

CKU-RR Recessed Row Retail Conversion Kits

👁️ Retailers Demand Performance

- Once the epitome of energy efficiency, F96 based recessed row main ceiling systems now represent major opportunities to reduce costs and improve the illuminated environment on the sales floor.
- The CKU-RR, and other P2 custom solutions, provide retailers an opportunity to upgrade outside of a complete store remodel.

👁️ Eliminate Costly F96 Lamps

- Short life, 12,000 hours. Frequent outages, heavy maintenance costs.
- Energy hogs, 50-60 lumens per watt.
- Steep lumen depreciation leads to reduced light levels between group relamp cycles.

👁️ CKU-RR Pre-Wired Units deliver...

- Labor saving pre-wired installation.
- Modern T8 efficiency, 80-90 lumens per watt.
- High T8 color rendering (80+) with most common lamp types.
- Excellent lumen maintenance 90%+ at end of life.

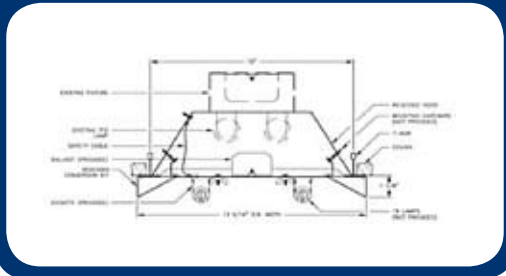
👁️ Why P2? It's Simple, Our Experience

- We have designed custom products and supplied energy efficient lighting systems used in major retail projects since 1991.
- Our experience in retail grocery energy efficient relighting is second to none.
- The CKU-RR is just one example of custom solutions we've provided for major retail grocers. Got an application challenge? Bring it to us, you'll be glad you did.

👁️ CKU-RR Pre-Wired Conversion Kits



👁️ Cross Section



CKU - RR - 4L - T8 - 1x8 - ETO - UL1 - MP - UE - IS

CKU	RR	4L	T8	1x8	ETO	UL1	MP	UE	IS	
Model	Unit Type	Lamp Qty	Lamp Type	Fixt Size	Channel Detail	Voltage	Ballast Factor	Ballast Grade	Ballast Starting	Other

Fixture Series

CKU = Unitized Conversion Kit

Unit Type

RR = Recessed Row

Lamp Quantity

2L = 2 Lamps

4L = 4 Lamps

Lamp Type

T8 = Linear T8 Lamps

T5 = Linear T5 Lamps

T5HO = Linear T5HO Lamps

Fixture Size

1X8 = 1x8 Nominal

1X4 = 1x4 Nominal

Channel Detail

ETO = Engineered to Order

Voltage (1)

UL1 = Universal 120-277

Ballast Factor (2)

LP = Low Power (.75 - .78)

MP = Mid Power (.85 - .88)

MN = Neutral Power (.97 - 1.04)

HP = High Power (1.15 - 1.20)

Ballast Grade

ST = Standard Grade

UE = Ultra Efficient T8

Ballast Starting Method

PS = Rapid/Programmed Start

IS = Instant Start

ISD = Instant Start Step Dimming

IVD = Instant Start 0-10v Variable Dim

PSD = Program Start Step Dimming

PSH = Program Start Hi-Lo

PVD = Program Start

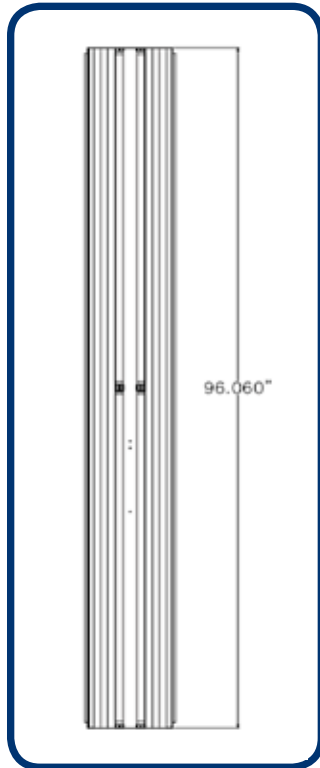
0-10v Variable Dim

Numeric Footnotes

(1) Numeral indicates number ballasts per fixture.

(2) Ballast factors outside ranges shown to be called out numerically.

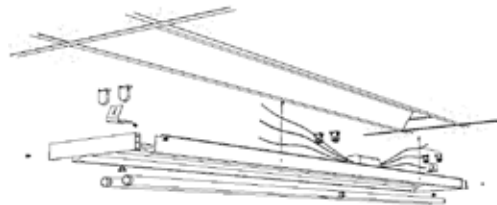
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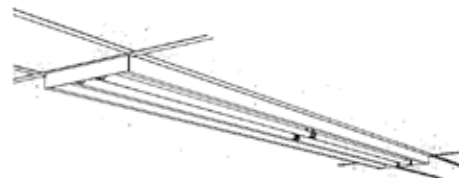
Before: F96T12/ES = 123 Watts
12,000 Hours, 70% Lumen Maint
60+CRI



During: Low Cost Conversion
Existing Main Ceiling
No Interruption to Retail
Hours



After: F32T8/LP = 96 Watts
30,000 Hours, 90% Lumen Maint
80+CRI



Existing System

Existing Lamp / Ballast System	Lamp Quantity & Type	Mean Lumens Per Lamp	Mean Lumens Per Fixture	Ballast Factor	Net Lumens Per Fixture	Input Watts	Net Lumens Per Watt
1L96-T12 Mag	1 F96/T12/ES	4,750	4,750	0.88	4,180	76	55
2L96-T12 Mag	2 F96/T12/ES	4,750	9,500	0.88	8,360	126	66
1L96-T12HO Mag	1 F96/T12HO/ES	6,950	6,950	0.95t	6,603	125	53
2L96-T12HO Mag	2 F96/T12HO/ES	6,950	13,900	0.93	12,927	210	62

Re-Lighting Options

Proposed Lamp / Ballast System	Lamp Quantity & Type	Mean Lumens Per Lamp	Mean Lumens Per Fixture	Ballast Factor	Net Lumens Per Fixture	Input Watts	Net Lumens Per Watt
2L32-T8-LP Elec	2 F32T8/841	2,800	5,600	0.77	4,312	48	90
4L32-T8-LP Elec	4 F32T8/841	2,800	11,200	0.77	8,624	96	90
2L32-T8-MP Elec	2 F32T8/841	2,800	5,600	0.87	4,872	53	92
4L32-T8-MP Elec	4 F32T8/841	2,800	11,200	0.87	9,744	107	91
2L32-T8-MN Elec	2 F32T8/841	2,800	5,600	1.04	5,824	64	91
2L32T8-HP Elec	2 F32T8/841	2,800	5,600	1.15	6,440	73	88
4L32T8-HP Elec	4 F32T8/841	2,800	11,200	1.15	12,880	147	88
2L54-T5-HO Elec	2 F54/T5HO/841	4,600	9,200	1.00	9,200	117	79
2L54-T5-HO Elec	4 F54/T5HO/841	4,600	18,400	1.00	18,400	234	79

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 (25c T8 and 35c T5) 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.