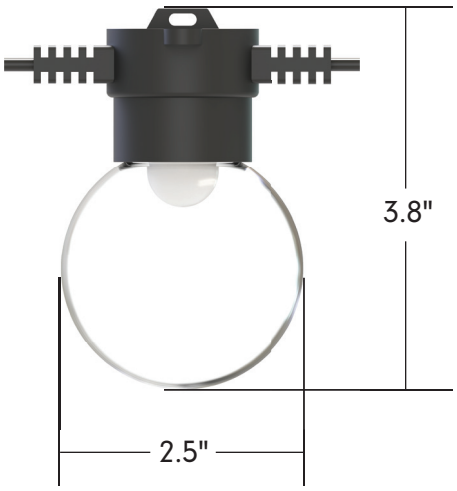
LITESPHERE2.0

Project: _____ TYPE: _____

- Tivoli's next evolution of Litesphere delivers a robust specification-grade strand with factory molded standard spacing for consistent quality from start to finish
- Shatterproof PE globe
- Litesphere 2.0 design provides optional suspended mounting or a twist-off cap for surface applications
- Available DarkSky option with added light shade
- 12V DC Low voltage system for long runs
- IP67
- cULus
- 5 Year warranty

Dimensions



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Strand Order Guide - Standard Globes

Note: For suspension application, a catenary cable is required for proper installation. Please contact Tivoli for recommendations on unique mounting applications.

Product	Wire	Spacing	LED Type	LED Color	Globe	Voltage
LSL2 -	-	-	-	-	-	-
Litesphere 2.0	**B** Black	**06** 6" OC	**V** Very High Output	**19** 1900K	**C** Clear	**12** 12V DC
	W White**	**12** 12" OC	**H** High Output	**27** 2700K	**F** Frosted	
		18 18" OC	**S** Standard Output	**30** 3000K	**O** Opal	
		24 24" OC		**35** 3500K	**ANGPET** Angela	
		36 36" OC		**40** 4000K	**KATPET** Katie	
		48 48" OC		**50** 5000K*	**GINPET** Gina	
				AM Amber*		
				RB Royal Blue*		
				RD Red*		
				GN Green*		
				YL Yellow*		
				TS Turtle Safe*		

*Available in VHO LED only
**For wire color white, CCT color RB and TS, contact Factory for MOQ and lead time

Strand Order Guide - Color Globes

Note: For suspension application, a catenary cable is required for proper installation. Please contact Tivoli for recommendations on unique mounting applications.

Product	Wire	Spacing	LED Type	LED Color	Globe	Voltage
LSL2 -	-	-	-	-	-	-
Litesphere 2.0	**B** Black	**06** 6" OC	**V** Very High Output	**35** 3500K*	**R** Red	**12** 12V DC
	W White**	**12** 12" OC	**H** High Output		**N** Orange	
		18 18" OC	**S** Standard Output		**Y** Yellow	
		24 24" OC			**G** Green	
		36 36" OC			**B** Blue	
		48 48" OC			**P** Purple	
					Z Varried Colors	

*3500K CCT is recommended for best color result when choosing colored globe
**For wire color white contact Factory for MOQ and lead time

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Power Lead Order Guide

Figure A - All Litesphere 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.

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

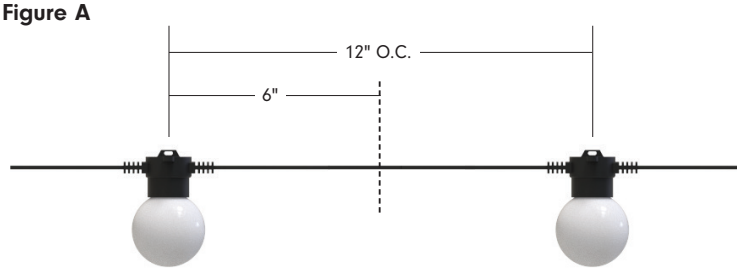
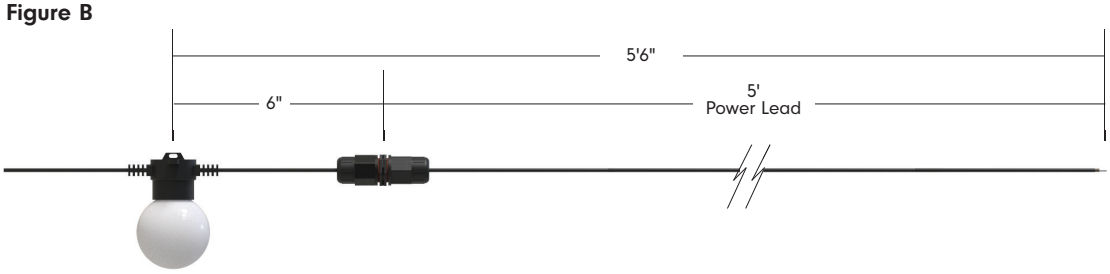


Figure B



Jumper Order Guide

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

Figure A

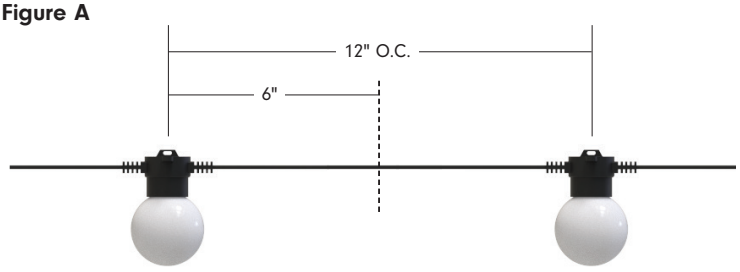
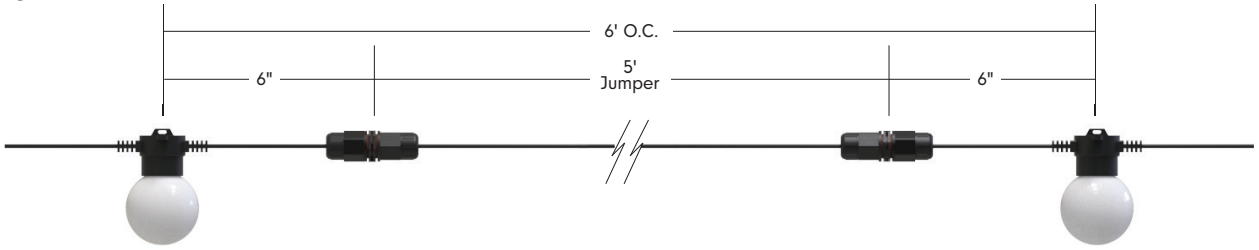


Figure B



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Output

S - Standard Output						
Spacing	6"	12"	18"	24"	36"	48"
Man Run	130'	180'	230'	250'	275'	275'
Watts/ft	0.32	0.16	0.10	0.08	0.05	0.04
CRI	82.9					

H - High Output						
Spacing	6"	12"	18"	24"	36"	48"
Max Run	80'	110'	130'	150'	175'	200'
Watts/ft	0.74	0.37	0.24	0.18	0.12	0.09
CRI	82					

V - Very High Output						
Spacing	6"	12"	18"	24"	36"	48"
Max Run	30'	55'	70'	80'	90'	100'
Watts/ft	1.62	0.84	0.56	0.42	0.28	0.21
CRI	82.2					

Delivered Lumen

Opal Globe

S - Standard Output (3000K)						
Spacing	6"	12"	18"	24"	36"	48"
Lumens/ft	8.2	4.1	2.7	2.05	1.3	1.0

H - High Output (3000K)						
Spacing	6"	12"	18"	24"	36"	48"
Lumens/ft	20.5	10.7	6.8	5.3	3.4	2.6

V - Very High Output (3000K)						
Spacing	6"	12"	18"	24"	36"	48"
Lumens/ft	123.8	61.9	41.2	30.9	20.6	15.4

Clear Globe

S - Standard Output (3000K)						
Spacing	6"	12"	18"	24"	36"	48"
Lumens/ft	10.0	5.0	3.3	2.5	1.6	1.25

H - High Output (3000K)						
Spacing	6"	12"	18"	24"	36"	48"
Lumens/ft	26.2	13.1	8.7	6.5	4.3	3.2

V - Very High Output (3000K)						
Spacing	6"	12"	18"	24"	36"	48"
Lumens/ft	150.6	75.3	50.2	37.6	25.1	18.8

Frosted Globe

S - Standard Output (3000K)						
Spacing	6"	12"	18"	24"	36"	48"
Lumens/ft	9.6	4.8	3.2	2.4	1.6	1.2

H - High Output (3000K)						
Spacing	6"	12"	18"	24"	36"	48"
Lumens/ft	25	12.5	8.3	6.25	4.16	3.12

V - Very High Output (3000K)						
Spacing	6"	12"	18"	24"	36"	48"
Lumens/ft	144.0	72.0	48.0	36.0	24.0	18.0

Angela Globe

S - Standard Output						
Spacing	6"	12"	18"	24"	36"	48"
Lumens/ft	CF	CF	CF	CF	CF	CF

H - High Output						
Spacing	6"	12"	18"	24"	36"	48"
Lumens/ft	CF	CF	CF	CF	CF	CF

V - Very High Output (3500K)						
Spacing	6"	12"	18"	24"	36"	48"
Lumens/ft	149.6	74.8	49.8	37.4	24.9	18.7

Katie Globe

S - Standard Output						
Spacing	6"	12"	18"	24"	36"	48"
Lumens/ft	CF	CF	CF	CF	CF	CF

H - High Output						
Spacing	6"	12"	18"	24"	36"	48"
Lumens/ft	CF	CF	CF	CF	CF	CF

V - Very High Output (3500K)						
Spacing	6"	12"	18"	24"	36"	48"
Lumens/ft	138.8	69.4	46.2	34.7	23.1	17.3

Gina Globe

S - Standard Output						
Spacing	6"	12"	18"	24"	36"	48"
Lumens/ft	CF	CF	CF	CF	CF	CF

H - High Output						
Spacing	6"	12"	18"	24"	36"	48"
Lumens/ft	CF	CF	CF	CF	CF	CF

V - Very High Output (3500K)						
Spacing	6"	12"	18"	24"	36"	48"
Lumens/ft	154.6	77.3	51.5	38.6	25.7	19.3

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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	70,000
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)

Weights (Spacing)	6"	12"	18"	24"	36"	48"
lb/ft w/strand	0.33	0.28	0.24	0.20	0.17	0.13
lb/ft w/strand-cable	0.35	0.30	0.26	0.22	0.19	0.15

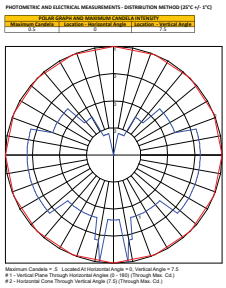
EPA (Spacing)	6"	12"	18"	24"	36"	48"
2.5" Globe	0.10	0.06	0.05	0.04	CF	CF
Hat 8"	N/A	0.53	0.37	0.28	CF	CF
Hat 13"	N/A	N/A	0.93	0.71	CF	CF
Dish 10"	N/A	0.82	0.55	0.42	CF	CF
Flower 10"	N/A	0.82	0.55	0.42	CF	CF
Flower 13"	N/A	N/A	0.93	0.71	CF	CF

Photometrics

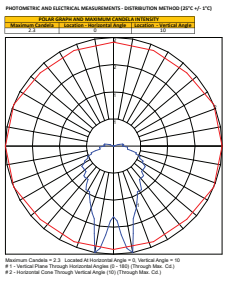
Note: Based on 3000K

Standard Brightness

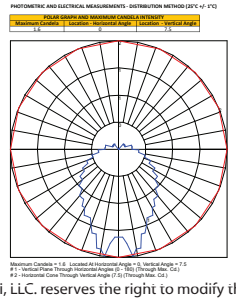
Opal Globe



Clear Globe

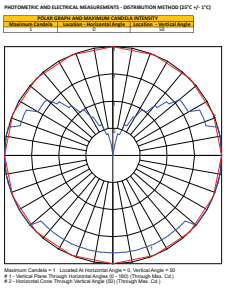


Frosted Globe

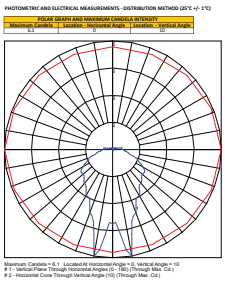


High Output

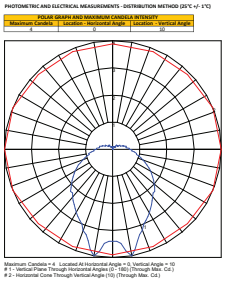
Opal Globe



Clear Globe

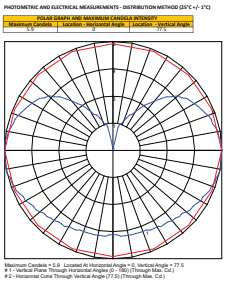


Frosted Globe

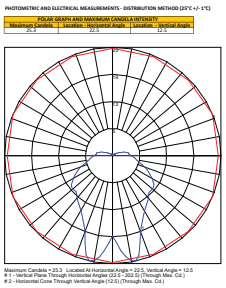


Very High Output

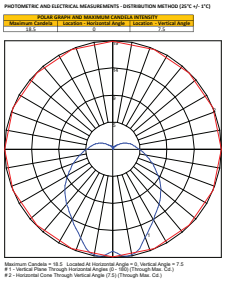
Opal Globe



Clear Globe



Frosted Globe



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Mounting Options

SURFACE/FLUSH

For surface mount applications, remove the top suspension-plate by turning counter-clockwise until off. Place socket flush against the desired surface and mount using proper screws according to substrate.

SUSPENDED

Suspended mounting will use a combination of LS-Cable, LS-Locks with LS-UVZP. Tension the cable wire with our LS-TT (Tension Tool) for desired sag (Please adhere to local city code for suspended application).

Note: For suspension application, a catenary cable is required for proper installation. Please contact Tivoli for recommendations on unique mounting applications.

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

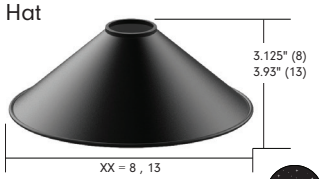
LS-TT
Cable tensioning tool up to 880lbs with 6:1 gear drive with integral torque gauge controls

LS-UVZP-BK-XX
XX = **30** (30 pcs), **50** (50 pcs)
Black UV resistant, heavy duty ties maximum weight up to 100 lbs./per tie

Light Shade Accessories

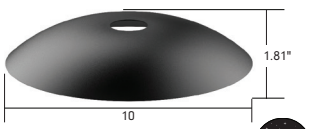
Note: Light Shade needed for DarkSky compliance

Hat



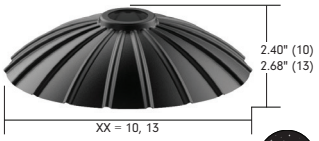
SHADE-HT-BK-XX-XX
XX = **BK** (black), **CO*** (copper)
XX = **8** (8.3"), **13**** (12.6")
Black top, black/copper bottom
Weight: 0.46 lb (8),1.2 lb (13)

Dish

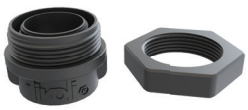


SHADE-DS-BK-BK-10
10.2"
Black top, black bottom
Weight: 0.76 lb

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** (1 pc), **25** (25 pcs), **50** (pcs)
PVC shade adapters black
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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