ESSENTIALS TRE3-FLAT (01) RGB
24VDC Linear Fixtures - Surface

.74"
.41"
.27"
.68"

- Linear fixture designed for surface mount and grid ceiling applications
- Diffused lens
- Three-sided illumination
- Mounting options include hidden stainless steel clip and plastic T-bar clips
- Features painted end caps to match extrusion finish
- Red, Green, and Blue LED allows for color changing applications
- Features 7 diodes per 2" cut point

① PRODUCT	② WATTS/FT	③ CCT	④ RATED	⑤ EFFICIENCY	⑥ LENS	⑦ WIRE INPUT/OUTPUT	⑧ CONNECTOR/WIRE IN	⑨ CONNECTOR/WIRE OUT	⑩ WIRE COLOR	⑪ WIRE TYPE	⑫ MOUNTING	⑬ FINISH	⑭ LENGTH (IN)	⑮ EXACT/OPTIMAL
TR1RGB	6.0	RGB		STD	DF									

Sample Part Number: **TR1RGB-6.0-RGB-DRY-STD-DF-P1-BW-BW-BK-CL2-HSS-ST-48"-E**

① PRODUCT
TR1RGB

See following pages for compatible power supplies.

② WATTS/FT
6.0 6.0W/ft

③ CCT
RGB

④ RATED
DRY IP20
DMP IP54

⑤ EFFICIENCY
STD Standard

⑥ LENS
DF Diffused

For representation of LED visibility, see Diode Visibility section on following pages. For beam angles, see Photometric Performance section on following pages

⑦ WIRE INPUT/OUTPUT
S1 Single 1 (Input only) - End Feed
S2 Single 2 (Input only) - Bottom Feed

P1 Pass Through 1 (Input/output) - End Feed
P2 Pass Through 2 (Input/output) - Bottom Feed

For continuous mounting, consider bottom feed
When using TBC Mounting, a bare wire S2 wire feed is recommended. See install instructions for details.

⑧ CONNECTOR/WIRE IN
BW Bare Wire (Standard 24")
CON6 Connector 6"
CON24 Connector 24"

BW Bare Wire (Standard 24")
CON6 Connector 6"
CON24 Connector 24"

BW: Standard length is 24", Max length is 120". Request custom length by writing in part number next to BW (example: BW48)

⑨ CONNECTOR/WIRE OUT
CLS Closed End (No feed)

BW Bare Wire (Standard 24")
CON6 Connector 6"
CON24 Connector 24"

BW: Standard length is 24", Max length is 120". Request custom length by writing in part number next to BW (example: BW48)

⑩ WIRE COLOR
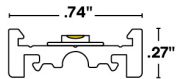**WH** White
BK Black

⑪ WIRE TYPE
CL2 Class 2
CL2P Plenum Rated

CL2P only available with bare wire leads (BW)

⑫ MOUNTING
HSS Hidden Stainless Steel Clip
TBC-01 9/16" Flat or Tegular TB-Grid
TBC-02 15/16" Flat or Tegular TB-Grid

⑬ FINISH
ST Satin
CU Custom

Custom finishes require a longer lead time, consult factory

⑭ LENGTH (IN)
Minimum length is 12", maximum length is 98" not including end caps. Contact us for lengths under 12".

⑮ EXACT/OPTIMAL
O Optimal Illumination
E Exact Specified Length

Exact fixtures match the exact length you specify, but they may have dim spots at the ends. Optimal fixtures are slightly shorter than the length specified, but provide full illumination from end to end. See Exact/Optimal Fixture Length charts.

ESSENTIALS TRE3-FLAT (01) RGB
24VDC Linear Fixtures - Surface

1 PRODUCT - DIMENSIONS

.74"
.27"

Profile

.74"
.68"
.41"
.27"
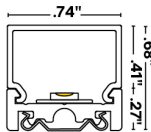
Profile with hidden stainless steel mounting clip

.97"
.82"
.74"
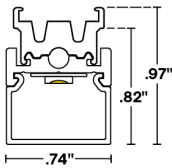
Profile with TBC-01

1.02"
.83"
.70"
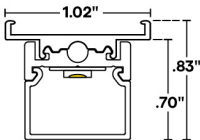
Profile with TBC-02

2 DELIVERED LUMENS

[Calculated L70 = 55000 hrs]
Tested with TR1RGB-6.0-RGB-DRY-STD

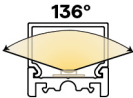|	Red		Green		Blue		All
	LM/FT	WAVELENGTH	LM/FT	WAVELENGTH	LM/FT	WAVELENGTH	LM/FT
DF	72	633	152	523	42	469	244

6 DIODE VISIBILITY

DF - Diffused lens

PHOTOMETRIC PERFORMANCE

Nominal beam spread shown, beam spread varies based on light engine. For more detailed information, see photometric data.

DF

136°

Diffused 136°

TEMPERATURE RATINGS

		5.0 W/FT	
		Min	Max
DRY	Ambient Operating Temp - Surface	-13°F	105°F
DMP	Ambient Operating Temp - Surface	-13°F	100°F

7 WIRE INPUT/OUTPUT

SINGLE (Input only)
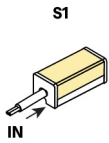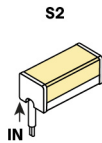
PASS THROUGH (Input/Output)

S1

S2

P1

P2

IN

IN

IN
OUT

IN
OUT

End Feed
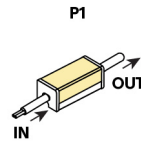
Bottom Feed
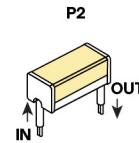
End Feed

Bottom Feed

CONFIGURATION OPTIONS

S1

.08"
width of end cap

.08"
width of end cap

Single End Feed

S1

P1

Connection by others

Non-Continuous End Feed

P1

S1

Connection by others

Non-Continuous Corner Feed

.16" width of end caps

S2

P2

Continuous Bottom Feed

S1

S1

.16" width of end caps
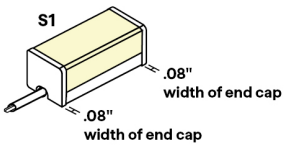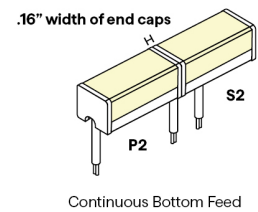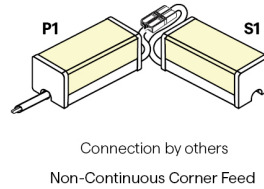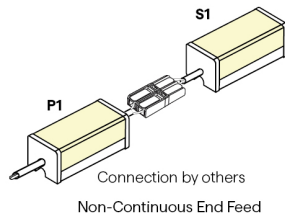
Continuous End to End Feed

8 / 9 CONNECTOR/WIRE – IN/OUT

10 WIRE COLOR

Connector/Wire In or Out not needed to specify product. Standard configuration is BW for Wire In and CLS for Wire out
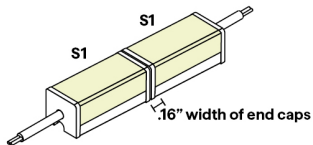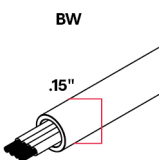
BW

CON6/CON24

.15"

1.65"

.57"

1.61"

.57"

Bare Wire 24"
22 AWG

6" or 24" Overall
Wire Connector | 24 AWG
IP67 Rated, UL Listed

White

Black

12 MOUNTING

HSS

.53"
.17"
.50"

Hidden Stainless Steel Clip

2 clips provided for 4' or less. 4 clips provided for greater than 4'.

To order separately use SST-02

Each clip comes with a #4 x 5/8" Flat Head SS

TBC-01

.64"
.50"
.41"

Plastic T-Bar Clip

Use on 9/16" Flat or Tegular Drop Ceiling

2 clips provided for first 12"; 1 clip provided for each additional 12" or less length. 1 T-Bar Mounting Jig included with each fixture.

To order separately use TBC-01

Each pair of clips comes with M2.5 x 4mm

TBC-02

100"
.50"
.10"

Plastic T-Bar Clip

Use on 15/16" Flat or Tegular Drop Ceiling

2 clips provided for first 12"; 1 clip provided for each additional 12" or less length. 1 T-Bar Mounting Jig included with each fixture.

To order separately use TBC-02

13 FINISH

Satin

Custom finishes require a longer lead time, consult factory

14 EXACT/OPTIMAL FIXTURE LENGTH

E/O Length Calculator →   **E/O Explained →**

Exact fixtures are the exact length specified. Optimal fixtures' length is rounded down based on LED cut points to allow the fixture to be illuminated end to end. For runs with multiple fixtures that need to fill a specific length, it's recommended to order all optimal fixtures with an exact fixture at the end of the run.

Optimal Fixtures
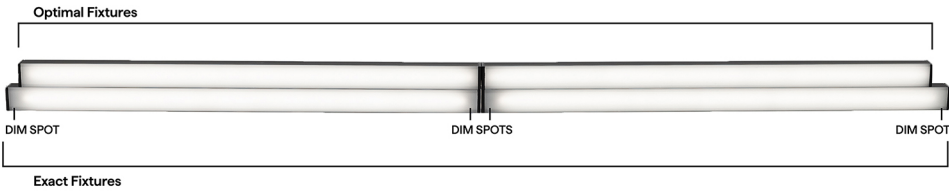
DIM SPOT   DIM SPOTS   DIM SPOT

Exact Fixtures

RGB DRY DMP LENGTHS BY INCH

EXACT LENGTH

Requested Length	Potential dim spot on either end of a S1 fixture S1 IN ↗ End Feed
12"	1"
13"	0.5"
14"	1"
15"	0.5"
16"	1"
17"	0.5"
18"	1"
19"	0.5"
20"	1"
21"	0.5"
22"	1"
23"	0.5"
24"	1"
36"	1"
48"	1"
60"	1"
72"	1"
84"	1"
96"	1"

OPTIMAL LENGTH

Requested Nominal Length	S1 & S2		P1 & P2	
	S1 IN ↗ End Feed	S2 IN ↑ Bottom Feed	P1 OUT ↗ IN ↗ End Feed	P2 OUT ↓ IN ↑ Bottom Feed
12"	10.51"		10.86"	
13"	12.51"		12.86"	
14"	12.51"		12.86"	
15"	14.51"		14.86"	
16"	14.51"		14.86"	
17"	16.51"		16.86"	
18"	16.51"		16.86"	
19"	18.51"		18.86"	
20"	18.51"		18.86"	
21"	20.51"		20.86"	
22"	20.51"		20.86"	
23"	22.51"		22.86"	
24"	22.51"		22.86"	
36"	34.51"		34.86"	
48"	46.51"		46.86"	
60"	58.51"		58.86"	
72"	70.51"		70.86"	
84"	82.51"		82.86"	
96"	94.51"		94.86"	

COMPATIBLE POWER SUPPLIES

See power supplies cut sheets for more information. Data subject to change, all data has +/- 5% tolerance.

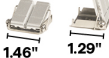| DIM TO LEVEL	INDOOR
	RGB
0.1%	QT-CAB-eLED+DALI-DT8 QT-CAB-eLED+DMX QTM-eLED+DALI-DT8 QTM-eLED+DMX QZ-DMX
1%	QZ-DALI-DT8
10%	Non-Dim Power Supply with RGB App Dongle

DIMMING PROTOCOL	INDOOR
	RGB
DMX	QTM-eLED+DMX QZ-DMX
DALI-2: DT8	QT-CAB-eLED+DALI-DT8 QTM-eLED+DALI-DT8 QZ-DALI-DT8

COMPATIBLE MOUNTING ACCESSORIES

HINGE - HMB-M

1.41" .71"

Adjustable mounting bracket - Medium

HINGE - HMB-L

1.46" 1.29"

Adjustable mounting bracket - Large

HINGE - HMB-XL

4"

1.46"

Adjustable mounting bracket - XLarge

Q-PIVOT

.75"

1.03"

Small mounting accessory

Q-ANGLE

2.23"

1.38"

Adjustable mounting accessory

COMPATIBLE WIRING ACCESSORIES

Q-mini-J5

2.80"

2.27"
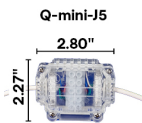
UL Listed, miniature junction box, DRY/DMP (WET rated with silicone)

COMPATIBLE CONTROL ACCESSORIES

SCENE APP DONGLE

1.36"

2.58"

Wi-Fi or Bluetooth Connectivity

COMPATIBLE APPS

NFC APP

Q-NFC

Read and write DMX addresses and adjust voltage