

LITESPHERE 2.0



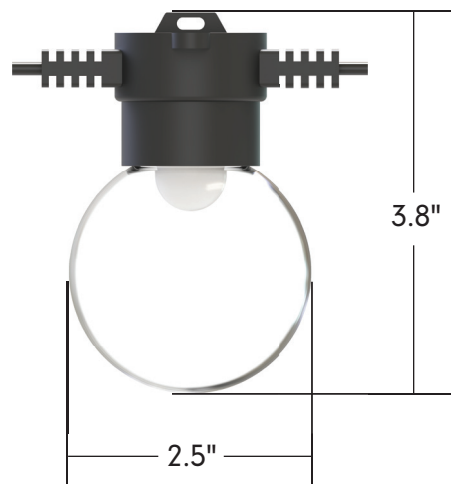
tivoli®



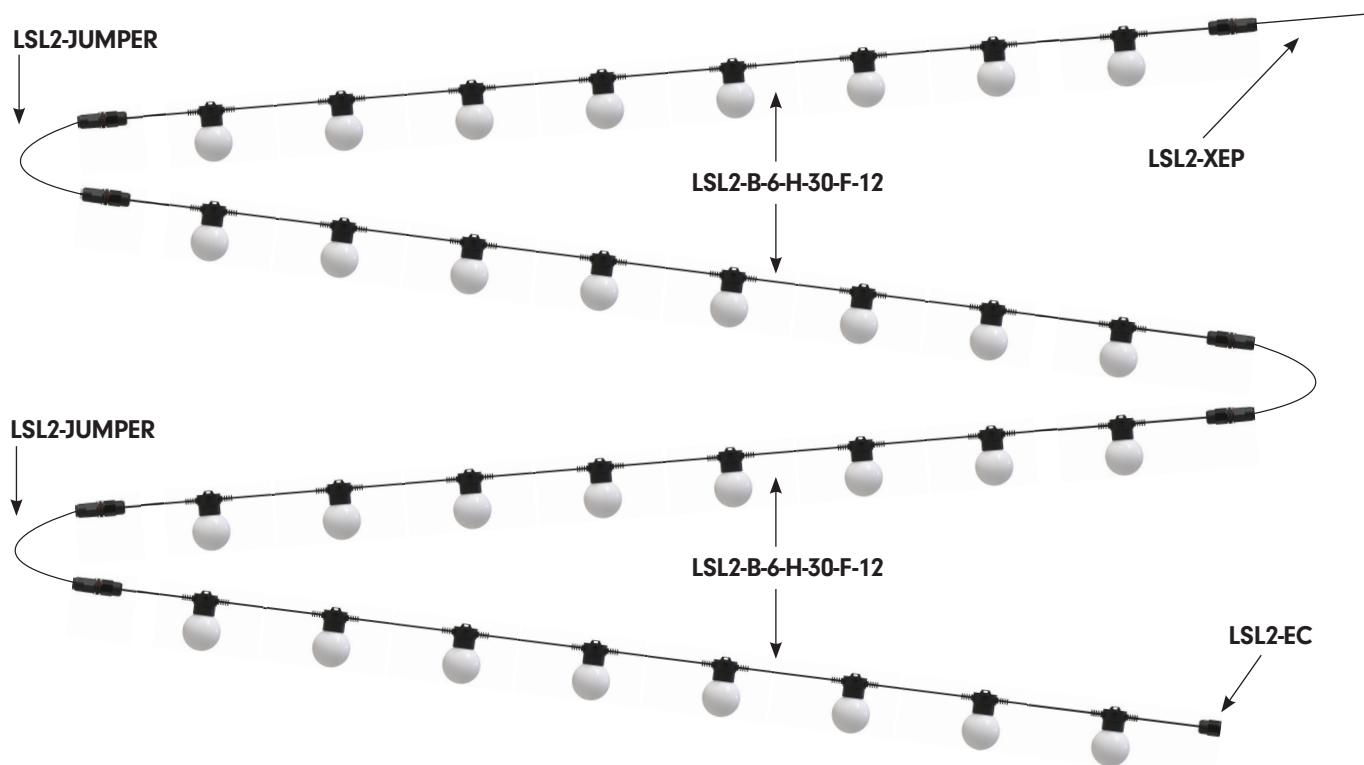
Project: _____ TYPE: _____

- Tivoli's next evolution of Litesphere delivers a robust specification-grade strand with factory molded standard spacing for consistent quality from start to finish
- 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
- 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 | 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 | R Red | |
| | | 36 36" OC | | 40 4000K | N Orange | |
| | | 48 48" OC | | 50 5000K* | Y Yellow | |
| | | | | AM Amber* | G Green | |
| | | | | RB Royal Blue* | B Blue | |
| | | | | RD Red* | P Purple | |
| | | | | GN Green* | Z Varried Colors | |
| | | | | YL Yellow* | | |
| | | | | TS Turtle Safe* | | |

*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

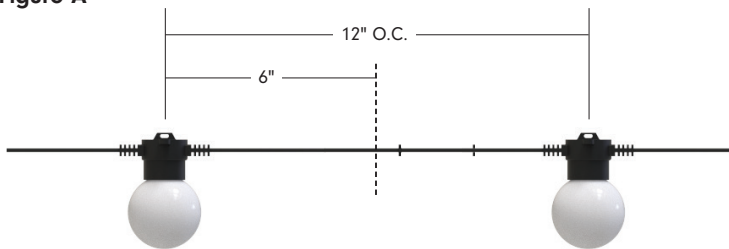
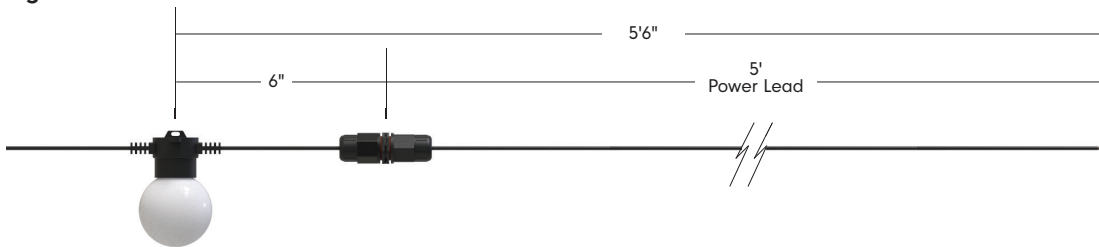


Figure B



Jumper Order Guide

LSL2-JUMPER-X-XX

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

Figure A

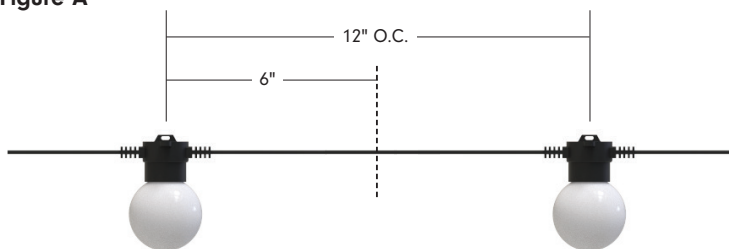
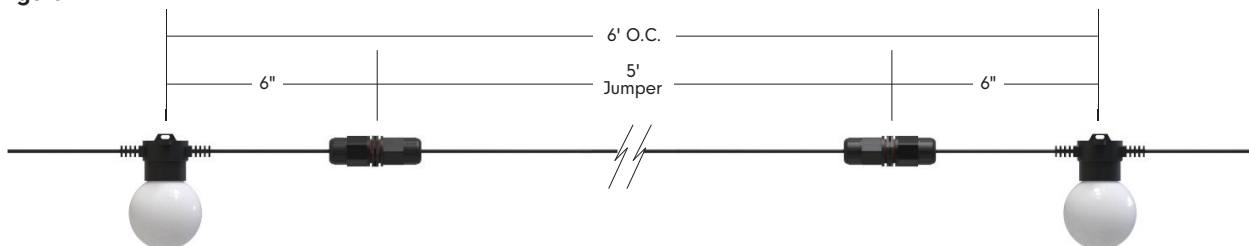


Figure B



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 |
| CRI (30K Opal Globe) | 84.8 | | | | | |
| Maximun Electrical Run | 130' | 180' | 230' | 250' | 275' | 275' |

| 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 |
| CRI (30K Opal Globe) | 83.8 | | | | | |
| Maximun Electrical Run | 80' | 110' | 130' | 150' | 175' | 200' |

| 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 |
| CRI (30K Opal Globe) | 83.9 | | | | | |
| Maximun Electrical Run | 30' | 55' | 70' | 80' | 90 | 100' |

| 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 65°C (-40°F to 149°F) |
| Certification and Testing | |
| Certification | cULus |
| Environment | Wet Location |
| Lumen Maintenance (L70) Hours | 70,000 |
| IP Rating | IP67 |
| Warranty | 3 Years |

Weights & EPA

| 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



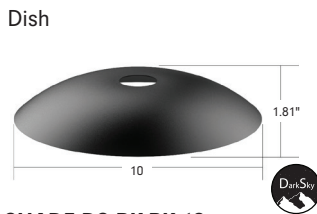
LS-UVZP-BK-XX

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

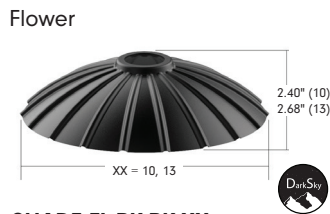
Light Shade Accessories



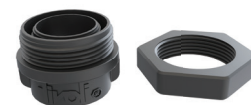
SHADE-HT-BK-XX-XX
XX = BK (black), **CO*** (copper)
XX = 8 (8.3"), **13**** (12.6")
 Black top, black/copper bottom
 Weight: 0.46 lb (8), 1.2 lb (13)



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



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

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

Replacement Parts



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
X = S (standard), **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)



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

Photometrics

Note: Based on 3000K

Standard Brightness

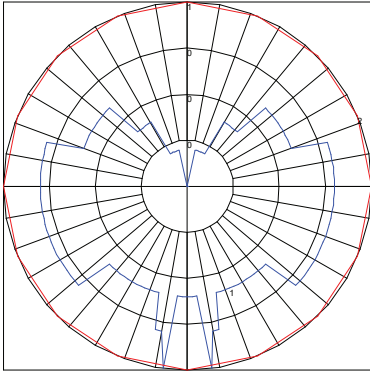
High Output

Very High Output

Opal Globe

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

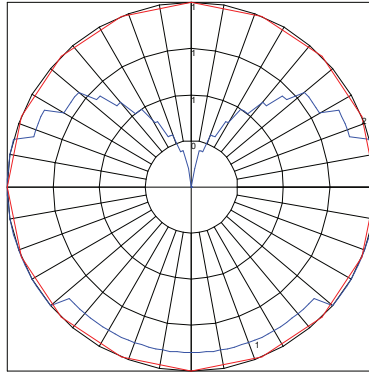
| POLAR GRAPH AND MAXIMUM CANDELA INTENSITY | | | |
|---|-----------------------------|---------------------------|--|
| Maximum Candela | Location - Horizontal Angle | Location - Vertical Angle | |
| 0.5 | 0 | 7.5 | |



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.)

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

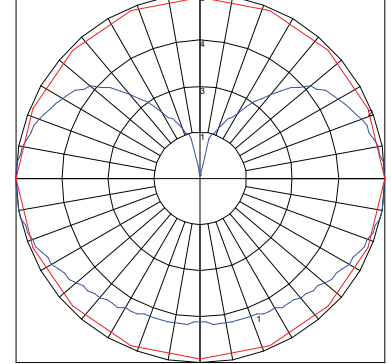
| POLAR GRAPH AND MAXIMUM CANDELA INTENSITY | | | |
|---|-----------------------------|---------------------------|--|
| Maximum Candela | Location - Horizontal Angle | Location - Vertical Angle | |
| 1 | 0 | 50 | |



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.)

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 | 77.5 | |

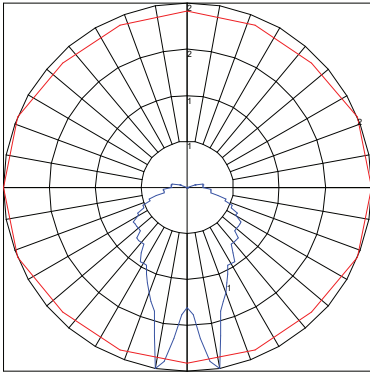


Maximum Candela = 5.9 Located At Horizontal Angle = 0, Vertical Angle = 77.5
 # 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
 # 2 - Horizontal Cone Through Vertical Angle (77.5) (Through Max. Cd.)

Clear Globe

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

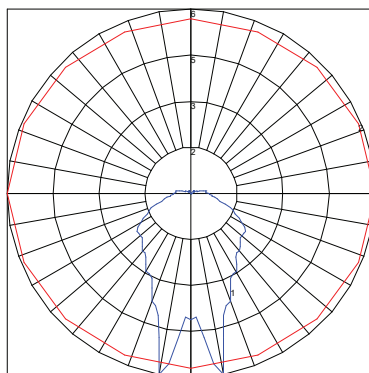
| POLAR GRAPH AND MAXIMUM CANDELA INTENSITY | | | |
|---|-----------------------------|---------------------------|--|
| Maximum Candela | Location - Horizontal Angle | Location - Vertical Angle | |
| 2.3 | 0 | 10 | |



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.)

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

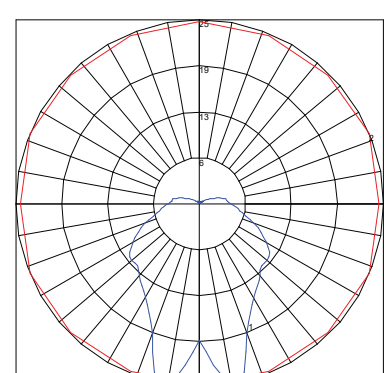
| POLAR GRAPH AND MAXIMUM CANDELA INTENSITY | | | |
|---|-----------------------------|---------------------------|--|
| Maximum Candela | Location - Horizontal Angle | Location - Vertical Angle | |
| 6.1 | 0 | 10 | |



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.)

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 | 0 | 22.5 | |

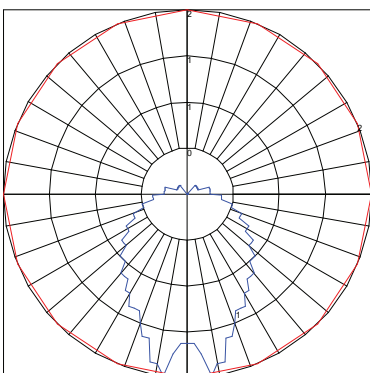


Maximum Candela = 25.3 Located At Horizontal Angle = 22.5, Vertical Angle = 12.5
 # 1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)
 # 2 - Horizontal Cone Through Vertical Angle (12.5) (Through Max. Cd.)

Frosted Globe

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

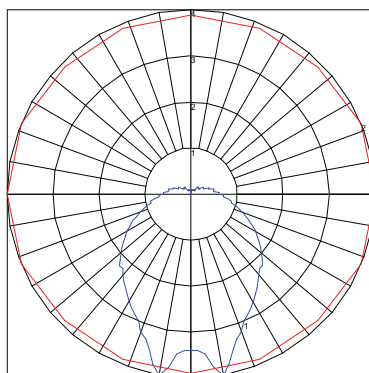
| POLAR GRAPH AND MAXIMUM CANDELA INTENSITY | | | |
|---|-----------------------------|---------------------------|--|
| Maximum Candela | Location - Horizontal Angle | Location - Vertical Angle | |
| 1.6 | 0 | 7.5 | |



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.)

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

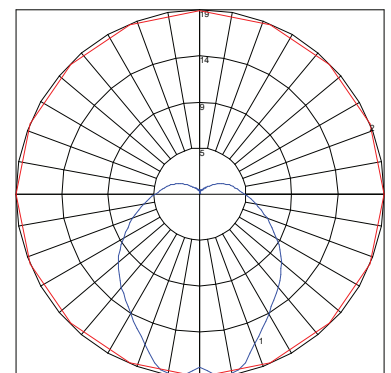
| POLAR GRAPH AND MAXIMUM CANDELA INTENSITY | | | |
|---|-----------------------------|---------------------------|--|
| Maximum Candela | Location - Horizontal Angle | Location - Vertical Angle | |
| 4 | 0 | 10 | |



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.)

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.)

Power Supplies

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 50/60 Hz | 12V DC | 2 | 2x60W | 5A |
| | ADNM-240-3-5-12-din-3 | | | | 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 |
|--|-------------------|---------------------|-----------------|-------------------|------------------|----------|----------|------------------|
| 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 |