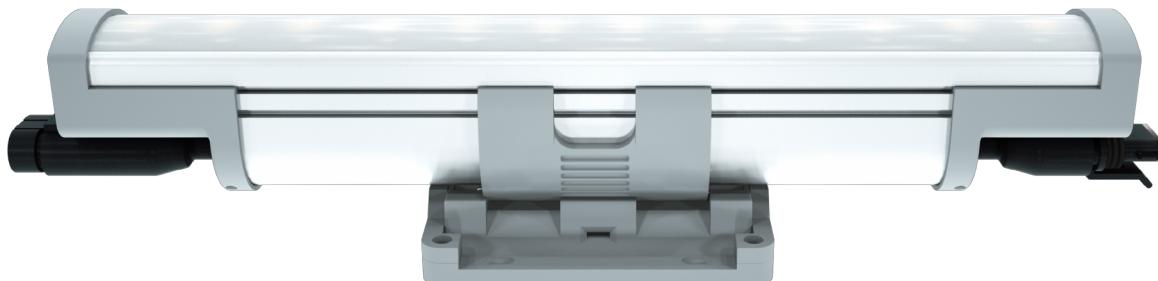


Client: _____ Project Name: _____

MODA Contact: _____ E-Mail: _____

SKU: _____ 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. With MODA's methods of precision and high standards of work, MODA achieves perfect illumination. Color Rendering Index is at a MODA standard of 94-98. R1 - R15 values are in excess of 90. No striations, no color over angle, and no dark spots.

Small in physical size, yet powerful with up to 1200 lm/ft. Wall wash any applications with a choice of 6°, 10°, 25°, 40°, 10°x40°, 30°x60° or forward throw asymmetric beam patterns for SO+ and HO or 30°x100° for LO, SO or HO+ Lumen packages. Standard color temperatures available are 2200K, 2700K, 3000K, 3500K, and 4000K. Other CCT are available by request. 100-277V AC, 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. Protected from corrosion and harsh weather conditions by MODA GUARD—a tough seal which protects the fixture. Fast installation is achieved with MODA KWIK CONNECT plugs and install-integral thumb latch connectors. Choice of five lumen packages ranging from 200 lm/ft to 1200 lm/ft. 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

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4	1 FOOT
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7	OPTIC FLEXIBILITY
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12	ACCESSORIES: CABLES
13	FIXTURES AND ACCESSORIES

PHYSICAL

Dimensions	L: 1ft 1 25/32in (349.69mm) L: 4ft 19/32in (1.23m)	W: 2 13/16in(71.81mm) H: 2 7/8in(73.42mm)
Applications	Graze, Accent & Indirect General Illumination	
Construction	Pure Aluminum Body, Polycarbonate Mounting Bracket and Lens	
Ingress Protection	Dry/Damp 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	2200K, 2700K, 3000K, 3500K, 4000K 2 Step MacAdam Ellipse
Color Bin Tolerance	Single Bin
CRI	94 - 98
Lumen Maintenance	90,000 Hours L70 @ 25°C 70,000 Hours L70 @ 50°C

ELECTRICAL

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

BEAM ANGLES

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

CCT

	LO	SO	SO+	HO	HO+
1 Foot	22K	•	•		•
	27K	•	•	•	•
	3K	•	•	•	•
	35K	•	•	•	•
	4K	•	•	•	•
4 Foot	22K	•	•		•
	27K	•	•	•	•
	3K	•	•	•	•
	35K	•	•	•	•
	4K	•	•	•	•

• Available

MODA TECHNOLOGY

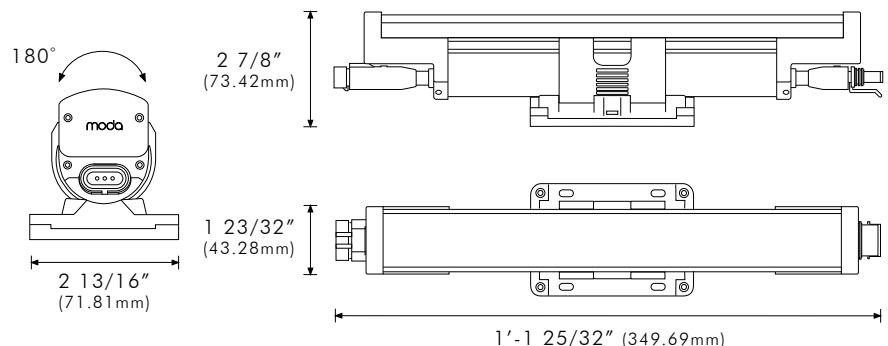
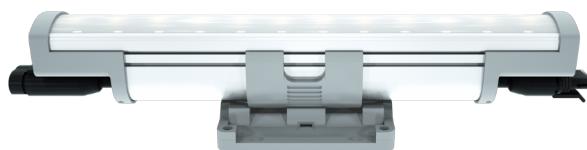
modaSOFTWARE™	modaZERO BIN™
modaHARDWARE™	modaTHERMAL MANAGEMENT™
modaPHOSPHOR™	modaAIRFLOW™
modaHIGH CRI™	modaCOMMUNICATE™
modaDRIVER™	modaKWIK CONNECT™
modaGUARD™	modaSEAL™



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



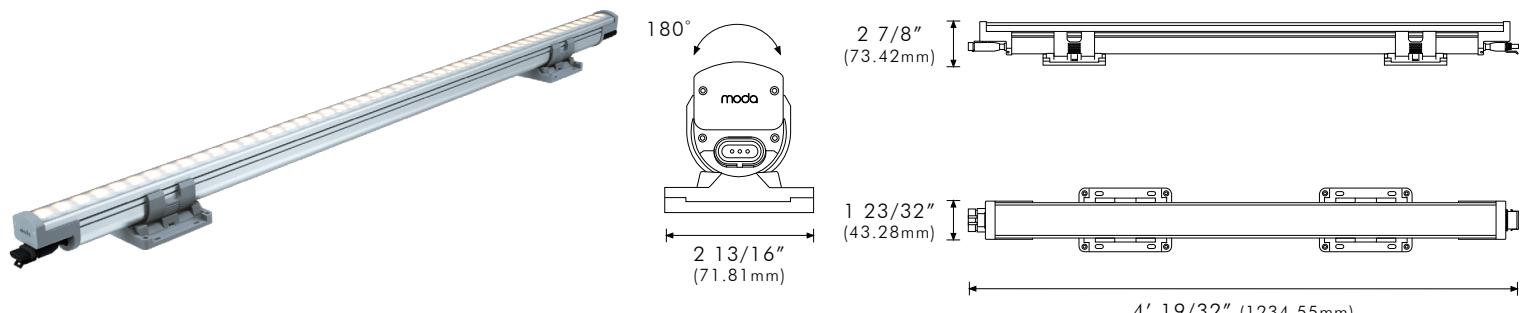
ELV

Output	CCT	6°		10°		25°		40°		10°x40°		30°x60°	
		Lumens	Efficacy										
SO+	27K	940.08	94.00	928.08	92.80	914.08	91.40	904.08	90.40	895.08	89.50	892.08	89.08
	3K	942.05	94.20	930.05	93.00	916.05	91.60	906.05	90.60	897.05	89.70	894.50	89.40
	35K	945.05	94.50	933.05	93.30	919.05	91.90	909.05	90.90	900.05	90.00	897.05	89.70
	4K	951.05	95.10	939.05	93.90	925.05	92.50	915.05	91.50	906.05	90.06	903.05	90.30
HO	27K	1190.26	119.02	1178.26	117.82	1164.26	116.42	1154.26	115.42	1145.26	114.52	1142.26	114.22
	3K	1320.36	132.03	1298.36	129.83	1284.36	128.43	1322.10	132.21	1265.36	126.53	1262.36	126.23
	35K	1358.10	135.81	1346.10	134.61	1322.10	133.21	1322.10	132.21	1313.10	131.31	1310.10	131.01
	4K	1407.15	140.71	1395.15	139.51	1381.15	138.11	1371.15	137.11	1362.15	136.21	1359.15	135.91

*2200K not available for SO+ or HO

Output	CCT	Forward Throw Asymmetric		Output	CCT	30°x100°	
		Lumens	Efficacy			Lumens	Efficacy
SO+	27K	890.08	89.00	LO	22K	250.50	62.00
	3K	892.05	89.20		27K	310.00	77.00
	35K	895.05	89.50		3K	322.00	83.00
	4K	901.05	90.10		35K	344.00	86.00
HO	27K	1140.26	114.02	SO	4K	352.00	88.00
	3K	1260.36	126.03		22K	339.80	67.96
	35K	1308.10	130.81		27K	450.67	90.13
	4K	1359.15	135.91		3K	490.25	98.05

Output	Power Consumption 100-277V AC	Max Run Length	
		120V AC	277V AC
LO	4W	180 ft	360 ft
SO	5W	120 ft	240 ft
SO+	10W	60 ft	120 ft
HO	10W	60 ft	120 ft
HO+	10W	60 ft	120 ft



ELV

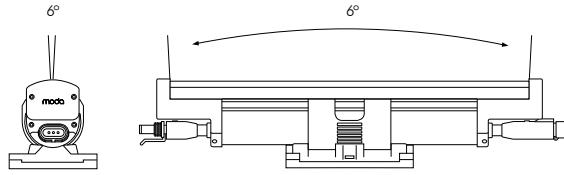
Output	CCT	6°		10°		25°		40°		10°x40°		30°x60°	
		Lumens	Efficacy	Lumens	Efficacy	Lumens	Efficacy	Lumens	Efficacy	Lumens	Efficacy	Lumens	Efficacy
SO+	27K	3310.67	82.76	3298.67	82.46	3284.68	82.11	3274.68	81.86	32.65.68	81.64	3262.68	81.56
	3K	3318.23	82.95	3306.23	82.65	3292.23	82.30	3282.23	82.05	3273.23	81.83	3270.23	81.75
	35K	3335.20	83.38	3323.20	83.08	3309.20	82.73	3299.10	82.48	3290.20	82.25	3287.20	82.18
	4K	3358.40	83.96	3346.40	83.66	3332.40	83.31	3322.40	83.06	3313.40	82.83	3310.40	82.76
HO	27K	4314.02	107.85	4302.02	107.55	4288.02	107.20	4278.02	106.95	4269.02	106.72	4266.02	106.65
	3K	4785.40	119.63	4773.40	119.34	4759.40	118.98	4749.40	118.73	4740.40	118.51	4737.40	118.43
	35K	4982.40	124.56	4956.40	123.91	4956.40	123.91	4946.40	123.66	4937.40	123.43	4934.40	123.36
	4K	5162.60	129.06	5150.60	128.77	6136.60	128.41	5126.60	128.16	5117.60	127.94	5114.60	127.86

*2200K not available for SO+ or HO

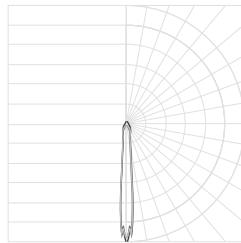
Output	CCT	Forward Throw Asymmetric		Output	CCT	30°x100°	
		Lumens	Efficacy			Lumens	Efficacy
SO+	27K	3260.68	81.51	LO	22K	1002.00	62.62
	3K	3292.23	82.30		27K	1234.00	77.00
	35K	3285.20	82.13		3K	1316.00	82.00
	4K	3308.40	32.71		35K	1366.00	85.00
HO	27K	4264.02	106.60		4K	1406.00	87.00
	3K	4735.40	118.38		22K	1368.11	72.00
	35K	4932.40	123.31		27K	1783.10	93.84
	4K	5112.60	127.81		SO	3K	1820.18
					35K	1900.45	100.02
					4K	1975.36	103.96
					22K	4300.80	107.52
					27K	4587.96	114.69
					3K	4794.28	119.85
					35K	4844.63	121.11
					4K	4960.04	124.00

Output	Power Consumption 100-277V AC	Max Run Length	
		120V AC	277V AC
LO	16W	180 ft	360 ft
SO	19W	120 ft	240 ft
SO+	40W	60 ft	120 ft
HO	40W	60 ft	120 ft
HO+	40W	60 ft	120 ft

6° Beam Angle



Polar Candela Distribution
(HO 4000K)



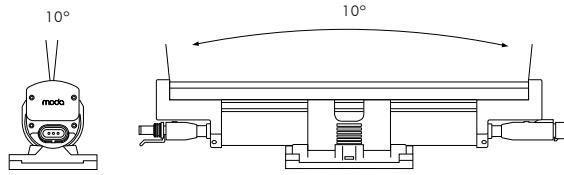
Illuminance at a Distance (HO 4000K)

Center Beam FC	Beam Width	
	1 Foot	4 Foot
2.0 ft	41.43 fc	152.02 fc
4.0 ft	10.35 fc	38.00 fc
6.0 ft	5.17 fc	19.00 fc
8.0 ft	2.58 fc	9.50 fc
10.0 ft	1.29 fc	4.75 fc
12.0 ft	1.03 fc	3.80 fc

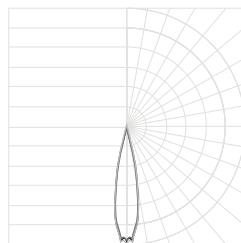
■ Vert. Spread: 6°

▲ Horiz. Spread: 6°

10° Beam Angle



Polar Candela Distribution
(HO 4000K)



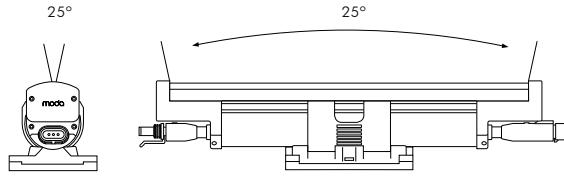
Illuminance at a Distance (HO 4000K)

Center Beam FC	Beam Width	
	1 Foot	4 Foot
2.0 ft	60.76 fc	224.32 fc
4.0 ft	15.19 fc	56.08 fc
6.0 ft	7.59 fc	28.04 fc
8.0 ft	3.79 fc	14.02 fc
10.0 ft	1.89 fc	7.01 fc
12.0 ft	1.51 fc	5.60 fc

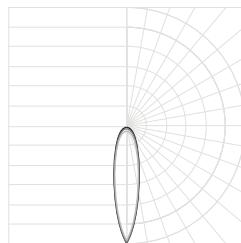
■ Vert. Spread: 10°

▲ Horiz. Spread: 10°

25° Beam Angle



Polar Candela Distribution
(HO 4000K)



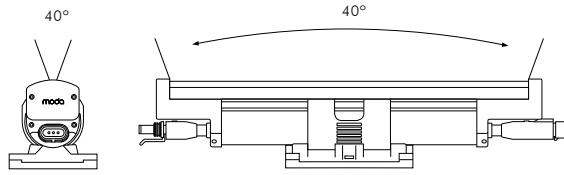
Illuminance at a Distance (HO 4000K)

Center Beam FC	Beam Width	
	1 Foot	4 Foot
2.0 ft	37.34 fc	224.32 fc
4.0 ft	9.33 fc	56.08 fc
6.0 ft	4.66 fc	28.04 fc
8.0 ft	2.33 fc	14.02 fc
10.0 ft	1.16 fc	7.01 fc
12.0 ft	0.93 fc	5.60 fc

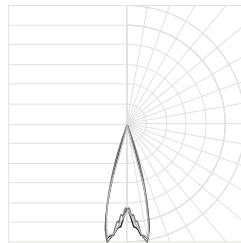
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▲ Horiz. Spread: 25°

40° Beam Angle



Polar Candela Distribution
(HO 4000K)



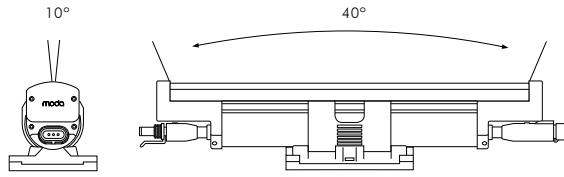
Illuminance at a Distance (HO 4000K)

Center Beam FC	Beam Width	
	1 Foot	4 Foot
2.0 ft	17.07 fc	63.84 fc
4.0 ft	4.26 fc	15.96 fc
6.0 ft	2.13 fc	7.98 fc
8.0 ft	1.06 fc	3.99 fc
10.0 ft	0.53 fc	2.00 fc
12.0 ft	0.42 fc	1.60 fc

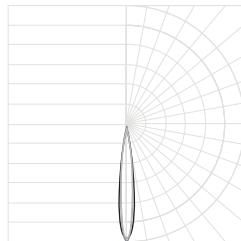
■ Vert. Spread: 40°

▲ Horiz. Spread: 40°

10°x40° Beam Angle



Polar Candela Distribution (HO 4000K)

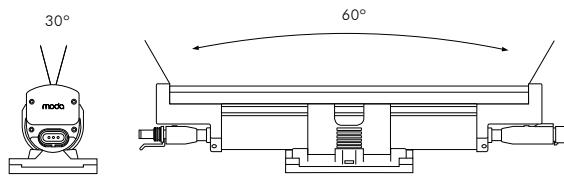


Illuminance at a Distance (HO 4000K)

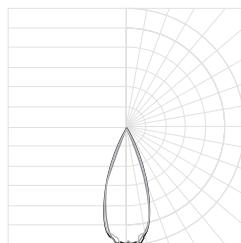
Center Beam FC	Beam Width	
	1 Foot	4 Foot
2.0 ft	42.72 fc	160.52 fc
4.0 ft	10.68 fc	40.13 fc
6.0 ft	5.34 fc	20.06 fc
8.0 ft	2.67 fc	10.03 fc
10.0 ft	1.33 fc	5.01 fc
12.0 ft	1.06 fc	4.01 fc

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

30°x60° Beam Angle



Polar Candela Distribution (HO 4000K)

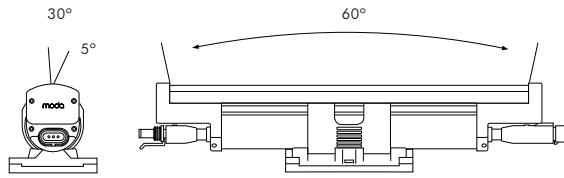


Illuminance at a Distance (HO 4000K)

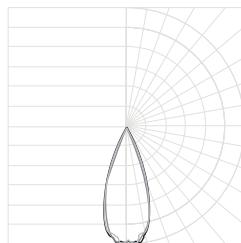
Center Beam FC	Beam Width	
	1 Foot	4 Foot
2.0 ft	108.73 fc	409.17 fc
4.0 ft	27.18 fc	102.29 fc
6.0 ft	13.59 fc	51.15 fc
8.0 ft	6.79 fc	25.15 fc
10.0 ft	3.39 fc	12.79 fc
12.0 ft	2.71 fc	10.23 fc

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

30°x60°x5° Beam Angle



Polar Candela Distribution (HO 4000K)

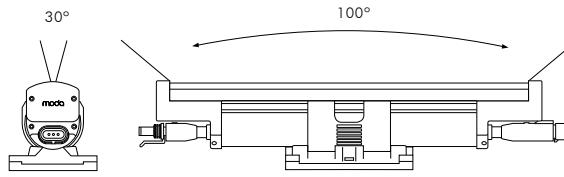


Illuminance at a Distance (HO 4000K)

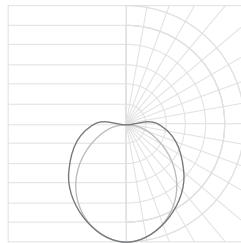
Center Beam FC	Beam Width	
	1 Foot	4 Foot
2.0 ft	37.34 fc	59.40 fc
4.0 ft	9.33 fc	14.85 fc
6.0 ft	4.66 fc	7.42 fc
8.0 ft	2.33 fc	3.71 fc
10.0 ft	1.16 fc	1.85 fc
12.0 ft	0.93 fc	1.48 fc

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

30°x100° Beam Angle



Polar Candela Distribution (HO+ 4000K)

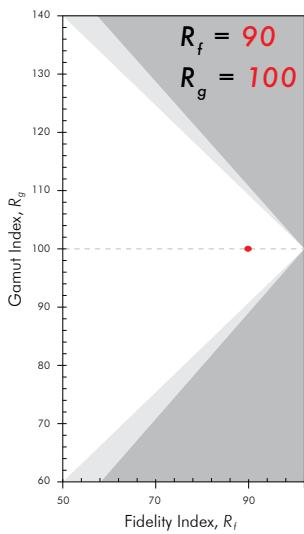


Illuminance at a Distance (HO+ 4000K)

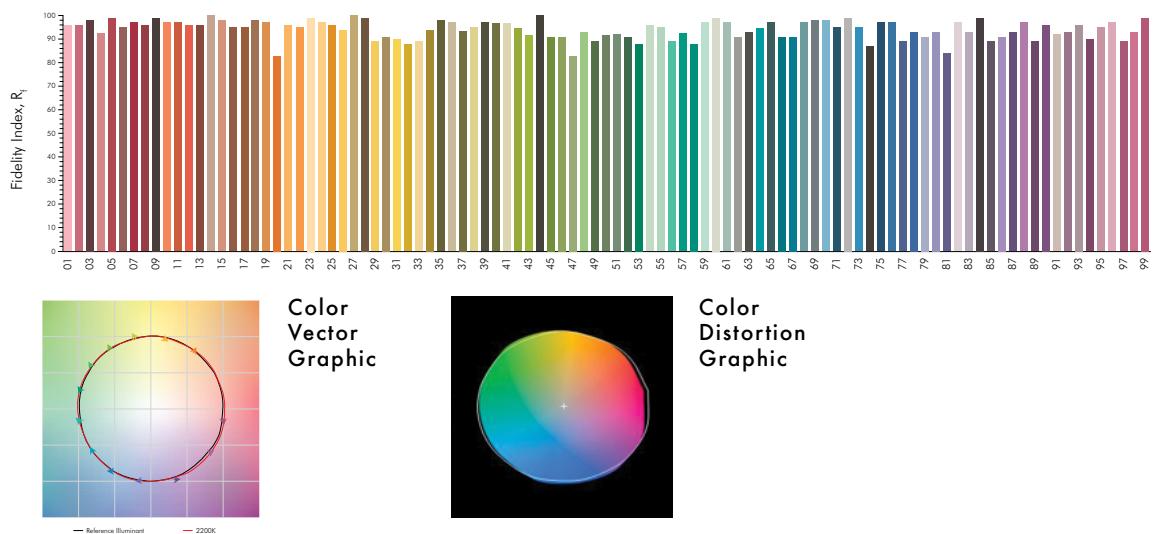
Center Beam FC	Beam Width	
	1 Foot	4 Foot
2.0 ft	114.8 fc	459.20 fc
4.0 ft	28.7 fc	114.80 fc
6.0 ft	14.3 fc	57.40 fc
8.0 ft	7.1 fc	28.7 fc
10.0 ft	3.5 fc	14.30 fc
12.0 ft	2.8 fc	11.40 fc

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

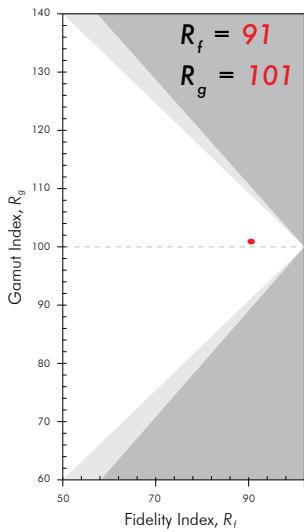
2200K TM30



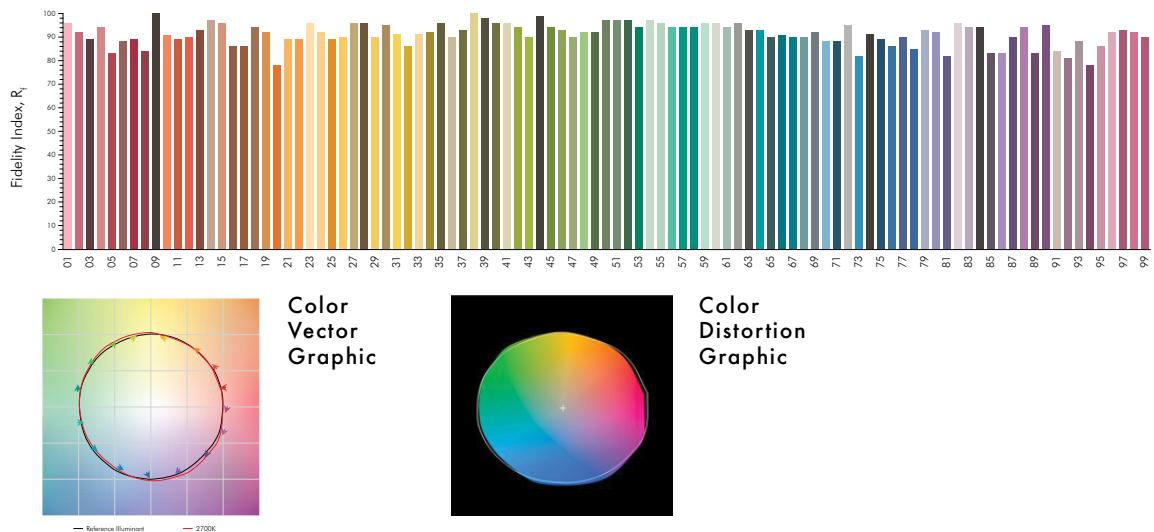
Color Evaluation Sample



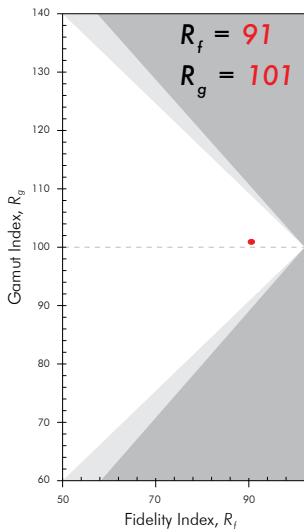
2700K TM30



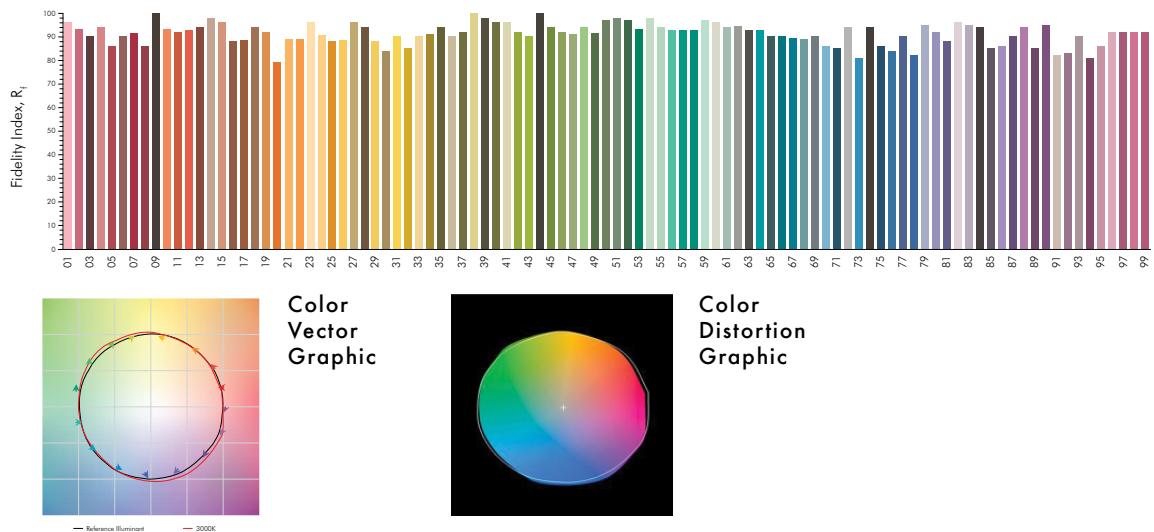
Color Evaluation Sample



3000K TM30

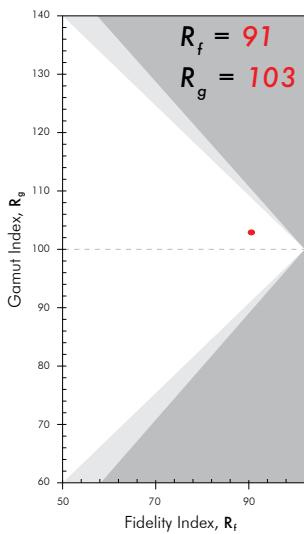


Color Evaluation Sample

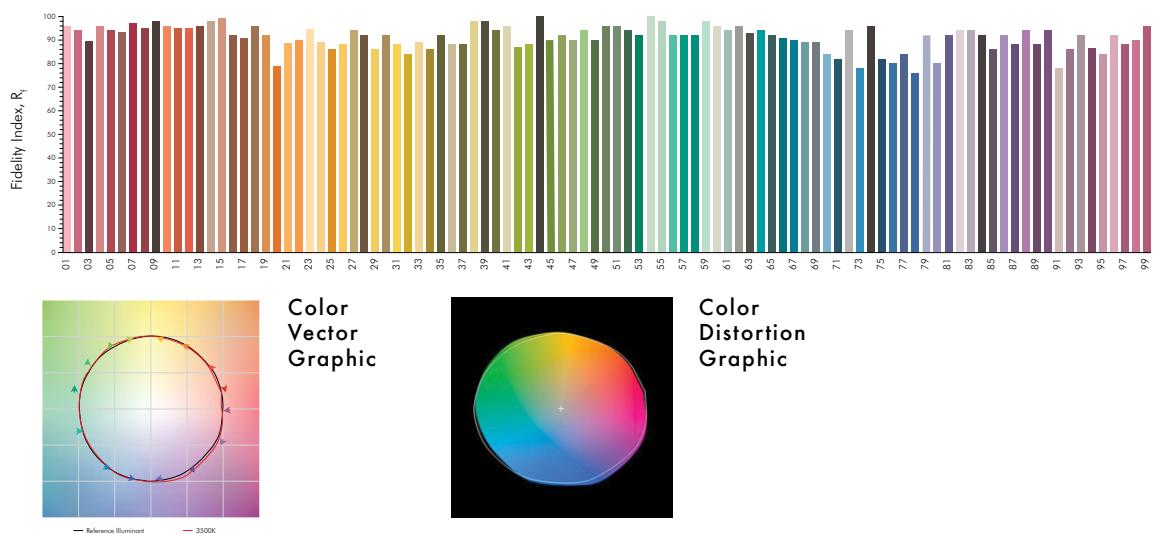


Due to continuous improvements and innovations, specifications may change without notice.
Please refer to our website for current technical data. These figures are provided as a guideline only and may vary with differing power supplies and installations. All rights reserved. E&OE.

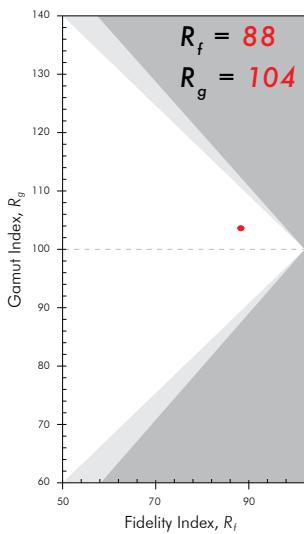
3500K TM30



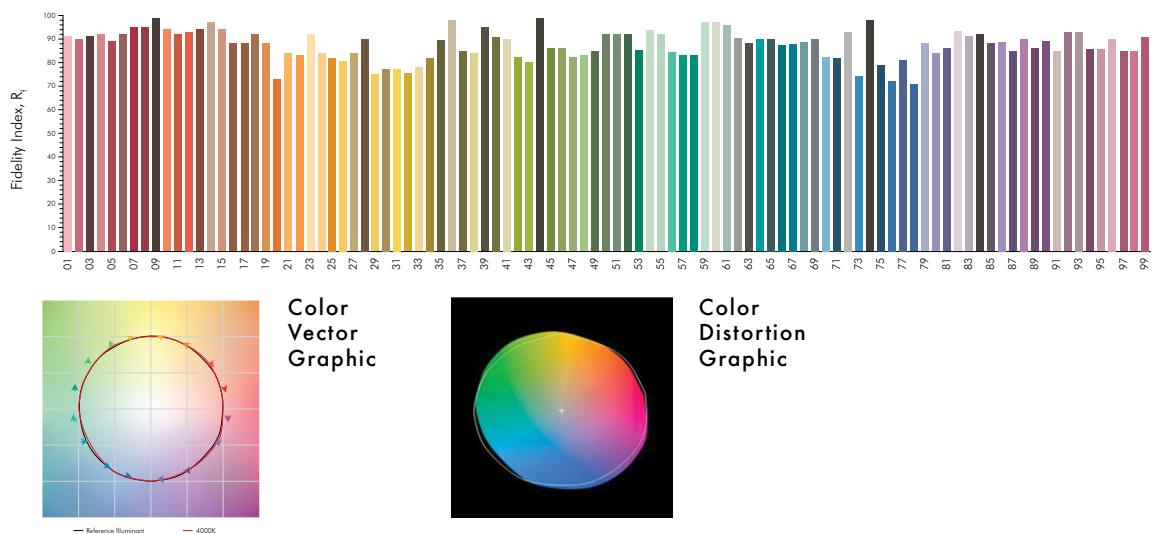
Color Evaluation Sample

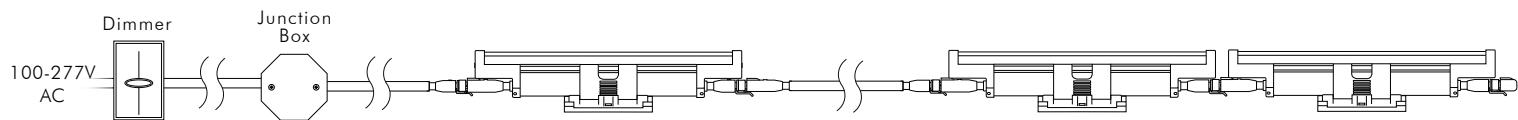


4000K TM30

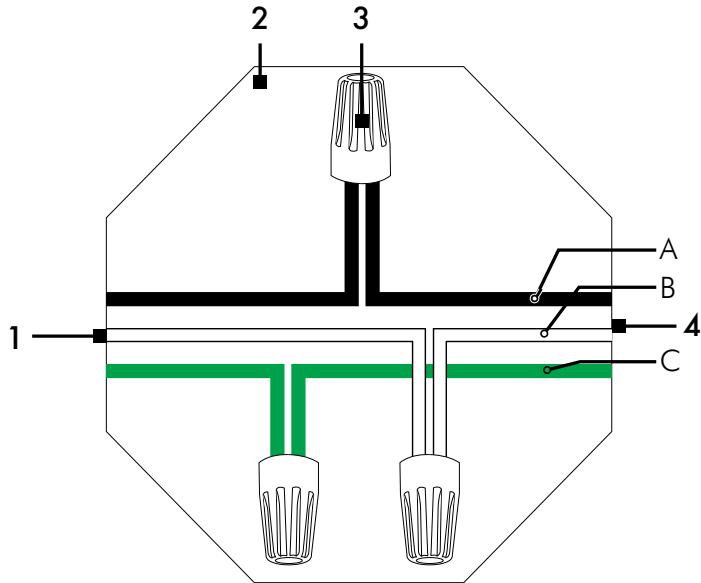


Color Evaluation Sample

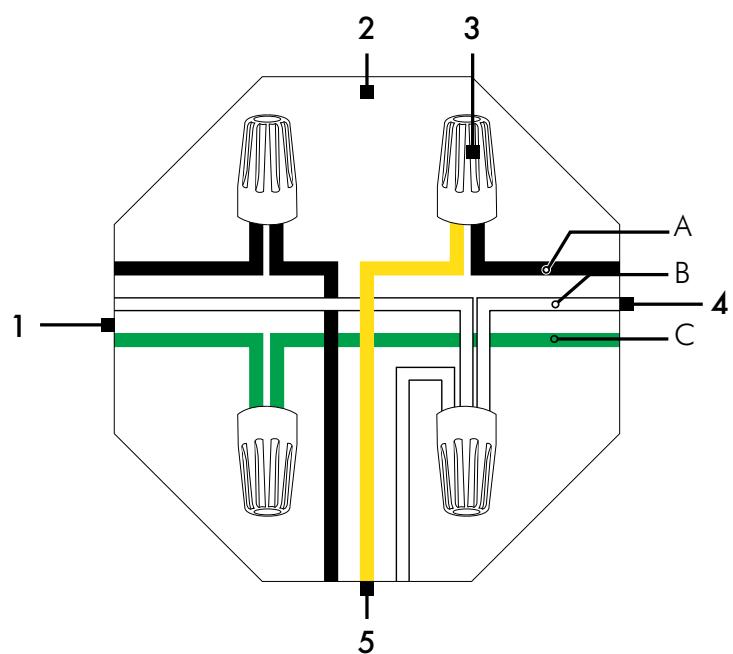




UL / cUL Non-dimming



UL / cUL ELV Dimming



Wiring Legend

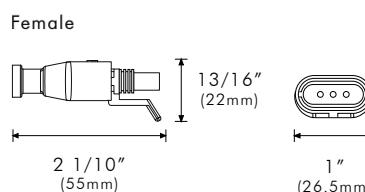
1	Power 100-277V AC
2	Junction Box
3	Wiring Nuts
4	3 Pin Leader Cable
5	ELV Dimmer

3 Pin Leader Cable

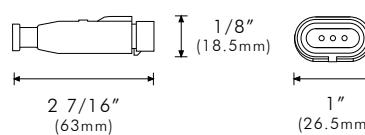
	UL/cUL	CE/CCC*
A	Live 100-277V AC	— Black
B	Neutral	— White
C	Ground	— Green — Green/Yellow

*Not illustrated

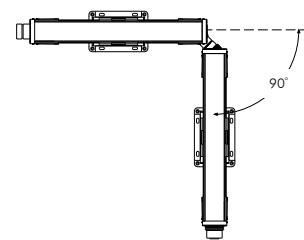
ELV Connectors

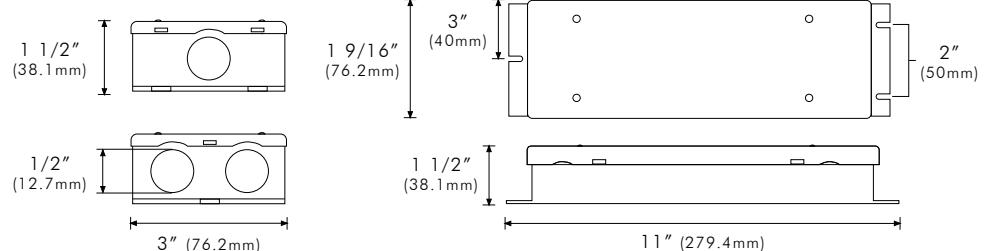


Male



Angle Adjustment

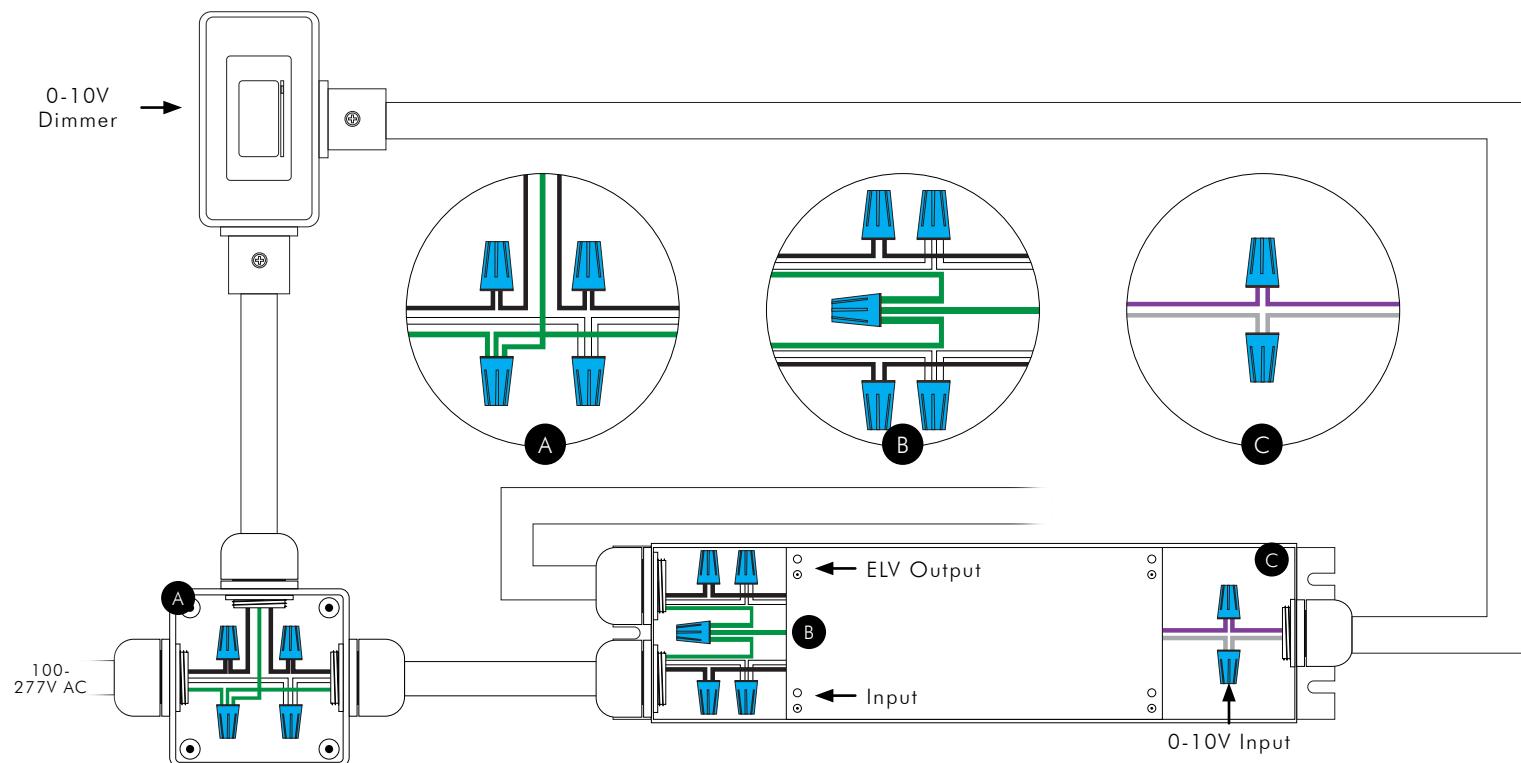




MODA BRIDGE 1

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 1/2" 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/cUL	CE/CCC*
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

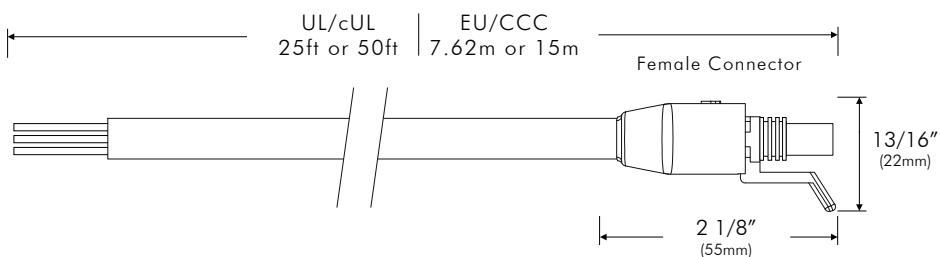
	UL/cUL	CE/CCC*
Live 100-277V AC	— Black	— Brown
Neutral	— White	— Blue
Ground	— Green	— Green/Yellow

*Not illustrated

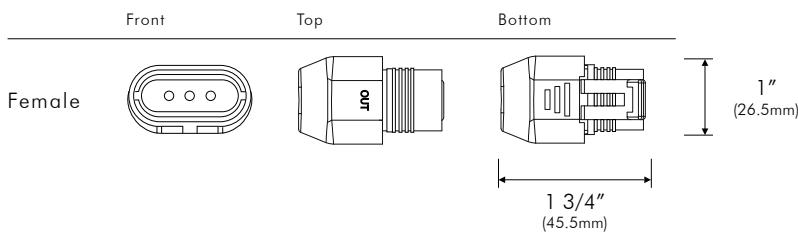
ELV Leader Cables

Moda Cove Exterior 3 Pin Leader Cables

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



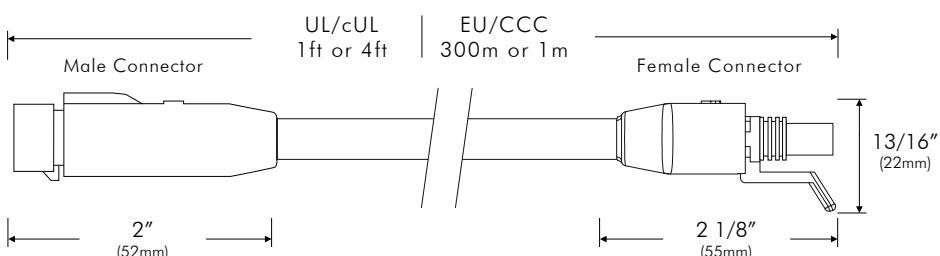
Connectors



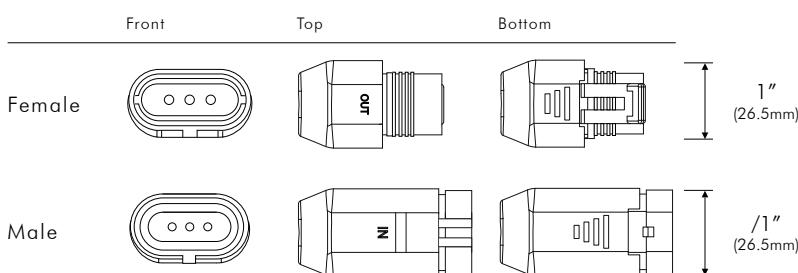
ELV Jumper Cables

Moda Cove Exterior 3 Pin Jumper Cables

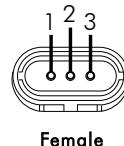
	UL/cUL Lengths Color	EU/CCC Lengths Color
	1ft and 4ft Black	300mm and 1m Black



Connectors

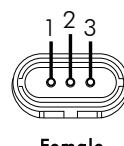


Pin Assignment

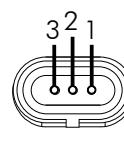


	UL/cUL	EU/CCC
1	Live 100-277V Black	Brown
2	Ground Green	Yellow/Green
3	Neutral White	Blue

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



A - FIXTURE & LOCATION

MGE — Moda Graze Exterior

B - LIGHT OUTPUT

LO	—	Low Output
SO	—	Standard Output
SO+	—	Standard Output Plus
HO	—	High Output
HO+	—	High Output Plus

C - SERIES NUMBER

S1 — Series 1

D - PRODUCT FINISH

S — Silver

E - FIXTURE & LOCATION

22H*	—	2200K
27H	—	2700K
3H	—	3000K
35H	—	3500K
4H	—	4000K

*Not available for SO+ and HO

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 in SO+ and HO

**Available only in LO, SO and HO+

ACCESSORIES

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

CONTROLS

CONTROLS	DESCRIPTION	SKU
Bridge 1 US	Allows user to convert a 0-10V dimming signal into an ELV dimming signal. North American Model	250-0000