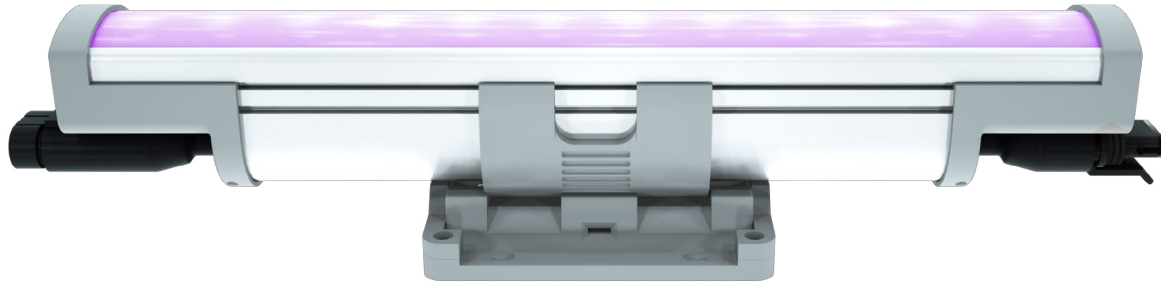


Client: _____ Project Name: _____

MODA Contact: _____ E-Mail: _____

Type: _____ PO#: _____ Quantity: _____

Notes: _____



Specification Grade Premium Exterior Graze Fixture.

MODA GRAZE Exterior is a new patent pending cove lighting system designed for exterior 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 has 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. Fast installation is achieved with MODA KWIK CONNECT plugs and install-integral thumb latch connectors. Rugged aluminum design. Protected from corrosion and harsh weather conditions by MODA GUARD—a tough seal which protects the fixture.

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.

PAGE	
3	FEATURES
4	1 FOOT
5	4 FOOT
6	OPTIC FLEXIBILITY
7	OPTIC FLEXIBILITY CONTINUED
8	CHROMATICITY
9	ELV WIRING
10	ACCESSORIES: LEADER CABLES
11	ACCESSORIES: JUMPER CABLES
12	ACCESSORIES: SUMMARY
13	ITEM NUMBER

PHYSICAL

Lengths	1ft & 4ft sections available
Applications	Graze, Accent & Indirect General Illumination
Construction	Pure Aluminum Body, Polycarbonate Mounting Bracket and Lens
Ingress Protection	Wet Location IP66
Thermal Management	MODA Aluminum Heat Sink
Beam Angle	6°, 10°, 25°, 40°, 10°x40°, 30°x60°, forward throw asymmetric, or 30°x100° optic options
Fixture Connections	Integral Male & Female Connectors
Operating Temperature	-40°F ~ 122°F (-40°C ~ 50°C)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)
Humidity	0-95% Non Condensing

OUTPUT

CCT & SDCM	N/A
Colors	Red, Green, Blue, Amber, Yellow, Pink, Cyan, Violet, Turquoise, Ice Blue, Light Green, Golden Yellow available
Color Bin Tolerance	Single Bin
CRI	N/A
Lumen Maintenance	90,000 Hours L50 @ 25°C 70,000 Hours L50 @ 50°C
Testing Data	Light Data LM-79-08 & LM-80-08

ELECTRICAL

Input Voltage	100-277V AC 50Hz/60Hz
Dimming	Electronic Low Voltage Reverse Phase Trailing Edge
Power Factor	≥ 0.98
Emergency	N/A

COLORS

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

BEAM ANGLES

	HO	HO+
6°	•	
10°	•	
25°	•	
40°	•	
10°x40°	•	
30°x60°	•	
Forward Throw Asymmetric	•	
30°x100°		•
• Available		

MODA TECHNOLOGY

moda**SOFT**[™]

moda**LINEAR OPTIC**[™]

moda**DIM**[™]

moda**DRIVER**[™]

moda**KWIK CONNECT**[™]

moda**PHOSPHOR**[™]

moda**COMMUNICATE**[™]

moda**THERMAL MANAGEMENT**[™]

moda**CUE**[™]

moda**BIN**[™]

moda**GUARD**[™]

moda**HIGH CRI**[™]

moda**SEAL**[™]

moda**OPTIC**[™]



Certification

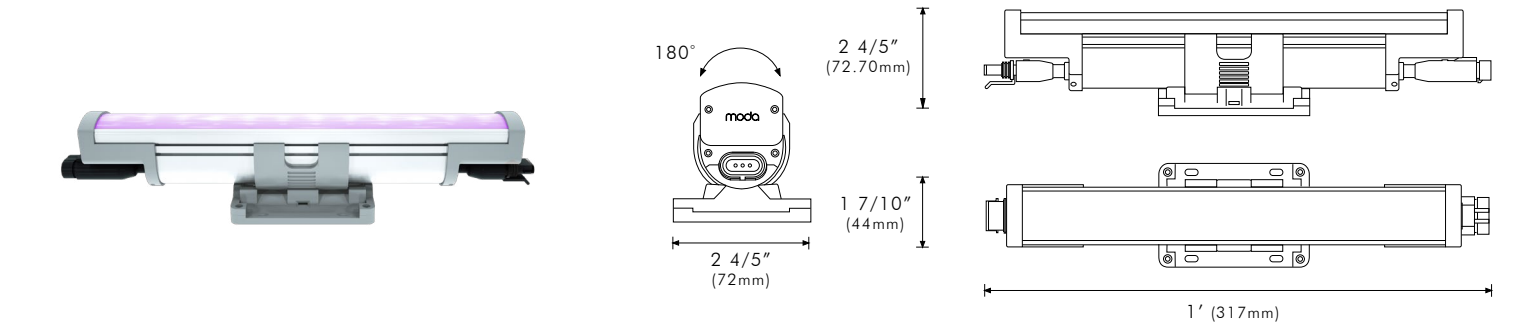
Tested to UL & CSA by Intertek For Use in USA & CANADA. Exceeds ANSI C78.377-2015, CE, C-Tick, RoHS, & WEEE Compliant.

Class

1

Warranty

3 Year Limited Warranty

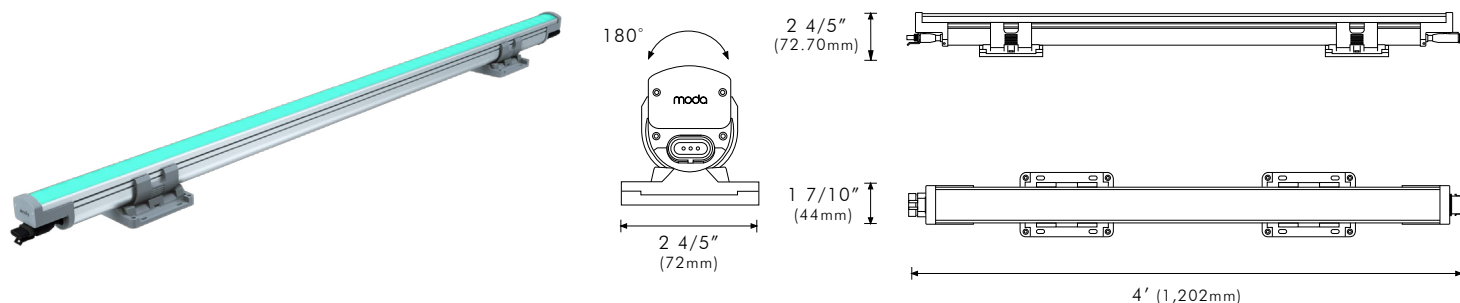


ELV

		6°		10°		25°		40°	
Output	CCT	Lumens	Efficacy	Lumens	Efficacy	Lumens	Efficacy	Lumens	Efficacy
HO	Red	918.00	91.80	906.00	90.60	892.00	89.20	882.00	88.20
	Green	1098.00	109.80	1086.00	108.60	1072.00	107.20	1062.00	106.20
	Blue	642.00	64.20	630.00	63.00	616.00	61.60	606.00	60.60
	Amber	1038.00	103.80	1026.00	102.60	1012.00	101.20	1002.00	100.20

		10°x40°		30°x60°		Forward Throw Asymmetric	
Output	CCT	Lumens	Efficacy	Lumens	Efficacy	Lumens	Efficacy
HO	Red	873.00	87.30	870.00	87.00	868.00	86.80
	Green	1053.00	105.30	1050.00	105.00	1048.00	104.80
	Blue	597.00	59.70	594.00	59.40	592.00	59.20
	Amber	993.00	99.30	999.00	99.00	988.00	98.80

		30°x100°		Power		
Output	CCT	Lumens	Efficacy	Consumption	Max Run Length	
					100-277V AC	
HO+	Red	288.00	28.00	10W	120V AC	277V AC
	Green	336.00	33.60		60 ft	120 ft
	Blue	240.00	24.00	10W	60 ft	120 ft
	Amber	384.00	38.40			
	Cyan	1104.00	110.40			
	Ice Blue	648.00	64.80			
	Light Green	912.00	91.20			
	Yellow	360.00	36.00			
	Golden Yellow	792.00	79.20			
	Turquoise	288.00	28.80			
	Pink	362.00	36.20			
	Violet	312.00	31.20			



ELV

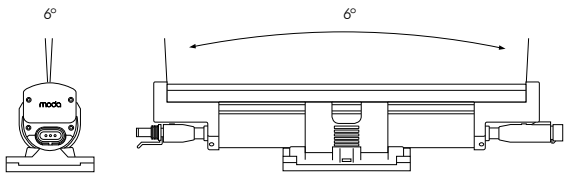
		6°		10°		25°		40°	
Output	CCT	Lumens	Efficacy	Lumens	Efficacy	Lumens	Efficacy	Lumens	Efficacy
HO	Red	3222.00	80.55	3210.00	80.25	3196.00	79.90	3186.00	79.65
	Green	3942.00	98.55	3950.00	98.75	3930.00	98.25	3906.00	97.65
	Blue	2118.00	52.95	2106.00	52.65	2092.00	52.30	2082.00	52.05
	Amber	3702.00	92.55	3690.00	92.25	3676.00	91.90	3666.00	91.65

		10°x40°		30°x60°		Forward Throw Asymmetric	
Output	CCT	Lumens	Efficacy	Lumens	Efficacy	Lumens	Efficacy
HO	Red	3177.00	79.42	3174.00	79.35	3172.00	79.30
	Green	3897.00	97.42	3894.00	97.35	3892.00	97.30
	Blue	2073.00	51.82	2070.00	51.75	2068.00	51.70
	Amber	3657.00	91.42	3654.00	91.35	3652.00	91.30

		30°x100°	
Output	CCT	Lumens	Efficacy
HO+	Red	1150.00	28.75
	Green	1339.00	33.47
	Blue	958.00	23.95
	Amber	2880.00	72.00
	Cyan	4420.00	110.50
	Ice Blue	2587.00	64.67
	Light Green	3644.00	91.10
	Yellow	1435.00	35.87
	Golden Yellow	3164.00	79.10
	Turquoise	1151.00	28.77
	Pink	1447.00	36.17
Violet	1242.00	31.05	

	Power Consumption	Max Run Length	
Output	100-277V AC	120V AC	277V AC
HO	40W	60 ft	120 ft
HO+	40W	60 ft	120 ft

6° Beam Angle



Polar Candela Distribution
(HO Green)

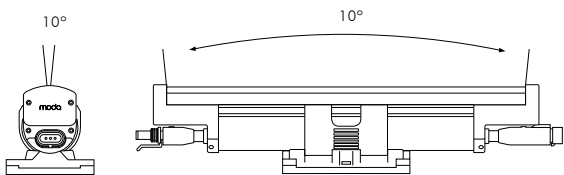


Illuminance at a Distance (HO Green)

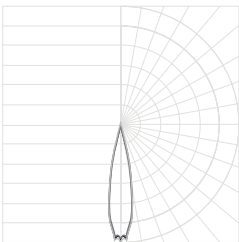
	Center Beam FC		Beam Width	
	1 Foot	4 Foot		
2.0 ft	50.00 fc	179.50 fc	0.3 ft	0.2 ft
4.0 ft	12.50 fc	44.87 fc	0.7 ft	0.6 ft
6.0 ft	6.25 fc	22.43 fc	1.1 ft	1.0 ft
8.0 ft	3.12 fc	11.21 fc	1.5 ft	1.4 ft
10.0 ft	1.56 fc	5.60 fc	2.0 ft	1.9 ft
12.0 ft	1.25 fc	4.48 fc	2.4 ft	2.3 ft

■ Vert. Spread: 6° ■ Horiz. Spread: 6°

10° Beam Angle



Polar Candela Distribution
(HO Green)

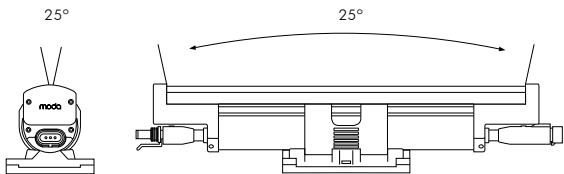


Illuminance at a Distance (HO Green)

	Center 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. Spread: 10° ■ Horiz. Spread: 10°

25° Beam Angle



Polar Candela Distribution
(HO Green)

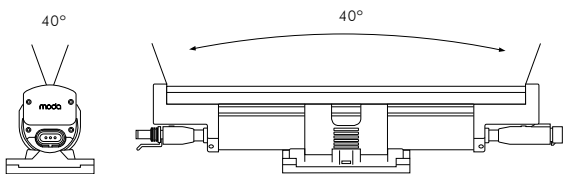


Illuminance at a Distance (HO Green)

	Center 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. Spread: 25° ■ Horiz. Spread: 25°

40° Beam Angle



Polar Candela Distribution
(HO Green)

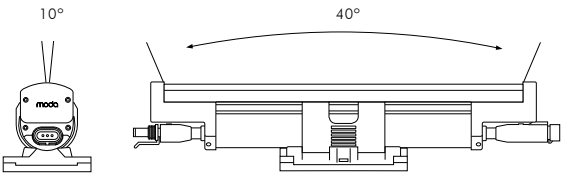


Illuminance at a Distance (HO Green)

	Center Beam FC		Beam Width	
	1 Foot	4 Foot		
2.0 ft	13.22 fc	48.64 fc	1.0 ft	0.8 ft
4.0 ft	3.30 fc	12.16 fc	1.9 ft	1.5 ft
6.0 ft	1.65 fc	6.08 fc	2.8 ft	2.4 ft
8.0 ft	0.82 fc	3.04 fc	3.8 ft	3.2 ft
10.0 ft	0.41 fc	1.52 fc	4.8 ft	4.0 ft
12.0 ft	0.33 fc	1.21 fc	5.7 ft	4.7 ft

■ Vert. Spread: 40° ■ Horiz. Spread: 40°

10°X40° Beam Angle



Polar Candela Distribution
(HO Green)

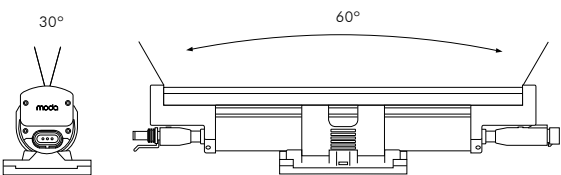


Illuminance at a Distance (HO Green)

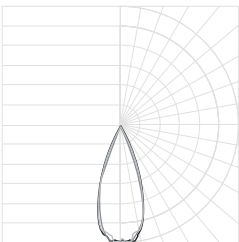
	Center Beam FC		Beam Width	
	1 Foot	4 Foot		
2.0 ft	33.03 fc	122.23 fc	0.7 ft	0.5 ft
4.0 ft	8.25 fc	30.55 fc	1.5 ft	1.0 ft
6.0 ft	4.12 fc	15.27 fc	2.2 ft	1.4 ft
8.0 ft	2.06 fc	7.63 fc	3.0 ft	1.9 ft
10.0 ft	1.03 fc	3.81 fc	4.6 ft	2.4 ft
12.0 ft	0.82 fc	3.05 fc	4.4 ft	3.0 ft

■ Vert. Spread: 10° ■ Horiz. Spread: 40°

30°x60° Beam Angle



Polar Candela Distribution
(HO Green)

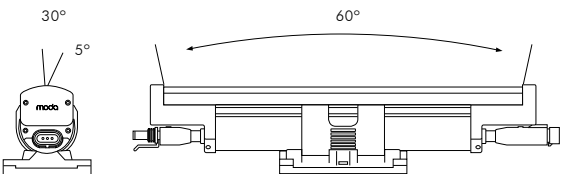


Illuminance at a Distance (HO Green)

	Center Beam FC		Beam Width	
	1 Foot	4 Foot		
2.0 ft	84.00 fc	311.52 fc	1.3 ft	2.0 ft
4.0 ft	21.00 fc	77.88 fc	3.1 ft	4.7 ft
6.0 ft	10.50 fc	38.94 fc	4.0 ft	6.6 ft
8.0 ft	5.25 fc	19.47 fc	5.8 ft	9.3 ft
10.0 ft	2.62 fc	9.73 fc	7.0 ft	11.2 ft
12.0 ft	2.10 fc	7.78 fc	9.0 ft	14.0 ft

■ Vert. Spread: 30° ■ Horiz. Spread: 60°

ForwardThrowAsymmetricBeam Angle



Polar Candela Distribution
(HO Green)

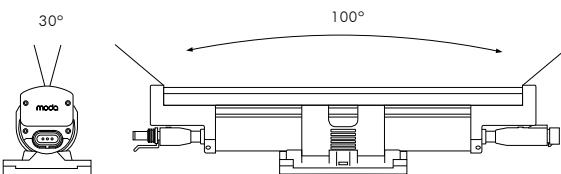


Illuminance at a Distance (HO Green)

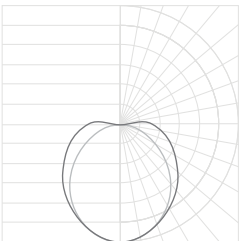
	Center Beam FC		Beam Width	
	1 Foot	4 Foot		
2.0 ft	12.17 fc	45.22 fc	1.3 ft	0.3 ft
4.0 ft	3.04 fc	11.30 fc	2.6 ft	0.9 ft
6.0 ft	1.52 fc	5.65 fc	3.9 ft	1.3 ft
8.0 ft	0.76 fc	2.82 fc	5.2 ft	1.6 ft
10.0 ft	0.38 fc	1.41 fc	6.5 ft	1.9 ft
12.0 ft	0.30 fc	1.13 fc	7.8 ft	2.6 ft

■ Vert. Spread: 30° ■ Horiz. Spread: 60°

30°x100° Beam Angle



Polar Candela Distribution
(HO+ Cyan)

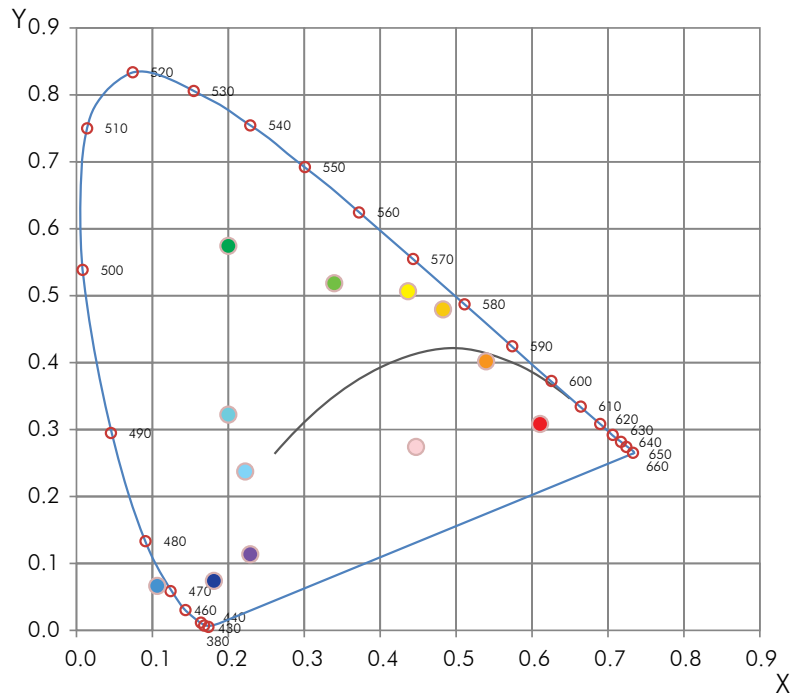


Illuminance at a Distance (HO+ Cyan)

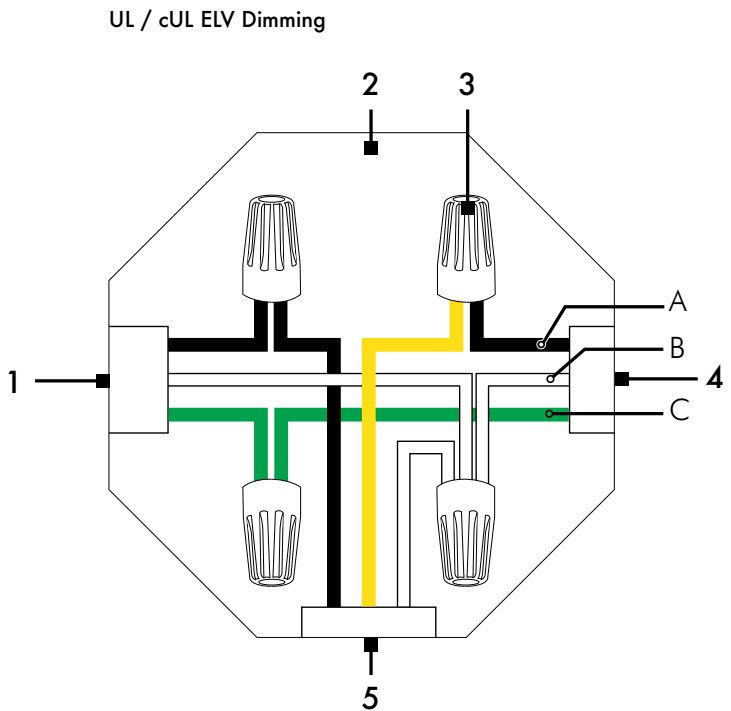
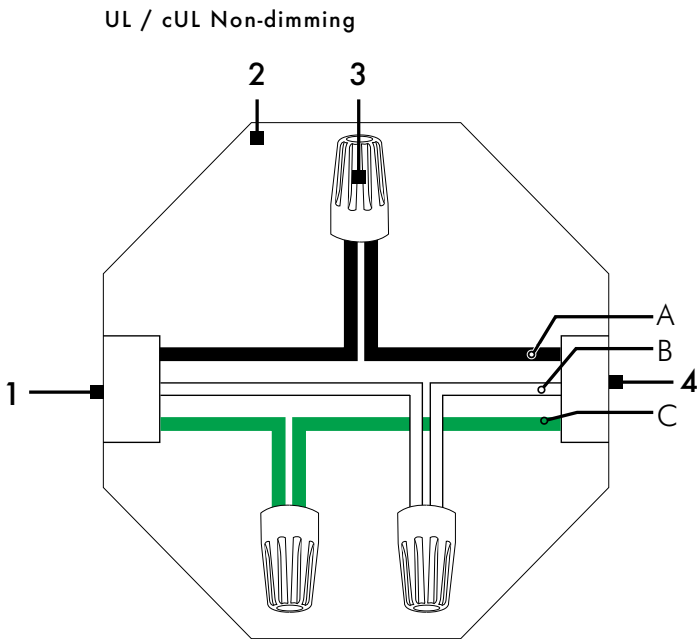
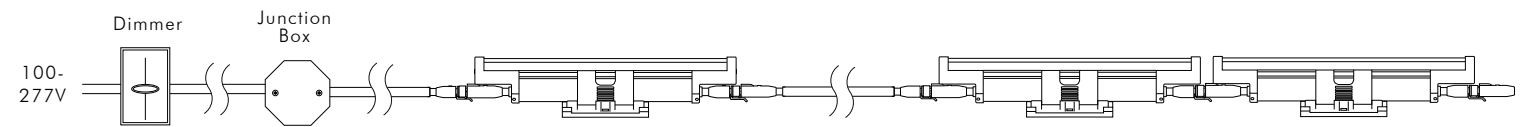
	Center Beam FC		Beam Width	
	1 Foot	4 Foot		
2.0 ft	102.22 fc	409.25 fc	1.3 ft	2.0 ft
4.0 ft	25.55 fc	102.31 fc	3.1 ft	4.2 ft
6.0 ft	12.77 fc	51.15 fc	4.0 ft	6.6 ft
8.0 ft	6.38 fc	25.57 fc	5.8 ft	9.3 ft
10.0 ft	3.19 fc	12.78 fc	7.0 ft	11.2 ft
12.0 ft	2.55 fc	10.23 fc	9.0 ft	14.0 ft

■ Vert. Spread: 30° ■ Horiz. Spread: 100°

CIE 1931 Chromaticity Diagram



Color		Coordinate	Wavelength
<div></div>	Red	x: 0.6221 y: 0.3174 u: 0.4482 v: 0.5111	620nm
<div></div>	Green	x: 0.2075 y: 0.5883 u: 0.0835 v: 0.5445	520nm
<div></div>	Blue	x: 0.1804 y: 0.0715 u: 0.2158 v: 0.1834	445nm
<div></div>	Amber	x: 0.5415 y: 0.4189 u: 0.3145 v: 0.5412	611nm
<div></div>	Yellow	x: 0.4441 y: 0.5161 u: 0.2140 v: 0.5593	557nm
<div></div>	Golden Yellow	x: 0.4814 y: 0.4892 u: 0.2438 v: 0.5568	583nm
<div></div>	Ice Blue	x: 0.2317 y: 0.2495 u: 0.1676 v: 0.4059	446nm
<div></div>	Cyan	x: 0.1158 y: 0.0735 u: 0.3234 v: 0.5522	473nm
<div></div>	Light Green	x: 0.3458 y: 0.5241 u: 0.1611 v: 0.5487	534nm
<div></div>	Pink	x: 0.4547 y: 0.2832 u: 0.3342 v: 0.4649	621nm
<div></div>	Violet	x: 0.2337 y: 0.1275 u: 0.2301 v: 0.2823	448nm
<div></div>	Turquoise	x: 0.2047 y: 0.3361 u: 0.1852 v: 0.5652	485nm



Wiring Legend

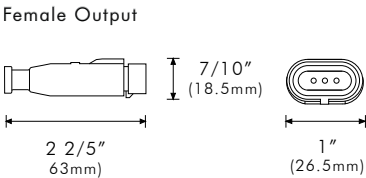
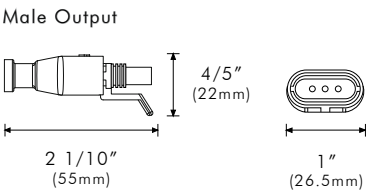
1	Power 100-277V
2	Junction Box
3	Wiring Nuts
4	3 Pin Leader Cable
5	ELV Dimmer

3 Pin Leader Cable

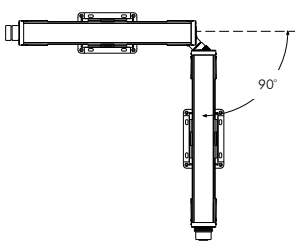
	UL/cUL	CE/CCC*
A Live 100-277V	Black	Brown
B Neutral	White	Blue
C Ground	Green/Yellow	Yellow/Green

*not illustrated

ELV Connectors



Angle Adjustment



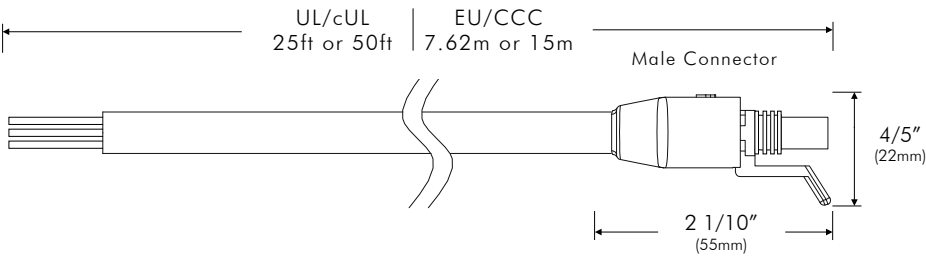
Compatible Dimmers

- Lutron MAELV-600 (600W)
- Lutron Skylark SELV-300P (300W)
- Leviton MNE04 (400W)
- Lutron DIVA DVELV-300P (300W)
- Lutron DIVA DVELV-300P (300W) ADJUSTED

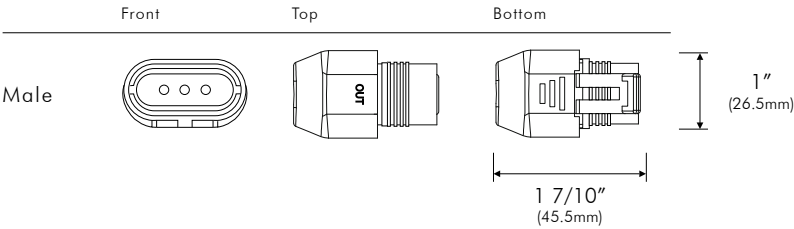
ELV

Moda Graze Exterior 3 Pin Leader Cables

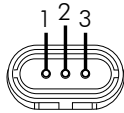
	UL/cUL	EU/CCC
Lengths	25ft and 50ft	7.62 and 15m
Color	Gray	Gray



Connectors



Pin Assignment



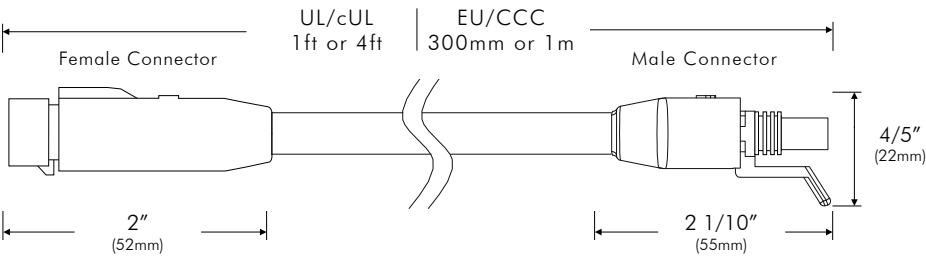
Male

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

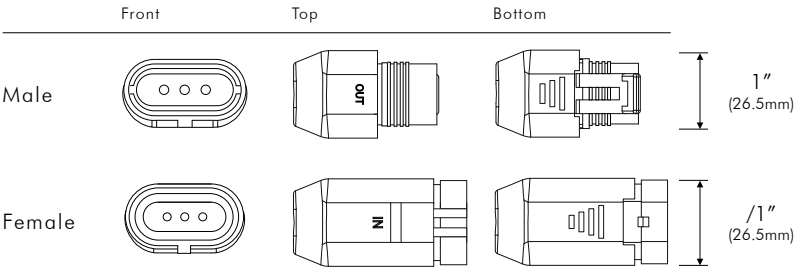
ELV

Moda Graze Exterior 3 Pin Jumper Cables

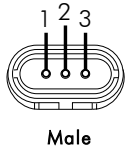
	UL/cUL	EU/CCC
Lengths	1ft and 4ft	300mm and 1m
Color	Gray	Gray



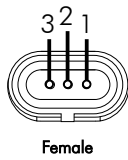
Connectors



Pin Assignment



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



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

NAME	SKU	DESCRIPTION
Leader Cable US 3 Pin 25ft	MLCE-US-3PIN-B-25FT	Power to first fixture of run
Leader Cable US 3 Pin 50ft	MLCE-US-3PIN-B-50FT	Power to first fixture of run
Jumper Cable US 3 Pin 1ft	MJCE-US-3PIN-B-1FT	Connection between fixtures
Jumper Cable US 3 Pin 4ft	MJCE-US-3PIN-B-4FT	Connection between fixtures
Leader Cable EU 3 Pin 7.62m	MLCE-EU-3PIN-B-7.62M	Power to first fixture of run
Leader Cable EU 3 Pin 15m	MLCE-EU-3PIN-B-15M	Power to first fixture of run
Jumper Cable EU 3 Pin 300mm	MJCE-EU-3PIN-B-300MM	Connection between fixtures
Jumper Cable EU 3 Pin 1m	MJCE-EU-3PIN-B-1M	Connection between fixtures
Terminator 3 Pin	MTE-3PIN-B	Must be fixed to last fixture for safety
Exterior Bracket Lock	MCGE-BL-G	Holds fixture in place for vertical installations



COMPLETE SKU SAMPLE: MGE-HOP-S1-S-V-4-310

A - FIXTURE & LOCATION

MGE	—	Moda Graze Exterior
-----	---	---------------------

B - LIGHT OUTPUT

HO	—	High Output
HOP	—	High Output Plus

C - SERIES NUMBER

S1	—	Series 1
----	---	----------

D - PRODUCT FINISH

S	—	Silver
---	---	--------

E - LED COLOR

R	—	Red
A	—	Amber
GY*	—	Golden Yellow
Y*	—	Yellow
LG*	—	Light Green
G	—	Green
IB*	—	Ice Blue
TQ*	—	Turquoise
C*	—	Cyan
B	—	Blue
V*	—	Violet
P*	—	Pink

* Available only for HOP

F - LENGTH

1	—	1FT
4	—	4FT

G - OPTIC

6	—	6° x 6°
10	—	10° x 10°
25	—	25° x 25°
40	—	40° x 40°
140	—	10° x 40°
360	—	30° x 60°
365	—	Forward Throw Asymmetric
310*	—	30° x 100°

* Available only for HOP