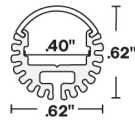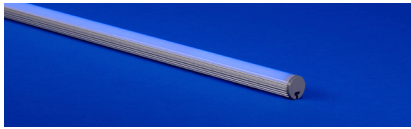# ESSENTIALS ROND-FLAT (01)
RGBW HIGH EFFICACY
24VDC Linear Fixtures - Surface

- Surface mount linear fixture
- Choose from diffused, frosted or clear lens options
- Unique round profile can be rotated up to 45° in field with inlcuded mounting clips
- Stainless steel mounting clips
- Features painted end caps to match extrusion finish
- Red, Green, and Blue LED paired with a specifiable white LED allow for color changing applications
- 21 diodes per 2" cutpoint allowing for minimal diode visibility

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
RD1RGBW	4.0HE			STD							SST			

Sample Part Number: **RD1RGBW-4.0HE-30-DRY-STD-DF-P1-BW-BW-BK-CL2-SST-BK-48"-E**

① PRODUCT

RD1RGBW

See following pages for compatible power supplies.

② WATTS/FT

4.0HE   4.0W/ft HE

③ CCT

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

④ RATED

DRY	IP20
DMP	IP54

⑤ EFFICIENCY

STD   Standard

⑥ LENS

DF	Diffused
FR	Frosted
CL	Clear

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

P1   Pass Through 1 (Input/output) - End 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.

1 PRODUCT - DIMENSIONS
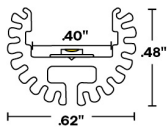
Profile
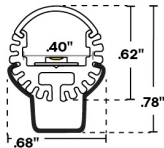
Profile with stainless steel mounting clip

2 DELIVERED LUMENS

[Calculated L70 = 70000 hrs]
Tested with RD1RGBW-4.0HE-30-DRY-STD

	Red		Green		Blue		3000K	
	LM/FT	WAVELENGTH	LM/FT	WAVELENGTH	LM/FT	WAVELENGTH	LM/FT	CRI
CL	33	629	127	516	27	465	78	97
FR	32	629	124	516	27	465	76	97
DF	28	629	108	516	23	465	67	97

6 DIODE VISIBILITY

DF - Diffused 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
93°
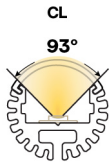
Clear 93˚

TEMPERATURE RATINGS

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

7 WIRE INPUT/OUTPUT

SINGLE (Input only)

S1

IN
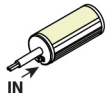
End Feed

PASS THROUGH (Input/Output)

P1

OUT

IN
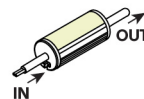
End Feed

CONFIGURATION OPTIONS

S1

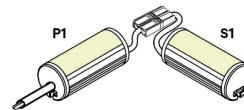.09" width of end cap

.09" width of end cap

Single End Feed

S1

P1
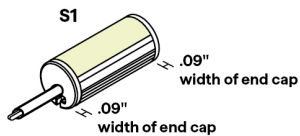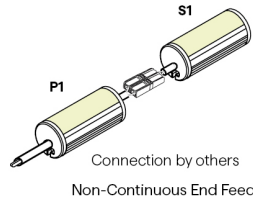
Connection by others

Non-Continuous End Feed

P1 **S1**

Connection by others

Non-Continuous Corner Feed

S1

S1

.18" width of end caps
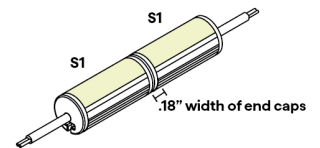
Continuous End to End Feed
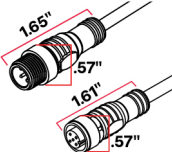
8 / 9 CONNECTOR/WIRE – IN/OUT

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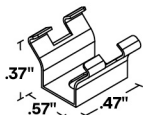
BW

.16"
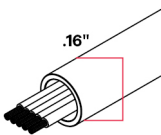
Bare Wire 24"
22 AWG

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

.37"

.57"   .47"

Stainless Steel Clip

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

To order separately use SST-07

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
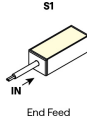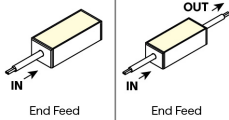
14 EXACT/OPTIMAL FIXTURE LENGTH

[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
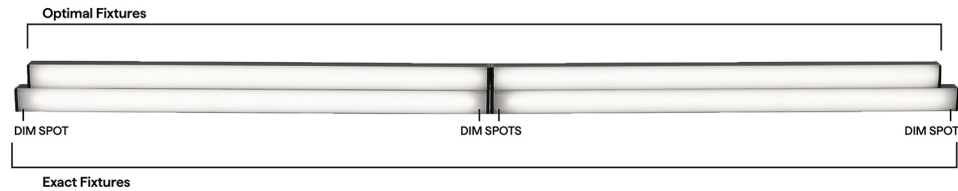
Exact Fixtures

RGBW-HE 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	P1
12"	11.49"	11.14"
13"	12.49"	12.14"
14"	13.49"	13.14"
15"	14.49"	14.14"
16"	15.49"	15.14"
17"	16.49"	16.14"
18"	17.49"	17.14"
19"	18.49"	18.14"
20"	19.49"	19.14"
21"	20.49"	20.14"
22"	21.49"	21.14"
23"	22.49"	22.14"
24"	23.49"	23.14"
36"	35.49"	35.14"
48"	47.49"	47.14"
60"	59.49"	59.14"
72"	71.49"	71.14"
84"	83.49"	83.14"
96"	95.49"	95.14"

COMPATIBLE POWER SUPPLIES

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

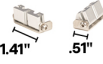| DIM TO LEVEL	INDOOR
	RGBW, RGBW-HE
0.1%	QT-CAB-eLED+DALI-DT8 QT-CAB-eLED+DMX QTM-eLED+DALI-DT8 QTM-eLED+DMX QZ-DMX
1%	QZ-DALI-DT8
10%	Non-Dim Power Supply with RGBW App Dongle

DIMMING PROTOCOL	INDOOR
	RGBW, RGBW-HE
DMX	QTM-eLED+DMX QZ-DMX
DALI-2: DT8	QT-CAB-eLED+DALI-DT8 QTM-eLED+DALI-DT8 QZ-DALI-DT8
SCENE App Dimmed	Non-Dim Power Supply with RGBW App Dongle

COMPATIBLE MOUNTING ACCESSORIES
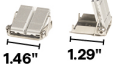
HINGE - HMB-S
1.41" .51"
Adjustable mounting bracket - Small

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

iQ-DMX-STICK-GA2
DMX controller for changing color & dimming

iQ-DMX-STICK-DE3
DMX controller for changing color & dimming

COMPATIBLE APPS

NFC APP
Q-NFC
Read and write DMX addresses and adjust voltage