

CATALOG #	TYPE
JOB NAME	WATTAGE VOLTAGE

6" x 6" 1 Triple 42 WATT MAXIMUM

FRS-06103

Shallow Square Regressed Lens
Downlight

Features

Lamp

- Designed for one 4-pin triple tube compact fluorescent lamp: 42/32/26W triple or 26W quad.

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. EFLI filter.
- Internally fused. Also see Option -FS.

Reflector

- Specular Alzak® aluminum.

Trim Assembly

- Tapered aluminum black OptiGroove with white flange or all white smooth self-flanged trim (Option -40) as shown in section view.
- Regressed temperature sensitive #13 trim.

Aluminum Housing

- Anodized, enamel. Rustproof. Exceeds 1000 hour ASTM 5 salt spray test.
- Light weight; full utilization of luminaire load.
- OptiGroove trim; fast and easy to change.
- Entire luminaire serviced through aperture.
- Built-in plaster frame.

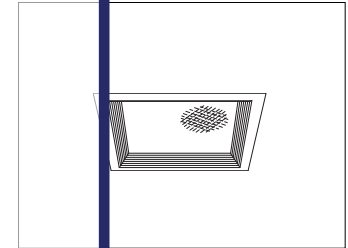
Outlet Box

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

Installation

- Use galvanized mounting brackets (2) supplied.
- Use brass or stainless steel mounting screws.
- Use 1/2" (6 pin) dry fit.

- Wet, damp or dry locations, covered ceilings.
- Through-branch conductors (6 #12).
- Use four Limbless® for mounting.
- Use 2 support standard drywall and gyps.



Recessed Square
Regressed Lens
Shallow Plenum

Selected Optional Trims:

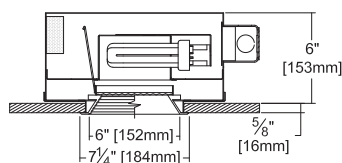
- White Grooveless Flare Option -40

THIS PRODUCT IS NO LONGER AVAILABLE

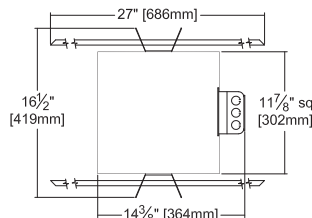
Please consult QUOTATIONS for the best alternative.

Performance at a Glance

FRS-06103

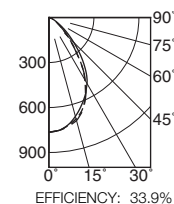


Option -40 Also Shown



Ceiling Cut-out
6 3/4" Sq.

FRS-06103 (1 Triple 42W)



Cone of Light*

Dist.	FC	Dia.
6	21.3	6.2
8	12.0	8.2
10	7.7	10.3
12	5.3	12.4
14	3.9	14.4
16	3.0	16.5

--- 0° SC 1.0
--- 90° SC 1.0
--- 180° SC 1.0

Cone of Light Key

- Ft. Distance from fixture
- FC Footcandles (average)
- 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 42

CATALOG NUMBER

FRS-06103

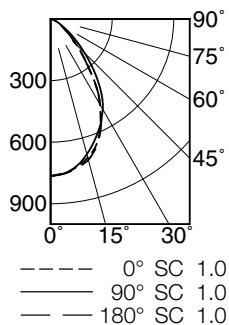
DUE TO OUR CONTINUING EFFORT TO IMPROVE PRODUCTS, TECHNICAL INFORMATION IS SUBJECT TO CHANGE WITHOUT NOTICE.

Alzak® is a registered trademark of ALCOA.

Detailed Photometry - Installed Fixture

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

FRS-06103 (1 Triple 42)



EFFICIENCY : 33.9%

CANDLEPOWER DISTRIBUTION					
	0.0	45.0	90.0	135.0	180.0
0	765	765	765	765	765
5	756	755	756	755	756
15	700	690	682	697	711
25	576	577	572	584	580
35	375	404	426	407	373
45	179	214	234	216	179
55	77	96	101	98	77
65	34	38	37	38	36
75	5	7	5	8	7
85	0	0	0	0	0
90	0	0	0	0	0

COEFFICIENTS OF UTILIZATION							
RF	20						
RC	80						
RW	70	50	30	10	50	30	10
1	38	37	36	35	35	34	33
2	36	34	32	30	32	31	29
3	33	31	29	27	29	28	26
4	31	28	26	24	27	25	23
5	29	26	23	21	25	23	21
6	27	24	21	19	23	21	19
7	26	22	19	18	21	19	18
8	24	20	18	16	20	18	16
9	23	19	16	15	18	16	15
10	21	18	15	14	17	15	14

ITL TEST #55422 *LER=26.5 •AEC=\$9.07

* 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 electronic dimming ballast. 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 Voltage¹

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.
- HE¹ Internal higher lumen (up to 1250) 1-lamp EM ballast. 13-42W only. Specify voltage.

Lenses and Trims

- 13 Vandal resistant tempered prismatic C#73 spread lens above 1/8" flat polycarbonate.
- 17 .187" prismatic high strength acrylic lens.
- 18 Opal flat glass diffuser.
- 20 White aluminum 1/2" cube egg-crate louver.
- 21 White flat polycarbonate diffuser.
- 32 White oversize trim extender. Specify size.
- 40 White grooveless flare trim. (CP x 1.10)

- 45 Gasket between ceiling and trim flange.
- 46 Gasket between trim and lens.
- 79 Extension collar for ceilings up to 2" thick.
- 94 Custom color/finish. Specify. Consult factory.
- CF High temperature color filter. Specify color.
- UV UV filter. Consult factory.

Other

- 99 Special modification. Consult factory.
- FS Additional in-line fuse. Not available with Option -98 (347V).
- LE With 4-pin electronic lamp. 3500°K standard. 82 CRI and 12,000 hour life. Specify wattage, style and color temperature.

¹ Visit www.kirlinlighting.com for most current performance / specifications.

SUBMITTAL DATA

JOB NAME

TYPE

WATTAGE

VOLTAGE

CATALOG NUMBER

APPROVAL STAMP

LIMITED WARRANTY: CATALOGED KIRLIN FIXTURES ARE WARRANTED FREE OF DEFECTS IN WORKMANSHIP OR MATERIAL FOR THREE YEARS FROM DATE OF PURCHASE. INSTALLATION TO N.E.C. IN NORMAL USE. Manufacturer at his option will replace or repair such fixture or refund the purchase price on presentation of proof of purchase and defective fixture at the offices 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 buyer in place of all other warranties, expressed or implied. Seller does not warrant as to merchantability or fitness for a particular use, nor will any oral statement constitute a warranty or amend this specific warranty. Abnormal use, abuse of the fixture, improper installation, or repair, or modification of the fixture without prior written authorization from the manufacturer will render the warranty void.