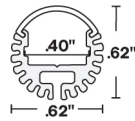
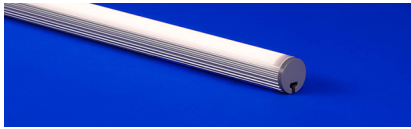




# ESSENTIALS ROND-FLAT (01) WARM DIM APPLICATIONS

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 included mounting clips
- Stainless steel mounting clips
- Features painted end caps to match extrusion finish
- Suitable for installation in the storage area of a clothes closet when specified with LEDs at 4.0 watts or less per foot per NEC regulations
- Used in applications to provide warmer CCTs as the light is dimmed
- When using DALI and DMX power supplies, LED wattage must be doubled



410.2 & 410.16  
Closet Rated  
in 1.5HE



## INFORMATION REQUIRED FOR LIGHTING SCHEDULE

1	2	3	4	5	6
PRODUCT	WATTS/ FT	CCT	RATED	EFFICIENCY	LENS
				STD	

## ADDITIONAL INFORMATION REQUIRED TO ORDER

7	8	9	10	11	12	13	14	15
WIRE INPUT/ OUTPUT	CONNECTOR/ WIRE IN	CONNECTOR/ WIRE OUT	WIRE COLOR	WIRE TYPE	MOUNTING	FINISH	LENGTH (IN)	EXACT/ OPTIMAL
					SST			

Sample Part Number: **RD1WD-6.0-19/30-DRY-STD-DF-P1-BW-BW-BK-CL2-SST-BK-48"-E**

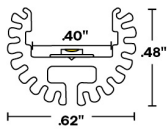
1	PRODUCT	2	WATTS/FT	3	CCT	4	RATED	5	EFFICIENCY	6	LENS
	<b>RD1WD</b>  LED engine is built with 2 wires suitable for phase dimming control. See following pages for compatible power supplies.		<b>6.0</b> 6.0W/ft		<b>19/27</b> 1900K/2700K <b>19/30</b> 1900K/3000K		<b>DRY</b> IP20		<b>STD</b> Standard		<b>DF</b> Diffused <b>FR</b> Frosted <b>CL</b> Clear  For representation of LED visibility, see Diode Visibility section on following pages. For beam angles, see Photometric Performance section on following pages
	<b>RD1DW</b> <b>RD1DW-USA</b>  Select USA option for BAA and BABA projects. Only DRY ratings apply.  LED engine is built with 3 wires requiring 0-10V, DMX or DALI control. Using DALI, DMX, or non QTL power supplies may double watts/ft. See following pages for compatible power supplies.		<b>1.5HE</b> 1.5W/ft HE <b>2.5HE</b> 2.5W/ft HE		<b>20/27</b> 2000K/2700K <b>20/30</b> 2000K/3000K <b>27/40</b> 2700K/4000K <b>27/55</b> 2700K/5500K		<b>DRY</b> IP20				
			<b>1.5HE</b> 1.5W/ft HE <b>2.5HE</b> 2.5W/ft HE		<b>24/30</b> 2400K/3000K <b>27/40</b> 2700K/4000K		<b>DMP</b> IP54				
7	WIRE INPUT/OUTPUT	8	CONNECTOR/WIRE IN	9	CONNECTOR/WIRE OUT	10	WIRE COLOR				
	<b>SINGLE (Input only)</b> <b>S1</b> End Feed	<b>BW</b> Bare Wire (Standard 24") <b>BRL</b> Barrel <b>CON6</b> Connector 6" <b>CON24</b> Connector 24"	<b>CLS</b> Closed End (No feed)		<b>WH</b> White <b>BK</b> Black <b>N/A</b> For Barrel						
	<b>PASS THROUGH (Input/output)</b> <b>P1</b> End Feed	<b>BW</b> Bare Wire (Standard 24") <b>BRL</b> Barrel <b>CON6</b> Connector 6" <b>CON24</b> Connector 24"	<b>BW</b> Bare Wire (Standard 24") <b>BRL</b> Barrel <b>CON6</b> Connector 6" <b>CON24</b> Connector 24"								
BRL only available with RD1WD BW: Standard length is 24". Max length is 120". Request custom length by writing in part number next to BW (example: BW48)			BRL only available with RD1WD BW: Standard length is 24". Max length is 120". Request custom length by writing in part number next to BW (example: BW48)								
11	WIRE TYPE	12	MOUNTING	13	FINISH	14	LENGTH (IN)	15	EXACT/OPTIMAL		
	<b>CL2</b> Class 2 <b>CL2P</b> Plenum Rated <b>N/A</b> For Barrel  CL2P only available with bare wire leads (BW)	<b>SST</b> Stainless Steel	<b>ST</b> Satin <b>BK</b> Black <b>CU</b> Custom  Custom finishes require a longer lead time, consult factory	<b>ST</b> Satin <b>BK</b> Black <b>CU</b> Custom	Minimum length is 12", maximum length is 98" not including end caps. Contact us for lengths under 12".	<b>O</b> Optimal Illumination <b>E</b> 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.					



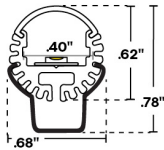
# ESSENTIALS ROND-FLAT (01) WARM DIM APPLICATIONS

## 24VDC Linear Fixtures - Surface

### 1 PRODUCT - DIMENSIONS



Profile



Profile with stainless steel mounting clip

### 2 DELIVERED LUMENS

[Calculated L70 = 70000 hrs]  
Tested with RD1WD-6.0-30-DRY-STD

	3000K	
	LM/FT	CRI
CL	387	97
FR	377	97
DF	300	97

[Calculated L70 = 70000 hrs]  
Tested with RD1DW-\*\*-30-DRY-STD

	1.5HE W/FT		2.5HE W/FT	
	LM/FT	CRI	LM/FT	CRI
CL	148	98	233	98
FR	144	98	228	98
DF	126	98	199	98

### 6 DIODE VISIBILITY



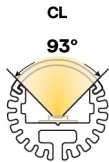
DF - Diffused lens

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.



Clear 93°

### TEMPERATURE RATINGS

		WD 6.0 W/FT		DW 1.5 HE W/FT		DW 3.0 HE W/FT		DW 2.5 HE W/FT		DW 5.0 HE W/FT	
		QTL power supply other than DALI, DMX		DALI, DMX or non-QTL power supply		QTL power supply other than DALI, DMX		DALI, DMX or non-QTL power supply		QTL power supply other than DALI, DMX	
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
DRY	Ambient Operating Temp - Surface	-13°F	110°F	-4°F	140°F	-4°F	125°F	-4°F	135°F	-4°F	110°F
DMP	Ambient Operating Temp - Surface	**	**	-4°F	140°F	-4°F	120°F	-4°F	130°F	-4°F	105°F



# ESSENTIALS ROND-FLAT (01) WARM DIM APPLICATIONS

24VDC Linear Fixtures - Surface

## 7 WIRE INPUT/OUTPUT

SINGLE (Input only)

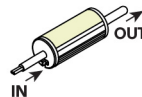
S1



End Feed

PASS THROUGH (Input/Output)

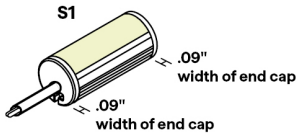
P1



End Feed

## CONFIGURATION OPTIONS

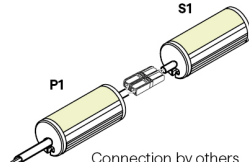
S1



Single End Feed

P1

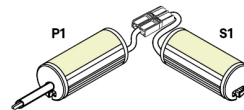
S1



Connection by others  
Non-Continuous End Feed

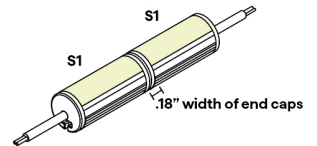
P1

S1



Connection by others  
Non-Continuous Corner Feed

S1



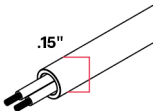
Continuous End to End Feed

## 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

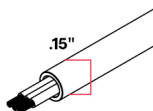
For WD



Bare Wire 24"  
22 AWG

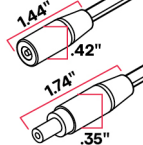
BW

For DW-HE



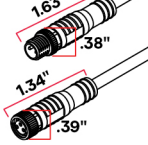
Bare Wire 24"  
22 AWG

BRL



Barrel 6" - DRY/DMP |  
22 AWG

CON6/CON24



6" or 24" Overall  
Wire Connector | 22 AWG  
IP67 Rated, UL Listed

## 10 WIRE COLOR

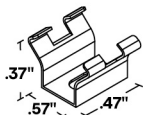


White

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-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



# ESSENTIALS ROND-FLAT (01) WARM DIM APPLICATIONS

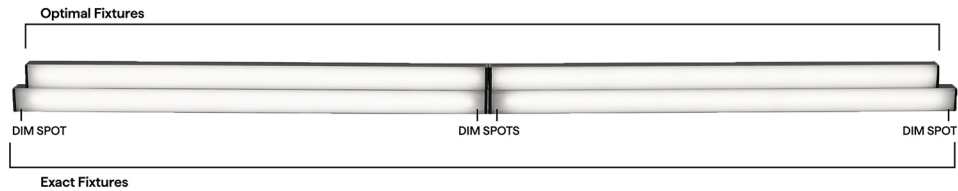
## 24VDC Linear Fixtures - Surface

### 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.


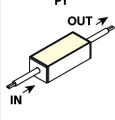


### WD DRY LENGTHS BY INCH

#### EXACT LENGTH

Requested Length	Potential dim spot on either end of a S1 fixture
	S1
	
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
	S1	P1
		
12"	11.59"	11.34"
13"	12.59"	12.34"
14"	13.59"	13.34"
15"	14.59"	14.34"
16"	15.59"	15.34"
17"	16.59"	16.34"
18"	17.59"	17.34"
19"	18.59"	18.34"
20"	19.59"	19.34"
21"	20.59"	20.34"
22"	21.59"	21.34"
23"	22.59"	22.34"
24"	23.59"	23.34"
36"	35.59"	35.34"
48"	47.59"	47.34"
60"	59.59"	59.34"
72"	71.59"	71.34"
84"	83.59"	83.34"
96"	95.59"	95.34"



# ESSENTIALS ROND-FLAT (01) WARM DIM APPLICATIONS

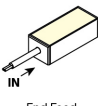
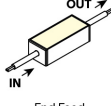
24VDC Linear Fixtures - Surface

## DW-HE DRY DMP LENGTHS BY INCH

### EXACT LENGTH

Requested Length	Potential dim spot on either end of a S1 fixture
	S1
	
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
	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	
	DW-HE Warm Dim Applications	WD
0.1%	QT-CAB-eLED+DALI-DT6 QT-CAB-eLED+DALI-DT8 QT-CAB-eLED+DALI-DT8-AWN QT-CAB-eLED+WD QT-CAB-eLED+WD-AWN QTM-eLED+DALI-DT6 QTM-eLED+DALI-DT8 QTM-eLED+DALI-DT8-AWN QTM-eLED+WD QTM-eLED+WD-AWN QZ-DW	QT-CAB-QZ-PH/0-10V QT-CAB-eLED+0-10V QT-CAB-eLED+DALI-DT6 QT-CAB-eLED+DALI-DT6-AWN QTM-eLED+0-10V QTM-eLED+DALI-DT6 QTM-eLED+DALI-DT6-AWN QZ-BOWTIE+DIMMER QZ-DMX QZ-PH/0-10V QZ-STICK-PH/0-10V QZLP
1%	QZ-DALI-DT8	QTM-eLED(E) QZ-DALI-DT6
10%	Non-Dim Power Supply with WD App Dongle	Non-Dim Power Supply with SW App Dongle

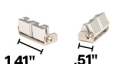




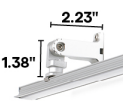


# ESSENTIALS ROND-FLAT (01) WARM DIM APPLICATIONS

24VDC Linear Fixtures - Surface

DIMMING PROTOCOL	INDOOR	
	DW-HE Warm Dim Applications	WD
Phase	QZ-DW	QT-CAB-QZ-PH/0-10V QTM-eLED(E) QZ-BOWTIE+DIMMER QZ-PH/0-10V QZ-STICK-PH/0-10V QZLP
0-10V	QT-CAB-eLED+WD QT-CAB-eLED+WD-AWN QTM-eLED+WD QTM-eLED+WD-AWN QZ-DW	QT-CAB-QZ-PH/0-10V QT-CAB-eLED+0-10V QTM-eLED+0-10V QZ-PH/0-10V QZ-STICK-PH/0-10V QZLP
Lutron Athena	QT-CAB-eLED+DALI-DT8-AWN QT-CAB-eLED+WD-AWN QTM-eLED+DALI-DT8-AWN QTM-eLED+WD-AWN	QT-CAB-eLED+DALI-DT6-AWN QTM-eLED+DALI-DT6-AWN
ECO System		QTM-eLED(E)
DMX If using DW LED, wattage must be doubled		QZ-DMX
DALI-2: DT6 If using DW LED, wattage must be doubled except for AWN	QT-CAB-eLED+DALI-DT6 QTM-eLED+DALI-DT6	QT-CAB-eLED+DALI-DT6 QT-CAB-eLED+DALI-DT6-AWN QTM-eLED+DALI-DT6 QTM-eLED+DALI-DT6-AWN QZ-DALI-DT6
DALI-2: DT8 If using DW LED, wattage must be doubled except for AWN	QT-CAB-eLED+DALI-DT8 QT-CAB-eLED+DALI-DT8-AWN QTM-eLED+DALI-DT8 QTM-eLED+DALI-DT8-AWN QZ-DALI-DT8	
SCENE App Dimmed	Non-Dim Power Supply with WD App Dongle	Non-Dim Power Supply with SW App Dongle

## COMPATIBLE MOUNTING ACCESSORIES

<b>HINGE - HMB-S</b>  1.41" .51" Adjustable mounting bracket - Small	<b>HINGE - HMB-M</b>  1.41" .71" Adjustable mounting bracket - Medium	<b>HINGE - HMB-L</b>  1.46" 1.29" Adjustable mounting bracket - Large	<b>HINGE - HMB-XL</b>  1.46" 4" Adjustable mounting bracket - XLarge	<b>Q-PIVOT</b>  .75" 1.03" Small mounting accessory	<b>Q-ANGLE</b>  2.23" 1.38" Adjustable mounting accessory
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