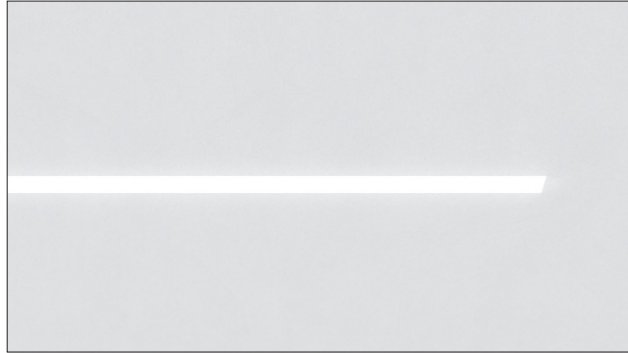# 3G LIGHTING

3G-2RLI

2" RECESSED LINEAR
TUNABLE WHITE & RGBW

Narrow 2" aperture with one piece extruded aluminum housing
Individual or continuous runs in multiple run configurations
Suitable for drywall, grid, wood, and various architectural ceilings
LED system with performance up to 119 lumens per watt
Extruded acrylic lens available in flush, 1" and 2" drop lens options
Asymmetric optics available
1% dimming standard with several integral driver options

3GT   **3G**B

ORDERING INFORMATION

CAT. NO	LED SOURCE	LUMEN OUTPUT	CRI	VOLTAGE
3G-2RLI	**TW** - TUNABLE WHITE (2700K-6500K) **RGBW** - INFINITE COLOUR [1] (3500K WHITE)	**L250** - LOW OUTPUT (250 LM/FT) [2] **L500** - MEDIUM OUTPUT (500 LM/FT) **L750** - HIGH OUTPUT (750 LM/FT) **L1000** - VERY HIGH OUTPUT (1000 LM/FT) [3] **LC___** - CUSTOM OUTPUT (SPECIFY LM/FT)* *Specify custom lumen outputs in 50lm increments (ie: LC600, LC650, LC700) Custom output cannot exceed LC1000 Lumen outputs suitable for white LED source only	**S80** - 83+ CRI **H90** - 93+ CRI [1]	**UNV** - 120/277V

DRIVER	FLANGE TYPE	LENS POSITION	OPTIONS
D01 - 0-10V (100-0.1%) **DALI** - DALI (eldoLED, 100-1%) **DMX** - DMX (eldoLED, 100-0%) [1] **DHLT** - LUTRON T SERIES (100-1%) (2 CHANNEL TUNABLE WHITE)	**WT** - WHITE TRIM **XTR** - TRIMLESS **FX** - FLANGELESS **GCX** - GRID CEILING (UNIVERSAL MOUNT)* *Grid ceiling fixtures ship with universal mounting brackets suitable for all ceiling types. See mounting section for details	**FL** - FLUSH **DD1** - 1" DROP LENS **DD2** - 2" DROP LENS **DASY** - ASYMMETRIC OPTIC [1]	**EMC** - EMERGENCY CIRCUIT [4] **CP** - CHICAGO PLENUM

LENGTH (FEET)	
S - ___' (STRAIGHT RUN)* **L** - ___'X ___' (L-SHAPE) **U** - ___'X ___' X ___' (U-SHAPE) **R** - ___'X ___' (RECTANGLE/SQUARE) **T** - ___'X ___' (T-SHAPE) **X** - ___'X ___' (X-SHAPE) **CUS** - ___ (CUSTOM LAYOUT - PROVIDE DRAWING) * Individual units available from 2' to 8' 2' not available for grid ceiling version Continuous runs available in 1' increments only	

1 RGBW LED source available with S80 (83 +CRI) and DMX driver option only. Not available with asymmetric optic or EM options
2 L250 (250LM/FT) not available in 2' and 3' lengths. Specify LC400 for 2' and 3' fixture lengths when outputs lower than 500LM/FT are required
3 L1000 (1000LM/FT) not available for H90 (93+ CRI)
4 EMC (emergency circuit) options available for tunable white LED source only. Not available with RGBW

3GT - Tunable White
3GB - RGBW

JUNE 7, 2020

ETL   5 YEAR LIMITED WARRANTY

sixteen5hundred

Project 21-12877-3 Date 6/25/2021
RGB/W | Saturated Color

Submitted By
16500, INC

Catalog Number
3G-2RLI RGBW L750 S80 UNV DMX WT FL S-2'

Notes
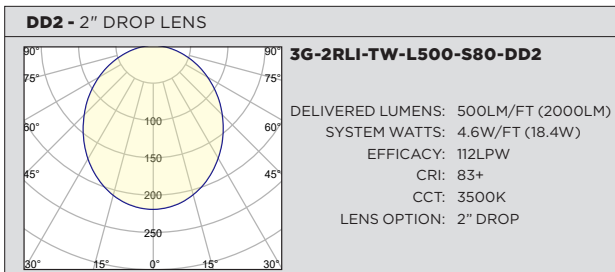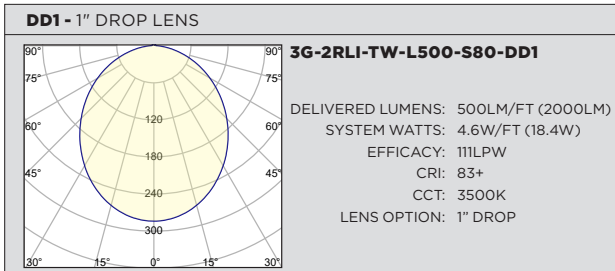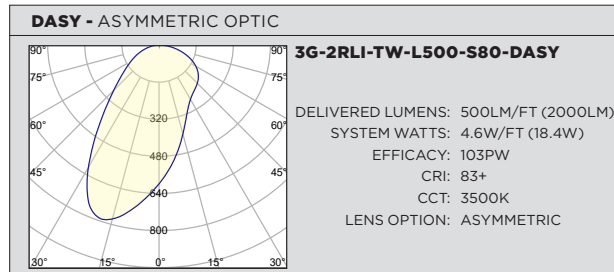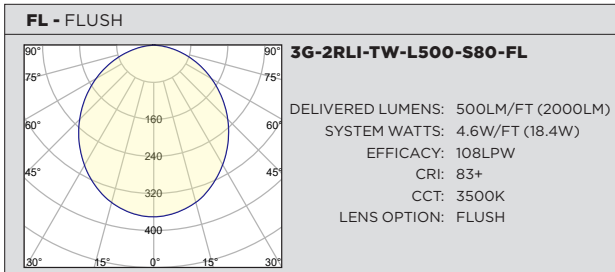
Type

3G LIGHTING

3G-2RLI
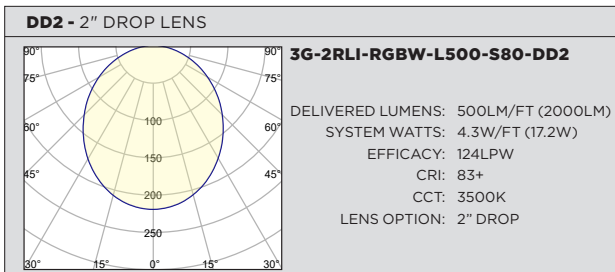
2" RECESSED LINEAR
TUNABLE WHITE & RGBW

PERFORMANCE CHART BASED ON 4' LENGTH WITH FLUSH LENS (TUNABLE WHITE AND 83+ CRI)

COLOR TEMP	DELIVERED LUMENS (LM/FT)	SYSTEM WATTS (W/FT)	EFFICACY (LPW)
2700K	250	2.3	104
	500	4.6	100
	750	7.0	99
	1000	9.7	98
3500K	250	2.3	111
	500	4.6	108
	750	7.0	105
	1000	9.7	102
6500K	250	2.3	119
	500	4.6	118
	750	7.0	113
	1000	9.7	107

EFFICACY (LPW) ADJUSTMENT FACTOR	CRI	Multiplier
	93+	0.88

PHOTOMETRY BASED ON 4' LENGTH (83+ CRI AND 3500K SOURCE)

FL - FLUSH

3G-2RLI-TW-L500-S80-FL

DELIVERED LUMENS: 500LM/FT (2000LM)
SYSTEM WATTS: 4.6W/FT (18.4W)
EFFICACY: 108LPW
CRI: 83+
CCT: 3500K
LENS OPTION: FLUSH

DASY - ASYMMETRIC OPTIC

3G-2RLI-TW-L500-S80-DASY

DELIVERED LUMENS: 500LM/FT (2000LM)
SYSTEM WATTS: 4.6W/FT (18.4W)
EFFICACY: 103PW
CRI: 83+
CCT: 3500K
LENS OPTION: ASYMMETRIC

DD1 - 1" DROP LENS

3G-2RLI-TW-L500-S80-DD1

DELIVERED LUMENS: 500LM/FT (2000LM)
SYSTEM WATTS: 4.6W/FT (18.4W)
EFFICACY: 111LPW
CRI: 83+
CCT: 3500K
LENS OPTION: 1" DROP

DD2 - 2" DROP LENS

3G-2RLI-TW-L500-S80-DD2

DELIVERED LUMENS: 500LM/FT (2000LM)
SYSTEM WATTS: 4.6W/FT (18.4W)
EFFICACY: 112LPW
CRI: 83+
CCT: 3500K
LENS OPTION: 2" DROP

ETL cETLus

5 YEAR LIMITED WARRANTY

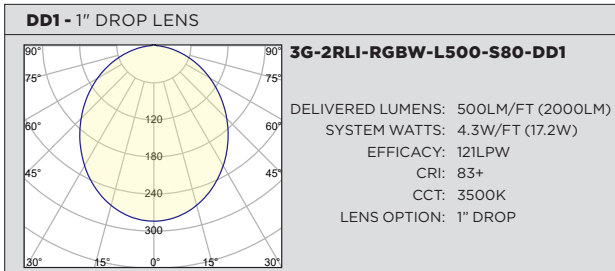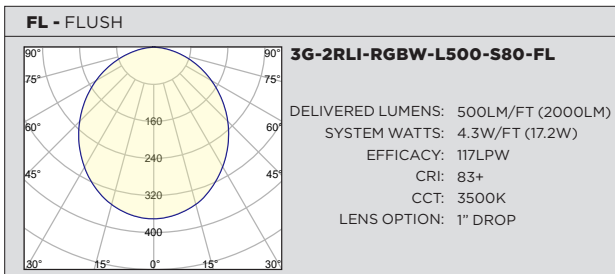## 3G LIGHTING

3G-2RLI

2" RECESSED LINEAR
TUNABLE WHITE & RGBW

PERFORMANCE CHART BASED ON 4' LENGTH (RGBW WITH 83+ CRI AND 3500K SOURCE)

COLOR TEMP	DELIVERED LUMENS (LM/FT)	SYSTEM WATTS (W/FT)	EFFICACY (LPW)
3500K	250	2.1	119
	500	4.3	117
	750	7.0	107
	1000	10.3	98

LUMINOUS INTENSITY PER LED	RGB	INTENSITY Min - Max (mcd)
	RED	355 – 805
	GREEN	710 – 1400
	BLUE	140 – 355

PHOTOMETRY BASED ON 4' LENGTH (83+ CRI AND 3500K SOURCE)

FL - FLUSH

3G-2RLI-RGBW-L500-S80-FL

DELIVERED LUMENS: 500LM/FT (2000LM)
SYSTEM WATTS: 4.3W/FT (17.2W)
EFFICACY: 117LPW
CRI: 83+
CCT: 3500K
LENS OPTION: 1" DROP

DD1 - 1" DROP LENS

3G-2RLI-RGBW-L500-S80-DD1

DELIVERED LUMENS: 500LM/FT (2000LM)
SYSTEM WATTS: 4.3W/FT (17.2W)
EFFICACY: 121LPW
CRI: 83+
CCT: 3500K
LENS OPTION: 1" DROP

DD2 - 2" DROP LENS

3G-2RLI-RGBW-L500-S80-DD2

DELIVERED LUMENS: 500LM/FT (2000LM)
SYSTEM WATTS: 4.3W/FT (17.2W)
EFFICACY: 124LPW
CRI: 83+
CCT: 3500K
LENS OPTION: 2" DROP

ETL
5 YEAR LIMITED WARRANTY

3G LIGHTING

3G-2RLI

2" RECESSED LINEAR
TUNABLE WHITE & RGBW

TECHNICAL

HOUSING

Extruded aluminum housing with narrow 2" aperture

Individual units and continuous runs available in 1' increments

Trim flange with matte white powder coated finish and minimal 0.400" overlap

Trimless model features a satin coat mudding flange for seamless ceiling

24-gauge LED reflector with high reflectance white powder coated finish

Standard polyester powder coated matte white finish

OPTICS

Extruded, satin acrylic lens designed for optimal performance and glare control. Up to 8' continuous

Lens options include flush, 1" and 2" drops with illuminated end caps for all drop lenses

High performance asymmetric optics available

ELECTRICAL

Luminaires are pre-wired with factory installed quick connects and branch circuit wiring

Multiple driver options available for tunable white LED system

DMX driver option for RGBW system with RDM control and 100-0% dimming range

All drivers are integral and easily accessible through luminaire aperture

LED SYSTEM FOR TUNABLE WHITE (TW)

Proprietary LED system with color consistency <3 SDCM

2700K-6500K CCT range

Standard 83+CRI. Optional 93+CRI. (R9 value of 56 for 93+CRI)

L90 >60,000 hours

5 Year Warranty

LED SYSTEM FOR RGBW

Proprietary LED system with color consistency <3 SDCM

White LED available in 35K with 83+ CRI

L80 >72,000 hours

Red (335-805 mcd)

Green (710-1400 mcd)

Blue (140-355 mcd)

5 Year Warranty

MOUNTING

Housing suspended via 1/4" threaded rod or suspension cables (by others)

Toolless installation with 3G's proprietary mounting system

Internal, toolless joiner system (latch and hook) easily connects multiple sections together

LED reflectors remain within each fixture section during installation with 3G's click and lock spring system

Trim fixture designed for use in drywall, wood, and other architectural ceiling materials

Trimless fixture designed for use in drywall, mud-in ceiling applications

Flangeless fixture designed for use in wood ceilings

Suitable for various grid ceiling applications (see mounting details)

Fixture weight: +/- 2.5 lbs/ft

LISTING

ETL listed and tested to cUL standards. Suitable for dry and damp locations

WARRANTY

5 Year Warranty on LED and drivers

Manufacturer 1 Year Warranty for defects in material and workmanship under normal use

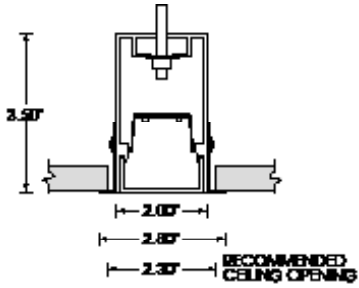Ambient temperature at fixture should not exceed 25°C

3G-2RLI

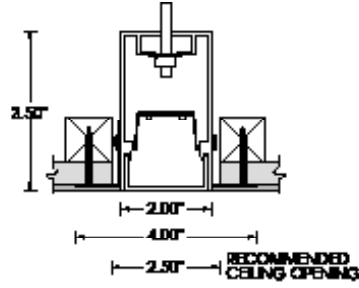### 2" RECESSED LINEAR
TUNABLE WHITE & RGBW

3G LIGHTING

DRAWINGS AND DIMENSIONS HARD CEILING

WT - TRIM

3.50"

2.00"
2.80"
2.30" RECOMMENDED CEILING OPENING

XTR - TRIMLESS

2.50"

2.00"
4.00"
2.50" RECOMMENDED CEILING OPENING

FX - FLANGELESS

3.50"

2.00"
2.062" RECOMMENDED CEILING OPENING

LENGTH
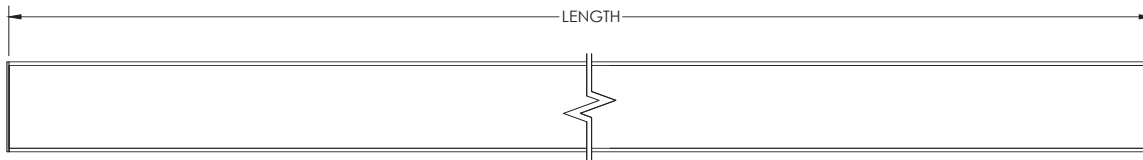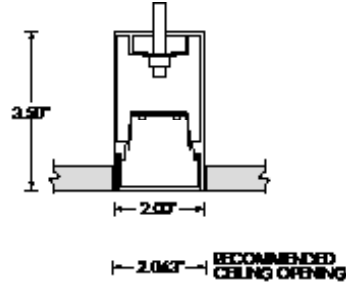
LENS OPTION

FL - FLUSH   **DD1 -** 1" DROP   **DD2 -** 2" DROP   **DASY -** ASYMMETRIC
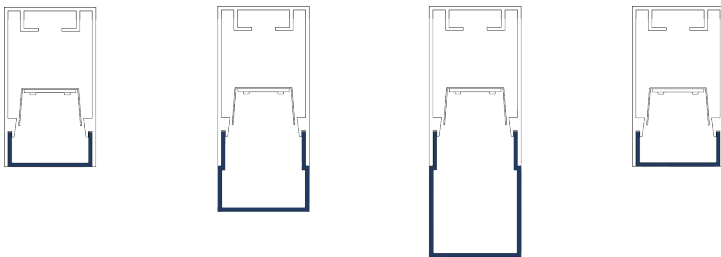
MOUNTING DETAILS HARD CEILING

2.50"   THREADED RODS ARE LOCATED 2.50" FROM ENDS OF THE   2.50"
                              FIXTURE FOR ANY NOMINAL LENGTH

POWER
FEED

LENGTH

ETL
c   us

5 YEAR
LIMITED
WARRANTY
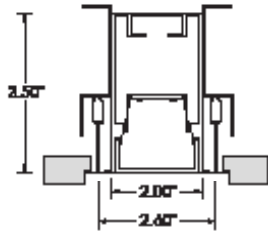
sixteen 5 hundred
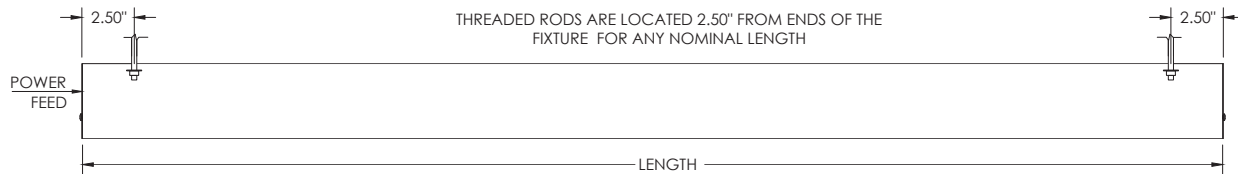
3G LIGHTING

3G-2RLI

2" RECESSED LINEAR
TUNABLE WHITE & RGBW

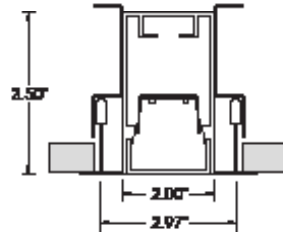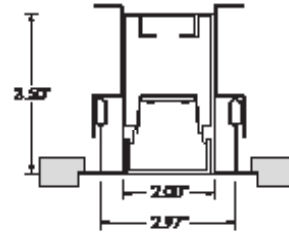
DRAWINGS AND DIMENSIONS GRID CEILING
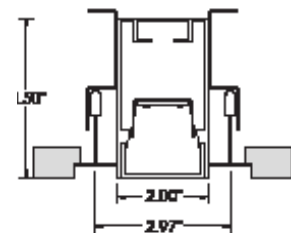
9L - 9/16" LAYIN
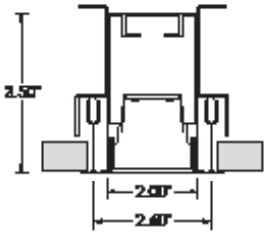
9TG - 9/16" TEGULAR

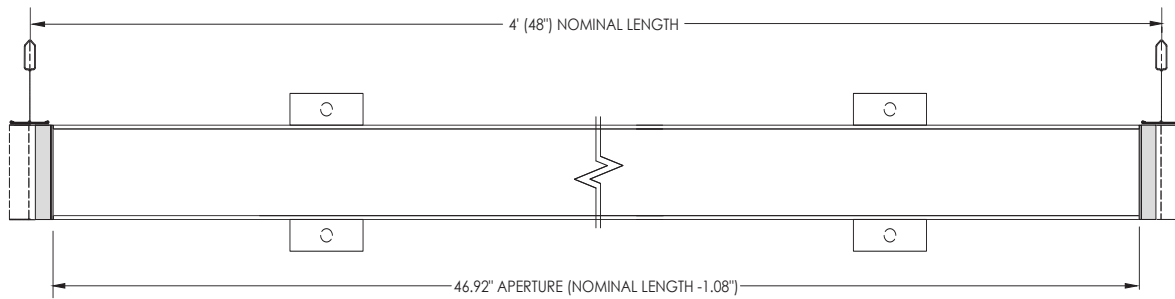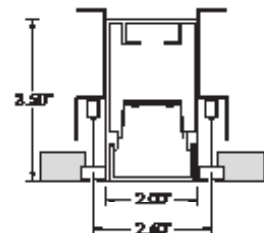**15L -** 15/16" LAYIN

15TG - 15/16" TEGULAR

2.50" 2.00" 2.60"

2.50" 2.00" 2.60"

2.50" 2.00" 2.97"

2.50" 2.00" 2.97"
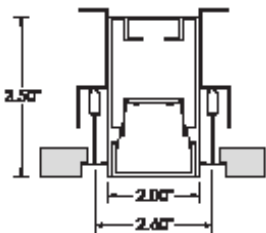
9TP - 9/16" TEGULAR

15TP - 15/16" TEGULAR

9ST - 9/16" SLOT TEE TEGU

2.50" 2.00" 2.60"

1.50" 2.00" 2.97"

3.50" 2.00" 2.60"

4' (48") NOMINAL LENGTH

46.92" APERTURE (NOMINAL LENGTH -1.08")

MOUNTING DETAILS GRID CEILING

UNIVERSAL MOUNTING BRACKET USED FOR
ALL GRID CEILING TYPES

9ST
(SQUARES)

9L, 9TG
15L, 15TG

9TP, 15TP

PLACE BRACKET 7.50" FROM ENDS OF THE FIXTURE

7.50"

POWER
FEED

7.50"

APERTURE

ETL
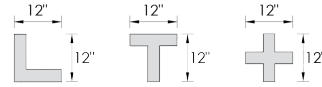5 YEAR LIMITED WARRANTY

3G LIGHTING
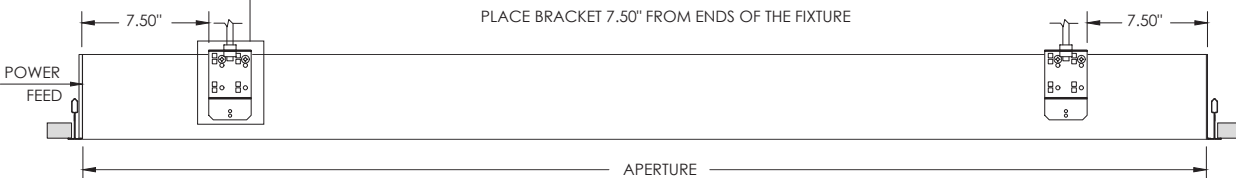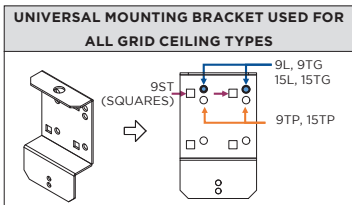
3G-2RLI
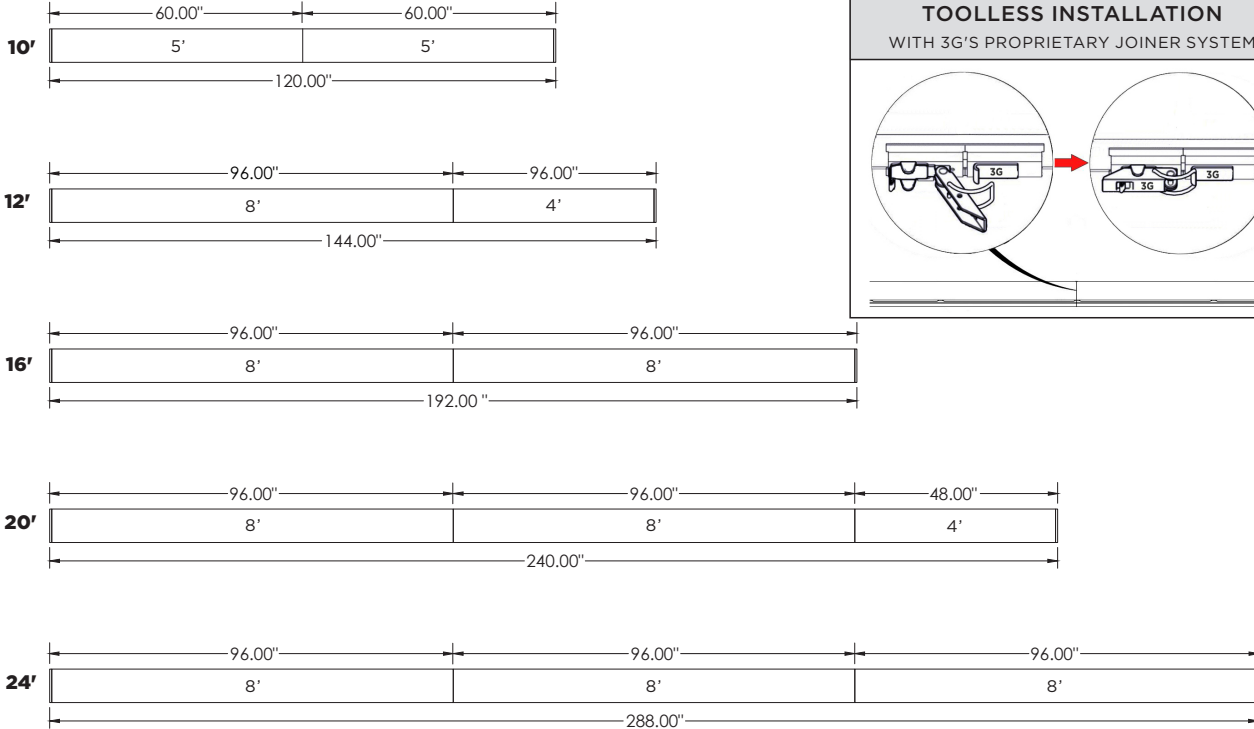2" RECESSED LINEAR
TUNABLE WHITE & RGBW

PATTERNS

Specify pattern shape and overall dimensions as shown below
Patterns are connected with fully illuminated 12"x12" L, T, and X-shaped sections
Please consult factory for custom patterns and shapes not shown below

L-SHAPE	U-SHAPE	RECTANGLE/SQUARE	T-SHAPE	X-SHAPE
Provide dimensions of AxB Example: **L** - 6'x8'	Provide dimensions of AxBxC Example: **U** - 8'x10'x6'	Provide dimensions of AxB Example: **R** - 10'x8'	Provide dimensions of AxB Example: **T** - 14'x6'	Provide dimensions of AxB Example: **X** - 14'x14'

TYPICAL SECTION MOUNTING (AVAILABLE IN 1' INCREMENTS AS STANDARD)

10'
60.00" | 60.00"
5' | 5'
120.00"

12'
96.00" | 96.00"
8' | 4'
144.00"

16'
96.00" | 96.00"
8' | 8'
192.00"

20'
96.00" | 96.00" | 48.00"
8' | 8' | 4'
240.00"

24'
96.00" | 96.00" | 96.00"
8' | 8' | 8'
288.00"

TOOLLESS INSTALLATION
WITH 3G'S PROPRIETARY JOINER SYSTEM

NOTE:

Run lengths and configurations not shown are available in 1' increments as standard. Please contact 3G for 1" increments

5 YEAR LIMITED WARRANTY