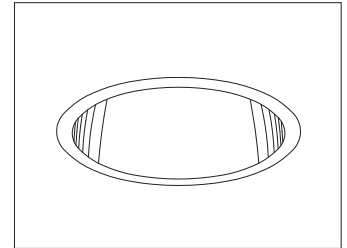


CATALOG #	TYPE	
JOB NAME	WATTAGE	VOLTAGE

11" 3 Triple 57 WATT MAXIMUM

FRR-11021

3 Lamp High Lumen Package in Dual Reflector Downlight



Features

Lamp

- Designed for three 4-pin triple/four tube amalgam compact fluorescent lamps: 57W triple/four tube.

Ballast: Multi Voltage

- Installed electronic high power factor, thermally protected. For lower wattage ballast -40°C.
- 120-277 multi-volt; 50/60 Hz. T.D. 100.
- Single circuit wiring or see Option -8.
- Cold weather -22°F (-30°C).
- End of lamp life protection circuit. RFI filter.
- Internally fused. Also see Options -FS, -FD.

Reflector

- Upper: Special Alzak® aluminum.
- Lower: Low pridescence (L) Alzak aluminum. One piece, self-flanged.
- See Options for other finishes.

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

- Prewired 14 GA (NEC) galvanized steel, UL listed. 1/2" and 3/4" knockout.
- 1/2" galvanized hardware available.
- Mounting bracket (2) applied.
- Recesses indoor or outdoor in covered locations.

C- (Canada) Listings

- Wet lamp or dry locations for ceiling.
- Through hole for conduits (2).

Three Year Limited Warranty

- Complete standard fixture and ballast.

Recessed Round
Open
Dual Reflector

Selected Optional Trims:

- All White Option -30
- Softex Titanium Option -57
- Softex Dune Option -71
- Softex Pewter Option -77
- Softex Wheat Option -91

THIS PRODUCT IS NO LONGER AVAILABLE

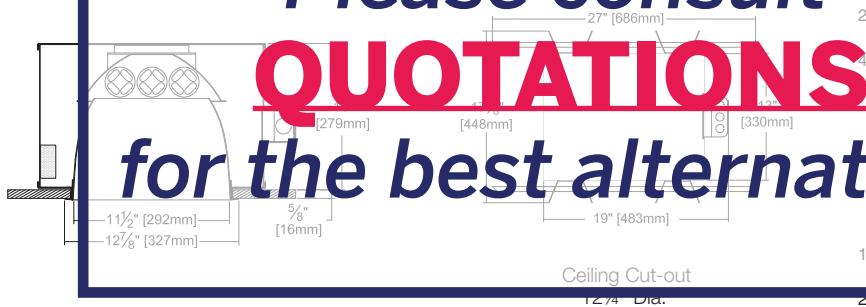
Please consult

QUOTATIONS

for the best alternative.

Performance at a Glance

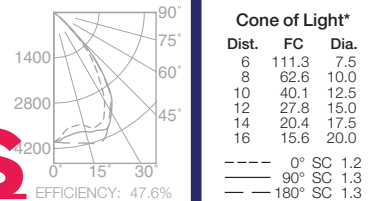
FRR-11021



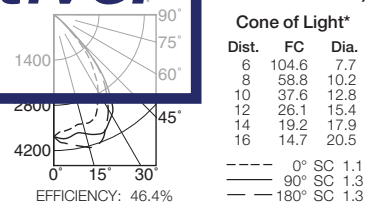
Cone of Light Key

- 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.

FRR-11021 (3 Triple 57W - G.E.)



FRR-11021 (3 Triple 57W - PHILIPS)



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

3 Triple 57

CATALOG NUMBER

FRR-11021

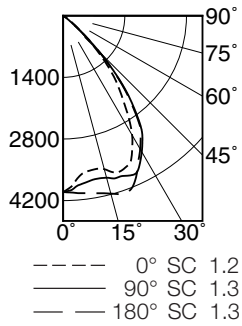
DUE TO OUR CONTINUING EFFORT TO IMPROVE PRODUCTS, TECHNICAL INFORMATION IS SUBJECT TO CHANGE WITHOUT NOTICE.

Alzak® is a registered trademark of ALCOA.

Detailed Photometry - Installed Fixture

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

FRR-11021 (3 Triple 57 - G. E. lamp)



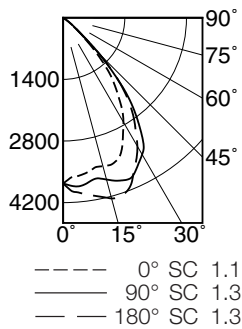
EFFICIENCY : 47.6%

CANDLEPOWER DISTRIBUTION					
	0.0	45.0	90.0	135.0	180.0
0	4006	4006	4006	4006	4006
5	3711	3833	3869	4000	4046
15	3609	3671	3810	4033	4183
25	3638	3744	3938	3973	3958
35	2409	2732	3074	3096	3029
45	993	987	1161	1487	1168
55	143	98	79	87	105
65	41	33	31	32	38
75	15	12	12	12	15
85	3	1	3	3	3
90	0	0	0	0	0

COEFFICIENTS OF UTILIZATION							
RF	20						
	80				50		
	RW	70	50	30	10	50	30
1	54	52	51	50	49	48	47
2	51	48	46	44	46	44	43
3	48	44	41	39	42	40	38
4	45	41	38	35	39	37	35
5	42	37	34	32	36	33	31
6	39	35	31	29	33	31	29
7	37	32	29	26	31	28	26
8	35	30	26	24	29	26	24
9	33	28	24	22	27	24	22
10	31	26	23	21	25	22	20

ITL TEST #54945 *LER=30.7 •AEC=\$7.82

FRR-11021 (3 Triple 57 - Philips lamp)



EFFICIENCY : 46.4%

CANDLEPOWER DISTRIBUTION					
	0.0	45.0	90.0	135.0	180.0
0	3764	3764	3764	3764	3764
5	3616	3694	3846	3945	3984
15	3490	3780	3804	3871	4250
25	3185	3707	3863	3843	3810
35	2198	2686	3031	.019	2805
45	861	990	1177	1368	1142
55	114	118	97	88	78
65	33	34	33	31	27
75	12	12	12	10	9
85	0	0	0	0	0
90	0	0	0	0	0

COEFFICIENTS OF UTILIZATION							
RF	20						
	80				50		
	RW	70	50	30	10	50	30
1	52	51	50	49	48	47	46
2	49	47	45	43	44	43	42
3	46	43	40	38	41	39	37
4	44	40	37	34	38	36	34
5	41	37	33	31	35	33	31
6	38	34	31	28	33	30	28
7	36	31	28	26	30	28	26
8	34	29	26	24	28	26	24
9	32	27	24	22	26	24	22
10	30	25	22	20	25	22	20

ITL TEST #54873 *LER=32.5 •AEC=\$7.38

* LER = Luminaire Efficiency Rating
LER = Luminaire Effic. x Total Lamp Lumens x Ballast Factor
Input Watts

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

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 his option will inspect 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.

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 4-pin 3x42/32/26W triple or 3x26W quad (multi-wattage/voltage).
- 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.
- 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 reflector 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.
 - 90 SofTex Champagne Gold lower cone. (CP x .91)

- 91 SofTex Wheat lower cone. (CP x .87)
- 94 Custom color/finish. Specify. Consult factory.

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

JOB NAME
TYPE
WATTAGE
CATALOG NUMBER

VOLTAGE

APPROVAL STAMP