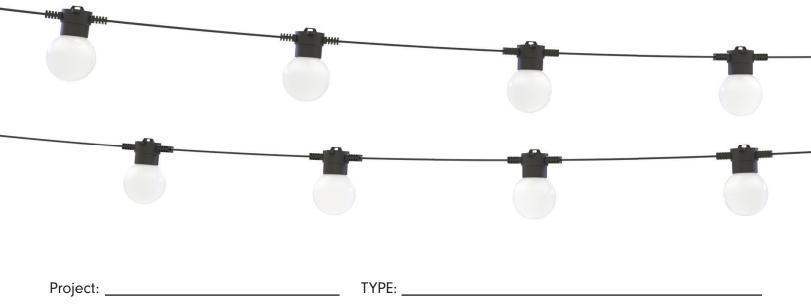
LITESPHERE2.0

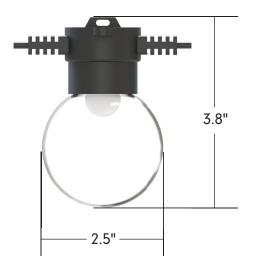






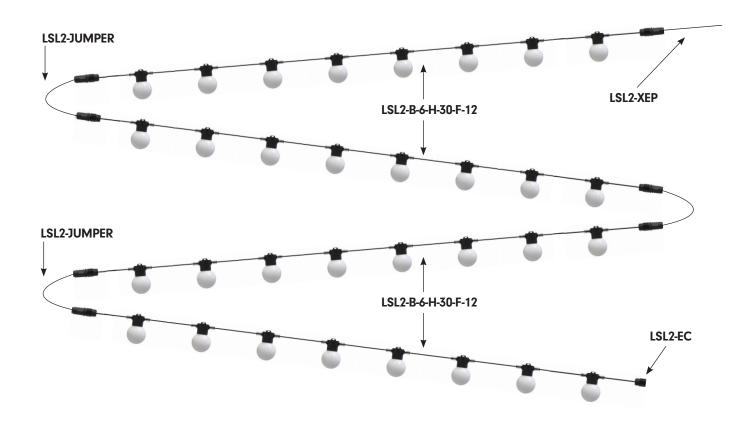
- Tivoli's next evolution of Litesphere delivers a robust specification-grade strand with factory molded standard spacing for consistent quality from start to finish
- Litesphere 2.0 design provides optional suspended mounting or a twist-off cap for surface applications
- 12V DC Low voltage system for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

Product		١	Vire		S	pacing			LED Type		L	ED Color			Globe		Vc	oltage
LSL2] - [- [-			- [-		-			
Litesphere 2.0		В	Black		06	6″ OC		v	Very High Output		19	1900K		с	Clear	12	2	12V DC
		w	White		12	12″ OC		н	High Output		27	2700K		F	Frosted			
					18	18″ OC		S	Standard Output		30	3000K		0	Opal			
					24	24″ OC					35	3500K		R	Red			
					36	36" OC					40	4000K		N	Orange			
					48	48" OC					50	5000K*		Y	Yellow			
											AM	Amber*		G	Green			
											RB	Royal Blue*		В	Blue			
											RD	Red*		Ρ	Purple			
											GN	Green*		z	Varried Color	s		
											YL	Yellow*						
											TS	Turtle Safe*						
												wailable in IO 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

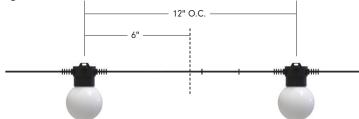
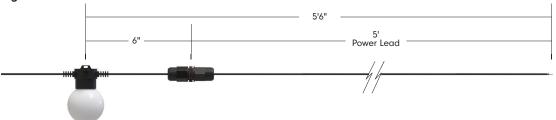


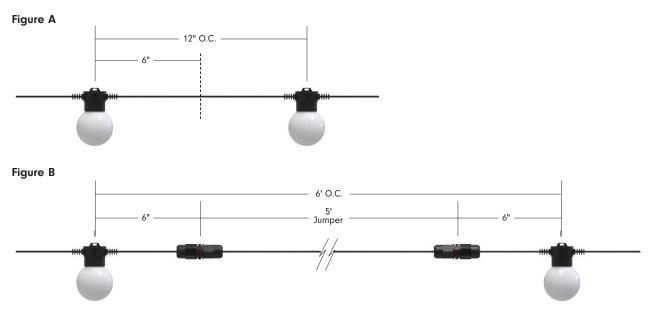
Figure B



Jumper Order Guide

LSL2-JUMPER-X-XX

 $\label{eq:X} \begin{array}{l} \textbf{X} = \textbf{B} \mbox{ (Black)}, \ \textbf{W} \mbox{ (White)} \\ \textbf{XX} = \textbf{05} \mbox{ (5')}, \ \textbf{10} \mbox{ (10')} \\ \mbox{For custom length, consult factory} \end{array}$





Specifications

Output - Standard Brightness	6"	12"	18"	24"	36"	48"
Lumens/ft	11	6	4	3	2	N/A
Watts/ft	0.17	0.09	0.06	0.04	0.03	0.02
Maximun Electrical Run	130'	180'	230'	250'	275'	275'

Output - Very High Output	6"	12"	18"	24"	36"	48"
Lumens/ft	180	90.2	60	45	30	N/A
Watts/ft	1.92	0.96	0.64	0.48	0.32	0.24
Maximun Electrical Run	30'	55'	70'	80'	90	100'

Output - High Output	6"	12"	18"	24"	36"	48"
Lumens/ft	29.9	15	10	7	5	N/A
Watts/ft	0.46	0.23	0.15	0.12	0.08	0.05
Maximun Electrical Run	80'	110'	130'	150'	175'	200'

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 (Dim to 1% with an Infinity power supply and a 0-10V Lutron Diva dimmer)
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
Lumen Maintenance (L70) Hours	70,000
IP Rating	IP67
Warranty	3 Years

Specifications

EPA	6"	12"	18"	24"
Standard	0.10	0.06	0.05	0.04
Hat 8"	N/A	0.53	0.37	0.28
Hat 13"	N/A	N/A	0.93	0.71
Dish 10"	N/A	0.82	0.55	0.42
Flower 10"	N/A	0.82	0.55	0.42
Flower 13"	N/A	N/A	0.93	0.71

Weights	6"	12"	18"	24"	36"	48"
lb/ft	0.33	0.28	0.24	0.20	0.17	0.13
lb/ft with catenary cable	0.35	0.30	0.26	0.22	0.19	0.15



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-X X = 60 (60'), 110 (110'), 500 (500') 1/8" Stainless steel cable includes (2) cable locks for use with loads up to 200lbs Note: 500' no locks included



LS-LOCK-X X = 2 (2 pcs), 4 (4 pcs) Includes (1) release key Cable Lock for 1/8" cable, support loads up to 200 lbs.



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



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

Replacement Parts

Weight: 0.46 lb (10),1.2 lb (13)



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



LSL-XX-X-12 XX = 19, 27, 30, 35, 40 $\mathbf{X} = \mathbf{S}$ (standard), \mathbf{H} (high output) 12V Wedge base



LST-XX XX = CG (Clear Globe), FG (Frosted Globe), OG (Opal Globe), OR (Orange Globe), YG (Yellow Globe), GG (Green Globe), BG (Blue Globe), PG (Purple Globe)



XX = BK (Black), WH (White) XX = 01 (1 pc), 25 (25 pcs), 50 (pcs) PVC shade adapters black



LSL2-EC-X **X** = **B** (black), **W** (white) Litesphere 2.0 End-Cap Weight: 0.0375 lb sold each

In-Wall Controls



TVOQ-1-WH White



TVOQ-10-XX-7 XX = BK (Black), WH (White)



TVOQ-2-BK Black

ivoli

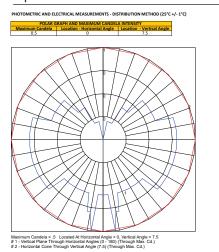
Photometrics

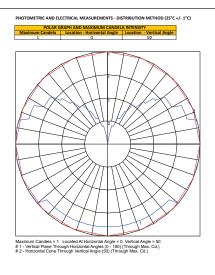
Standard Brightness

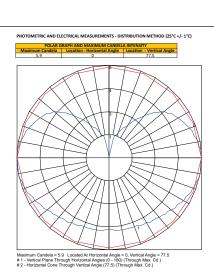
Note: Based on 3000K

High Output

Opal Globe

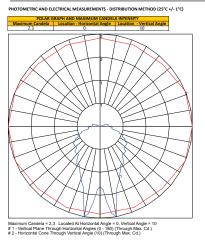






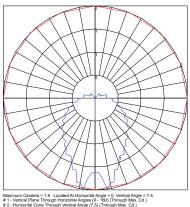
Very High Output

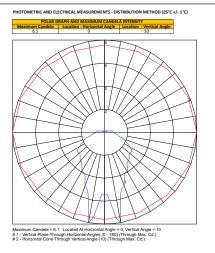
Clear Globe



Frosted Globe

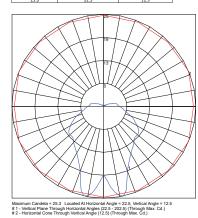
FOMETRIC AND ELECTRICAL MEASUREMENTS - DISTRIBUTION METHOD (25°C +/- 1°C)





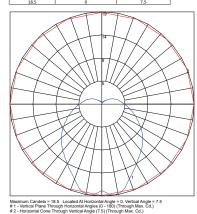
PHOTOMETRIC AND ELECTRICAL MEASUREMENTS - DISTRIBUTION METHOD (25°C +/- 1°C)

PHOTOMETRIC AND ELECTRICAL MEASUREMENTS - DISTRIBUTION METHOD (25°C +/- 1°C) POLAR GRAPH AND MAXIMUM CANDELA INTENSITY n Candela Location - Horizontal Angle Location -- Vertical Angle



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





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

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.)



Power Supplies

ADNM - NON DIMMING

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

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
	INF-J-30-1-2.5-12				1	30W	3W	2.5A
Infinity Series	INF-J-60-1-5-12	Indoor /	100 - 277V AC	12V DC -	1	60W	6W	5A
Class 2 Transformer	INF-J-180-3-5-12	Outdoor			3	3x60W	3x6W	3x5A
-	INF-J-300-5-5-12				5	5x60W	5x6W	5x5A