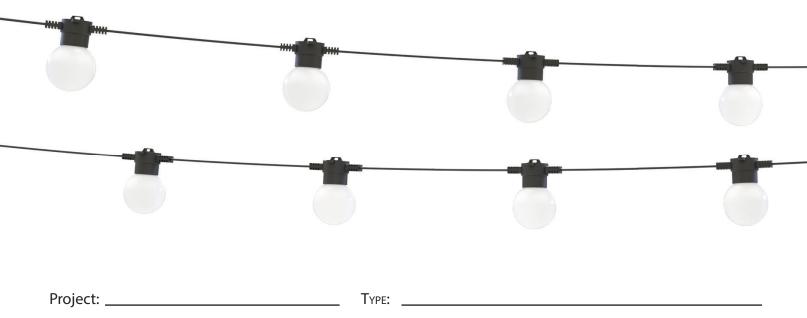
LITESPHERE2.0







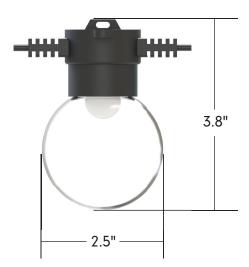
Product Features

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

Dimensions

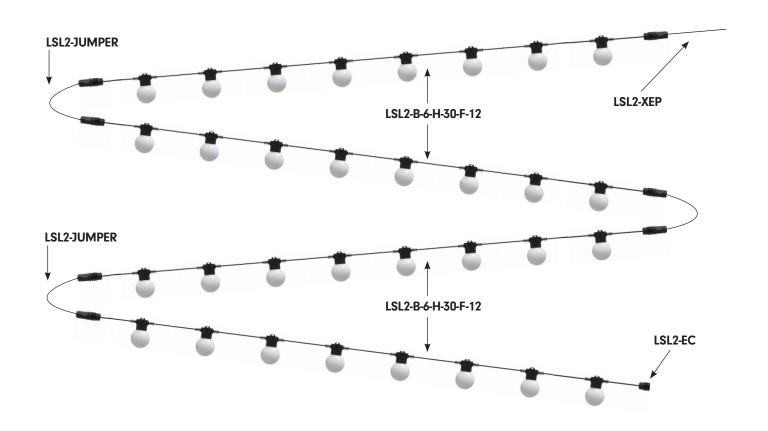






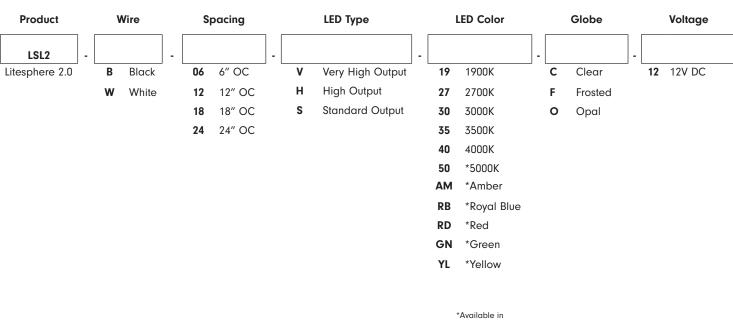


System Configuration Example



Strand Order Guide

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



*Available in VHO LED only



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

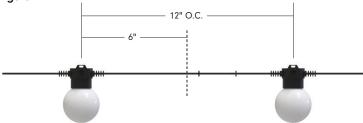
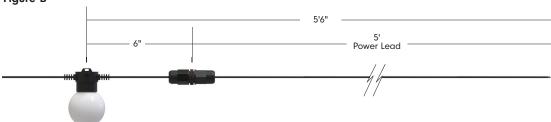


Figure B



Jumper Order Guide

Figure A - All Litesphere 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.

LSL2-JUMPER-X-XX

X = B (Black), W (White)

XX = 05 (5'), 10 (10')

For custom length, consult factory

Figure A

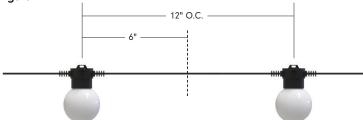
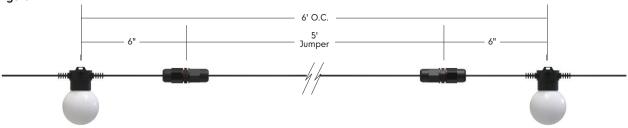


Figure B



Tivoli, LLC. reserves the right to modify this specification without prior notice.



Specifications

Output - Standard Brightness				
On-Center Spacing	6"	12"	18"	24"
Lumens/ft	11	6	4	3
Watts/ft	.17	.09	.06	.04
Maximun Electrical Run	130'	180'	230'	250'
Output - High Output				
On-Center Spacing	6"	12"	18"	24"
Lumens/ft	29.9	15	10	7
Watts/ft	.46	.23	.15	.12
Maximun Electrical Run	80'	110'	130'	150'
	, 			
Output - Very High Output				
On-Center Spacing	6"	12"	18"	24"
Lumens/ft	180	90.2	60	45
Watts/ft	1.92	.96	.64	.48
Maximun Electrical Run	30'	55'	70'	80'
	·		•	
Weights				
On-Center Spacing	6"	12"	18"	24"
lb/ft	0.33	0.20	0.24	0.28
lb/ft with catenary cable	0.35	0.22	0.26	0.30

Output - Based on 3000K Clear Globe	
Efficacy	Standard Brightness (40), High Output (46), Very High Output (94)
Electrical	
Input Voltage	12V DC
Power Consumption (W/LED)	Standard Brightness (.09), High Output (.23), Very High Output (.96)
Control	
Control System	0-10V, ELV, MLV, DMX 512
Physical	
Dimensions	2.5"W x 3.8"H
Socket Housing	PVC
American Wire Gauge	14 AWG
Globe	PE
Mounting	Surface Mount, Suspended
Operating Temperature	-20°C to 50°C (-4°F to 122°F)
Storage Temperature	-40°C to 80°C (-40°F to 176°F)
Certification and Testing	
Certification	cULus
Environment	Wet Location
IP Rating	IP67
Warranty	3 Years



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



LS-CABLE-60 Catenary Cable Kit - 60' (1/8" Stainless Steel cable includes 2 cable locks for use with loads

LS-CABLE-110 Catenary Cable Kit - 110' (1/8" Stainless Steel cable includes 2 cable locks for use with loads

LS-CABLE-500 Catenary Cable Kit - 500' (1/8" Stainless Steel cable for use with loads up to 200lbs)





LS-UVZP-XX-50

X = BK (Black), WH (White) 50 pc Baa set, UV resistant, heavy duty ties, Maximum weight up to 100 lbs./per tie.



LS-LOCK-4

Cable Lock for 1/8th inch cable, Heavy-duty lockable fasteners support loads up to 200 lbs. Can be easily adjusted without the use of tools. Includes (2) Locks, (1) cable release key.



LS-TT

Catenary Cable Tensioning Tool up to 880lbs with minimal effort due to the 6:1 gear drive mechanism. Integral torque gauge controls the load applied to the wire, giving consistent tension every time and optimizing



LS-UVZP-XX-30

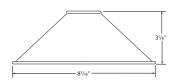
X = BK (Black), WH (White) 30 pc Bag set. UV resistant, heavy duty ties. Maximum weight up to 100 lbs./per tie.



Light Shades

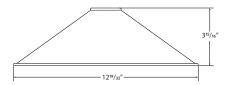


HAT



SHADE-HT-BK-BK-8

Light Shade - HAT 8.3" Black Top, Black Bottom Weight: 0.38 lb



SHADE-HT-BK-BK-13*

Light Shade - HAT 12.6" Black Top, Black Bottom Weight: 1.06 lb

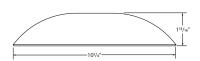
SHADE-HT-BK-CO-13 *

Light Shade - HAT 12.6" Black Top, Copper Bottom Weight: 1.06 lb

*Consult factory for lead time and MOQ

DISH



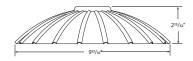


SHADE-DS-BK-BK-10

Light Shade - DISH 10.2" Black Top, Black Bottom Weight: 0.72 lb

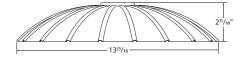
FLOWER





SHADE-FL-BK-BK-10

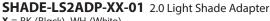
Light Shade - FLOWER 9.8" Light Shade , Black Top, Black Bottom Weight: 0.54 lb



SHADE-FL-BK-BK-13

Light Shade - FLOWER 13.8" Light Shade, Black Top, Black Bottom Weight: 1.1 lb

Accessories



X = BK (Black), WH (White) PVC Black Adapter - Sold individually.

SHADE-LS2ADP-XX-25 2.0 Light Shade Adapter

X = BK (Black), WH (White) PVC Black Adapter Kit - Sold in packs of 25

SHADE-LS2ADP-XX-50 2.0 Light Shade Adapter

X = BK (Black), WH (White) PVC Black Adapter Kit - Sold in packs of 50



Replacement Parts



Very High Output

LSL-19-V-12 12V Wedge base 1900K LSL-27-V-12 12V Wedge base 2700K LSL-30-V-12 12V Wedge base 3000K LSL-35-V-12 12V Wedge base 3500K LSL-40-V-12

12V Wedge base

LSL-50-V-12

12V Wedge base

4000K

5000K

LSL-AM-V-12 12V Wedge base Amber LSL-RD-V-12 12V Wedge base Red LSL-RB-V-12 12V Wedge base Royal Blue LSL-GN-V-12 12V Wedge base Green LSL-YL-V-12 12V Wedge base Yellow



Standard & High Output

STANDARD LSL-19-S-12 12V Wedge base 1900K LSL-27-S-12 12V Wedge base 2700K LSL-30-S-12 12V Wedge base 3000K LSL-35-S-12 12V Wedge base 3500K LSL-40-S-12

12V Wedge base

4000K

LSL-19-H-12 12V Wedge base 1900K LSL-27-H-12 12V Wedge base 2700K LSL-30-H-12 12V Wedge base 3000K LSL-35-H-12 12V Wedge base 3500K LSL-40-H-12 12V Wedge base 4000K

HIGH OUTPUT



LST-CG Litesphere 2.0 Clear globe sold each



LST-FG Litesphere 2.0 Frosted globe sold each



LST-OG Litesphere 2.0 Opal globe sold each

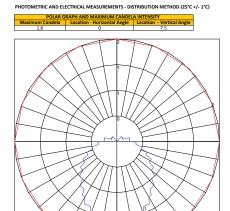


LSL2-EC Litesphere 2.0 End-Cap Weight: 0.0375 lb sold each

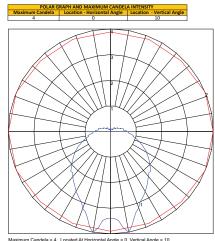
Photometrics

Frosted Globe - Based on 3000K LED

Standard Brightness



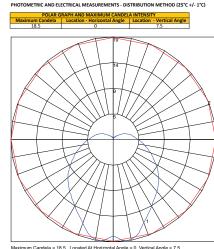
High Output



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

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

Very High Output



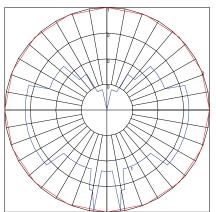


Photometrics

Opal Globe - Based on 3000K LED

Standard Brightness

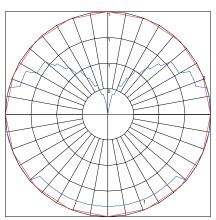
PHOTOMETRIC AND ELECTRICAL MEASUREMENTS - DISTRIBUTION METHOD (25°C+/- 1°C)



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.)

High Output

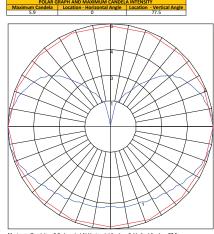




Maximum Candela = 1 Located At Horizontal Angle = 0, Vertical Angle = 50 #1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.) #2 - Horizontal Cone Through Vertical Angle (50) (Through Max. Cd.)

Very High Output

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



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

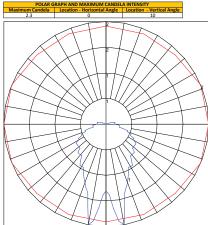
Clear Globe - Based on 3000K LED

Standard Brightness

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

POLAR GRAPH AND MAXIMUM CANDELA INTENSITY

Maximum Candela | Location - Medianal Angle | Location - Medical Angle |



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.)

High Output

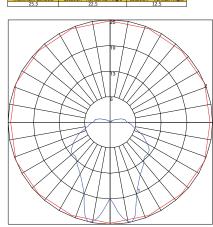
Maximum Cordicis Usation National Angle Usation Vertical Angle

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

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.)

Very High Output

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



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.)



Power Supplies

ADNM - 0-10V DIMMING

DESCRIPTION	CAT NO	APPLICATION	PRIMARY VOLTAGE	SECONDARY VOLTAGE	CIRCUIT BREAKERS	MAX LOAD	CIRCUIT CAPACITY
	ADNM-60-1-5-12-DOT	Indoor / Outdoor	100-277V AC 50⁄60 Hz	12V DC	1	60W	5A
ADNM Series Class 2 Transformer	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		Indoor / Damp	100-277V AC 5o⁄60 Hz	12V DC	2	2x60W	5A
Class 2 Transformer	ADNM-240-3-5-12-DIN-3				3	3x60W	3x5A

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

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	12VDC	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



Controls



TVOQ-1-WH WH (White only) 512 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-XX XX = BK (Black), WH (White) 512 DMX channel, 99 scene, 1 zone, glass touch screen