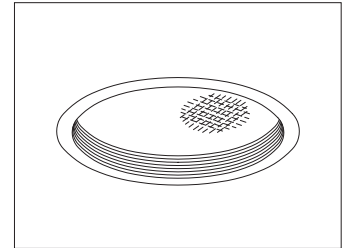


CATALOG #	TYPE	
JOB NAME	WATTAGE	VOLTAGE

11" 2 Triple 70 WATT MAXIMUM

FRR-11041

2 Lamp High Wattage Regressed Lens Downlight



Features

Lamp

- Designed for two 4-pin triple/four tube amalgam compact fluorescent lamps:

Ballast: Multi Voltage

- Installed electronic high power factor, thermally protected.
- 120-277 multi-volt; 50/60 Hz, THD < 40%
- ClickQuick connectors for easy wiring.
- Single circuit wiring or see Option -S.
- Cold weather -22°F (-30°C)
- End of lamp life protection circuit. RFI filter.
- Internally fused. Also see Options -FS, -FD.

Reflector

- Specular Alzak® aluminum.

Trim Assembly

- Tapered aluminum one piece black OptiGroove with white flange or all white smooth self-flanged trim (Option -40) as shown in section view.
- Regressed tempered prismatic C#73 lens.

Aluminum Housing

- 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

- Provided (1) 1/2" O.D. galvanized steel. UL listed and meets all 3/4" knock-out.

Installation

- 27" galvanized hanger bars with adjustable mounting brackets (2) supplied.
- Recesses into ceiling into any ceiling locations.
- Wet, damp or dry locations, covered ceilings.
- Through-branch conductors (6 #12).

Through Branch Limited

- Complete standard fixture and ballast.

Recessed Round Regressed Lens

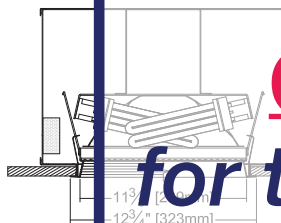
Selected Optional Trims:

- Optal Diffuser Option -18
- White Grooveless Flare Option -40
- Fresnel Lens Option -FR

THIS PRODUCT IS NO LONGER AVAILABLE

Performance at a Glance

FRR-11041



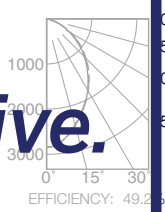
Option -40 Also Shown

Please consult QUOTATIONS for the best alternative.



Ceiling Cut-out 12 1/4" Dia.

FRR-11041 (2 Triple 70W)



Cone of Light*		
Dist.	FC	Dia.
6	79.2	5.9
8	44.5	7.9
10	28.5	9.9
12	19.8	11.9
14	14.5	13.9
16	11.1	15.9
----	0° SC	1.0
----	45° SC	1.0
----	90° SC	1.0

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

2 Triple 70

CATALOG NUMBER

FRR-11041

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

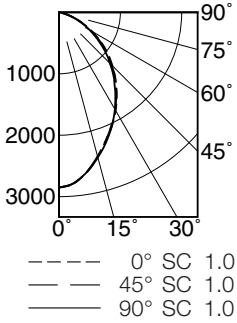
Alzak® is a registered trademark of ALCOA.

Detailed Photometry - Installed Fixture

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

LIMITED WARRANTY: CATALOGED KIRLIN FIXTURES ARE WARRANTED FREE OF DEFECTS IN WORKMANSHIP OR MATERIAL FOR THREE YEARS FROM DATE OF PURCHASE. INSTALLLED TO N.E.C. IN NORMAL USE. Manufacturer at the option will inspect or repair such fixtures or refund the purchase price on presentation of a 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.

FRR-11041 (2 Triple 70)



EFFICIENCY : 49.2%

CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	2851	2851	2851	2851	2851
5	2793	2793	2790	2792	2789
15	2429	2432	2427	2443	2445
25	2039	2030	2022	2042	2039
35	1637	1633	1633	1618	1600
45	1229	1232	1212	1197	1171
55	825	934	806	783	769
65	424	439	427	412	405
75	118	126	117	120	112
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
1	55	53	51	49	49	48	47
2	50	47	44	42	44	42	40
3	46	42	38	36	40	37	35
4	43	38	34	31	36	33	30
5	40	34	30	27	33	29	27
6	37	31	27	24	30	26	24
7	34	28	24	22	27	24	21
8	32	26	22	19	25	22	19
9	30	24	20	18	23	20	18
10	28	22	19	16	22	18	16

ITL TEST #54855 *LER=32.4 •AEC=\$7.41

* 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: See FRR-11040.
- 84 Wired for two circuits. Also see -FD.
- 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" polycarbonate.
- 18 Opal flat glass diffuser.
- 20 White aluminum egg-crate louver (1/2" cubes).
- 32 White oversize trim ring. Specify O.D.
- 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.

- FR Fresnel tempered glass lens.
- FT Flat white trim

Top Access

- TA Top access for servicing from above.

Other

- 99 Special modification. Consult factory.
- FD Two additional in-line fuses. One per ballast. Use with Option -84. Not available with Option -98 (347V).
- 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

APPROVAL STAMP

JOB NAME

TYPE

WATTAGE

VOLTAGE

CATALOG NUMBER