _____ TYPE: _____

- Robust specification-grade strand with factory molded spacing for consistent quality from start to finish
- Available DarkSky option with added light shade
- 12V DC Low voltage system for long runs
- Shatter proof globe
- IP65
- cULus
- 5 Year warranty

Dimensions



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1 - Strand Order Guide

PRODUCT CODE		PROFILE		STRAND COLOR		SPACING
LSD2	-	**STRND**	-		-	
LSD2 = Litesphere DROP 2.0		**STRND** = Strand		**BK** = Black **WH** = White*		**24** = 24" OC **36** = 36" OC **48** = 48" OC

*Contact Factory for MOQ and lead time

2 - Drop Order Guide - Standard Globes

Note: All DROPS are pre-built with choice of LED color and globe, ready to install.

PRODUCT CODE		PROFILE		DROP COLOR		LED TYPE		CCT COLOR		GLOBE		DROP LENGTH
LSD2	-	**DRP**	-		-		-		-		-	
LSD2 = Litesphere Drop 2.0		**DRP** = Drop		**BK** = Black **WH** = White**		**S** = Standard Output **H** = High Output **V** = Very High Output		**19** = 1900K **27** = 2700K **30** = 3000K **35** = 3500K **40** = 4000K **50** = 5000K* **AM** = Amber* **RD** = Red* **GN** = Green* **YL** = Yellow* **RB** = Royal Blue* **TS** = Turtle Safe*		**C** = Clear **F** = Frosted **O** = Opal **ANGPET** = Angela **KATPET** = Katie **GINPET** = Gina		**6** = 6" **12** = 12" **24** = 24" **36** = 36" **48** = 48" **60** = 60"

*Available in VHO LED only

**For drop color white, CCT color RB and TS, contact Factory for MOQ and lead time

2 - Drop Order Guide - Color Globes

Note: All DROPS are pre-built with choice of LED color and globe, ready to install.

PRODUCT CODE		PROFILE		DROP COLOR		LED TYPE		CCT COLOR		GLOBE		DROP LENGTH
LSD2	-	**DRP**	-		-		-		-		-	
LSD2 = Litesphere Drop 2.0		**DRP** = Drop		**BK** = Black **WH** = White**		**S** = Standard Output **H** = High Output **V** = Very High Output		**35** = 3500K*		**Y** = Yellow **R** = Red **N** = Orange **G** = Green **B** = Blue **P** = Purple **Z** = Varied Color		**6** = 6" **12** = 12" **24** = 24" **36** = 36" **48** = 48" **60** = 60"

*3500K CCT is recommended for best color result when choosing colored globe

**For drop color white contact Factory for MOQ and lead time

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3 - Power Lead Order Guide

LSL2-XEP-X-XX
X = **B** (black), **W*** (white)
XX = **05** (5'), **10** (10'), **15** (15'), **20** (20'), **25** (25')
For custom length consult factory

Figure A - All Litesphere DROP 2.0 are evenly cut between globes according to specified spacing.
Figure B - Power leads are added to the end cut, extending the total length of the power lead.

Figure A

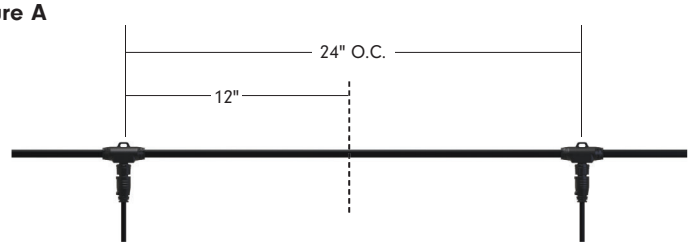
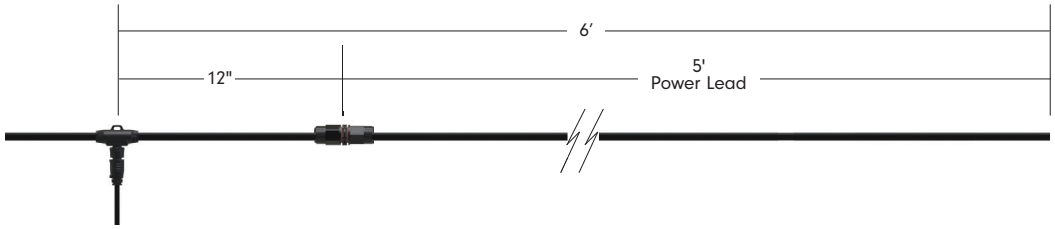


Figure B



*Contact Factory for MOQ and lead time

Jumper Order Guide (Optional)

LSL2-JUMPER-X-XX
X = **B** (black), **W*** (white)
XX = **05** (5'), **10** (10')
For custom length, consult factory

Figure A - All Litesphere DROP 2.0 are evenly cut between globes according to specified spacing.
Figure B - Jumpers are added between the cuts, extending the total length of wire between globes.

Figure A

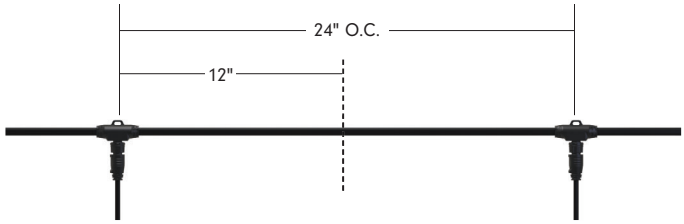
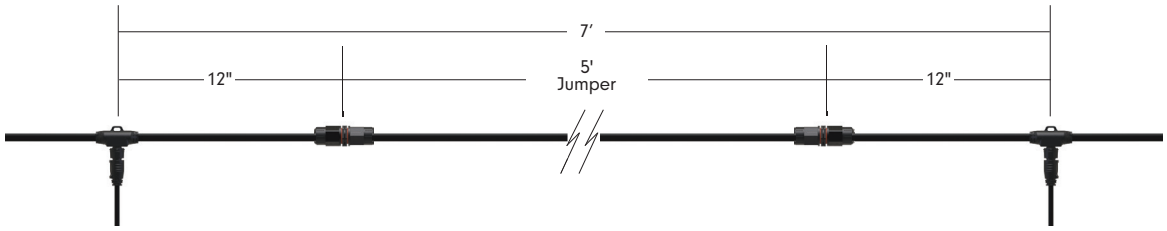


Figure B



*Contact Factory for MOQ and lead time

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Output

S - Standard Output			
Spacing	24"	36"	48"
Man Run	250'	275'	275'
Watts/ft	0.08	0.05	0.04
CRI	82.9		

H - High Output			
Spacing	24"	36"	48"
Max Run	150'	175'	200'
Watts/ft	0.18	0.12	0.09
CRI	82		

V - Very High Output			
Spacing	24"	36"	48"
Max Run	80'	90	100'
Watts/ft	0.42	0.28	0.21
CRI	82.2		

Opal Globe

S - Standard Output (3000K)			
Spacing	24"	36"	48"
Lumens/ft	2.05	1.3	1.0

H - High Output (3000K)			
Spacing	24"	36"	48"
Lumens/ft	5.3	3.4	2.6

V - Very High Output (3000K)			
Spacing	24"	36"	48"
Lumens/ft	30.9	20.6	15.4

Angela Globe

S - Standard Output			
Spacing	24"	36"	48"
Lumens/ft	CF	CF	CF

H - High Output			
Spacing	24"	36"	48"
Lumens/ft	CF	CF	CF

V - Very High Output (3500K)			
Spacing	24"	36"	48"
Lumens/ft	37.4	24.9	18.7

Clear Globe

S - Standard Output (3000K)			
Spacing	24"	36"	48"
Lumens/ft	2.5	1.6	1.25

H - High Output (3000K)			
Spacing	24"	36"	48"
Lumens/ft	6.5	4.3	3.2

V - Very High Output (3000K)			
Spacing	24"	36"	48"
Lumens/ft	37.6	25.1	18.8

Katie Globe

S - Standard Output			
Spacing	24"	36"	48"
Lumens/ft	CF	CF	CF

H - High Output			
Spacing	24"	36"	48"
Lumens/ft	CF	CF	CF

V - Very High Output (3500K)			
Spacing	24"	36"	48"
Lumens/ft	34.7	23.1	17.3

Frosted Globe

S - Standard Output (3000K)			
Spacing	24"	36"	48"
Lumens/ft	2.4	1.6	1.2

H - High Output (3000K)			
Spacing	24"	36"	48"
Lumens/ft	6.25	4.16	3.12

V - Very High Output (3000K)			
Spacing	24"	36"	48"
Lumens/ft	36.0	24.0	18.0

Gina Globe

S - Standard Output			
Spacing	24"	36"	48"
Lumens/ft	CF	CF	CF

H - High Output			
Spacing	24"	36"	48"
Lumens/ft	CF	CF	CF

V - Very High Output (3500K)			
Spacing	24"	36"	48"
Lumens/ft	38.6	25.7	19.3

Specifications

Electrical	
Input Voltage	12V DC
Physical	
Dimensions	2.5"W x 3.8"H
Socket Housing	PVC
American Wire Gauge	14 AWG
Globe	PET (Shatterproof)
Mounting	Surface Mount, Suspended
Operating Temperature	-20°C to 50°C (-4°F to 122°F)
Storage Temperature	-40°C to 65°C (-40°F to 149°F)
Certification and Testing	
Certification	cULus
Environment	Wet Location
L70	60,000
IP Rating	IP67
Warranty	5 Years

Control	
Control System	0-10V, ELV, MLV, DMX 512 (Dim to 1% with an Infinity power supply and a 0-10V Lutron Diva dimmer)

Drop Weight						
Length	6'	12"	24"	36"	48"	60"
Weights/unit	CF	0.15	0.19	0.22	CF	CF

Strand Weight			
OC Spacing	24"	36"	48"
Weights/ft (Strand and Catenary Cable Only)	0.12	0.114	0.11

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Photometrics

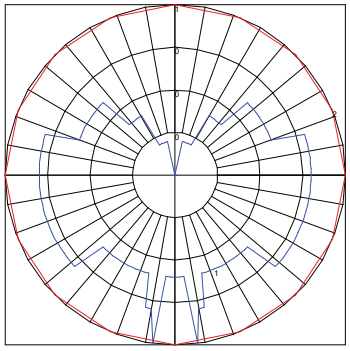
Note: Based on 3000K

Standard Brightness

Opal Globe

PHOTOMETRIC AND ELECTRICAL MEASUREMENTS - DISTRIBUTION METHOD (25°C +/- 1°C)

POLAR GRAPH AND MAXIMUM CANDELA INTENSITY		
Maximum Candela	Location - Horizontal Angle	Location - Vertical Angle
0.5	0	7.5

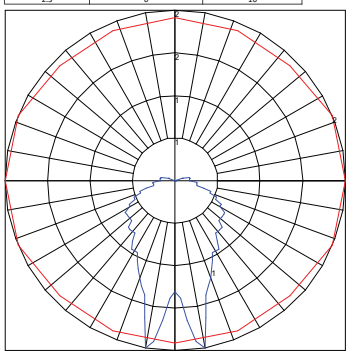


Maximum Candela = .5 Located At Horizontal Angle = 0, Vertical Angle = 7.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (7.5) (Through Max. Cd.)

Clear Globe

PHOTOMETRIC AND ELECTRICAL MEASUREMENTS - DISTRIBUTION METHOD (25°C +/- 1°C)

POLAR GRAPH AND MAXIMUM CANDELA INTENSITY		
Maximum Candela	Location - Horizontal Angle	Location - Vertical Angle
2.3	0	10

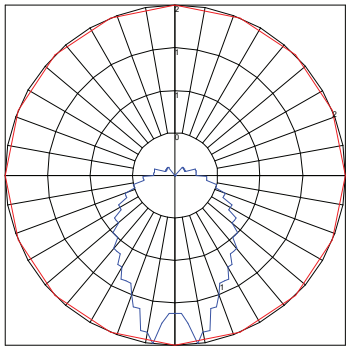


Maximum Candela = 2.3 Located At Horizontal Angle = 0, Vertical Angle = 10
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (10) (Through Max. Cd.)

Frosted Globe

PHOTOMETRIC AND ELECTRICAL MEASUREMENTS - DISTRIBUTION METHOD (25°C +/- 1°C)

POLAR GRAPH AND MAXIMUM CANDELA INTENSITY		
Maximum Candela	Location - Horizontal Angle	Location - Vertical Angle
1.6	0	7.5



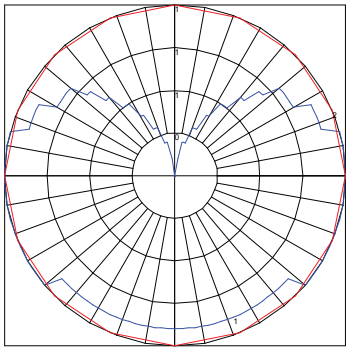
Maximum Candela = 1.6 Located At Horizontal Angle = 0, Vertical Angle = 7.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (7.5) (Through Max. Cd.)

High Output

Opal Globe

PHOTOMETRIC AND ELECTRICAL MEASUREMENTS - DISTRIBUTION METHOD (25°C +/- 1°C)

POLAR GRAPH AND MAXIMUM CANDELA INTENSITY		
Maximum Candela	Location - Horizontal Angle	Location - Vertical Angle
1	0	50

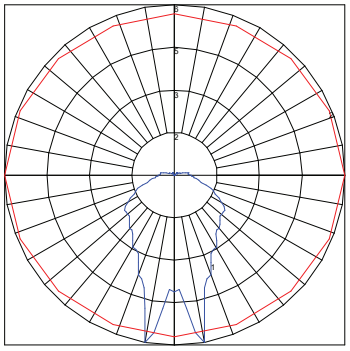


Maximum Candela = 1 Located At Horizontal Angle = 0, Vertical Angle = 50
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (50) (Through Max. Cd.)

Clear Globe

PHOTOMETRIC AND ELECTRICAL MEASUREMENTS - DISTRIBUTION METHOD (25°C +/- 1°C)

POLAR GRAPH AND MAXIMUM CANDELA INTENSITY		
Maximum Candela	Location - Horizontal Angle	Location - Vertical Angle
6.1	0	10

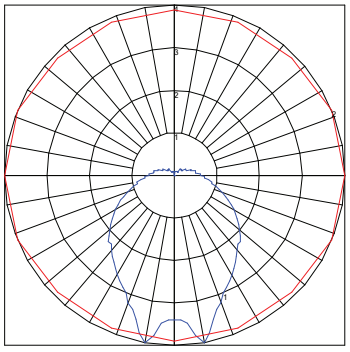


Maximum Candela = 6.1 Located At Horizontal Angle = 0, Vertical Angle = 10
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (10) (Through Max. Cd.)

Frosted Globe

PHOTOMETRIC AND ELECTRICAL MEASUREMENTS - DISTRIBUTION METHOD (25°C +/- 1°C)

POLAR GRAPH AND MAXIMUM CANDELA INTENSITY		
Maximum Candela	Location - Horizontal Angle	Location - Vertical Angle
4	0	10



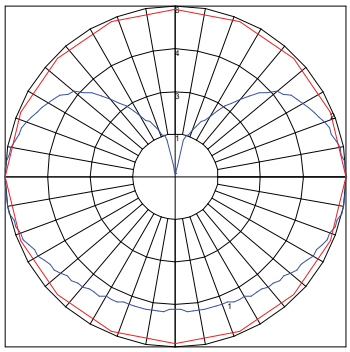
Maximum Candela = 4 Located At Horizontal Angle = 0, Vertical Angle = 10
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (10) (Through Max. Cd.)

Very High Output

Opal Globe

PHOTOMETRIC AND ELECTRICAL MEASUREMENTS - DISTRIBUTION METHOD (25°C +/- 1°C)

POLAR GRAPH AND MAXIMUM CANDELA INTENSITY		
Maximum Candela	Location - Horizontal Angle	Location - Vertical Angle
5.9	0	7.5

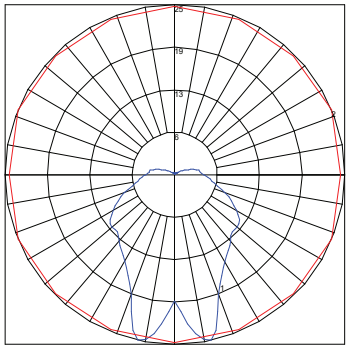


Maximum Candela = 5.9 Located At Horizontal Angle = 0, Vertical Angle = 77.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (77.5) (Through Max. Cd.)

Clear Globe

PHOTOMETRIC AND ELECTRICAL MEASUREMENTS - DISTRIBUTION METHOD (25°C +/- 1°C)

POLAR GRAPH AND MAXIMUM CANDELA INTENSITY		
Maximum Candela	Location - Horizontal Angle	Location - Vertical Angle
25.3	22.5	12.5

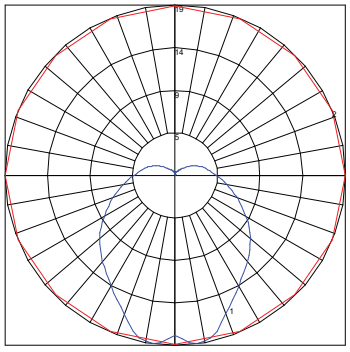


Maximum Candela = 25.3 Located At Horizontal Angle = 22.5, Vertical Angle = 12.5
1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (12.5) (Through Max. Cd.)

Frosted Globe

PHOTOMETRIC AND ELECTRICAL MEASUREMENTS - DISTRIBUTION METHOD (25°C +/- 1°C)

POLAR GRAPH AND MAXIMUM CANDELA INTENSITY		
Maximum Candela	Location - Horizontal Angle	Location - Vertical Angle
18.5	0	7.5



Maximum Candela = 18.5 Located At Horizontal Angle = 0, Vertical Angle = 7.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (7.5) (Through Max. Cd.)

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Mounting Example

Mounting Accessories

Warning: For suspension application, catenary cable is required to support the product, otherwise the warranty will be void.

LS-CABLE-XXX
XXX = **60** (60'), **110** (110'), **500** (500')
1/8" Galvanized cable
includes (1) LS-LOCK-3-02

LS-LOCK-3-XX
XX = **02** (2 locks), **04** (4 locks)
Horizontal loading cable lock, Includes (1) cable release key and (1) allen key.
Note: 1/8"cable 66 lbs max load

LS-TT
Catenary Cable Tensioning Tool
Note: Up to 880lbs with minimal effort due to the 6:1 gear drive mechanism

LS-UVZP-BK-XX
XX = **50** (50PCS), **30** (30PCS)
UV resistant, heavy duty ties
Note: Maximum weight up to 100 lbs/tie

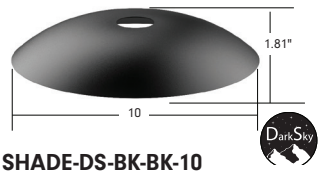
Light Shade Accessories

Note: Light Shade needed for DarkSky compliance

Hat

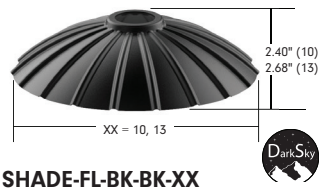
SHADE-HT-BK-XX-XX
XX = **BK** (black), **CO*** (copper)
XX = **8** (8.3"), **13**** (12.6")
Black top, black/copper bottom
Weight: 0.46 lb (8),1.2 lb (13)

Dish

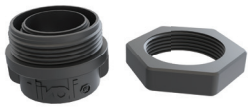


SHADE-DS-BK-BK-10
10.2" Black top, black bottom
Weight: 0.76 lb

Flower



SHADE-FL-BK-BK-XX
XX = **10** (9.8"), **13** (13.8")
Black top, black bottom
Weight: 0.63 lb (10), 1.48 lb (13)



SHADE-ADP-LSL2-XX-XX
XX = **BK** (Black), **WH*** (White)
XX = **01** (1pc), **25** (25pcs),**50** (50pcs)
Litesphere 2.0 Shade Adapter kit
Note: One adaptor required for each shade

*Only available for 13 (Hat)
**Consult factory for lead time and MOQ

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Replacement Globes

LST-CG
Litesphere 2.0
2.5" Clear PET globe
sold each

LST-OG
Litesphere 2.0
2.5" Opal PET globe
sold each

LST-FG
Litesphere 2.0
2.5" Frosted PET globe
sold each

LST-XX
XX = **OR** (Orange), **YG** (Yellow), **GG** (Green), **BG** (Blue), **RG** (Red), **PG** (Purple) PET globe
sold each
3500K is recommended for best color result when choosing colored globe

LST-GIN-2-PET
2.5" Gina PET globe
sold each

LST-KAT-2-PET
2.5" Katie PET globe
sold each

LST-ANG-2-PET
2.5" Angela PET globe
sold each

Replacement Parts

LSL-XX-V-12
XX = **19, 27, 30, 35*, 40, 50, AM, RD, RB, GN, YL, TS**
12V VHO Wedge Base LED
Sold each

LSL-XX-X-12
XX = **19, 27, 30, 35*, 40**
X = **S** (standard), **H** (high output)
12V Wedge Base LED
Sold each

LSL2-INT-X
X = **B** (black), **W*** (white)
Connector to join the strand
Sold each

LSL2-EC-X-(PK20)
X = **B** (black), **W**** (white)
Litesphere 2.0 End-Cap
Weight: 0.0375 lb
Sold each
(add **PK20** for pack of 20
Weight: 0.0375 lb/each)

*3500K CCT is recommended for best color result when choosing colored globe
**Contact factory for MOQ and lead time

In-Wall Controls

TVOQ-1-WH
White
16 DMX channel, 16 scene,
4 zone, glass touch screen

TVOQ-10-XX-7
XX = **BK** (black), **WH** (white)
1024 DMX channel, 500 scene,
10 zone, glass touch screen

TVOQ-2-BK
Black
512 DMX channel, 99 scene

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Power Supplies

INFINITY - MLV / ELV / 0-10V / PWM / TRIAC

Dim to 1% with a 0-10V Lutron Diva dimmer (by others)

DESCRIPTION	CAT NO	APPLICATION	PRIMARY VOLTAGE	SECONDARY VOLTAGE	CIRCUIT BREAKERS	MAX LOAD	MIN LOAD	CIRCUIT CAPACITY
Infinity Series Class 2 Transformer	INF-J-30-1-2.5-12	Indoor / Outdoor	100 - 277V AC	12V DC	1	30W	3W	2.5A
	INF-J-60-1-5-12				1	60W	6W	5A
	INF-J-180-3-5-12				3	3x60W	3x6W	3x5A
	INF-J-300-5-5-12				5	5x60W	5x6W	5x5A

ADNM - NON DIMMING

DESCRIPTION	CAT NO	APPLICATION	PRIMARY VOLTAGE	SECONDARY VOLTAGE	CIRCUIT BREAKERS	MAX LOAD	CIRCUIT CAPACITY
ADNM Series Class 2 Transformer	ADNM-60-1-5-12-D	Indoor / Outdoor	100-277V AC 50/60 HZ	12V DC	1	60W	5A
	ADNM-80-1-5-12-D				1	60W	5A
	ADNM-150-2-5-12-D				2	2x60W	2x5A
	ADNM-240-3-5-12-D				3	3x60W	3x5A
	ADNM-320-4-5-12-D				4	4x60W	4x5A

ADNM - 0-10V DIMMING

DESCRIPTION	CAT NO	APPLICATION	PRIMARY VOLTAGE	SECONDARY VOLTAGE	CIRCUIT BREAKERS	MAX LOAD	CIRCUIT CAPACITY
ADNM Series Class 2 Transformer	ADNM-60-1-5-12-DOT	Indoor / Outdoor	100-277V AC 50/60 HZ	12V DC	1	60W	5A
	ADNM-80-1-5-12-DOT				1	60W	5A
	ADNM-150-2-5-12-DOT				2	2x60W	2x5A
	ADNM-240-3-5-12-DOT				3	3x60W	3x5A
	ADNM-320-4-5-12-DOT				4	4x60W	4x5A

ADNM - DMX SINGLE ADDRESS

DESCRIPTION	CAT NO	APPLICATION	PRIMARY VOLTAGE	SECONDARY VOLTAGE	CIRCUIT BREAKERS	MAX LOAD	CIRCUIT CAPACITY
ADNM Series Class 2 Transformer	ADNM-60-1-5-12-DIN	Indoor / Outdoor	100-277V AC 50/60 HZ	12V DC	1	60W	5A
	ADNM-80-1-5-12-DIN				1	60W	5A
	ADNM-150-2-5-12-DIN				2	2x60W	2x5A
	ADNM-240-3-5-12-DIN				3	3x60W	3x5A
	ADNM-320-4-5-12-DIN				4	4x60W	4x5A

ADNM - DMX MULTI ADDRESS

DESCRIPTION	CAT NO	APPLICATION	PRIMARY VOLTAGE	SECONDARY VOLTAGE	CIRCUIT BREAKERS	MAX LOAD	CIRCUIT CAPACITY
ADNM Series Class 2 Transformer	ADNM-150-2-5-12-DIN-2	Indoor / Damp	100-277V AC 5o/60 Hz	12V DC	2	2x60W	5A
	ADNM-240-3-5-12-din-3				3	3x60W	3x5A

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