

## RFD - Full Distribution Diffused Troffer

Modernize your re-lighting project with a stylish full distribution light source tailored to today's office environments...

- With improvements in computer monitor technology, high cutoff angles are no longer driving Troffer applications.
- Full distribution luminaires are again becoming the system of choice for energy efficient re-lighting projects.
- The RFD provides attractive linear architectural styling and highly tuned energy efficiency.

Configured to order with the latest energy efficient lamps and ballasts...

- You name it, we'll get it.

Paragon-Precisions usual rapid turn around times...

- Your project can't wait 6-8 weeks. We'll deliver, configured to order, fast.

### Full Distribution Architectural Troffer with Dual Diffuser



### Application

- Suitable for a variety of education, general office, and medical applications.
- Perfect for energy efficient re-lighting and modernization projects where full distribution and an aesthetic upgrade are required.
- Does the job of traditional 3-lamp Troffers.
- T-Bar grid lay-in.

## RFD - 2x4 - 2L - T8 - UL1 - MN - IS - ST

RFD	2x4	2L	T8	UL1	MN	IS	ST		
Model	Fixt Size	Lamp Quantity	Lamp Type	Voltage	Ballast Factor	Ballast Starting	Ballast Grade	Other	Other

#### Fixture Series

RFD = Full Distribution

#### Fixture Size

2X4 = 2x4 Nominal  
2X2 = 2x2 Nominal

#### Lamp Qty

2L = Two Lamp

#### Lamp Type

T8 = Linear T8 Lamps  
T5 = Linear T5 Lamps  
T5HO = Linear T5HO Lamps

#### Voltage (1)

UL1 = Universal 120-277  
UL2 = Universal 120-277  
UH1 = Universal 347-480  
UH2 = Universal 347-480  
120 = 120 Volt Dedicated  
277 = 277 Volt Dedicated  
347 = 347 Volt Dedicated

#### Ballast Factor (2)

XL = Ultra Low Power (.62 - .66)  
LP = Low Power (.75 - .78)  
MP = Mid Power (.85 - .88)  
MN = Neutral Power (.97 - 1.04)  
HP = High Power (1.15 - 1.20)

#### Ballast Starting Method

PS = Programmed Start  
IS = Instant Start  
PSD = Program Start Step Dimming  
ISD = Instant Start Step Dimming  
PVD = Program Start 0-10v Variable Dim  
IVD = Instant Start 0-10v Variable Dim

#### T8 Ballast Grade

ST = Standard Grade  
UE = Ultra Efficient T8

#### Other Options

SB = Specific Ballast Type or Manufacturer (3)  
EB = Emergency Battery Backup (3)  
DFK = Drywall Flange Kit  
LF = Factory Lamped (4)

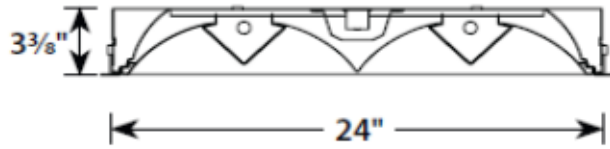
#### Numeric Footnotes

- (1) Numeral indicates number ballasts per fixture.
- (2) Ballast factors outside ranges shown to be called out numerically.
- (3) If SB or EB is requested, purchaser must identify the ballast manufacturer and the catalog number.
- (4) If LF is requested, purchaser must identify the lamp manufacturer and lamp desired.

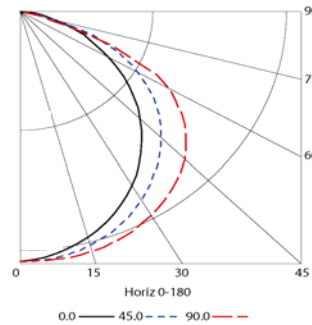
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### Fixture Construction

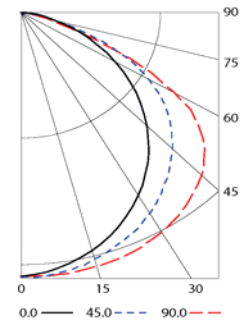
- All visible parts are custom formulated soft, non-glare high-reflectance white powder coat.
- Frameless optics system hinges open for easy maintenance access.
- Housing, end caps, and reflectors are code-gauge cold-rolled steel.
- Optional drywall flange kit available for hard ceilings.



Optical Shape 2L-2x4-T8



Optical Shape 2L-2x4-T5



### Existing Systems

Existing Lamp / Ballast System	Lamp Quantity & Type	Mean Lumens Per Lamp	Mean Lumens Per Fixture	Ballast Factor	Fixture Efficiency	Net Lumens Per Fixture	Input Watts	Net Lumens Per Watt
4L40-T12 Mag Pris	4 F40/T12/WM	2,280	9,120	0.88	0.78	6,260	144	43
3L40-T12 Mag Para	3 F40/T12/WM	2,280	6,840	0.88	0.69	4,153	115	36
3L32-T8-MP Elec Para	3 F32T8/741	2,660	7,980	0.87	0.72	4,999	80	62
2L40-T12-U6 Mag Para	2 F40/T12/U6/WM	2,280	4,560	0.88	0.69	2,769	72	38

### RFD Re-Lighting Options

Proposed Lamp / Ballast System	Lamp Quantity & Type	Mean Lumens Per Lamp	Mean Lumens Per Fixture	Ballast Factor	Fixture Efficiency	Net Lumens Per Fixture	Input Watts	Net Lumens Per Watt
2L28-T5 Elec	2 F28T5/841	2,418	4,836	1.00	0.81	3,917	63	62
2L54-T5-HO Elec	2 F54/T5HO/841	4,600	9,200	1.00	0.78	7,176	117	61
2L32-T8-LP Elec	2 F32T8/841	2,800	5,600	0.77	0.79	3,406	48	71
2L32-T8-MP Elec	2 F32T8/841	2,800	5,600	0.87	0.75	3,654	53	69
2L32-T8-MN Elec	2 F32T8/841	2,800	5,600	1.04	0.80	4,659	64	73
2L32T8-HP Elec	2 F32T8/841	2,800	5,600	1.15	0.77	4,959	73	68
2L17-T8-MP Elec	2 F17T8/841	1,300	2,600	0.90	0.75	1,755	31	57
2L17-T8-HP Elec	2 F17T8/841	1,300	2,600	1.23	0.77	2,462	41	60

### General Notes:

- Lamp/ballast system values shown are a general reference intended to supply a quick comparison of several common lamp/ballast systems, the associated energy consumption, and net lumen output.
- Values shown are based on normal operating temperatures and at 277 volts.
- Fixture efficiency percentages are generally representative of each system type, actual values will vary.
- There are many operating variables that affect system output, in addition to rating variances from brand to brand.
- All T8 electronic ballast values shown are based on Ultra Efficient (aka 3rd Generation) T8 ballasts.
- All T5 and T8 lamp values shown are for basic grade lamps. Extended life and higher lumen lamps types are available.
- In addition to those shown there are a wide variety of systems to choose from, each with distinct features and cost points.
- Please consult the lamp/ballast manufacturer's catalogs for the detailed information required to model your system.