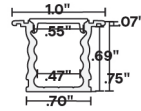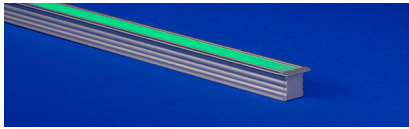# ESSENTIALS FLUR™-FLAT (01) RGB

24VDC Linear Fixtures - Recessed

- Deep flanged recessed fixture
- Choose from diffused, polar, frosted, clear 45°, clear 60°, or clear 80° lens options for varying diode visibility and beam angles
- Offered with an optional mounting tray
- Stainless steel mounting 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
FL1RGB	6.0	RGB									SST			

Sample Part Number: **FL1RGBW-4.0HE-30-DRY-WO-DF-P1-BW-BW-BK-CL2-SST-BK-48"-E**

① PRODUCT

FL1RGB

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
WO   White Optics

WhiteOptics - Internal coating, greater lumen output

⑥ LENS

DF   Diffused
PR   Polar
FR   Frosted
CL/45   Clear 45°
CL/60   Clear 60°
CL/80   Clear 80°

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.

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

SST   Stainless Steel

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.
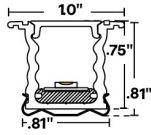
ESSENTIALS FLUR™-FLAT (01) RGB
24VDC Linear Fixtures - Recessed

1 PRODUCT - DIMENSIONS
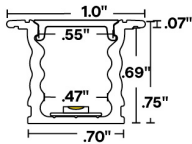
Profile

Profile with stainless steel mounting clip and mounting tray

2 DELIVERED LUMENS

[Calculated L70 = 55000 hrs]
Tested with FL1RGB-6.0-RGB-DRY-STD

	Red		Green		Blue		All
	LM/FT	WAVELENGTH	LM/FT	WAVELENGTH	LM/FT	WAVELENGTH	LM/FT
45	68	633	138	523	39	469	221
60	69	633	139	523	39	469	224
80	73	633	147	523	42	469	237
FR	66	633	134	523	38	469	215
PR	54	633	109	523	31	469	176
DF	40	633	81	523	23	469	130

[Calculated L70 = 55000 hrs]
Tested with FL1RGB-6.0-RGB-DRY-WO

|	Red		Green		Blue		All
	LM/FT	WAVELENGTH	LM/FT	WAVELENGTH	LM/FT	WAVELENGTH	LM/FT
45	75	633	152	523	43	469	243
60	76	633	153	523	43	469	246
80	79	633	159	523	45	469	255
FR	73	633	148	523	42	469	238
PR	62	633	125	523	35	469	201
DF	48	633	96	523	27	469	154

6 DIODE VISIBILITY

DF - Diffused lens

PR - Polar lens

FR - Frosted lens

CL - Clear lens

PHOTOMETRIC PERFORMANCE

Nominal beam spread shown, beam spread varies based on light engine. For more detailed information, see photometric data.
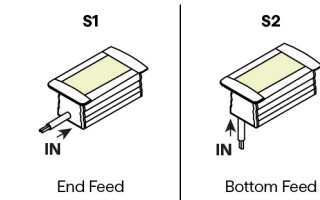
CL/45
45°
Clear 45˚

CL/60
60°
Clear 60˚

CL/80
80°
Clear 80˚
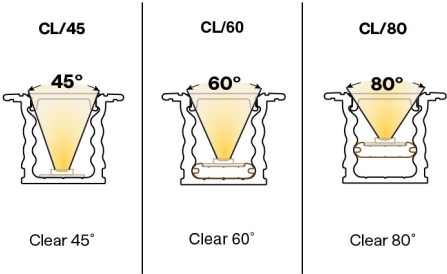
TEMPERATURE RATINGS

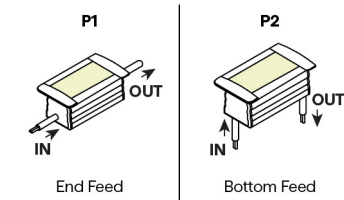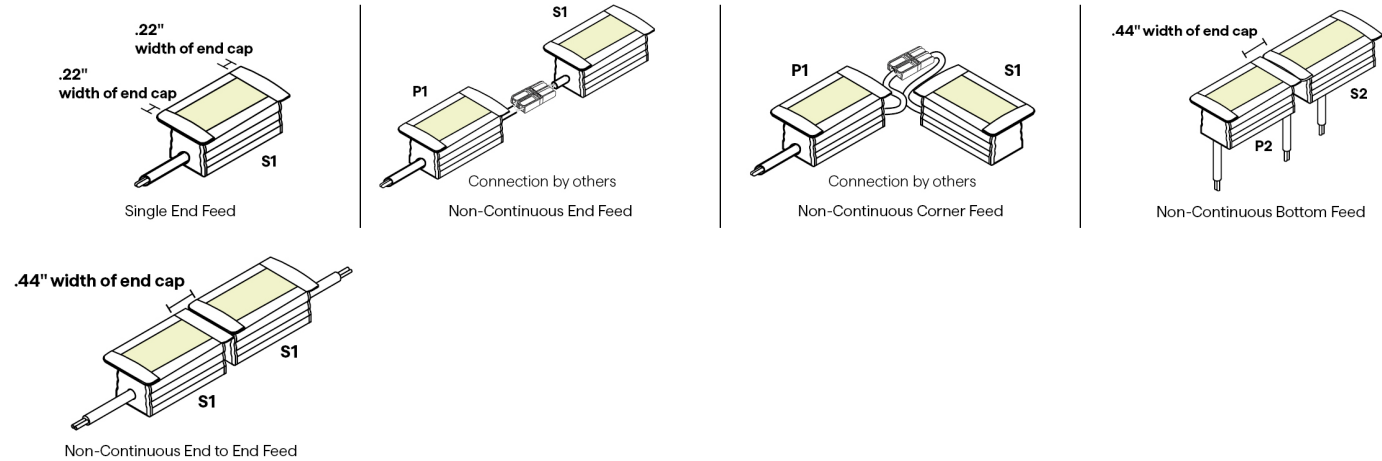|		6.0 W/FT	
		Min	Max
DRY	Ambient Operating Temp - Recessed	-13°F	105°F
	Ambient Operating Temp - Surface	**	**
DMP	Ambient Operating Temp - Recessed	-13°F	100°F
	Ambient Operating Temp - Surface	**	**

7 WIRE INPUT/OUTPUT
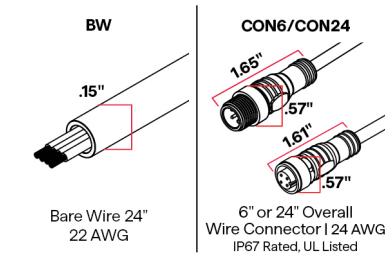
SINGLE (Input only)

PASS THROUGH (Input/Output)

S1 — End Feed
S2 — Bottom Feed
P1 — End Feed
P2 — Bottom Feed

CONFIGURATION OPTIONS

.22" width of end cap

Single End Feed

Non-Continuous End Feed — Connection by others

Non-Continuous Corner Feed — Connection by others

.44" width of end cap — Non-Continuous Bottom Feed

.44" width of end cap — Non-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
.15"
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

Specification subject to change. Rev-01-13-26

12 MOUNTING

SST

1.25" .81" .20"
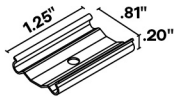
Stainless Steel Clip

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

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
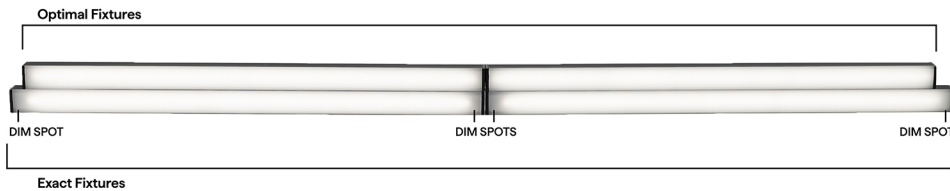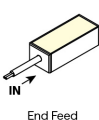
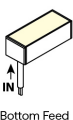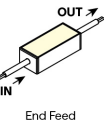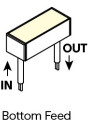DIM SPOT   DIM SPOTS   DIM SPOT

Exact Fixtures

RGB DRY DMP LENGTHS BY INCH

EXACT LENGTH

Requested Length	Potential dim spot on either end of a S1 fixture
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
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.

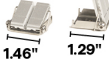| DIM TO LEVEL	INDOOR
	RGB
0.1%	QT-CAB-eLED+DALI-DT8 QT-CAB-eLED+DMX QTM-eLED+DALI-DT8 QTM-eLED+DMX QZ-DMX
1%	QZ-DALI-DT8
10%	Non-Dim Power Supply with RGB App Dongle

| 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

ESSENTIALS FLUR™-FLAT (01) RGB
24VDC Linear Fixtures - Recessed

COMPATIBLE MOUNTING ACCESSORIES

HINGE - HMB-M	HINGE - HMB-L	HINGE - HMB-XL	Q-PIVOT	Q-ANGLE	VHB
1.41" .71"	1.46" 1.29"	4" 1.46"	.75" 1.03"	2.23" 1.38"	
Adjustable mounting bracket - Medium	Adjustable mounting bracket - Large	Adjustable mounting bracket - XLarge	Small mounting accessory	Adjustable mounting accessory	Double sided mounting tape

COMPATIBLE WIRING ACCESSORIES

Q-mini-J5

2.80"
2.27"
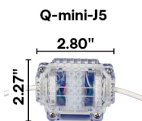
UL Listed, miniature junction box, DRY/DMP (WET rated with silicone)

COMPATIBLE CONTROL ACCESSORIES

SCENE APP DONGLE	iQ-DMX-STICK-GA2	iQ-DMX-STICK-DE3
1.36" 2.58"		
Wi-Fi or Bluetooth Connectivity	DMX controller for changing color & dimming	DMX controller for changing color & dimming

COMPATIBLE APPS

NFC APP

Q-NFC

Read and write DMX addresses and adjust voltage