

### Regressed Lens Triple Tube High Output

#### Features

##### Lamp

- Designed for:
  - 1 horizontal Triple Tube 32: RR90944.
  - 2 horizontal Triple Tube 32: RR91245.
- 4 pin GX24q-3 base.
- 90% lumen output maintained at ballast minimum operating temperature.
- Flicker-free starting, high light output, excellent color rendering (82 CRI).
- High efficiency with low operating costs.
- See Option -43 for lower wattage.

##### Ballast

- Regulating electronic high power factor, thermally protected, encased. -10°C (13°F) rated. THD is less than 10%.
- Built-in RIF filter.
- Single circuit wiring (RR91245). Optional two-circuit wiring. (See Option -84)
- 120 volt standard or see optional voltages.
- Dimming optional. (See Option -39)
- Visible and easily serviced in all ceilings.

##### Fuse

- Available as Option -FS (single) or -FD (double - RR91245 only).

##### Reflector

- Specular Alzak® aluminum.

##### Trim Assembly

- Seamless tapered black OptiGroove with white flange. Self-flanged trim.
- Prismatic tempered, shock-resisting, low

brightness C#73 spread distribution lens.

- Torsion springs retain snug fit to ceiling.
- White flare trim, flat trim or eggcrate louver available. See Options.
- Anopac, acrylic or polycarbonate lens available. See Options.

##### Housing

- Acrylic enameled aluminum.
- Cool: Dissipates heat across entire surface area.
- Rustproof: Exceeds 1000 hour ASTM 5% salt spray test.
- Entire luminaire serviced through removable trim assembly.
- Prewired outlet box; 14GA (NEC) galvanized steel. UL listed. Accessible through fixture opening.
- Built-in plaster frame.

##### Installation

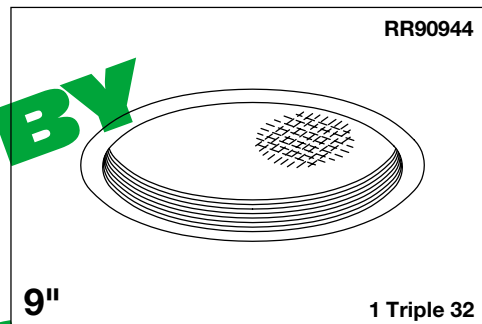
- 27" hanger bars supplied (2).
- Fully adjustable universal mounting brackets supplied (2).
- Recesses indoor or outdoor in covered locations.

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

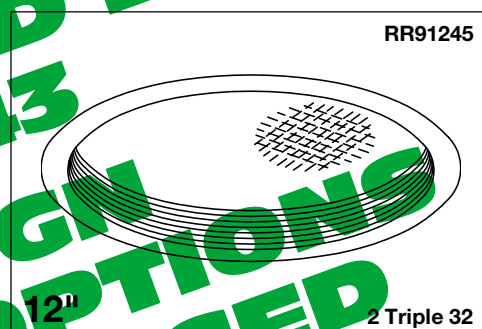
- Wet, damp or dry locations, covered ceilings.
- Through-branch circuit conductors (6 #12).

##### Three Year Limited Warranty

- Complete standard fixture.



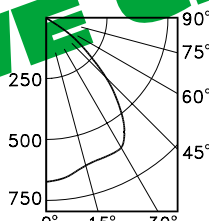
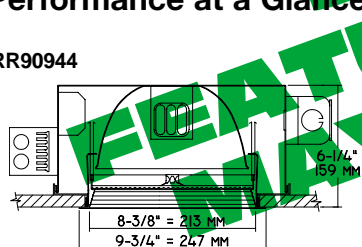
RR90944  
9" 1 Triple 32  
56% Efficiency  
150 Watt Incandescent Equivalent



RR91245  
12" 2 Triple 32  
74% Efficiency  
300 Watt Incandescent Equivalent

#### Performance at a Glance

RR90944



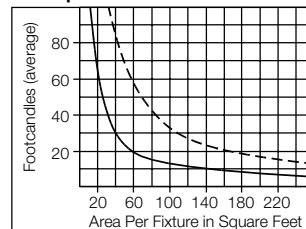
RR90944 S/MH 1.3

Cone of Light\*

Ft.	FC	Dia.
6	18.6	7.4
8	10.4	9.9
10	6.7	12.4
12	4.6	14.9
14	3.4	17.3
16	2.6	19.8

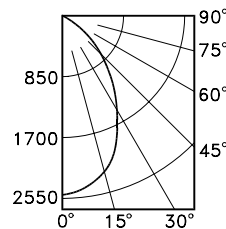
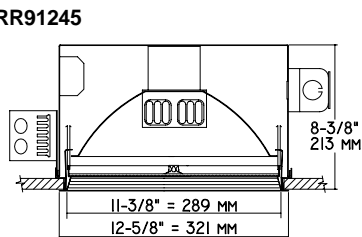
RR90944

Multiple Fixture FC Calculator \*\*



RR90944 ——— RR91245 - - - -

RR91245



RR91245 S/MH 1.0

Cone of Light\*

Ft.	FC	Dia.
6	69.2	5.4
8	38.9	7.2
10	24.9	9.0
12	17.3	10.8
14	12.7	12.6
16	9.7	14.4

RR91245

#### Cone of Light Key

- Ft. Distance from fixture
- FC Footcandles (average)
- FC Circle of light at 50% of FC

\* Dia. (in ft.) shown is where FC value is half the FC at nadir.  
\*\* Based on RCR2; ceiling 70%; wall 50%; floor 20%. Use S/MH shown for each fixture. Distribution curve and S/MH data shown are 90° to lamp axis.

## THE KIRLIN COMPANY

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CENTURY SERIES  
ARCHITECTURAL  
COMPACT FLUORESCENT LIGHTING

MAXIMUM WATTAGE

1 Triple 32  
2 Triple 32

CATALOG NUMBERS

RR90944  
RR91245

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Alzak® is a registered trademark of ALCOA.

RR90944  
RR91245

RECESSED ROUND: TRIPLE TUBE 32 WATT COMPACT FLUORESCENT

**KIRLIN**

Detailed Photometry - Installed Fixture

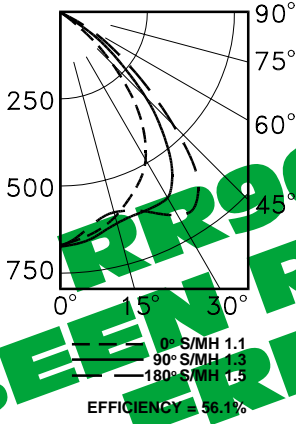
FROM I.T.L. (BOULDER, CO) RR90944: TEST NUMBER 42088  
RR91245: TEST NUMBER 42087

RR90944

\*LER = 34.7  
•AEC = \$6.92

CANDLEPOWER DISTRIBUTION

COEFFICIENTS OF UTILIZATION



	0.0	45.0	90.0	135.0	180.0
0	668	668	668	668	668
5	660	661	661	655	650
15	606	616	634	609	603
30	540	607	641	623	643
45	414	551	568	577	664
60	229	328	346	360	491
75	107	142	151	160	182
90	46	56	57	59	71
105	15	17	17	17	17
120	0	0	0	0	0
135	0	0	0	0	0
150	0	0	0	0	0
165	0	0	0	0	0
180	0	0	0	0	0

RF	20				
	RC	5	10	50	10
1	70	61	59	57	54
2	63	55	52	49	47
3	58	49	45	42	41
4	54	44	40	37	36
5	46	37	32	33	32
6	43	32	29	35	29
7	40	34	29	26	26
8	38	31	27	24	24
9	35	29	24	22	21
10	33	26	22	20	20

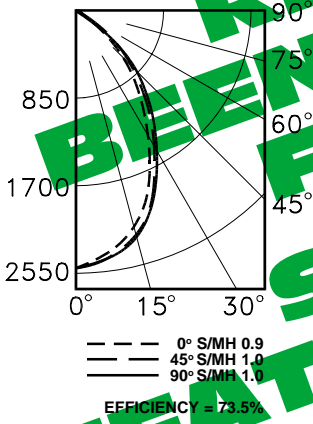
\*LER = Luminance Rating  
LER = Luminaire Output (lm) x Beam Spread Factor  
Input Watts  
AEC = Annual Energy Cost per 1000 lumens (based on 3000 hours use @ \$0.08 KWH).

RR91245

\*LER = 45.4  
•AEC = \$5.28

CANDLEPOWER DISTRIBUTION

COEFFICIENTS OF UTILIZATION



	0.0	22.5	45.0	67.5	90.0
0	2490	2490	2490	2490	2490
5	2447	2453	2460	2466	2468
15	2148	2166	2193	2212	2213
30	1659	1688	1728	1738	1734
35	1158	1204	1266	1292	1296
45	691	711	766	789	800
55	306	330	355	381	396
60	151	142	153	160	155
75	45	48	51	55	59
85	0	0	0	0	0
90	0	0	0	0	0

RF	20				
	RC	5	10	50	10
1	82	80	77	75	72
2	77	72	68	65	63
3	71	65	61	57	56
4	67	60	54	51	50
5	62	55	49	45	45
6	58	50	45	41	40
7	55	46	41	37	37
8	51	43	38	34	34
9	48	40	35	31	31
10	46	37	32	29	29

\*LER = Luminance Rating  
LER = Luminaire Output (lm) x Beam Spread Factor  
Input Watts  
AEC = Annual Energy Cost per 1000 lumens (based on 3000 hours use @ \$0.08 KWH).

Options

- 13 Clear 1/8" flat polycarbonate below, with tempered prismatic flat C#73 lens above.
- 17 3/16" prismatic high strength acrylic instead.
- 18 Anopal flat glass. Not enameled. Diffusing.
- 20 White 1/2" cube eggcrate aluminum louver.
- 21 White translucent flat polycarbonate instead.
- 32 Trim extender (RR90944). Broadens trim flange O.D. by 1" to cover larger ceiling opening.
- 39 Installed electronic dimming ballast for 32 watt. Consult factory for 18 or 26 watt. Also see Options -84, -LE and -WD. Indoor use.
- 40 White grooveless flare trim with regressed tempered C#73 or specify optional lens.
- 43 Lower wattage triple tube: Specify 1-18 or 1-26 (RR90944); 2-18 or 2-26 (RR91245).
- 45 Gasket between trim and ceiling.
- 46 Gasket between trim and lens.
- 58 277 volt 60 Hz. ballast instead.
- 73 Internal emergency "Ni-Cad" battery pack concealed in housing. Controls one lamp. Switch and visible light located above lens. For indoor use.
- 74 Two lamp internal emergency "Ni-Cad" battery pack concealed in housing for 18, 26 or 32 watt. (RR91245). Switch and visible light located above lens. For indoor use.
- 76 Drop white acrylic diffuser instead for RR90944.
- 82 Sloped ceiling adapter (RR90944 only). Specify slope up to 30° in 5° increments.
- 84 Fixture wired for two circuits (RR91245). See Option -FD.
- 94 Custom color trim assembly. Consult factory.
- 97 Other voltage ballast. Consult factory.
- 98 347 volt 60 Hz. ballast instead. Consult factory for dimming.
- 99 Special modification. Consult factory.
- CW Cold weather electronic HPF ballast. -18°C to -20°C (0°F to -5°F).
- FD Double Fused primary (RR91245). One per ballast. Replaceable. For use with Option -84.
- FR Fresnel tempered lens. Concentric prisms.
- FS Fused primary. Replaceable. Aids servicing.
- FT Flat white trim instead. With tempered prismatic C#73 spread lens or specify other lens.
- HO Holophane concave prismatic tempered lens.
- LE With 4-pin electronic Triple Tube amalgam lamp(s). 82 CRI and 10,000 hour life. 3500°K or consult factory for 2700°K, 3000°K, 4100°K. Specify wattage and color temperature.
- WD Wall Dimmer for use with Option -39. Consult factory for use with 18 or 26 watt.

SUBMITTAL DATA

APPROVAL STAMP

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

LIMITED WARRANTY: CATALOGED KIRLIN FIXTURES ARE WARRANTED FREE OF DEFECTS IN WORKMANSHIP OR MATERIAL FOR THREE YEARS FROM DATE OF PURCHASE. INSTALLATION, ETC., IS NOT NORMAL USE. MANUFACTURER AT HIS OPTION WILL REPAIR OR REPLACE SUCH FIXTURE OR RETURN THE PURCHASE PRICE ON PRESENTATION OF PROOF OF PURCHASE AND DEFECTIVE FIXTURE AT THE OFFICE OF MANUFACTURER WITHIN THE REAR YEARS OF ORIGINAL INPLET. 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 ON THE CONDITION THAT THE PURCHASER OR ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, SHALL NOT BE WAIVED BY THE PURCHASER'S ACCEPTANCE OF THIS WARRANTY. MANUFACTURER'S WARRANTY DOES NOT EXTEND TO FIXTURES INSTALLED OR USED IN UNUSUAL OR UNREASONABLE MANNER. MANUFACTURER'S WARRANTY DOES NOT EXTEND TO FIXTURES INSTALLED OR USED IN UNUSUAL OR UNREASONABLE MANNER. MANUFACTURER'S WARRANTY DOES NOT EXTEND TO FIXTURES INSTALLED OR USED IN UNUSUAL OR UNREASONABLE MANNER. MANUFACTURER'S WARRANTY DOES NOT EXTEND TO FIXTURES INSTALLED OR USED IN UNUSUAL OR UNREASONABLE MANNER. MANUFACTURER'S WARRANTY DOES NOT EXTEND TO FIXTURES INSTALLED OR USED IN UNUSUAL OR UNREASONABLE MANNER.