OPTI-FLAT (01) RGB
24VDC Linear Fixtures - Surface & Recessed

cULus LISTED · RoHS COMPLIANT · 5 YEAR WARRANTY · Red List Approved Declare.

- Choose from diffused, polar or frosted lens options for varying diode visibility and beam cutoff
- Delivers smooth and consistent light to highlight architectural features and surfaces
- Ideal for surface-mounted installations
- Integrated metal end caps combined with an extruded aluminum housing give this fixture a polished modern look

.53"
1.00"

INFORMATION REQUIRED FOR LIGHTING SCHEDULE

① PRODUCT	② WATTS/ FT	③ CCT	④ RATED	⑤ LENS
OP1RGB	6.0	RGB		

ADDITIONAL INFORMATION REQUIRED TO ORDER

⑥ WIRE INPUT/ OUTPUT	⑦ CONNECTOR/ WIRE IN	⑧ CONNECTOR/ WIRE OUT	⑨ WIRE COLOR	⑩ WIRE TYPE	⑪ MOUNTING	⑫ FINISH	⑬ LENGTH (IN)	⑭ EXACT/ OPTIMAL
					CC			

Sample Part Number: **OP1RGB-6.0-RGB-DRY-DF-P1-CON6-CON6-WH-CL2-CC-WH-48"-E**

① PRODUCT
OP1RGB

See following pages for compatible power supplies.

② WATTS/FT
6.0 6.0W/ft

③ CCT
RGB

④ RATED
DRY	IP20
DMP	IP54
WET	IP67

Can be suitable for exterior use. Contact factory for more information

⑤ LENS
DF	Diffused
PR	Polar
FR	Frosted

⑥ WIRE INPUT/OUTPUT
SINGLE (Input only)
| **S1** | End Feed |
| **S2** | Bottom Feed |

PASS THROUGH (Input/Output)
| **P1** | End Feed |
| **P2** | Bottom Feed |

For continuous mounting, consider bottom feed.

⑦ CONNECTOR/WIRE IN
BW	Bare Wire (Standard 36")
CON6	Connector 6"
CON24	Connector 24"

BW	Bare Wire (Standard 36")
CON6	Connector 6"
CON24	Connector 24"

BW: Standard length is 36", Max length is 120". Request custom length by writing in part number next to BW (example: BW48)

⑧ CONNECTOR/WIRE OUT
| **CLS** | Closed End (No feed) |

BW	Bare Wire (Standard 36")
CON6	Connector 6"
CON24	Connector 24"

BW: Standard length is 36", Max length is 120". Request custom length by writing in part number next to BW (example: BW48)
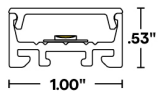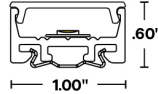
⑨ WIRE COLOR
| **WH** | White |
| **BK** | Black |

⑩ WIRE TYPE
| **CL2** | Class 2 |
| **CL2P** | Plenum Rated |

CL2P only available with bare wire leads (BW)

⑪ MOUNTING
| **CC** | Concealed Clip |

⑫ FINISH
ST	Satin
BK	Black
WH	White
CU	Custom

Custom finishes have longer lead times. Non-RAL 9003 whites custom.

⑬ LENGTH (IN)
Minimum length is 12", maximum length is 98.43" not including end caps. Contact us for lengths under 12".

⑭ 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.

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

OPTI-FLAT (01) RGB
24VDC Linear Fixtures - Surface & Recessed

## 1 PRODUCT - DIMENSIONS

.53"
1.00"

Profile

.60"
1.00"

Profile with
concealed clip

2 DELIVERED LUMENS

[Calculated L70 = 52000 hrs]
Tested with OP1RGB-6.0-RGB-DRY-**

	Red		Green		Blue		All
	LM/FT	Wavelength	LM/FT	Wavelength	LM/FT	Wavelength	LM/FT
FR	80	628	175	522	47	469	290
PR	76	628	167	522	45	469	274
DF	69	628	149	522	41	469	246

5 DIODE VISIBILITY

RGB

DF - Diffused lens

PR - Polar lens

FR - Frosted lens
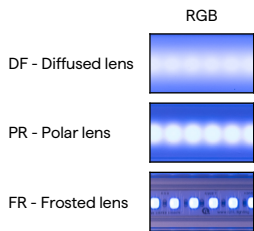
TEMPERATURE RATINGS

		6.0 W/FT	
		Min	Max
DRY	Ambient Operating Temp - Surface	-13°F	110°F

PHOTOMETRIC PERFORMANCE

Nominal beam spread shown, beam spread varies based on light engine. For more detailed information, see photometric data.
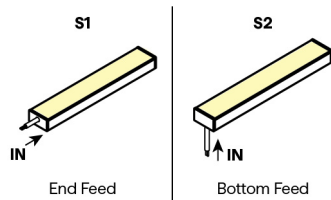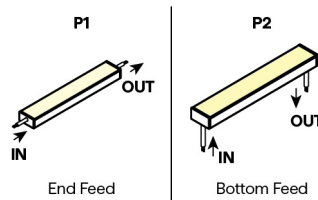
6W/ft | Green   Diffused Lens

118.3°
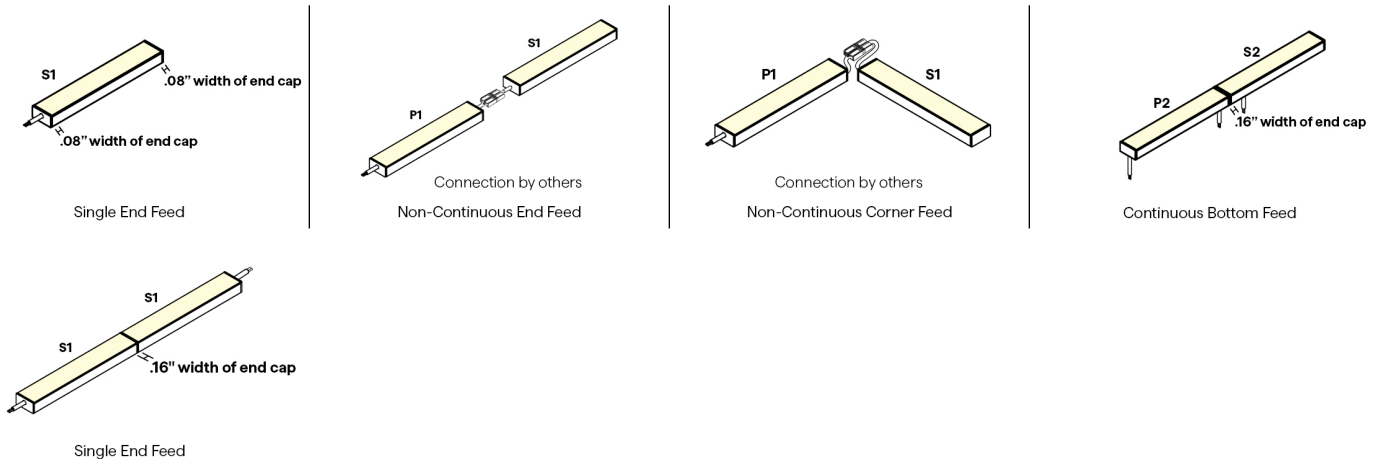
⑥ WIRE INPUT/OUTPUT

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

S1   **S2**   **P1**   **P2**

IN   IN   OUT   OUT
                         IN   IN

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

S2
P2
.16" width of end cap
Continuous Bottom Feed

S1
S1
.16" width of end cap

Single End Feed

OPTI-FLAT (01) RGB
24VDC Linear Fixtures - Surface & Recessed

7 / 8 CONNECTOR/WIRE – IN/OUT

BW

.15"

Bare Wire 36"
22 AWG

CON6/CON24

1.65"
.57"
1.61"
.57"
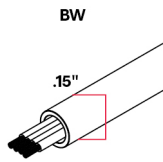
6" or 24" Overall
Wire Connector | 24 AWG
IP67 Rated, UL Listed

9 WIRE COLOR

White
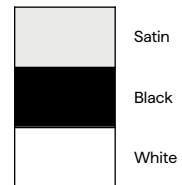
Black

11 MOUNTING

CC
(CC-01)

.18"
.7"   1.25"
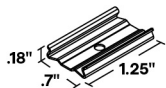
Concealed Clip

2 pieces of hardware provided
for 4' or less; 4 pieces of
hardware provided for greater
than 4'

To order separately use CC-01
(sold in pairs)

Each clips comes with a #4 x
5/8" Flat Head screw.

12 FINISH

Satin

Black

White

Custom finishes require a longer
lead time, consult factory

14 EXACT/OPTIMAL FIXTURE LENGTH

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.
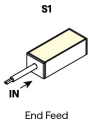
Optimal Fixtures

DIM SPOT   DIM SPOTS   DIM SPOT
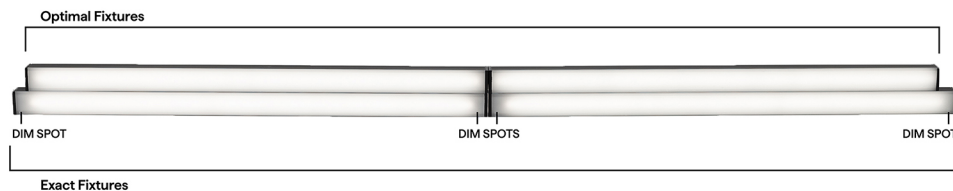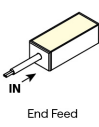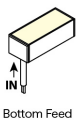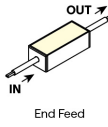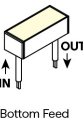
Exact Fixtures

RGB DRY DMP LENGTHS BY INCH

Available in any length in between 12" and 98.43" not including end caps, chart below shows example lengths. Exact fixtures are the length specified. Optimal fixtures' length is rounded down with illumination end to end. All fixtures' tolerance is +0 – 1/8". Consult factory for lengths under 12".

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
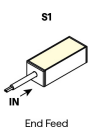
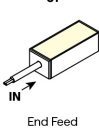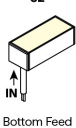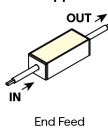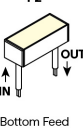| Requested Nominal Length	S1 & S2 (S1 End Feed / S2 Bottom Feed)	P1 & P2 (P1 End Feed / P2 Bottom Feed)
12"	10.51"	10.86"
13"	12.51"	12.86"
14"	12.51"	12.86"
15"	14.51"	14.86"
16"	14.51"	14.86"
17"	16.51"	16.86"
18"	16.51"	16.86"
19"	18.51"	18.86"
20"	18.51"	18.86"
21"	20.51"	20.86"
22"	20.51"	20.86"
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"

RGB WET LENGTHS BY INCH

Available in any length in between 12" and 98.43" not including end caps, chart below shows example lengths. Exact fixtures are the length specified. Optimal fixtures' length is rounded down with illumination end to end. All fixtures' tolerance is +0 – 1/8". Consult factory for lengths under 12".

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"

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
	RGB	RGB
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 RGB App Dongle	

DIMMING PROTOCOL	INDOOR	OUTDOOR
	RGB	RGB
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

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

QUOVA-STANDARD — QUOVA Knife Edge

NJ-LARGE — J Mounting Bracket

NU-LARGE — U Mounting Bracket

SD-J-LARGE — J Mounting Bracket

BL-LARGE — Backwards L Mounting Bracket

NL-LARGE — L Mounting Bracket

SD-L-LARGE — L Mounting Bracket

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