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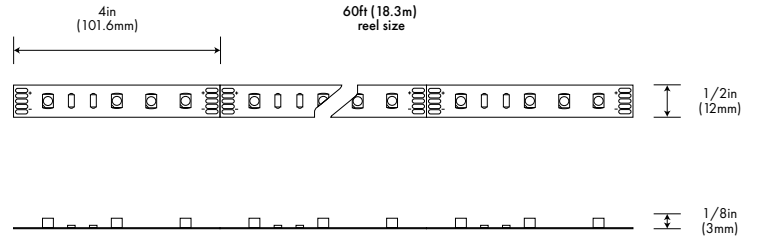
2	PRODUCT SPECIFICATIONS
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Project Name: _____ SKU: _____

MODA Contact: _____ E-Mail: _____

Type: _____ PO#: _____ Quantity: _____

Notes: _____



LED

MODA 3030 Specification Grade Dies

Premium Epistar Wafers

Mitsubishi Chemical Phosphors

Pure Gold Wires

80µm Silver Double Bonded

Zero Bin Technology - Every Reel is the Same!

PHYSICAL

Dimensions	L: 4in (101.6mm)	W: 1/2in (13mm) H: 1/8in (3mm)
Weight	10.9 oz per reel	
LED Spacing	7/16in	
Cutting Distance	4in	
Applications	Cabinet, Cove, Display, Niches, Perimeter Lighting	
Construction	Constant Voltage design protects LEDs and prolongs life. White FPCB.	
Fixture Connections	Push to Fit Connectors	
Operating Temperature	-22°F - 122°F (-30°C - 70°C)	
Storage Temperature	-40°F - 176°F (-40°C - 80°C)	
Humidity	0-95% Condensing	
Environment	Dry Location - IP20	

ELECTRICAL

Input Voltage	24V DC
Power Consumption	7.5W/FT (0.312A)*
Power Factor	<1
Control	0-10V
Emergency	N/A

* Varies based on length of run and driver

New Powerflex is available in 60ft reels, or can be ordered as custom lengths (cutting increments every 4 inches) up to the full reel size. Check maximum run lengths for each Output on the Power Consumption chart. Do not power single or multiple runs that exceed the maximum run length from a single driver.

MAX CONTINUOUS RUN

96W Driver 12ft

OUTPUT

CCT & SDCM	GD-2700-1800K - 2 Step MacAdam Ellipse GD-3000-2200K - 2 Step MacAdam Ellipse
Delivered Lumens	379 lm 1FT @2700k 420 lm 1FT @3000K
Color Bin Tolerance	+3% / -3%
Lumen Maintenance	L70 - 50,000 Hours
Testing Data	LM-80-15

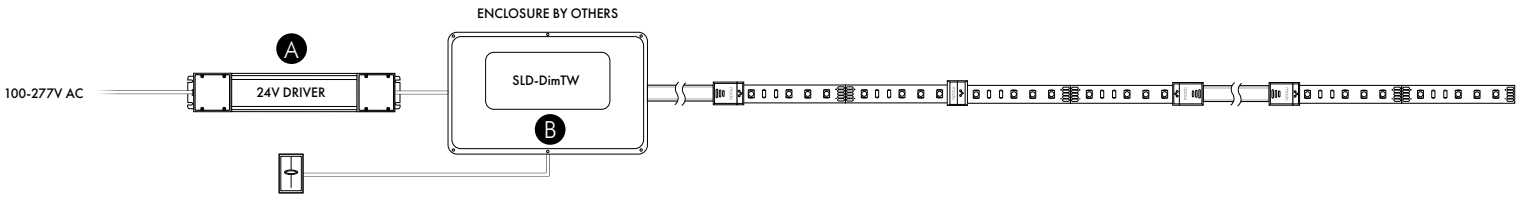
MODA TECHNOLOGY

modaLED[™] modaHIGH CRI[™] modaPHOSPHOR[™]

STANDARDS & CERTIFICATIONS

Certification	    <p>Tested to UL & CSA by Intertek for use in USA & Canada. RoHS & WEEE Compliant. Title 24, JA8-2019 Compliant.</p>
Class	2
Warranty	5 Year Limited Warranty

UL / cUL 0-10V Dimming

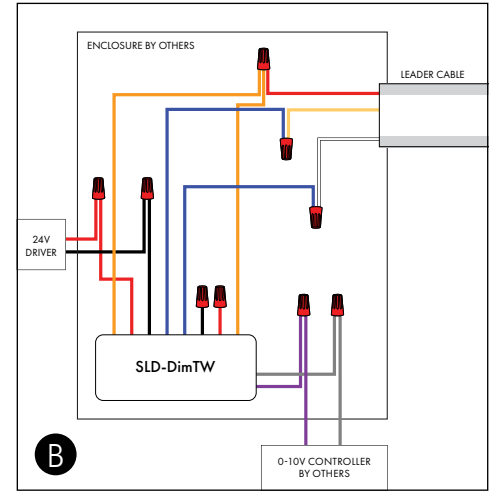
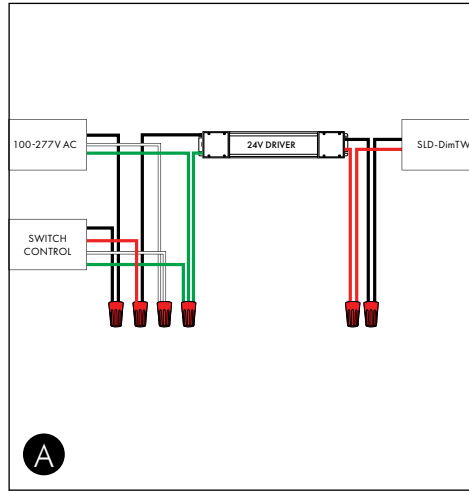


WIRING LEGEND

24V DC Driver Primary Side	
	AC Power Positive
	Load Out Positive
	AC Power Negative
	AC Power Ground

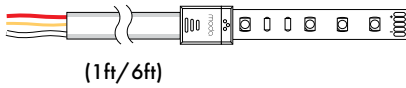
24V DC Driver Secondary Side	
	DC Power Positive
	DC Power Negative

SLD-DimTW	
Each wire on the SLD-DimTW device is labeled for easy identification.	

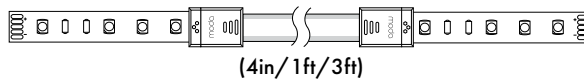


TOOL-LESS, SOLDER-LESS, RAPID FIT CONNECTORS

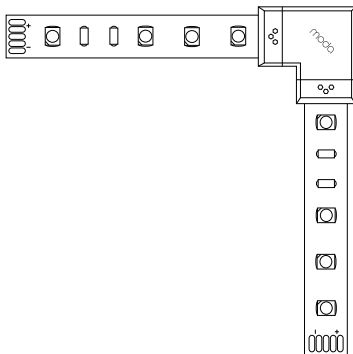
LEADER CABLE



JUMPER CABLE



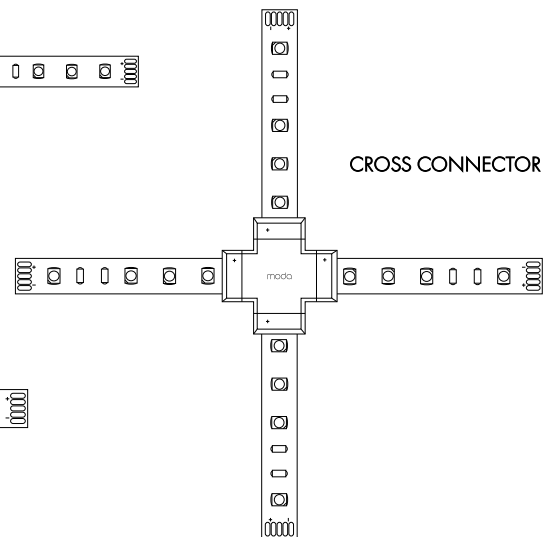
CORNER CONNECTOR



IN-LINE CONNECTOR



CROSS CONNECTOR



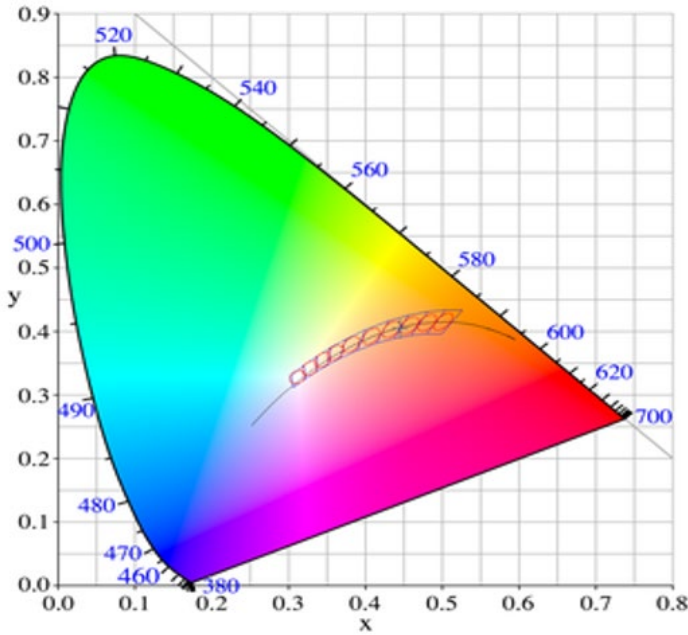
Wattage	Maximum cable length from LED Driver to Start of Flex (in feet)				
	10AWG	12AWG	14AWG	16AWG	18AWG
5	1379.4	867.7	678.1	342.8	215.2
10	706.5	444.4	322.9	175.6	110.2
15	459.8	289.2	215.2	114.2	71.7
20	349.0	219.5	163.3	86.7	54.4
25	278.5	175.2	130.4	69.2	43.4
30	231.7	145.7	108.5	57.6	36.1
35	199.7	125.6	92.9	49.6	31.1
40	173.4	109.1	81.2	43.1	27.0
45	154.0	96.9	72.1	38.3	24.0
50	139.2	87.6	65.2	34.6	21.7
55	126.5	79.5	59.2	31.4	19.7
60	115.8	72.8	54.2	28.8	18.1
65	106.8	67.2	50.0	26.6	16.7
70	99.2	62.4	39.4	24.7	15.5
75	92.5	58.2	36.7	23.1	14.5
80	86.9	54.7	34.4	21.6	13.5
85	81.8	51.4	32.4	20.3	12.7
90	77.2	48.6	30.5	19.2	12.0
96	72.4	45.5	28.6	18.0	11.3

POWER CONSUMPTION

Length (ft)	W/ft	Total W
0		1.05
1	9.6	9.60
2	8.9	17.70
3	8.4	25.30
4	8.3	33.10
5	8.1	40.60
6	8.0	48.00
7	7.8	54.80
8	7.7	61.70
9	7.6	68.30
10	7.2	71.90
11	7.1	77.60
12	6.9	83.00

Based on 90% maximum load of the LED Driver

CIE 1931 CHROMATICITY DIAGRAM



R VALUES

R1	R2	R3	R4	R5
95	98	96	94	95
R6	R7	R8	R9	R10
96	99	93	97	90
R11	R12	R13	R14	R15
90	93	96	97	96

Coordinates

x: 0.4454 y: 0.4047 u: 0.2558 v: 0.5229

	Efficacy (lm/W)	CRI	CQS	Rf	Rg	Flicker
GD27-18K	102.4	96.29	96.17	95.56	102.94	0.35

ILLUMINANCE AT A DISTANCE

	Center Beam FC	Beam Width
2.0 ft	33.19 fc	5.9 ft 6.8 ft
4.0 ft	8.30 fc	11.8 ft 13.6 ft
6.0 ft	3.69 fc	17.7 ft 20.5 ft
8.0 ft	2.07 fc	23.7 ft 27.3 ft
10.0 ft	1.33 fc	29.6 ft 34.1 ft
12.0 ft	0.92 fc	35.5 ft 40.9 ft

Vert. Spread: 115.3°
Horiz. Spread: 117.1°

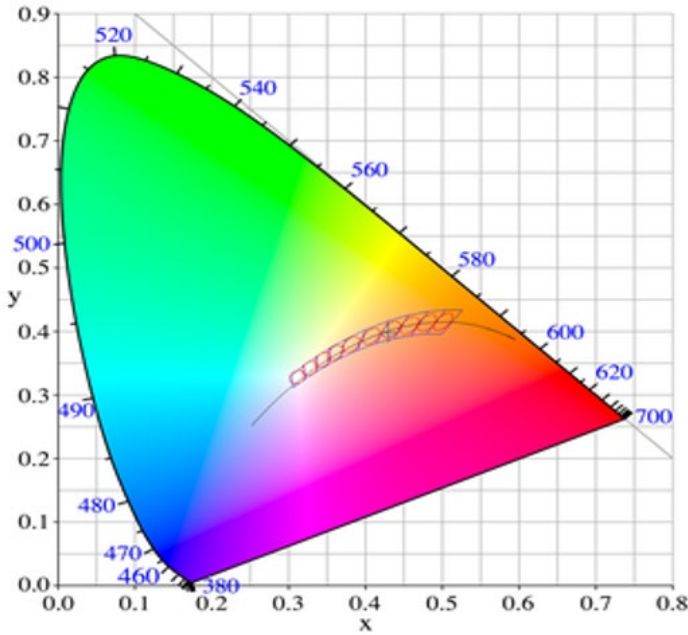
ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt
0-30	98.54	N/A	26.00%
0-40	162.97	N/A	43.00%
0-60	292.59	N/A	77.20%
60-90	82.62	N/A	21.80%
0-90	375.21	N/A	99.00%
90-180	3.79	N/A	1.00%
0-180	379.00	N/A	100.00%

LUMENS PER ZONE

Zone	Lumens	% Lamp	% Fixt
0-10	12.13	N/A	3.20%
10-20	34.49	N/A	9.10%
20-30	52.30	N/A	13.80%
30-40	64.43	N/A	17.00%
40-50	67.84	N/A	17.90%
50-60	61.78	N/A	16.30%
60-70	47.75	N/A	12.60%
70-80	27.29	N/A	7.20%
80-90	7.58	N/A	2.00%
90-100	0.00	N/A	0.00%

CIE 1931 CHROMATICITY DIAGRAM



R VALUES

R1	R2	R3	R4	R5
94	96	99	94	94
R6	R7	R8	R9	R10
92	96	96	95	92
R11	R12	R13	R14	R15
91	85	94	99	96

Coordinates

x: 0.4753 y: 0.4237 u: 0.2933 v: 0.5498

	Efficacy (lm/W)	CRI	CQS	Rf	Rg	Flicker
GD30-22K	109.8	95	94.52	91	98	0

ILLUMINANCE AT A DISTANCE

	Center Beam FC	Beam Width
2.0 ft	36.78 fc	5.9 ft 6.8 ft
4.0 ft	9.19 fc	11.8 ft 13.6 ft
6.0 ft	4.09 fc	17.7 ft 20.5 ft
8.0 ft	2.30 fc	23.7 ft 27.3 ft
10.0 ft	1.47 fc	29.6 ft 34.1 ft
12.0 ft	1.02 fc	35.5 ft 40.9 ft

Vert. Spread: 115.3°
Horiz. Spread: 117.1°

ZONAL LUMEN SUMMARY

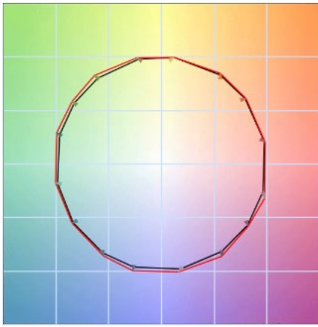
Zone	Lumens	% Lamp	% Fixt
0-30	109.20	N/A	26.00%
0-40	180.60	N/A	43.00%
0-60	324.24	N/A	77.20%
60-90	91.56	N/A	21.80%
0-90	415.80	N/A	99.00%
90-180	4.20	N/A	1.00%
0-180	420.00	N/A	100.00%

LUMENS PER ZONE

Zone	Lumens	% Lamp	% Fixt
0-10	13.44	N/A	3.20%
10-20	38.22	N/A	9.10%
20-30	57.96	N/A	13.80%
30-40	71.40	N/A	17.00%
40-50	75.18	N/A	17.90%
50-60	68.46	N/A	16.30%
60-70	52.92	N/A	12.60%
70-80	30.24	N/A	7.20%
80-90	8.40	N/A	2.00%
90-100	0.00	N/A	0.00%

2700K

Color Vector Graphic



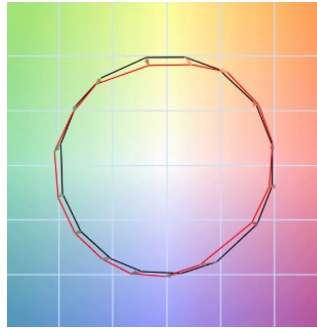
Test — Reference —

Color Distortion Graphic



1800K

Color Vector Graphic



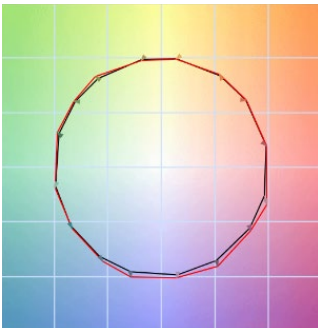
Test — Reference —

Color Distortion Graphic



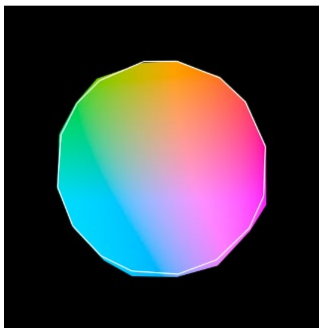
3000K

Color Vector Graphic



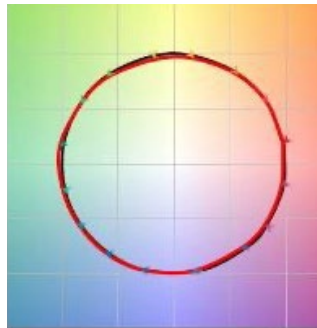
Test — Reference —

Color Distortion Graphic



2200K

Color Vector Graphic



Test — Reference —

Color Distortion Graphic



MPFI - SP - US - HO - S1 - W - 24V - - 95 - FT - IN

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A B C D E F G H I J K

COMPLETE SKU SAMPLE: MPFI-SP-US-HO-S1-W-24V-GD27-18K-95-12FT-00IN

A - FIXTURE & LOCATION

MPFI	—	Moda Powerflex Interior
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I - CRI

95	—	95 CRI
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B - PITCH

SP	—	Standard Pitch
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J - FEET

00	—	0FT
01	—	1FT
02	—	2FT
03	—	3FT
04	—	4FT
05	—	5FT
06	—	6FT
07	—	7FT
08	—	8FT
09	—	9FT
10	—	10FT
11	—	11FT
12	—	12FT

C - REGION

US	—	United States
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D - LIGHT OUTPUT

HO	—	High Output
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E - SERIES NUMBER

S1	—	Series 1
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K - INCHES

00	—	0IN
04	—	4IN
08	—	8IN

F - FPCB FINISH

W	—	White
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G - VOLTAGE

24V	—	24 volts
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New Powerflex is available in 60ft reels, or can be ordered as custom lengths (cutting increments every 4 inches) up to the full reel size. Check maximum run lengths for each Output on the Power Consumption chart. Do not power single or multiple runs that exceed the maximum run length from a single driver.

H - CCT

GD27-18K	—	2700K-1800K
GD27-18K	—	3000K-2200K

FIXTURE	DESCRIPTION	ORDERING SKU
MODA Powerflex Interior Standard Pitch USA High Output White PCB 24V	GD-2700-1800K 7.5W/FT IP20 95CRI	MPFI-SP-US-HO-S1-W-24V-GD27-18K-95-
MODA Powerflex Interior Standard Pitch USA High Output White PCB 24V	GD-3000-2200K 7.5W/FT IP20 95CRI	MPFI-SP-US-HO-S1-W-24V-GD30-22K-95-

ACCESSORIES	DESCRIPTION	ORDERING SKU
Leader Cable 1FT	Connects Powerflex to Power Supply	MPFI-GD-DW-S1-W-LEAD-1FT
Leader Cable 6FT	Connects Powerflex to Power Supply	MPFI-GD-DW-S1-W-LEAD-6FT
Jumper Cable 4IN	Connects 2 Powerflex – enables flexible bends	MPFI-S1-W-JUMP-4IN
Jumper Cable 1FT	Connects 2 Powerflex – enables flexible bends	MPFI-S1-W-JUMP-1FT
Jumper Cable 3FT	Connects 2 Powerflex – enables flexible bends	MPFI-S1-W-JUMP-3FT
Corner Connector	Connects 2 Powerflex at 90°	MPFI-S1-W-LCONN
In-Line Connector	Connects 2 Powerflex together	MPFI-S1-W-SCONN
Cross Connector	Connects 4 Powerflex - X configuration	MPFI-S1-W-XCONN

DRIVERS	DESCRIPTION	ORDERING SKU
96W Driver	100-277V 96W Class 2 On/Off 24V DC CV Plenum Rated Driver c/w Junction Box	MPND96

CONTROLLERS	DESCRIPTION	ORDERING SKU
GlowDim Dimming Module	DC/DC (0/1-10V+PWM) LED Dimming Module	SLD-DimTW