MODA MINI GRAZE® INTERIOR GLOWDIM

Client: _____ Project Name: _____

MODA Contact: _____ E-Mail: _____

Type: _____ PO#: _____ Quantity: _____

Notes: _____

Miniature Line Voltage Graze Fixture.

MODA MINI GRAZE GLOWDIM INTERIOR is an award winning, patented, miniature line voltage graze lighting system that combines the uniquely designed grazing optics of Mini Graze with the industry leading GLOWDIM technology. MODA GLOWDIM TECHNOLOGY enabled fixtures when wired to a DMX 512 Controller to transition at 100% from 2700K down to 1800K, or 3500K down to 2200K, when dimmed. Generally called "Dim to Warm" this feature strongly resembles incandescent illumination and transforms restaurants, bars and any hospitality location creating moods and warm environments. GLOWDIM utilizes MODA's high standard for perfect and precise illumination, with custom firmware programmed onto our microprocessors.

GLOWDIM is much more than "Dim to Warm". Fixtures that are called Dim to Warm all behave differently. Some can dim and turn orange. Some od not even dim much. Others you can see the transition steps. The majority just do a color adjustment and can only dim as low as 10%. This creates a flash effect when they are turned on. GLOWDIM does exactly what the name says. The MODA Microprocessor makes thousands of calculations so that the fixture gradually reduces its CCT and decreases its intensity creating a smooth dim from incandescent illumination down to true low intensity candle light. It is this reason we called this technology MODA GLOWDIM TECHNOLOGY and probably why it won the prestigious Product Innovation Award (PIA) 2017 for Components and Light Sources.

Unlike other fixtures which are much larger in physical size, MINI GRAZE utilizes the latest Advanced MODA Design and Electronic Engineering, ensuring fixtures are cool to the touch. This is achieved by designing a forward thinking fixture with intelligent driver technology and by under driving the most advanced LEDs in the World. Thus creating a fixture which is so cool it can be held after days of illumination. The L70 (longevity) of the fixture is extended and phosphor degradation kept to a minimum.

The Onboard American Microprocessor, programmed by our MODA Software Division with new Advanced Firmware ensures MINI GRAZE delivers smooth, no noise, flicker free and synchronized GLOWDIM dimming down to 0%. The actual dimming minimum value is dependent upon the dimmer selected. Link any combination of 1ft or 4ft fixtures and every fixture will dim to warm together, smoothly, synchronized from 100% to 0%. With no minimum run lengths required, just one 1ft fixture will dim seamlessly.

Wall wash any indoor application with its integral linear optic of 30° x 100° for a perfect asymmetric beam pattern with no color over angle, no striations and no dark spots up to 20ft (6m). Achieve long single runs of up to 160 feet decreasing the number of wiring circuits required in an installation. Another step forward in this category of small sized fixtures is the Universal power input. We designed a small MODA Micro Driver specific for MINI GRAZE enabling it to accept 100-277V AC 50/60Hz, thus decreasing the number of SKU's needed to be held by any of our Worldwide distributors and giving the installer a choice of power inputs from one fixture.

With the ability to mix our own phosphors we are able to make a revolutionary new standard for MODA offering a High Color Rendering Index of 96-98 with LEDs centered on The Planckian Locus for superior illumination. R1-R15 tested to TM30-15 with values in excess of 90, creating beautiful graze illumination. Single binning means every fixture will have the same CCT - something that MODA has been doing since 2006. A specialized curved polymer optical lens combined with a cleverly designed Light Chamber delivers a light bending, smooth 200 degree beam pattern perfect for cove installations with no color over angle, no striations, inter locking fields of light and no dark spots.

The fixture incorporates an integral, patented, toolless self-locking bracket which slides into any position and turns 170 degrees. Built-in male & female connectors with thumb latch connections for fast installation time. Lightweight aluminum construction for durability and excellent thermal characteristics. Quality American Made electronic components. Available in 1ft and 4ft sections.

Tested by Intertek to UL1598 for use in USA & Canada. CE Approved. WEE. RoHS Compliant. TM-30-15 Tested. US Patent No. D787,112 and D783,890.

Product Innovation Award (PIA) 2017 for Components and Light Sources. Product Innovation Award (PIA) Winner 2016 for Best Luminaire. LFI Innovation Award 2017 Finalist for Dynamic Color, Theatrical, Cove, Strips and Tape. Lux Award Commended for Interior Product of the Year 2016. Darc Awards Finalist for Best Architectural Lighting Product - Interior Luminaires 2016. International Design Excellence Award for Innovative Product Design Finalist 2016.

Designed & Developed by MODA LIGHT in Las Vegas, USA.

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PHYSICAL

Dimensions	L: 1ft 3/32in (307.46mm) W: 1 1/4in(38mm) L: 4ft 1/8in (1.22m) H: 1 11/32in(34.5mm)
Weights	1ft: 0.38 lbs (0.17kg) 4ft: 1.22 lbs (0.55 kg)
Applications	Graze, Accent & Indirect General Illumination
Construction	6063 Aluminum Body, Polycarbonate Self-Locking Mounting Bracket and Optical Lens
Ingress Protection	Dry/Damp Location IP52
Thermal Management	MODA Aluminum Heat Sink
Beam Angle	30° X 100°
Fixture Connections	Integral Male & Female Connectors
Operating Temperature	-4°F ~ 149°F (-20°C ~ 65°C)
Storage Temperature	-13°F ~ 158°F (-25°C ~ 70°C)
Humidity	20-70% Non Condensing

OUTPUT

CCT	2700K to 1800K 3500K to 2200K
SDCM	2 Step MacAdam Ellipse
Color Bin Tolerance	Zero Bin
CRI	98
Lumen Maintenance	90,000 Hours L70 @ 25°C 70,000 Hours L70 @ 50°C
Testing Data	Light Data LM-79-08 & LM-80-08

ELECTRICAL

Input Voltage	100-277V AC 50Hz/60Hz
Control	DMX 512
Power Factor	≥ 0.98

MODA TECHNOLOGY

moda **SOFTWARE™**

moda **HARDWARE™**

moda **DIM™**

moda **LED™**

moda **MICRO DRIVER™**

moda **PHOSPHOR™**

moda **ZERO BIN™**

moda **THERMAL MANAGEMENT™**

moda **GLOWDIM™**

moda **AIRFLOW™**

moda **COLOR RENDITION™**

moda **LOCK™**

moda **KWIK CONNECT™**

Certification	Tested to UL & CSA by Intertek For Use in USA & CANADA. Exceeds ANSI C78.377-2015, CE, CCC, C-Tick, RoHS, & WEEE Compliant.
Class	1
Warranty	5 Year Limited Warranty

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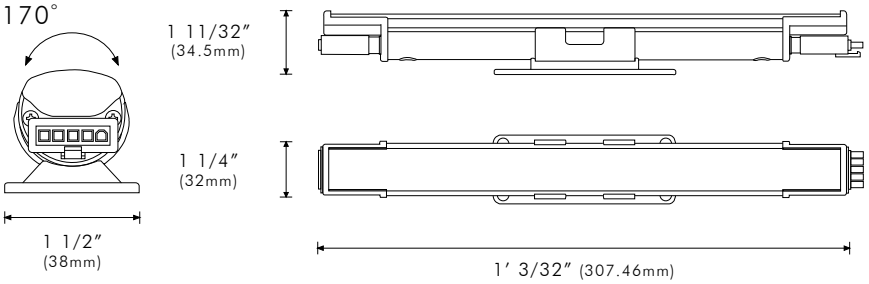

0-10V

Standard Output	Lumens	CRI	Efficacy (120V)	Efficacy (240V)	Efficacy (277V)
2700K - 1800K	448.00	98	86.15	78.59	74.66
3500K - 2200K	489.00	98	94.03	85.78	81.5

SO Power Consumption

120V	5.8W
240V	5.8W
277V	6.2W

SO Max Continuous Run

120V AC	120 ft
240V AC	240 ft
277V AC	240 ft

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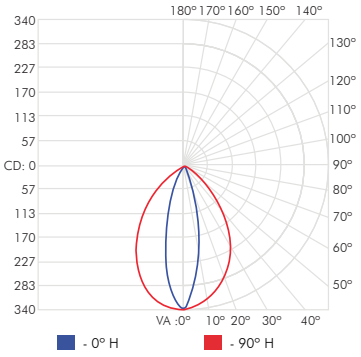
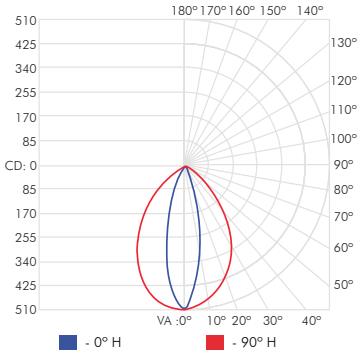
POLAR CANDELA DISTRIBUTION

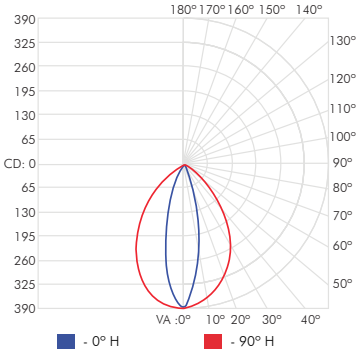
SO 1800K



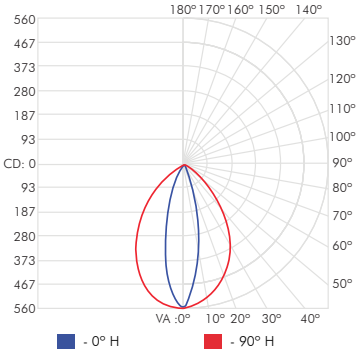
SO 2700K



SO 2200K

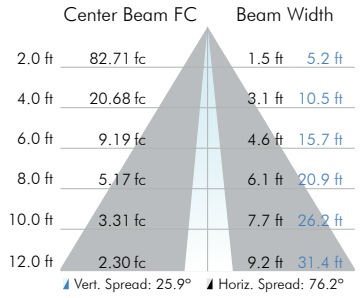


SO 3500K



ILLUMINANCE AT A DISTANCE

SO 1800K



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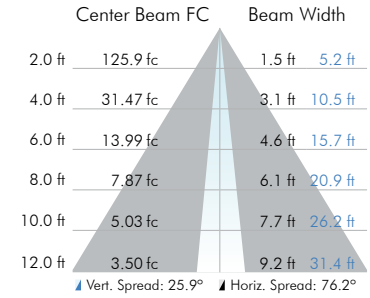

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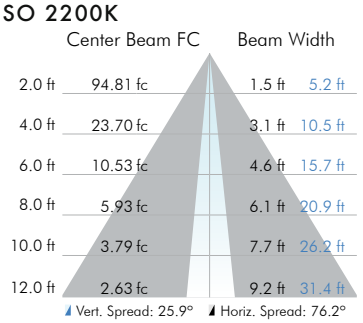

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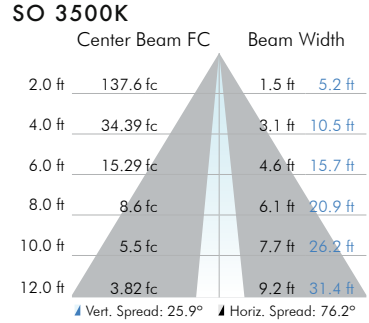

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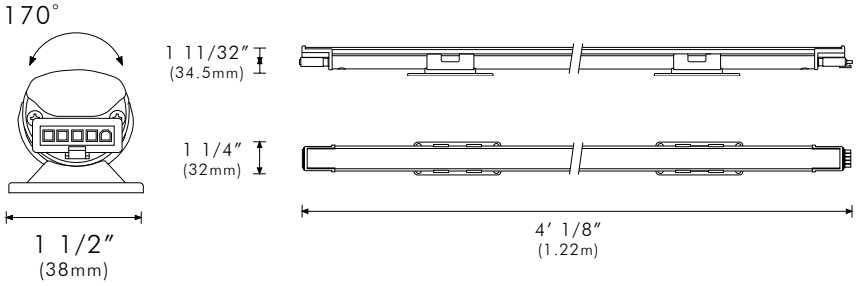

0-10V

Standard Output	Lumens	CRI	Efficacy (120V)	Efficacy (240V)	Efficacy (277V)
2700K - 1800K	1779	98	97.21	93.63	92.17
3500K - 2200K	1891	98	103.33	99.52	97.97

SO Power Consumption	
120V	21.6W
240V	21.6W
277V	21.8W

SO Max Continuous Run	
120V AC	120 ft
240V AC	240 ft
277V AC	240 ft

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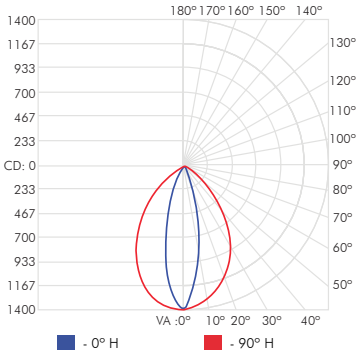
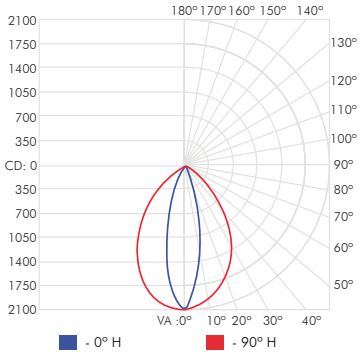
4 FOOT POLAR CANDELA DISTRIBUTION & ILLUMINANCE AT A DISTANCE

POLAR CANDELA DISTRIBUTION

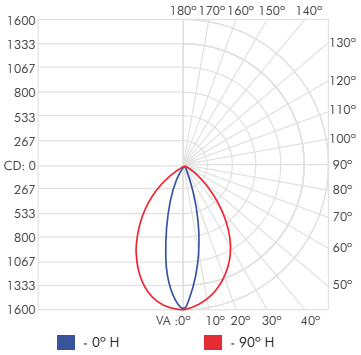
SO 1800K



SO 2700K



SO 2200K



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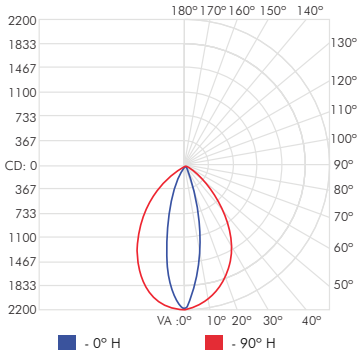

1 FOOT ILLUMINANCE AT A DISTANCE

SO 1800K

	Center Beam FC	Beam Width	
2.0 ft	330.9 fc	1.5 ft	5.2 ft
4.0 ft	82.71 fc	3.1 ft	10.5 ft
6.0 ft	36.76 fc	4.6 ft	15.7 ft
8.0 ft	20.68 fc	6.1 ft	20.9 ft
10.0 ft	13.23 fc	7.7 ft	26.2 ft
12.0 ft	9.19 fc	9.2 ft	31.4 ft

Vert. Spread: 25.9° Horiz. Spread: 76.2°

SO 2700K

	Center Beam FC	Beam Width	
2.0 ft	500.5 fc	1.5 ft	5.2 ft
4.0 ft	125.2 fc	3.1 ft	10.5 ft
6.0 ft	55.61 fc	4.6 ft	15.7 ft
8.0 ft	31.28 fc	6.1 ft	20.9 ft
10.0 ft	20.02 fc	7.7 ft	26.2 ft
12.0 ft	13.90 fc	9.2 ft	31.4 ft

Vert. Spread: 25.9° Horiz. Spread: 76.2°

SO 2200K

	Center Beam FC	Beam Width	
2.0 ft	381.8 fc	1.5 ft	5.2 ft
4.0 ft	95.44 fc	3.1 ft	10.5 ft
6.0 ft	42.42 fc	4.6 ft	15.7 ft
8.0 ft	23.86 fc	6.1 ft	20.9 ft
10.0 ft	15.27 fc	7.7 ft	26.2 ft
12.0 ft	10.60 fc	9.2 ft	31.4 ft

Vert. Spread: 25.9° Horiz. Spread: 76.2°

SO 3500K

	Center Beam FC	Beam Width	
2.0 ft	532 fc	1.5 ft	5.2 ft
4.0 ft	133 fc	3.1 ft	10.5 ft
6.0 ft	59.11 fc	4.6 ft	15.7 ft
8.0 ft	33.25 fc	6.1 ft	20.9 ft
10.0 ft	21.28 fc	7.7 ft	26.2 ft
12.0 ft	14.78 fc	9.2 ft	31.4 ft

Vert. Spread: 25.9° Horiz. Spread: 76.2°

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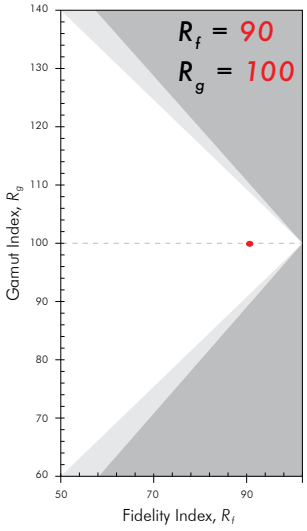
1800K TM30



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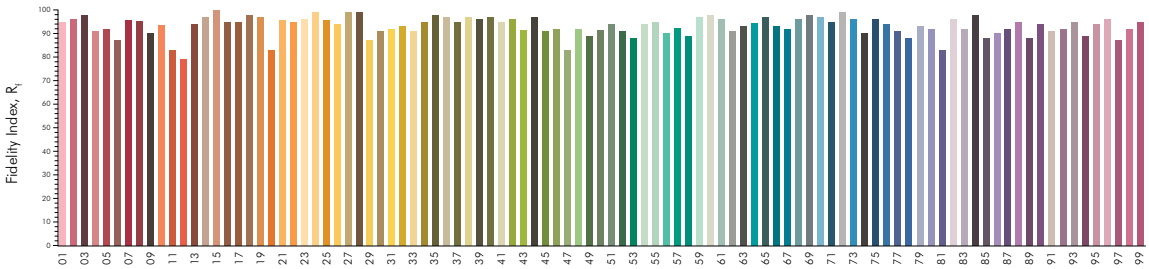
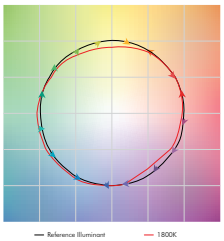
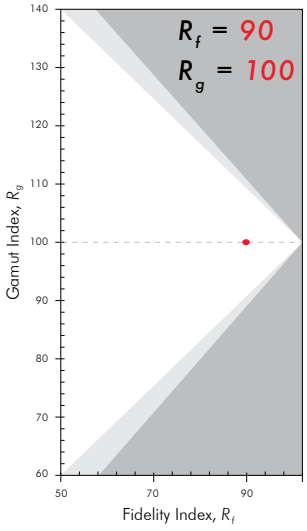




Color Vector Graphic

Color Distortion Graphic

2200K TM30



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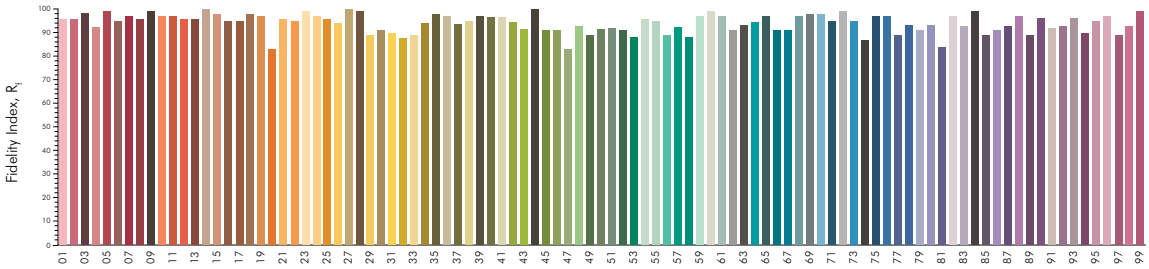
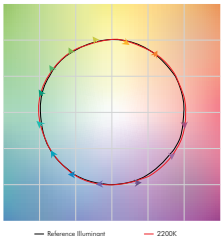
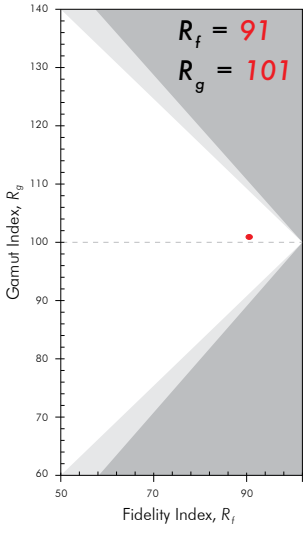




Color Vector Graphic

Color Distortion Graphic

2700K TM30



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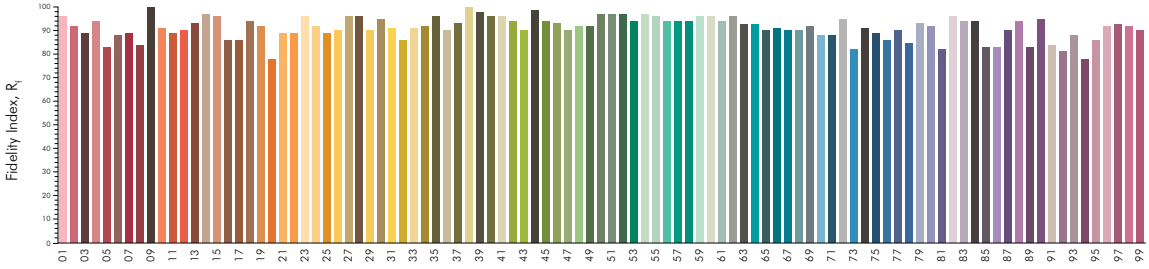

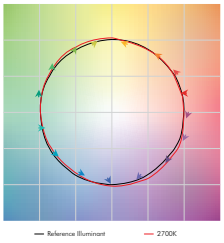

Color Vector Graphic

Color Distortion Graphic

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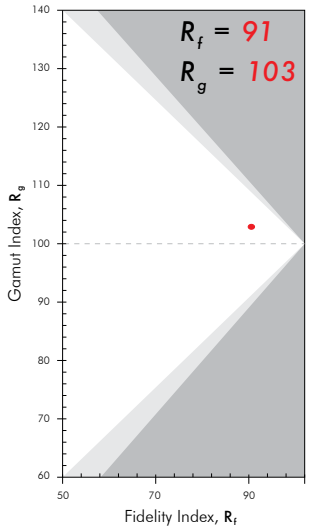
3500K TM30



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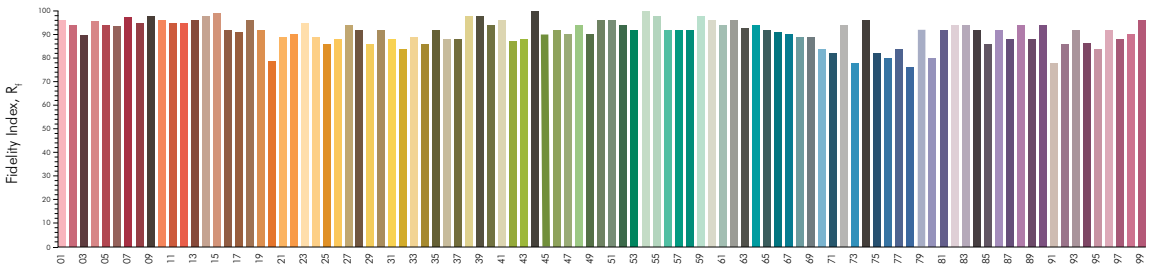
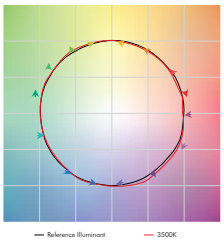




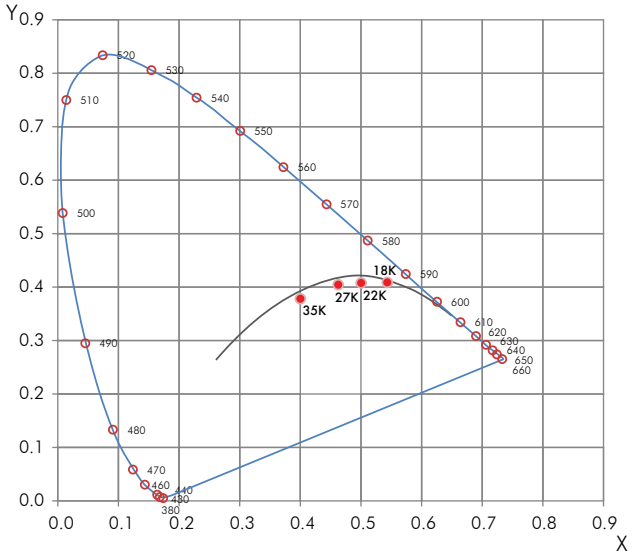
Color Vector Graphic

Color Distortion Graphic

R VALUES

	1800K	2200K	2700K	3500K
R1	98	97	99	99
R2	99	98	99	99
R3	97	97	97	97
R4	98	94	99	99
R5	96	96	99	99
R6	96	94	97	97
R7	95	97	97	97
R8	94	97	95	95
R9	93	93	93	93
R10	97	98	98	98
R11	97	90	97	97
R12	88	92	87	87
R13	98	97	99	99
R14	95	96	97	97
R15	97	99	98	98

CIE 1931 CHROMATICITY DIAGRAM



CCT	Coordinates			
1800K	x: 0.5426	y: 0.4092	u: 0.3012	v: 0.5428
2200K	x: 0.5043	y: 0.4090	u: 0.2924	v: 0.5353
2700K	x: 0.4563	y: 0.4048	u: 0.2628	v: 0.5246
3500K	x: 0.4085	y: 0.3875	u: 0.2391	v: 0.5104

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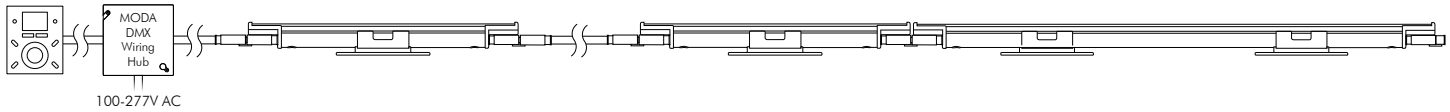
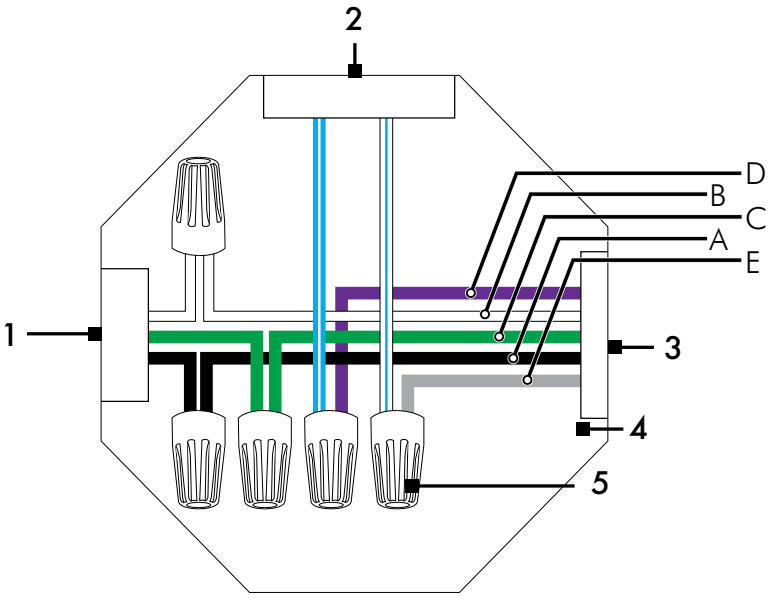
DMX Controller





Wiring Legend

1	Power 100-277V AC
2	DMX Controller
3	5 Pin Leader Cable
4	Junction Box
5	Wiring Nuts

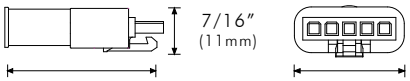
5 Pin Leader Cable

		UL/cUL	CE/CCC*
A	Live 100-277V	Black	Brown
B	Neutral	White	Blue
C	Ground	Green	Green/ Yellow
D	DMX Positive	Purple	Black
E	DMX Negative	Gray	Gray

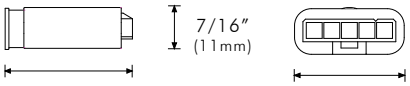
*Not illustrated

DMX Connectors

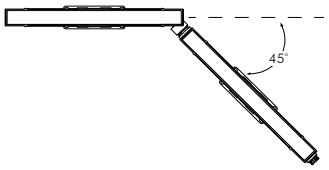
Male Output



Female Output



Angle Adjusment



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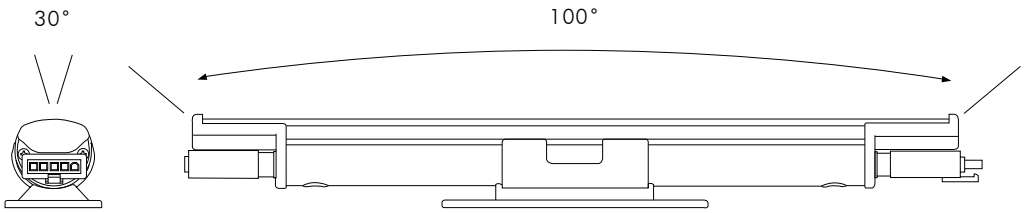
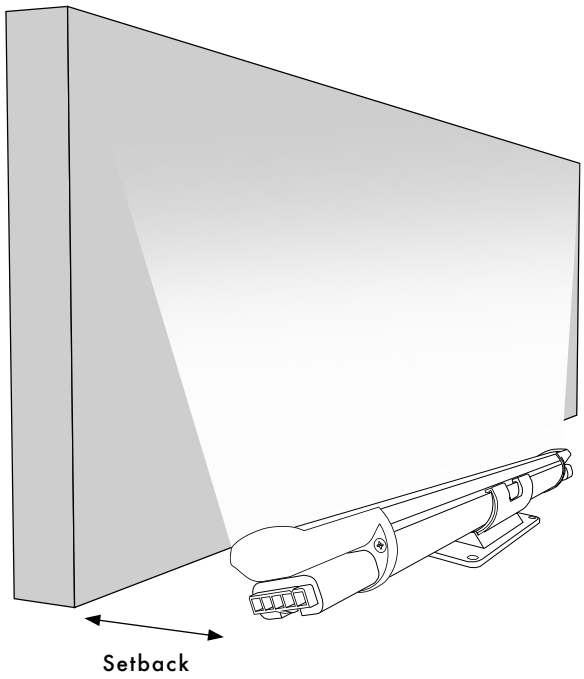


Wallwash Optic.

Wall wash any indoor application with its integral linear optic of 30° x 100° for a precise beam pattern with no color over angle, no striations and no dark spots up to 20ft (6m).



Setback Chart

10ft Wall	1ft

Recommended Setback from wall is 1/8 of wall height.

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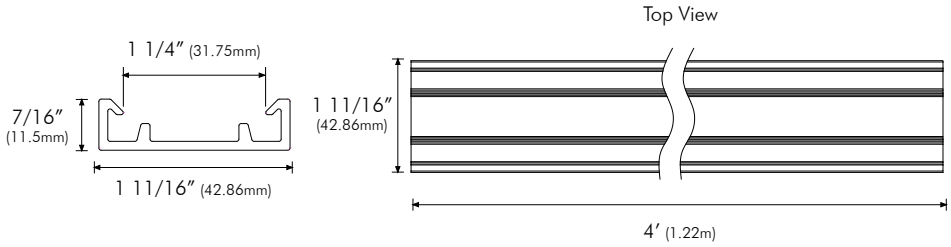
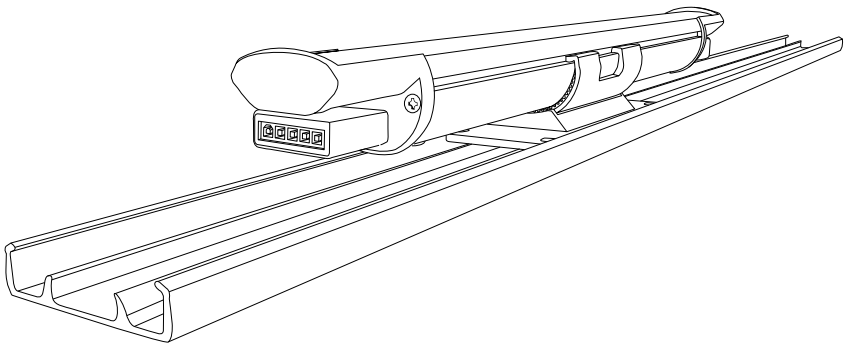


MODA MINI GRAZE MOUNTING TRACK

Mounting Mini Graze.
Allows users to install Moda Mini Graze fixtures in a continuous linear position. Moda Mini Graze Mounting Tracks come packaged in 5 pieces of 4ft sections to create a continuous run of 20ft.



Options

Finish	G - Gray
Length	4ft - 4′ Sections
Quantity	5 Pieces (20ft)

Physical

Applications	Graze, Accent
Construction	Polycarbonate

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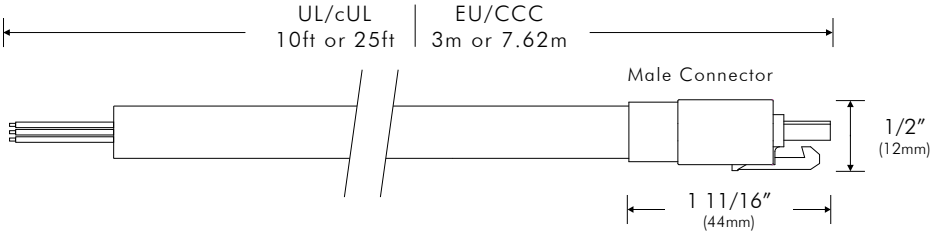
DMX LEADER CABLES

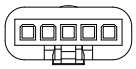
Moda Mini Cove Interior 5 Pin Leader Cables

	UL/cUL	EU/CCC
Lengths	10ft and 25ft	3m and 7.62m
Color	White	White

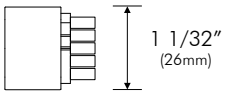


Male Connector

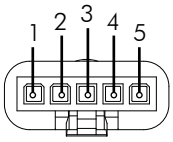
Front



Top



Pin Assignment

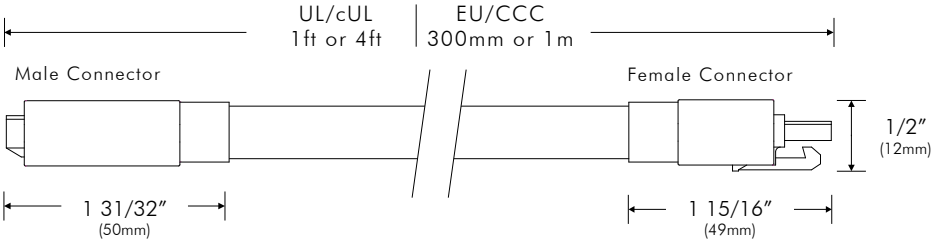


		UL/cUL	EU/CCC
1	Live 100-277V	Black	Brown
2	Neutral	White	Blue
3	Ground	Green	Green/ Yellow
4	Data Positive	Purple	Black
5	Data Negative	Gray	Gray

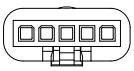
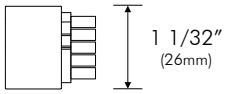
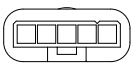
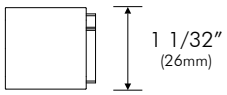
DMX JUMPER CABLES

Moda Mini Cove Interior 5 Pin Jumper Cables

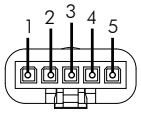
	UL/cUL	EU/CCC
Lengths	1ft and 4ft	300mm and 1m
Color	White	White



Connectors

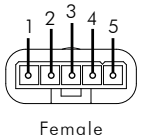
	Front	Top
Male		
Female		

Pin Assignment



Male

		UL/cUL	EU/CCC
1	Live 100-277V	Black	Brown
2	Neutral	White	Blue
3	Ground	Green	Green/ Yellow
4	Data Positive	Purple	Black
5	Data Negative	Gray	Gray



Female

		UL/cUL	EU/CCC
1	Data Negative	Gray	Gray
2	Data Positive	Purple	Black
3	Ground	Green	Green/ Yellow
4	Neutral	White	Blue
5	Live 100-277V	Black	Brown

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	FIXTURES	ORDERING NUMBER	PART NUMBER
DMX 1FT	Moda Mini Graze Interior Glowdim Standard Output Silver DMX 512 2700K-1800K HCRI 1FT	MMGI-S-S-DMX512-GD2718-1	147-1002
	Moda Mini Graze Interior Glowdim Standard Output Silver DMX 512 3500K-2200K HCRI 1FT	MMGI-S-S-DMX512-GD3522-1	147-1025
DMX 4FT	Moda Mini Graze Interior Glowdim Standard Output Silver DMX 512 2700K-1800K HCRI 4FT	MMGI-S-S-DMX512-GD2718-4	147-3002
	Moda Mini Graze Interior Glowdim Standard Output Silver DMX 512 3500K-2200K HCRI 4FT	MMGI-S-S-DMX512-GD3522-4	147-3025

ACCESSORIES	DESCRIPTION	ORDERING NUMBER	PART NUMBER
Leader Cable US 5 Pin 10ft	Power to first fixture of run	MLCI-US-5PIN-W-10FT	299-0100
Leader Cable US 5 Pin 25ft	Power to first fixture of run	MLCI-US-5PIN-W-25FT	299-0102
Jumper Cable US 5 Pin 1ft	Connection between fixtures	MJCI-US-5PIN-W-1FT	299-1100
Jumper Cable US 5 Pin 4ft	Connection between fixtures	MJCI-US-5PIN-W-4FT	299-1102
Leader Cable EU 5 Pin 3m	Power to first fixture of run	MLCI-EU-5PIN-W-3M	299-0101
Leader Cable EU 5 Pin 7.62m	Power to first fixture of run	MLCI-EU-5PIN-W-7.62M	299-0103
Jumper Cable EU 5 Pin 300mm	Connection between fixtures	MJCI-EU-5PIN-W-300MM	299-1101
Jumper Cable EU 5 Pin 1m	Connection between fixtures	MJCI-EU-5PIN-W-1M	299-1103
Terminator 5 Pin	Must be fixed to last fixture for safety	MTI-5PIN-W	299-2100
Mounting Track	Allows user to install fixtures in a continuous linear position. Packaged in 5 4ft sections in total of 20ft.	MMC-20-TRACK-1-S1-G	299-3200

CONTROLS	DESCRIPTION	ORDERING NUMBER	PART NUMBER
Kandi Touch	DMX 512 Controller	KND-TCH-B	250-0040
	Available in black and white	KND-TCH-W	250-0041

CONTROL ACCESSORIES	DESCRIPTION	ORDERING NUMBER	PART NUMBER
Moda DMX Wiring Hub 2.0	Simplifies wiring and strengthens DMX signal.	N/A	250-0100
Belden Shielded Cable 500ft	RS-458 Cable for DMX, 24 AWG stranded TC conductors, polyethylene insulation	BDL-9841-500FT	250-0251
Belden Shielded Cable 1000ft	RS-458 Cable for DMX, 24 AWG stranded TC conductors, polyethylene insulation	BDL-9841-1000FT	250-0252

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