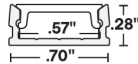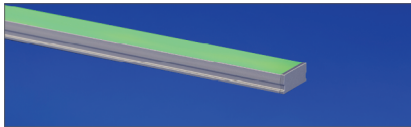# ESSENTIALS THIN-FLAT (01)
RGBW
24VDC Linear Fixtures - Surface & Recessed

• Thin, low-profile surface mount linear fixture
• Choose from diffused, polar, frosted, or clear lens options for varying diode visibility and beam angles
• Mounting options include stainless steel clips, magnets, and low-profile magnet mounts
• Can be suitable for exterior use when specified as wet, contact factory for more information
• Red, Green, and Blue LED paired with a specifiable white LED allow for color changing applications

.57" .28" .70"

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
PRODUCT	WATTS/FT	CCT	RATED	EFFICIENCY	LENS	WIRE INPUT/ OUTPUT	CONNECTOR/ WIRE IN	CONNECTOR/ WIRE OUT	WIRE COLOR	WIRE TYPE	MOUNTING	FINISH	LENGTH (IN)	EXACT/ OPTIMAL
				STD						CL2				

Sample Part Number: **TH1RGBW-4.0HE-30-DRY-STD-DF-P1-BW-BW-BK-CL2-SST-BK-48"-E**

1 PRODUCT

TH1RGBW
See following pages for compatible power supplies.

TH1RGBW

2 WATTS/FT

6.0 6.0W/ft

4.0HE 4.0W/ft HE

3 CCT

| 27 | RGBW-2700K |
| 30 | RGBW-3000K |

27	RGBW-2700K
30	RGBW-3000K
35	RGBW-3500K
40	RGBW-4000K

4 RATED

| DRY | IP20 |
| DMP | IP54 |

DRY	IP20
DMP	IP54
WET	IP67

Can be suitable for exterior use, contact factory for more information WET rated strips are only compatible without a lens

5 EFFICIENCY

STD Standard

6 LENS

DF	Diffused
PR	Polar
FR	Frosted
CL	Clear
N/A	For wet rated LED Strips

Clear Lens is not available for RGBW-HE. For representation of LED visibility, see Diode Visibility section on following pages.
For beam angles, see Photometric Performance section on following pages.
WET rated strips are only compatible without a lens.

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.

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 |

12 MOUNTING

SST	Stainless Steel
M4	Low Profile Magnet
MG	Magnet

13 FINISH

ST	Satin
BK	Black
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.

5 year warranty | Warranty only valid with QTL power supplies | Field modifications void warranty | Data subject to change, all data has +/- 5% tolerance

ESSENTIALS THIN-FLAT (01) RGBW
24VDC Linear Fixtures - Surface & Recessed
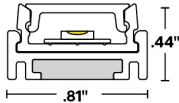
1 PRODUCT - DIMENSIONS

Profile with flat lens

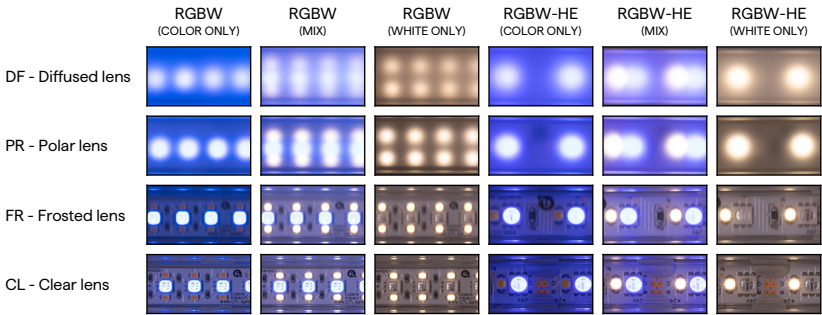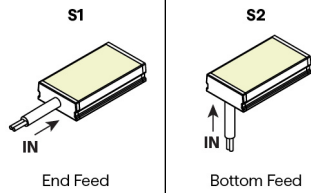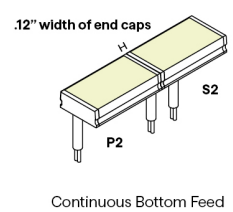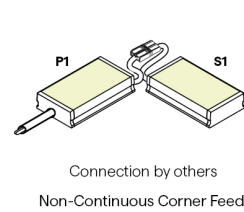Profile with stainless steel mounting clip

Profile with magnet mounting clip

Profile with low profile magnet

2 DELIVERED LUMENS

[Calculated L70 = 70000 hrs]
Tested with TH1RGBW-**-30-DRY-STD

| | 6.0 W/FT | | | | | | | 4.0HE W/FT | | | | | | |
| | Red | | Green | | Blue | | 3000K | | Red | | Green | | Blue | | 3000K | |
	LM/FT	WAVELENGTH	LM/FT	WAVELENGTH	LM/FT	WAVELENGTH	LM/FT	CRI	LM/FT	WAVELENGTH	LM/FT	WAVELENGTH	LM/FT	WAVELENGTH	LM/FT	CRI
CL	42	631	121	513	32	464	147	93	34	629	122	516	32	465	90	97
FR	41	631	117	513	31	464	143	93	33	629	120	516	31	465	88	97
PR	39	631	111	513	29	464	134	93	32	629	117	516	30	465	82	97
DF	36	631	103	513	27	464	123	93	30	629	109	516	28	465	74	97

6 DIODE VISIBILITY

| | RGBW (COLOR ONLY) | RGBW (MIX) | RGBW (WHITE ONLY) | RGBW-HE (COLOR ONLY) | RGBW-HE (MIX) | RGBW-HE (WHITE ONLY) |

DF - Diffused lens

PR - Polar lens

FR - Frosted lens

CL - Clear lens

TEMPERATURE RATINGS

| | | 6.0 W/FT | | 4.0 HE W/FT | |
		Min	Max	Min	Max
DRY	Ambient Operating Temp - Surface	-4°F	110°F	-4°F	120°F
DMP	Ambient Operating Temp - Surface	-4°F	105°F	-4°F	115°F

7 WIRE INPUT/OUTPUT

SINGLE (Input only)

S1

S2

IN

End Feed

IN

Bottom Feed

PASS THROUGH (Input/Output)

P1

P2

OUT

IN

End Feed

IN

OUT

Bottom Feed

CONFIGURATION OPTIONS

S1

.06"
width of end cap

.06"
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

.12" width of end caps

S2

P2

Continuous Bottom Feed

S1

S1

.12" width of end caps

Continuous End to End Feed
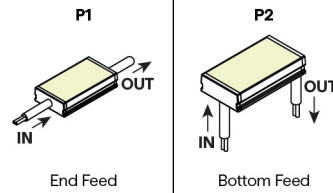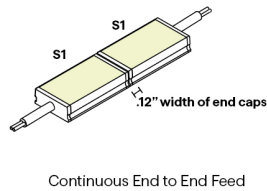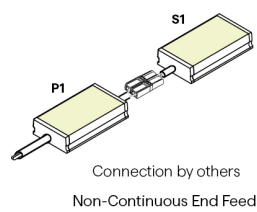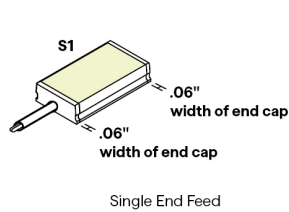
8 / 9 CONNECTOR/WIRE – IN/OUT

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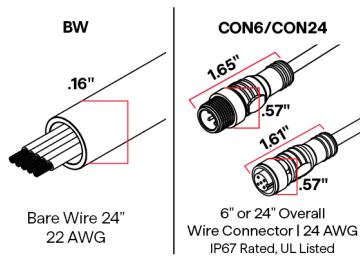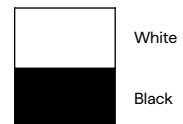
BW

.16"

Bare Wire 24"
22 AWG

CON6/CON24

1.65"

.57"

1.61"

.57"

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

10 WIRE COLOR

White

Black

12 MOUNTING

SST

Stainless Steel Clip

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

To order separately use SST-01

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

M4

Low Profile Magnet

One M4 provided per foot.

To order separately use MG-04

MMA-04

Magnet Mount Accessory for M4

Sold separately, to order use MMA-04

Each bracket comes with 2 #6 x 5/8 Flat Head SS
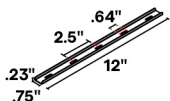
Required when mounting to a non-magnetic surface

MG

Magnet Clip

One MG provided per foot

To order separately use MG-01

MMA-01

Magnet Mount Accessory of MG-01

Sold separately, to order use MMA-01

Each bracket comes with 2 #6 x 5/8 Flat Head SS

Required when mounting to a non-magnetic surface

13 FINISH

Satin

Black

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
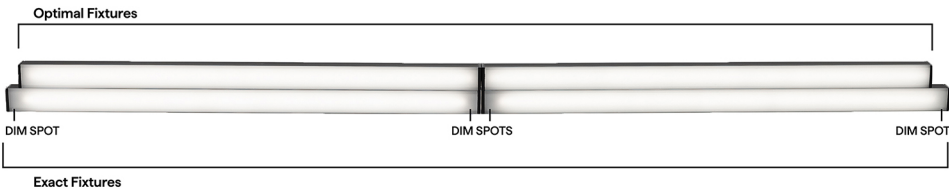
DIM SPOT   DIM SPOTS   DIM SPOT

Exact Fixtures

RGBW-HE DRY DMP LENGTHS BY INCH

EXACT LENGTH

Requested Length	Potential dim spot on either end of a S1 fixture (S1, 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 (S1 End Feed / S2 Bottom Feed)	P1 & P2 (P1 End Feed / P2 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"

RGBW-HE WET LENGTHS BY INCH

EXACT LENGTH

Requested Length	Potential dim spot on either end of a S1 fixture (S1, 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 (S1 End Feed / S2 Bottom Feed)	P1 & P2 (P1 End Feed / P2 Bottom Feed)
12"	10.66"	11.06"
13"	12.66"	11.06"
14"	12.66"	13.06"
15"	14.66"	13.06"
16"	14.66"	15.06"
17"	16.66"	15.06"
18"	16.66"	17.06"
19"	18.66"	17.06"
20"	18.66"	19.06"
21"	20.66"	19.06"
22"	20.66"	21.06"
23"	22.66"	21.06"
24"	22.66"	23.06"
36"	34.66"	35.06"
48"	46.66"	47.06"
60"	58.66"	59.06"
72"	70.66"	71.06"
84"	82.66"	83.06"
96"	94.66"	95.06"
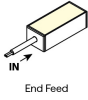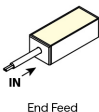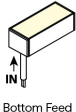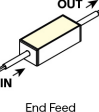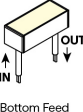
RGBW DRY DMP LENGTHS BY INCH

EXACT LENGTH

Requested Length	Potential dim spot on either end of a S1 fixture (S1 End Feed)
12"	2"
13"	0.5"
14"	1"
15"	1.5"
16"	2"
17"	0.5"
18"	1"
19"	1.5"
20"	2"
21"	0.5"
22"	1"
23"	1.5"
24"	2"
36"	2"
48"	2"
60"	2"
72"	2"
84"	2"
96"	2"

OPTIMAL LENGTH

Requested Nominal Length	S1 & S2	P1 & P2
12"	8.51"	8.86"
13"	12.51"	12.86"
14"	12.51"	12.86"
15"	12.51"	12.86"
16"	12.51"	12.86"
17"	16.51"	16.86"
18"	16.51"	16.86"
19"	16.51"	16.86"
20"	16.51"	16.86"
21"	20.51"	20.86"
22"	20.51"	20.86"
23"	20.51"	20.86"
24"	20.51"	20.86"
36"	32.51"	32.86"
48"	44.51"	44.86"
60"	56.51"	56.86"
72"	68.51"	68.86"
84"	80.51"	80.86"
96"	92.51"	92.86"

COMPATIBLE POWER SUPPLIES

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

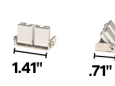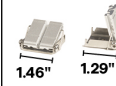| DIM TO LEVEL	INDOOR	OUTDOOR
	RGBW, RGBW-HE	RGBW, RGBW-HE
0.1%	QT-CAB-eLED+DALI-DT8 QT-CAB-eLED+DMX QTM-eLED+DALI-DT8 QTM-eLED+DMX QZ-DMX	Q-SET-QZ-DMX QOM-eLED+DALI-DT8 QOM-eLED+DMX QOM-eLED+PS-DALI-DT8 QZ-DMX
1%	QZ-DALI-DT8	Q-SET+QZ-DALI-DT8 QZ-DALI-DT8
10%	Non-Dim Power Supply with RGBW App Dongle	
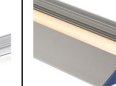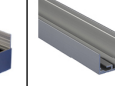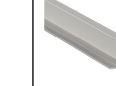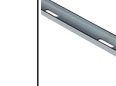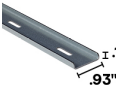
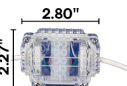| DIMMING PROTOCOL	INDOOR	OUTDOOR
	RGBW, RGBW-HE	RGBW, RGBW-HE
DMX	QTM-eLED+DMX QZ-DMX	Q-SET-QZ-DMX QOM-eLED+DMX QZ-DMX
DALI-2: DT8	QT-CAB-eLED+DALI-DT8 QTM-eLED+DALI-DT8 QZ-DALI-DT8	Q-SET+QZ-DALI-DT8 QOM-eLED+DALI-DT8 QZ-DALI-DT8
SCENE App Dimmed	Non-Dim Power Supply with RGBW App Dongle	

ESSENTIALS THIN-FLAT (01) RGBW
24VDC Linear Fixtures - Surface & Recessed

COMPATIBLE MOUNTING ACCESSORIES

HINGE - HMB-S	HINGE - HMB-M	HINGE - HMB-L	HINGE - HMB-XL	Q-PIVOT	Q-ANGLE	QUOVA-STANDARD	NJ-MEDIUM	SD-L-MEDIUM	MMA-01
1.41" .51"	1.41" .71"	1.46" 1.29"	1.46" 4"	.75" 1.03"	2.23" 1.38"				.23" .75"
Adjustable mounting bracket - Small	Adjustable mounting bracket - Medium	Adjustable mounting bracket - Large	Adjustable mounting bracket - XLarge	Small mounting accessory	Adjustable mounting accessory	QUOVA Knife Edge	J Mounting Bracket	L Mounting Bracket	Magnet Mount Accessory of MG-01

MMA-04

.19"
.93"

Magnet Mount Accessory of MG-04

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