MODA GRAZE® INTERIOR COLOR ELV



| Client: | Project Name: | | | | | | |
|---------------|---------------|------|--|--|--|--|--|
| MODA Contact: | | | | | | | |
| SKU: | | PO#: | | | | | |
| Notes: | | | | | | | |
| | | | | | | | |



Specification Grade Premium Interior Graze Fixture.

MODA GRAZE Interior is a patent pending wall grazing lighting system designed for interior applications. Utilizing MODA's latest software and dimming technology with its onboard dimming chipset and MODA firmware, this series can dim to 0% smoothly without any flicker or noise and simultaneously synchronize dim with every fixture. Electronic Low Voltage dimming with no minimum run lengths.

Wall wash any applications with a choice of 6°, 10°, 25°, 40°, 10°x40°, 30°x60°, or forward throw asymmetric beam patterns for HO, or 30°x100° for HO+ Lumen packages. 100-277V, 50/60Hz power input allows these fixtures to be installed anywhere in the world. New patent pending locking bracket rotates 180° for a multitude of light directions. Rugged aluminum design. Fast installation is achieved with MODA KWIK CONNECT plugs and install-integral thumb latch connectors.

Saturated vivid colors change and enhance any environment. Choose from Red, Green, Blue, Cyan, Amber, Yellow, Golden Yellow, Ice Blue, Light Green, Pink, Violet or Turquoise. Available in 1ft & 4ft sections. Series is designed for driver or light engine to be factory replaced at its end of life or recycled.

Designed and developed in Las Vegas, USA by MODA.



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PHYSICAL

| Dimensions | L: 12 3/8in (316mm) L: 47 5/16in (1202mm) | W: 2 7/16in (61mm) H: 2 3/8in (60mm) | | | | |
|-----------------------|--|---|--|--|--|--|
| Weight | 12in: 1lbs (0.45kg) 48in: 3.3lbs (1.5kg) | | | | | |
| Applications | Graze, Accent, & Indirect General Illumination | | | | | |
| Construction | Pure Aluminum Body, Polycarbonate Mounting Bracket and Polycarbonate Optical Lens | | | | | |
| Ingress Protection | Dry/Damp Location IP44 | | | | | |
| Thermal Management | Moda Aluminum Heat Sink | | | | | |
| Fixture Connections | Integral Male & Female (| Connectors | | | | |
| Operating Temperature | rature -40°F ~ 122°F (-40°C ~ 50°C) | | | | | |
| Storage Temperature | -40°F ~ 176°F (-40°C ~ | ~ 80°C) | | | | |
| Humidity | 0-95% Non Condensing | | | | | |

SPECIFICATIONS

| | Lur | nens | Effic | cacy |
|-----|------------|-----------------------|----------|----------|
| | 1FT | 4FT | 1FT | 4FT |
| НО | 592 - 1098 | 92 - 1098 2068 - 3950 | | 51 - 99 |
| HO+ | 288 - 1104 | 958 - 4420 | 28 - 110 | 24 - 110 |

POWER CONSUMPTION

120V - 277V AC

| | 1FT | 4FT |
|-----|-----|-----|
| НО | 10W | 40W |
| HO+ | 10W | 40W |

ELECTRICAL

| Input Voltage | 100-277V AC 50Hz/60Hz |
|---------------|--|
| Control | Electronic Low Voltage Reverse Phase Trailing Edge |
| Power Factor | ≥ 0.98 |

MAX CONTINUOUS RUN

| | 120V AC | 2//V AC |
|-----|---------|---------|
| НО | 60ft | 120ft |
| HO+ | 60ft | 120ft |

OUTPUT

| CCT & SDCM | N/A |
|---------------------|---|
| Colors | Red, Green, Blue, Amber, Yellow, Pink, Cyan, Violet, Turquoise, Ice Blue, Light Green, Golden Yellow available |
| Beam Angle | 6°, 10°, 25°, 40°, 10°x40°, 30°x60°, Forward Throw Asymmetric, or 30°x100° optic options |
| Color Bin Tolerance | Single Bin |
| CRI | N/A |
| Lumen Maintenance | 90,000 Hours L70 @ 25°C 70,000 Hours L70 @ 50°C |
| Testing Data | Light Data LM-79-08 & LM-80-08 |

COLORS

| | НО | HO+ |
|---------------|----|-----|
| Red | • | • |
| Green | • | • |
| Blue | • | • |
| Amber | • | • |
| Cyan | | • |
| Ice Blue | | • |
| Light Green | | • |
| Yellow | | • |
| Golden Yellow | | • |
| Turquoise | | • |
| Pink | | • |
| Violet | | • |

BEAM ANGLES

| | НО | HO+ |
|---------------|------|----------|
| 6° | • | |
| 10° | • | |
| 25° | • | |
| 40° | • | |
| 10°x40° | • | |
| 30°x60° | • | |
| Forward Throw | | |
| Asymmetric | • | |
| 30°x100° | | • |
| | • A. | railable |

Available

MODA TECHNOLOGY

moda **software**™ moda zero bin™

moda hardware™ MOCO THERMAL MANAGEMENT™

MOCO DYNAMIC WARM™ moda airflow™

moda**phosphor**™ MOda **communicate**™

moda **Driver**™ modakwik connect™

STANDARDS & CERTIFICATIONS



Warranty







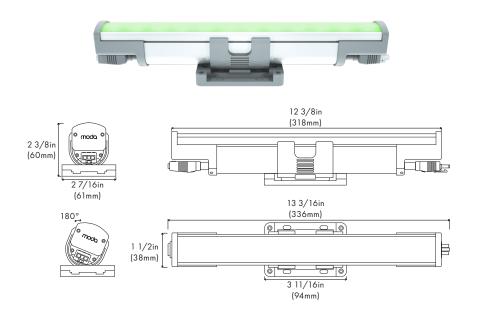




Tested to UL & CSA by Intertek For Use in USA & CANADA. Exceeds ANSI C78.377-2015, CE, CCC, Certification C-Tick, RoHS, & WEEE Compliant. Class

3 Year Limited Warranty





ELV

| 1FT | | ć | S° | 1 | 0° | 2 | 5° | 4 | 0° | 10° | ر40° | 30° | ۸60° | | d Throw metric |
|--------|-------|---------|----------|---------|----------|---------|----------|---------|----------|---------|----------|---------|----------|---------|-------------------|
| Output | CCT | Lumens | Efficacy |
| | Red | 918.00 | 91.80 | 906.00 | 90.60 | 892.00 | 89.20 | 882.00 | 88.20 | 873.00 | 87.30 | 870.00 | 87.00 | 868.00 | 86.80 |
| | Green | 1098.00 | 109.80 | 1086.00 | 108.60 | 1072.00 | 107.20 | 1062.00 | 106.20 | 1053.00 | 105.30 | 1050.00 | 105.00 | 1048.00 | 104.80 |
| НО | Blue | 642.00 | 64.20 | 630.00 | 63.00 | 616.00 | 61.60 | 606.00 | 60.60 | 597.00 | 59.70 | 594.00 | 59.40 | 592.00 | 59.20 |
| | Amber | 1038.00 | 103.8 | 1026.00 | 102.60 | 1012.00 | 101.20 | 1002.00 | 100.20 | 993.00 | 99.30 | 999.00 | 99.90 | 988.00 | 98.90 |

Power

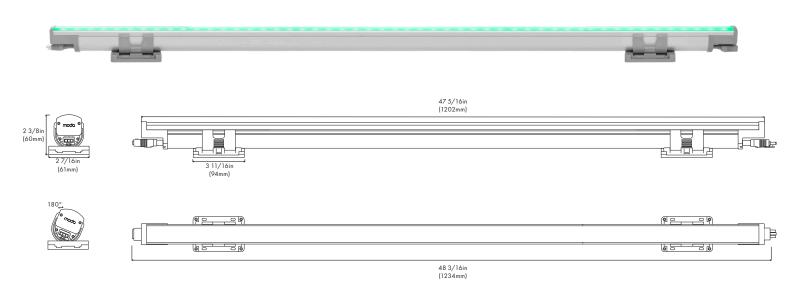
| 1FT | | 30°x100° | | 1FT | | 30°x100° | | |
|--------|--|----------|-----------|--------|---------------|----------|----------|--|
| Output | CCT | Lumens | Efficacy | Output | CCT | Lumens | Efficacy | |
| | Red | 288.00 | 28.00 | - | Light Green | 912.00 | 91.20 | |
| НО+ | Green | 336.00 | 33.60 | | Yellow | 360.00 | 36.00 | |
| | Blue | 240.00 | | 110 | Golden Yellow | 792.00 | 79.20 | |
| | Amber 384.00 38.40 Cyan 1104.00 110.40 | HO+ | Turquoise | 288.00 | 28.80 | | | |
| | | Pink | 362.00 | 36.20 | | | | |
| | Ice Blue | 648.00 | 64.80 | | Violet | 312.00 | 31.20 | |

BEAM ANGLE

| | НО | HO+ | | Consumption | Max Run L | .ength |
|--|----|-----|--------|-------------|-----------|---------|
| 6° / 10° / 25° / 40° / 10°x40° / 30°x60° | | | Output | 100-277V AC | 120V AC | 277V AC |
| Forward Throw Asymmetric | • | | но | 10W | 60 ft | 120 ft |
| 30°x100° | | • | HO+ | 10W | 60 ft | 120 ft |

• Available





ELV

| 4FT | | 6 | o° | 10 | 0° | 2 | 5° | 4 | 0° | 10° | ٠40° | 30°2 | ×60° | | d Throw metric |
|--------|-------|---------|----------|---------|----------|---------|----------|---------|----------|---------|----------|---------|----------|---------|-------------------|
| Output | CCT | Lumens | Efficacy |
| | Red | 3222.00 | 80.55 | 3210.00 | 80.25 | 3196.00 | 79.90 | 3186.00 | 79.65 | 3177.00 | 79.42 | 3174.00 | 79.35 | 3172.00 | 79.30 |
| НО | Green | 3942.00 | 98.55 | 3950.00 | 98.75 | 3930.00 | 98.25 | 3906.00 | 97.65 | 3897.00 | 97.42 | 3894.00 | 97.35 | 3892.00 | 97.30 |
| но | Blue | 2118.00 | 52.95 | 2106.00 | 52.65 | 2092.00 | 52.30 | 2082.00 | 52.05 | 2073.00 | 51.82 | 2070.00 | 51.75 | 2068.00 | 51.70 |
| | Amber | 3702.00 | 92.55 | 3690.00 | 92.25 | 3676.00 | 91.90 | 3666.00 | 91.65 | 3657.00 | 91.42 | 3654.00 | 91.35 | 3652.00 | 91.30 |

| 4FT | | 30°x | 100° | 4FT | | 30°x | 100° |
|--------|--------------------------|-------------|----------|--------|---------------|---------|----------|
| Output | ССТ | Lumens | Efficacy | Output | CCT | Lumens | Efficacy |
| | Red 1150.00 28.75 | Light Green | 3644.00 | 91.10 | | | |
| | Green | 1339.00 | 33.47 | | Yellow | 1435.00 | 35.87 |
| НО. | Blue | 958.00 | 23.95 | HO+ | Golden Yellow | 3164.00 | 79.10 |
| HO+ | Amber | 2880.00 | 72.00 | пОт | Turquoise | 1151.00 | 28.77 |
| | Cyan | 4420.00 | 110.50 | | Pink | 1447.00 | 36.17 |
| | Ice Blue | 2587.00 | 64.67 | | Violet | 1242.00 | 31.05 |

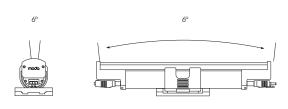
BEAM ANGLE

| | | Power | | | |
|--------|-------------|-------------|--|--|--|
| НО НО+ | | Consumption | Max Run I | .ength | |
| | Output | 100-277V AC | 120V AC | 277V AC | |
| • | НО | 40W | 60 ft | 120 ft | |
| • | HO+ | 40W | 60 ft | 120 ft | |
| | HO HO+ • | • Output | HO HO+ Consumption Output 100-277V AC HO 40W | HO HO+ Consumption Max Run I Output 100-277V AC 120V AC HO 40W 60 ft | |

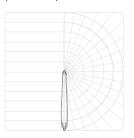
• Available



6° Beam Angle



Polar Candela Distribution (HO Green)

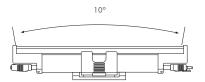


Illuminance at a Distance (HO Green)

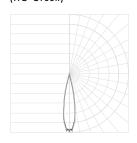
| | Center E | Beam FC | Beam Width | |
|-----------|------------|-----------|---------------------|--------|
| | 1 Foot | 4 Foot | | |
| | | | | |
| 2.0 ft _ | 50.00 fc | 179.50 fc | 0.3 ft | 0.2 ft |
| | | | | |
| 4.0 ft _ | 12.50 fc | 44.87 fc | 0.7 ft | 0.6 ft |
| | | | | |
| 6.0 ft _ | 6.25 fc | 22.43 fc | 1.1 ft | 1.0 ft |
| | | | | |
| 8.0 ft _ | 3.12 fc | 11.21 fc | 1.5 ft | 1.4 ft |
| | | | | |
| 10.0 ft _ | 1.56 fc | 5.60 fc | 2.0 ft | 1.9 ft |
| | | | | |
| 12.0 ft | 1.25 fc | 4.48 fc | 2.4 ft | 2.3 ft |
| | ✓ Vert. Sp | read: 6° | ✓ Horiz, Spread: 6° | |

10° Beam Angle





Polar Candela Distribution (HO Green)

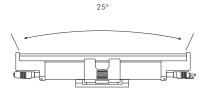


Illuminance at a Distance (HO Green)

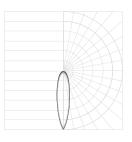
| | Center E | Beam FC | Beam Width | |
|----------|------------|-----------|----------------------|--------|
| | 1 Foot | 4 Foot | | |
| | | | | |
| 2.0 ft _ | 47.29 fc | 172.03 fc | 0.4 ft | 0.3 ft |
| | | | | |
| 4.0 ft _ | 11.82 fc | 43.00 fc | 0.8 ft | 0.7 ft |
| | | | | |
| 6.0 ft _ | 5.91 fc | 21.50 fc | 1.2 ft | 1.1 ft |
| | | | | |
| 8.0 ft _ | 2.95 fc | 10.75 fc | 1.6 ft | 1.5 ft |
| | | | | |
| 10.0 ft | 1.47 fc | 5.37 fc | 2.1 ft | 2.0 ft |
| | | | | |
| 12.0 ft | 1.18 fc | 4.30 fc | 2.5 ft | 2.4 ft |
| | ✓ Vert. Sp | read: 10° | ✓ Horiz. Spread: 10° | |

25° Beam Angle





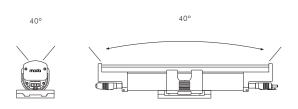
Polar Candela Distribution (HO Green)



Illuminance at a Distance (HO Green)

| | Center E | Beam FC | Beam Width | |
|---------|------------|-----------|----------------------|--------|
| | 1 Foot | 4 Foot | | |
| 2.0 ft | 28.98 fc | 106.27 fc | 0.5 ft | 0.5 ft |
| 4.0 ft | 7.24 fc | 26.56 fc | 1.0 ft | 1.0 ft |
| 6.0 ft | 3.62 fc | 13.28 fc | 1.5 ft | 1.6 ft |
| 8.0 ft | 1.81 fc | 6.64 fc | 2.0 ft | 2.2 ft |
| 10.0 ft | 0.90 fc | 3.32 fc | 2.5 ft | 2.7 ft |
| 12.0 ft | 0.72 fc | 2.65 fc | 3.0 ft | 3.2 ft |
| | ✓ Vert. Sp | read: 25° | ✓ Horiz. Spread: 25° | |

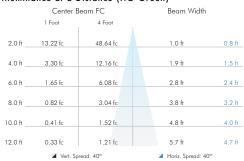
40° Beam Angle



Polar Candela Distribution (HO Green)

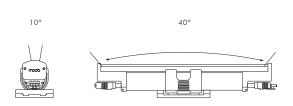


Illuminance at a Distance (HO Green)





10°x40° Beam Angle



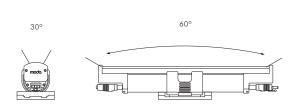
Polar Candela Distribution (HO Green)



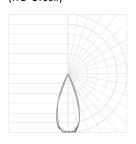
Illuminance at a Distance (HO Green)

| | Center E | Beam FC | Beam Width | |
|-----------|------------|-----------|----------------------|--------|
| | 1 Foot | 4 Foot | | |
| 2.0 ft _ | 33.03 fc | 122.23 fc | 0.7 ft | 0.5 ft |
| 4.0 ft _ | 8.25 fc | 30.55 fc | 1.5 ft | 1.0 ft |
| 6.0 ft _ | 4.12 fc | 15.27 fc | 2.2 ft | 1.4 ft |
| 8.0 ft _ | 2.06 fc | 7.63 fc | 3.0 ft | 1.9 ft |
| 10.0 ft _ | 1.03 fc | 3.81 fc | 4.6 ft | 2.4 ft |
| 12.0 ft | 0.82 fc | 3.05 fc | 4.4 ft | 3.0 ft |
| | ✓ Vert. Sp | read: 10° | ✓ Horiz. Spread: 40° | |

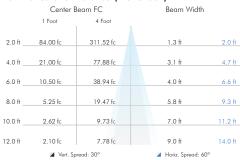
30°x60° Beam Angle



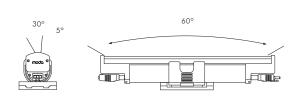
Polar Candela Distribution (HO Green)



Illuminance at a Distance (HO Green)



Forward Throw Asymmetric Beam Angle



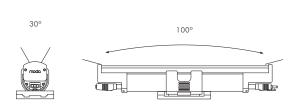
Polar Candela Distribution (HO Green)



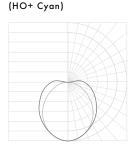
Illuminance at a Distance (HO Green)

| | Center B | Beam FC | Beam Width |
|----------|-----------|-----------|---------------------|
| | 1 Foot | 4 Foot | |
| | | | |
| 2.0 ft | 12.17 fc | 45.22 fc | 1.3 ft 0.3 ft |
| | | | |
| 4.0 ft _ | 3.04 fc | 11.30 fc | 2.6 ft 0.9 ft |
| | | | |
| 6.0 ft _ | 1.52 fc | 5.65 fc | 3.9 ft 1.3 ft |
| | | | |
| 8.0 ft | 0.76 fc | 2.82 fc | 5.2 ft 1.6 ft |
| | | | |
| 10.0 ft | 0.38 fc | 1.41 fc | 6.5 ft 1.9 ft |
| | | | |
| 12.0 ft | 0.30 fc | 1.13 fc | 7.8 ft 2.6 ft |
| | ✓ Vert Sn | rend: 30° | ✓ Horiz Spread: 60° |

30°x100° Beam Angle



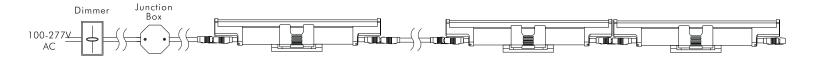
Polar Candela Distribution



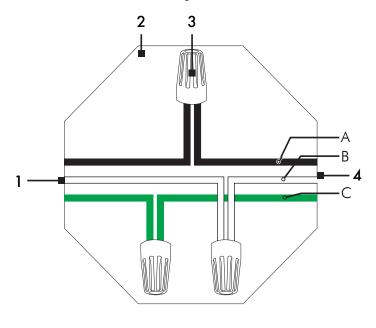
Illuminance at a Distance (HO+ Cyan)

| mominance at a distance (nor cyan) | | | | | | |
|------------------------------------|------------|-----------|-----------------------|--|--|--|
| | Center E | Beam FC | Beam Width | | | |
| | 1 Foot | 4 Foot | A | | | |
| 2.0 ft _ | 102.22 fc | 409.25 fc | 1.3 ft 2.0 ft | | | |
| 4.0 ft _ | 25.55 fc | 102.31 fc | 3.1 ft 4.2 ft | | | |
| 6.0 ft _ | 12.77 fc | 51.15 fc | 4.0 ft 6.6 ft | | | |
| 8.0 ft _ | 6.38 fc | 25.57 fc | 5.8 ft 9.3 ft | | | |
| 10.0 ft _ | 3.19 fc | 12.78 fc | 7.0 ft 11.2 ft | | | |
| 12.0 ft | 2.55 fc | 10.23 fc | 9.0 ft 14.0 ft | | | |
| | ✓ Vert. Sp | read: 30° | ✓ Horiz. Spread: 100° | | | |

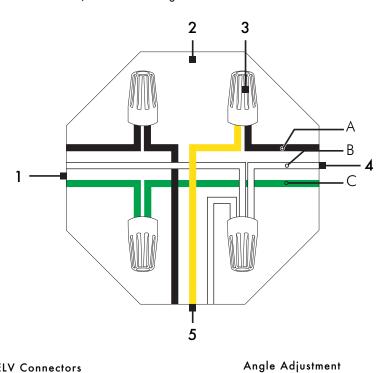




UL / cUL Non-dimming



UL / cUL ELV Dimming



Wiring Legend

| 1 | Power 100-277V AC |
|---|--------------------|
| 2 | Junction Box |
| 3 | Wiring Nuts |
| 4 | 3 Pin Leader Cable |
| 5 | ELV Dimmer |

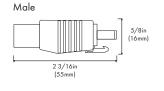
3 Pin Leader Cable

| | | UL/cUL | CE/CCC* |
|---|------------------|---------------|------------------|
| Α | Live 100-277V AC | - Black | - Brown |
| В | Neutral | == White | Bl ue |
| С | Ground | G reen | Green/ Yellow |

*Not illustrated

ELV Connectors

Female

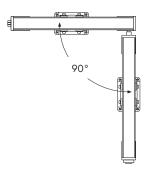


1 15/16in (48mm)

5/8in

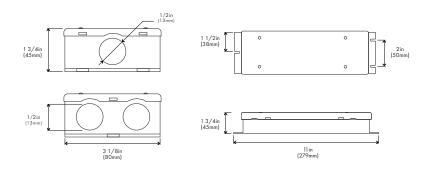








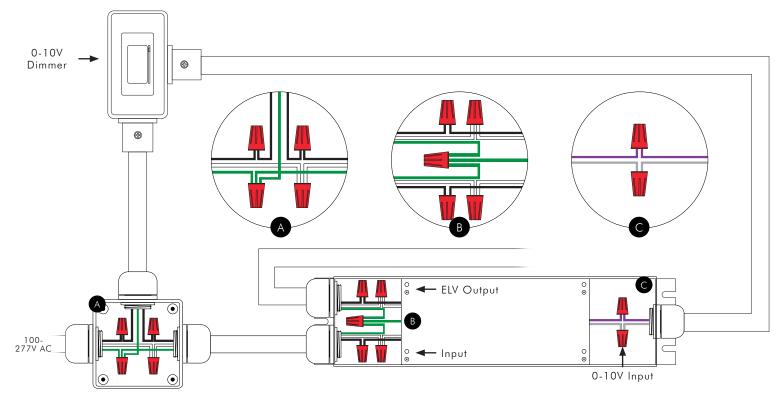




MODA BRIDGE 1

Converting 0-10V to ELV.

MODA BRIDGE 1 solves many installation issues. It accepts a standard 0-10V signal from most dimmers and dimming systems and internally converts this signal into a Electronic Low Voltage (ELV) signal. Thus enabling 0-10V control of an ELV fixture. It is optimized to perform precise smooth flicker free dimming down to 0%. Simple wiring with its integral 1/2in holes which accepts liquid tight or interior conduit connectors. Wire to any 100-277V 50/60 Hz feed. Power up to 840W of fixtures at 120V, 1600W at 230V, and 1900W at 277V. Fully potted enables the installer to mount this product virtually anywhere with its Wet Location IP65 rating. Fully protected from surge, short circuit, open circuit and over temperature. Power Input and data interface protected with High Grade Surge Protection. Designed and developed by MODA LIGHT, Las Vegas USA



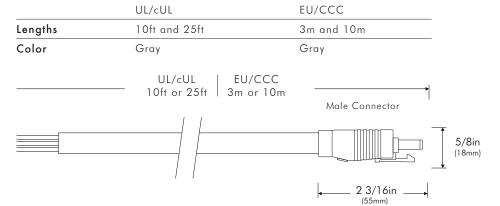
| Input | | | | |
|------------------|--------|--------|-------|------------------|
| | UL/cUI | L | CE/CC | C* |
| Live 100-277V AC | | Black | | Brown |
| Neutral | _ | White | | Blue |
| Ground | | Green | | Green/Yellow |
| 0-10V / Data + | | Purple | | Purple |
| 0-10V / Data - | _ | Grey | _ | Grey |
| | | | | *Not illustrated |

| Output | | | | |
|------------------|--------|-------|-------|------------------|
| | UL/cUI | _ | CE/CC | C* |
| Live 100-277V AC | | Black | | Brown |
| Neutral | | White | | Blue |
| Ground | | Green | | Green/Yellow |
| | | | | *Not illustrated |
| | | | | |
| | | | | |



ELV Leader Cables

Moda Cove Interior 3 Pin Leader Cables

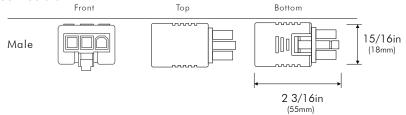


Pin Assignment



| | | UL/cUL | EU/CCC |
|---|---------------|--------|--------------|
| 1 | Live 100-277V | Black | Brown |
| 2 | Ground | Green | Green/Yellow |
| 3 | Neutral | White | Blue |

Connectors



ELV Jumper Cables

Moda Cove Interior 3 Pin Jumper Cables

UL/cUL

| Lengths | 1ft and 4ft | 300mm and 1m | |
|------------------|------------------------|-------------------------------------|-----------------|
| Color | Gray | Gray | |
| Female Connector | UL/cUL 1ft or 4ft | EU/CCC 300m or 1m Male Connector | |
| | | | 5/8in (18mm) |
| 1 15/16in | , , | ← 2 3/16in → (55mm) | |

EU/CCC

Pin Assignment

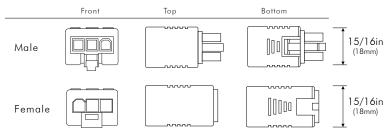


| | | UL/cUL | EU/CCC |
|---|---------------|--------|--------------|
| 1 | Live 100-277V | Black | Brown |
| 2 | Ground | Green | Green/Yellow |
| 3 | Neutral | White | Blue |



| | | UL/cUL | EU/CCC |
|---|---------------|--------|--------------|
| 1 | Live 100-277V | Black | Brown |
| 2 | Ground | Green | Green/Yellow |
| 3 | Neutral | White | Blue |

Connectors







COMPLETE SKU SAMPLE: MGI-HOP-S1-S-IB-1-310

| A - FIXTURE & LC | CATION | E - LED | COLOR | |
|-------------------------|---------------------|-----------------------|-----------------|--------------------------|
| MGI – | Moda Graze Interior | R | _ | Red |
| | | А | _ | Amber |
| | | GY* | _ | Golden Yellow |
| | | Υ* | _ | Yellow |
| | | LG* | _ | Light Green |
| | | G | _ | Green |
| | | IB* | _ | Ice Blue |
| B - LIGHT OUTPU | JT | TQ* | _ | Turquoise |
| | | C* | _ | Cyan |
| HO – | High Output | В | _ | Blue |
| HOP — | High Output Plus | V* | _ | Violet |
| | | P* * Available o | — nly in HOP | Pink |
| | | 1 4 | _ _ | 1FT 4FT |
| C - SERIES NUMB | ER | | | |
| S1 — | Series 1 | G - OPT | IC | |
| | | 6 | _ | 6° x 6° |
| | | 10 | _ | 10° x 10° |
| | | 25 | _ | 25° x 25° |
| | | 40 | _ | 40° x 40° |
| | | 140 | _ | 10° x 40° |
| | | 360 | _ | 30° x 60° |
| D - PRODUCT FII | NISH | 365 | _ | Forward Throw Asymmetric |
| S – | Silver | 310* * Available o | — nly in HOP | 30° x 100° |



| ACCESSORIES | DESCRIPTION | ORDERING SKU |
|-----------------------------|---|----------------------|
| Leader Cable US 3 Pin 10FT | Power to first fixture of run | MLCI-US-3PIN-G-10FT |
| Leader Cable US 3 Pin 25FT | Power to first fixture of run | MLCI-US-3PIN-G-25FT |
| Jumper Cable US 3 Pin 1FT | Connection between fixtures | MJCI-US-3PIN-G-1FT |
| Jumper Cable US 3 Pin 4FT | Connection between fixtures | MJCI-US-3PIN-G-4FT |
| Leader Cable EU 3 Pin 3M | Power to first fixture of run | MLCI-EU-3PIN-G-3M |
| Leader Cable EU 3 Pin 10M | Power to first fixture of run | MLCI-EU-3PIN-G-10M |
| Jumper Cable EU 3 Pin 300MM | Connection between fixtures | MJCI-EU-3PIN-G-300MM |
| Jumper Cable EU 3 Pin 1M | Connection between fixtures | MJCI-EU-3PIN-G-1M |
| Terminator 3 Pin | Must be fixed to last fixture for safety | MTI-3PIN-G |
| Interior Bracket Lock | Holds fixture in place for vertical installations | MCGI-BL-G |
| CONTROLS | DESCRIPTION | ORDERING SKU |
| Bridge 1 US | Allows user to convert a 0-10V dimming signal into an ELV dimming signal. North American Model | 250-0000 |