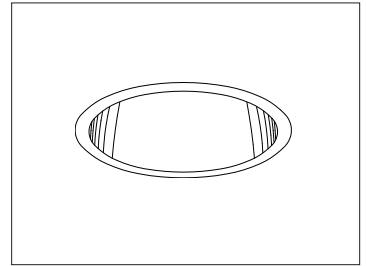


CATALOG #	TYPE	
JOB NAME	WATTAGE	VOLTAGE

6" 1 Triple 32 WATT MAXIMUM

FRR-06013

## Type IC Dual Reflector with Multiple Trims



### Features

#### Lamp

- Designed for one 4-pin triple tube amalgam compact fluorescent lamp: 32/26W triple.

#### Ballast: Multi-Wattage/Voltage

- Installed electronic high power factor, thermally protected. For lower wattages: Option -43.
- 120-277 multi-volt; 50/60 Hz. THD < 10%.
- ClickQuick connectors for easy service.
- Cold weather -22°F (-30°C).
- End of lamp life protection circuit. RFI filter.
- Internally fused. Also see Option -FS.

#### Reflector

- Upper: Specular Alzak® aluminum.
- Lower: Low iridescence (L.I.) Alzak aluminum, one piece, self-flanged.
- See Options for other finishes.

#### Aluminum Housing: Shallow Plenum

- Acrylic enameled. Rustproof: Exceeds 1000 hour ASTM 5% salt spray test.

- Lightweight: Minimizes ceiling load.
- Cool operation: Extends component life.
- Entire luminaire serviced through aperture.
- Built-in plaster frame.

#### Outlet Box

- Prewired 14 GA (NEC) galvanized steel, UL listed. 1/2" and 3/4" knockouts.

#### Installation

- 27" galvanized hanger bars with adjustable mounting brackets (2) supplied.
- Recesses indoor or outdoor in covered locations.

#### UL, C-UL (Canada) Listings

- Wet, damp or dry locations, covered ceilings.
- Type IC. Approved for direct contact with insulation.
- Through-branch conductors (6 #12).

#### Three Year Limited Warranty

- Complete standard fixture and ballast.

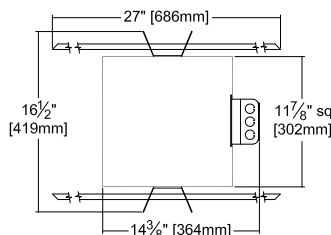
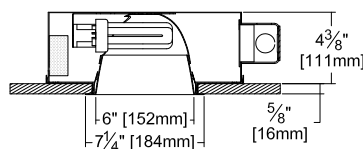
Recessed Round  
Open  
Dual Reflector  
Shallow Plenum  
Type IC

#### Selected Optional Trims:

- All White Option -30
- SofTex Titanium Option -57
- SofTex Dune Option -71
- SofTex Pewter Option -77
- SofTex Wheat Option -91
- Black OptiGroove Option -OG

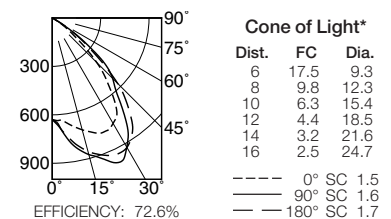
## Performance at a Glance

FRR-06013



Ceiling Cut-out  
6 1/2" Dia.

FRR-06013 (1 Triple 32W)



#### Cone of Light Key

- Ft. Distance from fixture
  - FC Footcandles at nadir (0°)
  - Dia. Circle of light at 50% of FC
- \* Dia. (in ft.) shown is where FC value is half the FC at nadir.

# THE KIRLIN COMPANY

3401 EAST JEFFERSON AVENUE • DETROIT, MICHIGAN 48207-4232  
(313) 259-6400 • Fax: (313) 259-9409 OR (313) 259-3121 • www.kirlinlighting.com

RENAISSANCE SERIES  
COMPACT FLUORESCENT LIGHTING

MAXIMUM WATTAGE

1 Triple 32

CATALOG NUMBER

FRR-06013

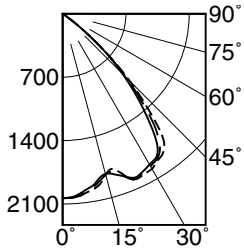
DUE TO OUR CONTINUING EFFORT TO IMPROVE PRODUCTS,  
TECHNICAL INFORMATION IS SUBJECT TO CHANGE WITHOUT NOTICE.

Alzak® is a registered trademark of ALCOA.

Detailed Photometry - Installed Fixture

Photometry from I.T.L., Boulder, CO

FRR-06013 (1 Triple 32)



----- 0° SC 1.5  
 \_\_\_\_\_ 90° SC 1.6  
 ———— 180° SC 1.7

EFFICIENCY : 72.6%

CANDLEPOWER DISTRIBUTION					
	0.0	45.0	90.0	135.0	180.0
0	629	629	629	629	629
5	636	669	703	706	700
15	717	792	876	852	856
25	775	897	986	981	933
35	396	728	807	823	866
45	391	465	529	531	574
55	94	151	187	153	173
65	2	4	3	3	2
75	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0

COEFFICIENTS OF UTILIZATION							
RF	20						
	80				50		
RC	70	50	30	10	50	30	10
RW	70	50	30	10	50	30	10
1	82	79	77	75	75	73	72
2	76	72	68	65	68	65	63
3	71	65	61	57	62	59	56
4	66	59	54	51	57	53	50
5	62	54	49	45	52	48	44
6	57	49	44	40	48	43	40
7	54	45	40	36	44	39	36
8	50	42	36	33	41	36	32
9	47	38	33	30	37	33	29
10	44	35	30	27	34	30	27

ITL TEST #45412 \*LER=42.4 •AEC=\$5.66

\* LER = Luminaire Efficiency Rating  
 LER =  $\frac{\text{Luminaire Effic.} \times \text{Total Lamp Lumens} \times \text{Ballast Factor}}{\text{Input Watts}}$

• AEC = Annual Energy Cost per 1000 lumens  
 (based on 3000 hours use @ \$0.08 KWH).

Options

Ballast, Wattage and Voltage

- 39 Installed dimming ballast. Not Type IC listed. Indoor use. 10°C (50°F) minimum start. Specify wattage, voltage and brand.
- 43 Lower wattage: for either 4-pin electronic 18W triple/quad or 13W quad (only). Specify wattage.
- 97 Specify other voltage. Consult factory.
- 98 347 volt, 50/60 Hz. input. Consult factory.

Emergency Ballast - Specify Voltage<sup>1</sup>

Internal (factory installed) ballast, test switch and indicator light. Suitable for damp locations from 0° to 50°C (32° to 122°F) or with Cold Weather version (see -CE) -20° to 55°C (-4° to 131°F).

- 73 Internal 1-lamp EM ballast. Specify voltage.
- CE Internal cold weather (-20° to 55°C) 1-lamp EM ballast. Specify voltage.
- HE<sup>1</sup> Internal higher lumen (up to 1250) 1-lamp EM ballast. 13-42W only. Specify voltage.

Trims

- 30 All white lower cone. (CP x .95)
- 31 White acrylic enameled lower cone flange.
- 32 White oversize trim ring. Specify O.D.
- 45 Gasket between ceiling and cone flange.
- 57 SofTex Titanium lower cone. (CP x .80)
- 70 SofTex Clear lower cone. (CP x .92)
- 71 SofTex Dune lower cone. (CP x .88)
- 77 SofTex Pewter lower cone. (CP x .85)
- 79 Extension collar for ceilings up to 2" thick.

- 82 Sloped ceiling adapter. Specify slope in 5° increments up to 30°.
- 90 SofTex Champagne Gold lower cone. (CP x .91)
- 91 SofTex Wheat lower cone. (CP x .87)
- 94 Custom color/finish. Specify. Consult factory.
- OG OptiGroove black seamless tapered aluminum cone with white flange. (CP x .70)

Other

- 99 Special modification. Consult factory.
- FS Additional in-line fuse.
- LE With 4-pin electronic lamp. 3500°K standard. 82 CRI and 12,000 hour life. Specify wattage, style and color temperature.
- QS QuickShip. Ships complete within 72 hours. Limited Option availability. See "Gazelle Express Program" brochure for complete details.

<sup>1</sup> Visit [www.kirlinlighting.com](http://www.kirlinlighting.com) for most current performance / specifications.

SUBMITTAL DATA

APPROVAL STAMP

JOB NAME \_\_\_\_\_  
 TYPE \_\_\_\_\_  
 WATTAGE \_\_\_\_\_ VOLTAGE \_\_\_\_\_  
 CATALOG NUMBER \_\_\_\_\_

LIMITED WARRANTY: CATALOGUED KIRLIN FIXTURES ARE WARRANTED FREE OF DEFECTS IN WORKMANSHIP OR MATERIAL FOR THREE YEARS FROM DATE OF PURCHASE. INSTALLATION TO N.E.C. / NORMAL USE. MANUFACTURER AT HIS OPTION WILL REPAIR OR REPLACE SUCH FIXTURES OR REFUND THE PURCHASE PRICE ON PRESENTATION OF PROOF OF PURCHASE AND DEFECTIVE FIXTURE AT THE OFFICE OF MANUFACTURER WITHIN THREE YEARS OF ORIGINAL SHIPMENT. LIABILITY OF MANUFACTURER IS LIMITED TO THE FOREGOING, AND MANUFACTURER SHALL NOT BE LIABLE FOR ANY OTHER DAMAGES, DIRECT OR INDIRECT, SUSTAINED OR SUFFERED BY PURCHASER OR ANY PERSON. THIS WARRANTY IS SUPPLIED TO THE PURCHASER AND OTHER WARRANTIES, EXPRESSED OR IMPLIED, SHALL NOT BE WAIVED AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE, NOR SHALL THIS WARRANTY CONSTITUTE A WARRANTY OR ATTENDANCE CONTRACT. A WARRANTY OR ATTENDANCE CONTRACT IS A SEPARATE DOCUMENT. THIS WARRANTY IS SUPPLIED TO THE PURCHASER AND OTHER WARRANTIES, EXPRESSED OR IMPLIED, SHALL NOT BE WAIVED AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE, NOR SHALL THIS WARRANTY CONSTITUTE A WARRANTY OR ATTENDANCE CONTRACT. A WARRANTY OR ATTENDANCE CONTRACT IS A SEPARATE DOCUMENT.