

FIXTURE SPECIFICATIONS

INTENDED USE

Our linear architectural LED lights come with a variety of color temperature, dimming, CRI and voltage options. Ideal for commercial, hospitality and residential interior lighting, this 2-inch lens opening fixture offers an RGBW and Bluetooth Light Mesh smart phone app for optimal performance and versatility. This linear fixture comes in standard lengths of 2ft, 3ft, 4ft, 6ft and 8ft and can be joined together for seamless runs of any length. Available with varying options in lumen output.

PRODUCT FAMILY

12100-20-P	Linear Pendant	12100-20-P-RGBW	Pendant
12100-20-W	Linear Wall	12100-20-W-RGB	Wall
12100-20-S	Linear Surface	12100-20-S-RGB	Surface
12100-20-R	Linear Recessed	12100-20-R-RGBW	Recessed RGBW
12100-20-Y	Y Shape		
12100-20-SQ	Square Shape		
12100-20-RC	Rectangle Shape		
12100-20-HEX	HEX Shape		

FEATURES

Construction: Die-formed and welded 22-gauge cold rolled steel, painted finish with premium paint

Indirect Mounting: For most effective indirect lighting result, mount at no less than 18" from the ceiling

Custom Design: Offered with pre-fabricated and fully illuminated corners

Lens: Glare-free, frosted acrylic snap-in flat lens for even distribution
Voltage: 50/60 Hz Constant current 0-10V @ 120-277V, TRIAC & ELV @ 120V RGBW, Tunable White @ 120-277V

Dimming for Static Color: 0-10V, TRIAC (Forward-phase), ELV (Reverse-phase) RGBW Smart Phone App: Light Mesh Bluetooth App for [iOS](#) and [Android](#)

Life: +60,000 Reported L70 Hours @ 55°C

Operating Temperature: 4°F (-20°C) ~ 122°F (50°C).

Warranty: 5 years (Dynamic Colors) and 2 years (RGBW & Tunable White) Carefree for parts & components (Labor not included)

Listings: cULus Listed, UL listed for damp location, ADA compliant (Less than 4" off wall)



Pendant



D

D/I

Recessed

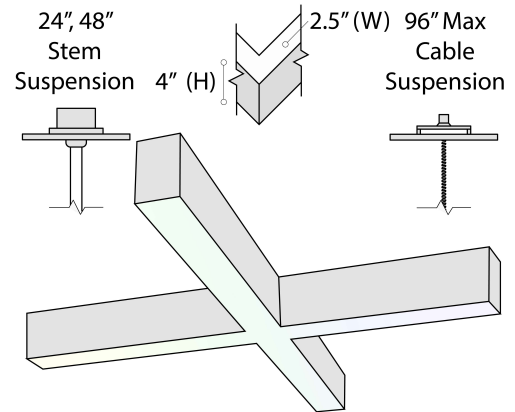
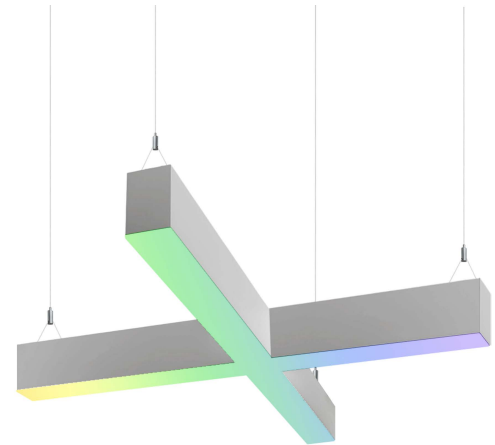
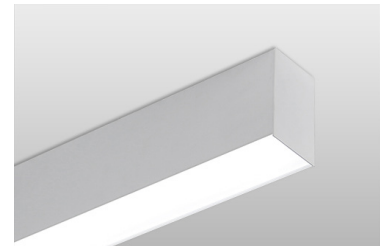
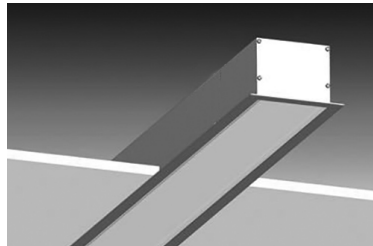
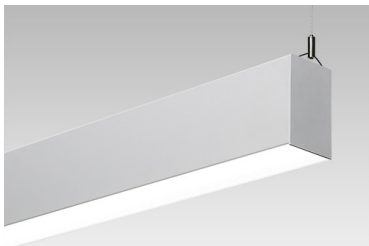


D

Surface



D



Alcon Lighting 12100-20-X Architectural LED Direct/Indirect X Shape Light Fixture

ORDERING INFORMATION Example: (12100-20-X-P-D4-27K-010-WH-WH-8-FL)

MODEL	12100-20-X 2.5" x 4"		
MOUNTING	P Pendant S Surface RF Recessed Flanged (1/2 Drywall)		
DOWNLIGHT LUMENS <i>Wattage & Lumens per foot</i>	STATIC WHITE D4 4.5 Watts 640 lms D6 6.75 Watts 820 lms D9 9 Watts 1061 lms D12 12 Watts 1405 lms D13 13.5 Watts 1537 lms D14 Specify Lumens ¹⁴ (Min 113 lms - Max 2000 lms)	TUNABLE WHITE TW-4 4.5 Watts 734 lms ¹² TW-6 6.75 Watts 924 lms ¹² TW-9 9 Watts 991 lms ¹² TW-12 12 Watts 1384 lms ¹² TW-13 13.5 Watts 1467 lms ¹² TW-DLO 4.4 Watts 494 lms ¹³ TW-DHO 8.8 Watts 988 lms ¹³	RGBW ¹¹ RGBW-D10 10 Watts 425 lms
UPLIGHT OPTICS ¹⁶	Blank Not Required CC Clear cover for no optic	15 15° 30 30° 60 60°	20 20° Asymmetric 120 120° Batwing
UPLIGHT LUMENS ^{1,2} <i>Wattage & Lumens per foot</i>	STATIC WHITE Blank Not Required I4 4.5 Watts 530 lms I6 6.75 Watts 733 lms ³	TUNABLE WHITE Blank Not Required TW-4 4.5 Watts 734 lms ¹² TW-6 6.75 Watts 924 lms ¹² TW-ILO 4.4 Watts 494 lms ¹³ TW-IHO 8.8 Watts 988 lms ¹³	RGBW ¹¹ Blank Not Required RGBW-I10 10 Watts 425 lms
ARM LENGTH	1 1 Foot Arm 3 3 Foot Arm 4 4 Foot Arm 5 5 Foot Arm 6 6 Foot Arm		
COLOR TEMPERATURE	STATIC WHITE 27K 2700K Warm White ¹⁵ 30K 3000K Soft White 35K 3500K Neutral White 40K 4000K Cool White 50K 5000K Daylight	TUNABLE WHITE TW2750 2700-5000K (Wired) ⁵ TW2065 2000-6500K (Wired) ⁵ TW2762 2700-6200K (Wireless) ^{4,6}	RGBW ¹¹ RGBW30 RGB + W (3000K) RGBW40 RGB + W (4000K)
DRIVER	STATIC WHITE 010 0-10V 1% <i>Standard</i> TRI Triac (120V) ELV Electronic Low Voltage ES566 eldoLED 0-10V SOLOdrive BLS Bi-Level Step 40/100% BLS_{step} Bi-Level Step 40 /100% TLS Tri-Level Step 30/70/100% TLS_{step} Tri-Level Step 30 /70/100%	TUNABLE WHITE 050 Tunable White 0-10V	RGBW ¹¹ 24V RGBW & Wireless Tunable White ⁶
FINISH	WH White (Matte) <i>Standard</i> SL Silver (Matte)	BK Black (Matte) RAL# Specify RAL # (Pg. 3)	
PENDANT MOUNTING	Blank Not Required	AC4 4' Adjustable Aircraft Cable AC8 8' Adjustable Aircraft Cable ACX Specify X in Feet (Max 30')	ST2 2' Stem ¹⁰ ST4 4' Stem ¹⁰ STX Specify X in Feet (Max 8') ¹⁰
PENDANT CEILING TYPE	Blank Not Required	T9 9/16" Grid T-bar T15 15/16" Grid T-bar	H Hard / Dry Wall SH Sloped Hard / Dry Wall
CORD / CANOPY FINISH	WH/WH White Cord / White Canopy WH/BK White Cord / Black Canopy	BK/BK Black Cord / Black Canopy BK/WH Black Cord / White Canopy	WH/RAL# White Cord / Specify RAL # (Page 3) BK/RAL# Black Cord / Specify RAL # (Page 3)
CRI	8 80+ CRI	9 90+ CRI ⁷	
CONTROLS	STATIC WHITE Blank Not Required LV Lutron VIVE Wireless ⁹ FE Fulham Elite Control ⁹	TUNABLE WHITE ⁴ TW-WWR-BK Wireless Black Wall Remote TW-WWR-WH Wireless White Wall Remote TW-DWR-BK Wireless Black Desktop Remote	RGBW ¹¹ RGBW-APP iOS/Android Bluetooth App RGBW-SZ Wireless RF Remote Control Single Zone RGBW-MZ Wireless RF Remote Control Multi Zone RGBW-DMX 4-Channel DMX512 Decoder
WARRANTY	Blank 5 Year Warranty <i>Standard</i>	W7 7 Year Warranty	W10 10 Year Warranty
OPTIONS	EM8 8W Emergency Battery EM15 15W Emergency Battery EM20 20W Emergency Battery	EM25 25W Emergency Battery OS Occupancy & Daylight Harvesting Sensor DS Daylight Dimming Photo Sensor	AB Separate Uplight & Downlight Dimming Control ⁸ GTD Bodine Generator Transfer Device COC Chicago Code Compliance Separated EM Feed
VIVE CONTROL SYSTEM <i>(OPTIONAL NOT REQUIRED)</i>	VDO Integral RF Occupancy/ Daylight (EcoSystem) VRF Integral RF (EcoSystem)	FCJ50 PowPak (0-10V) FCJ5E PowPak (EcoSystem) FCJ50EM EM UL924 PowPak (0-10V) FCJ5EEM EM UL924 PowPak (EcoSystem)	RMJS8T PowPak RF (0-10V) RMJSECO32 PowPak RF Single Zone (EcoSystem) RMJS8TEM EM UL924 PowPak RF (0-10V)
FULHAM CONTROL SYSTEM <i>(OPTIONAL NOT REQUIRED)</i>	ELIOP-SR Occupancy & Daylight Harvesting (Short Range) ELIOP-LR Occupancy & Daylight Harvesting (Long Range)	SR-W White Wireless Single Rocker Pad DR-W White Wireless Double Rocker Pad	

¹ Only available for Pendant and Wall Mounts with General Downlight Optics

² RGBW downlight can be paired with a static color temperature uplight or RGBW uplight

³ Only compatible with D6 & D12 Downlight Wattages

⁴ Wireless control must be specified (page 5)

⁵ Must be Paired with 050 Driver

⁶ Must specify for RGBW & Wireless Tunable White 24V Driver

⁷ Not available for RGBW

⁸ For RGBW, AB is only available though RGBW-MZ control or RGBW-APP

⁹ Control system must be specified for this feature

¹⁰ Stem finish will be the same as fixture finish

¹¹ Bluetooth app control or wireless control must be specified for this feature (cannot be combined)

¹² Only for Wired Tunable White Control

¹³ Only for Wireless Tunable White Control

¹⁴ Max lumen for 6' & 8' lengths is 1467 lms.

¹⁵ Only available in 90CRI

¹⁶ Not Available for RGBW

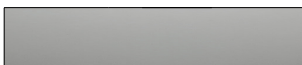
Available Finishes

Standard

	Matte White	RAL #9003
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Set up fee and longer lead time will be applied on non-standard finishes.

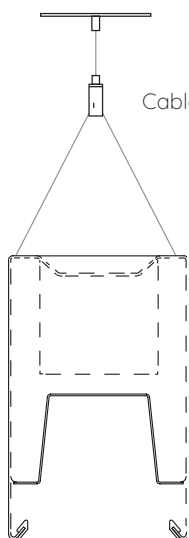
Metropolitan

	Black	RAL #9011
	Silver	RAL #9022
	Asher Grey	RAL #7004
	Mason	RAL #7039
	Slate	RAL #7031
	Tech Grey	RAL #7016
	Chocolate Spice	RAL #8017
	Urban Native	RAL #8025
	Carmin	RAL #8028
	Reseda Green	RAL #6011

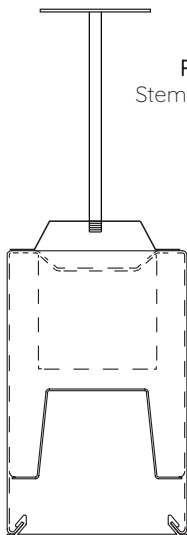
Vibrant

	Violet Dreams	RAL #4006
	Purple Red	RAL #3004
	Carmine Red	RAL #3002
	Rose	RAL #3017
	Pure Orange	RAL #2004
	Traffic Yellow	RAL #1023
	Daisy	RAL #1018
	Antique Spring	RAL #6019
	Island Skye	RAL #6027
	Sky Blue	RAL #5015

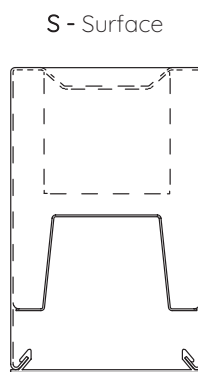
Mounting



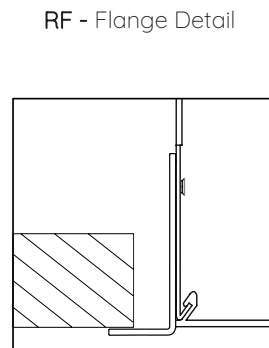
P-AC
Cable Pendant



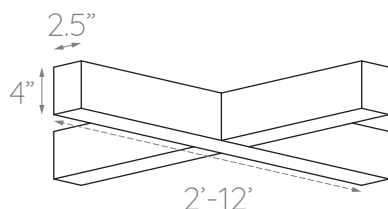
P-ST
Stem Pendant



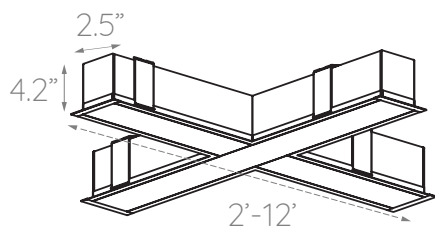
S - Surface



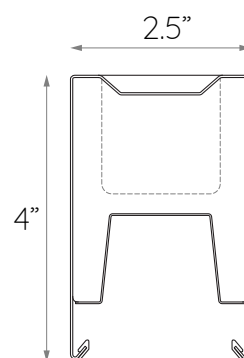
RF - Flange Detail



Cross
(Pendant or Surface)



Cross (Recessed)



Compatible Dimmers

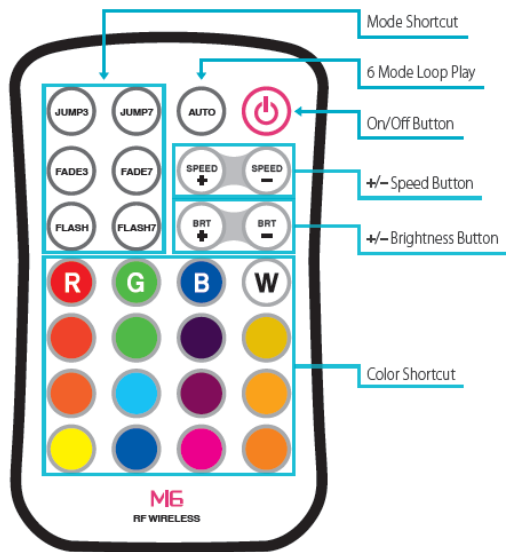
Dynamic White				TUNABLE WHITE
	Triac	ELV	0-10V	0-10V
	TG-600P LG-600P TGCL-153P DV-600P DVCL-153P S-603PG CT-103P S-600P	DVELV-303P SELV-300P MAELV-600 FAELV-500	NTSTV NFTV DVSTV	DVTV DVSTV For use with TW2750 & TW2065 Must order two items: (1) For Dimming (2) For Color Tuning
		6161 6633-P 6683 6631-2 IPI06-1LZ	IPE04 VPE06-1LZ IP710-DLZ	

Wireless Tunable White Control

Weight	0.35 lbs
Dimming Type	PWM
Signal Type	RF (Radio Frequency) 434 MHz/868MHz
Range	100ft from fixture
Maximum Load	24V @ DC 480W
Working Temperature	-20°F to 140°F (-28C to 60°C)
Battery	3V (CR2032 Battery)



RGBW-SZ | RF Remote Control Single Zone



Dimensions	H 5-3/4" x W 2-5/16" x D 3/8"
Supply Voltage	24V DC constant voltage
Signal Type	RF (Radio Frequency) 433.92MHz
Range	165ft from fixture
Maximum Load	24V @ DC 216W
Working Temp.	-4°F to 131°F (-20°C to 55°C)
Battery	3V (CR2032 battery)

Wall mount plate is included

RGBW-MZ | RF Remote Control Multi Zone



Dimensions	L 5.7" x W 2.1" x H 0.86"
Input Voltage	DC5V (Built-in Lithium battery)
Working Frequency	2.4 GHz
Max. Distance	98ft from fixture
Maximum Load	24V @ 360W
Change Mode	18 color modes
Scale Level	1024 x 1024 x 1024
Weight (G.W.)	0.44 lbs
Working Temp.	-22°F to 131°F (-30°C to 55°C)
Zone	up to 10

Wall mount plate is included

Preset Modes

1	3 Color jump	10	Green / Cyan fade
2	7 Color jump	11	Blue / Purple fade
3	White flash	12	Green / Yellow fade
4	7 Color flash	13	Blue / Cyan fade
5	RGB fade in / out	14	Red / Purple fade
6	Red / Green fade	15	Blue / White fade
7	Red / Blue fade	16	Yellow / Purple / Cyan fade
8	Green / Blue fade	17	RGB fade
9	Red / Yellow fade	18	Full-color fade

Controls

Smart Sensors	Protocol	Compatible Networks	Occupancy	Daylight	Temperature Reporting	Communication to Luminaire
	Lutron Clear Connect	Lutron Vive System Network	Enabled	Enabled	No	Wireless
	eliteBlue	EliteControl SmartBridge	Enabled	Enabled	No	Wireless

LUTRON

Controls Installed on the Fixture



VDO
Individual
Fixture Control

Shipped LUTRON VIVE Enabled with VDO Vive Integral Fixture Control (with Sensing).



VRF
Individual
Fixture Control

Shipped LUTRON VIVE Enabled with VRF Vive Integral Fixture Control (RF Only) Installed on the Fixture.



FCJS0
Individual
Fixture Control

Shipped LUTRON VIVE Enabled FCJS0 Control Module Installed on the Fixture.



FCJSE
Individual
Fixture Control

Shipped LUTRON VIVE Enabled FCJSE Control Module Installed on the Fixture.



FCJS0EM
Individual
Fixture Control

Shipped LUTRON VIVE Enabled FCJS0 Control Module Installed on the Fixture.



FCJSEEM
Individual
Fixture Control

Shipped LUTRON VIVE Enabled FCJSEEM Control Module Installed on the Fixture.



RMJS8TEM
Individual
Fixture Control

Shipped LUTRON VIVE Enabled RMJS8TEM Control Module Installed on the Fixture.



RMJS8T
Individual
Fixture Control

Shipped LUTRON VIVE Enabled RMJS8T Control Module Installed on the Fixture.



RMJSECO32
Individual
Fixture Control

Shipped LUTRON VIVE Enabled RMJSECO32 Control Module Installed on the Fixture.

EliteControl FULHAM

Controls Installed on the Fixture



ELIOP-SR
Short Range,
Bluetooth
compatible
occupancy
and Daylight
Sensing

Harvesting



ELIOP-LR
Long range, Bluetooth
compatible occupancy
and Daylight Harvesting
Sensor.

Controls Provided by Fulham



SR-W - Bluetooth
Single Rocker Pad



SR-D - Bluetooth
Double Rocker Pad

Photometrics (for Dynamic Color Temperatures)

Direct

12100-20-D4-S-4
Illuminance at a Distance

	Center Beam FC	Beam Width
1.7FT	555 FC	3.9 FT 3.1 FT
3.3FT	147 FC	7.6 FT 6.1 FT
5.0FT	64.1 FC	11.6 FT 9.2 FT
6.7FT	35.7 FC	15.5 FT 12.3 FT
8.3FT	23.3 FC	19.2 FT 15.2 FT
10.0FT	16.0 FC	23.2 FT 18.4 FT

■ Vert. Spread: 98.4°
■ Horiz. Spread: 85.1°

12100-20-D13-S-4
Illuminance at a Distance

	Center Beam FC	Beam Width
1.7FT	993 FC	3.9 FT 3.1 FT
3.3FT	263 FC	7.6 FT 6.1 FT
5.0FT	115 FC	11.6 FT 9.2 FT
6.7FT	63.9 FC	15.5 FT 12.3 FT
8.3FT	41.6 FC	19.2 FT 15.2 FT
10.0FT	28.7 FC	23.2 FT 18.4 FT

■ Vert. Spread: 98.4°
■ Horiz. Spread: 85.1°

12100-20-D6-S-8
Illuminance at a Distance

	Center Beam FC	Beam Width
1.7FT	1,117 FC	3.9 FT 3.1 FT
3.3FT	296 FC	7.6 FT 6.1 FT
5.0FT	129 FC	11.6 FT 9.2 FT
6.7FT	71.9 FC	15.5 FT 12.3 FT
8.3FT	46.8 FC	19.2 FT 15.2 FT
10.0FT	32.3 FC	23.2 FT 18.4 FT

■ Vert. Spread: 98.4°
■ Horiz. Spread: 85.1°

12100-20-D13-S-8
Illuminance at a Distance

	Center Beam FC	Beam Width
1.7FT	1,986 FC	3.9 FT 3.1 FT
3.3FT	527 FC	7.6 FT 6.1 FT
5.0FT	230 FC	11.6 FT 9.2 FT
6.7FT	128 FC	15.5 FT 12.3 FT
8.3FT	83.3 FC	19.2 FT 15.2 FT
10.0FT	54.7 FC	23.2 FT 18.4 FT

■ Vert. Spread: 98.4°
■ Horiz. Spread: 85.1°

Direct/Indirect

12100-20-D6-I6-S-4
Illuminance at a Distance

	Center Beam FC	Beam Width
1.7FT	470 FC	3.9 FT 3.3 FT
3.3FT	296 FC	7.6 FT 6.5 FT
5.0FT	129 FC	11.5 FT 9.8 FT
6.7FT	71.9 FC	15.5 FT 13.2 FT
8.3FT	46.8 FC	19.1 FT 16.3 FT
10.0FT	32.3 FC	23.1 FT 19.7 FT

■ Vert. Spread: 98.1°
■ Horiz. Spread: 89.0°

12100-20-D13-I4-S-4
Illuminance at a Distance

	Center Beam FC	Beam Width
1.7FT	982 FC	3.8 FT 3.1 FT
3.3FT	261 FC	7.4 FT 5.9 FT
5.0FT	114 FC	11.3 FT 9.0 FT
6.7FT	63.2 FC	15.1 FT 12.1 FT
8.3FT	41.2 FC	18.7 FT 14.9 FT
10.0FT	28.4 FC	22.6 FT 18.0 FT

■ Vert. Spread: 96.9°
■ Horiz. Spread: 83.9°

12100-20-D9-I6-S-8
Illuminance at a Distance

	Center Beam FC	Beam Width
1.7FT	940 FC	3.9 FT 3.3 FT
3.3FT	249 FC	7.6 FT 6.5 FT
5.0FT	109 FC	11.5 FT 9.8 FT
6.7FT	60.5 FC	15.5 FT 13.2 FT
8.3FT	39.4 FC	19.1 FT 16.3 FT
10.0FT	27.2 FC	23.1 FT 19.7 FT

■ Vert. Spread: 98.1°
■ Horiz. Spread: 89.0°

12100-20-D6-I4-S-8
Illuminance at a Distance

	Center Beam FC	Beam Width
1.7FT	1,965 FC	3.8 FT 3.1 FT
3.3FT	521 FC	7.4 FT 5.9 FT
5.0FT	227 FC	11.3 FT 9.0 FT
6.7FT	126 FC	15.1 FT 12.1 FT
8.3FT	82.4 FC	18.7 FT 14.9 FT
10.0FT	56.8 FC	22.6 FT 18.0 FT

■ Vert. Spread: 96.9°
■ Horiz. Spread: 83.9°

COLOR TEMPERATURE GUIDE

