

### 12" Regressed Lens; High Output

#### Features

##### Lamp

- Designed for:
  - 2 horizontal Triple Tube 32 watt: RR81227.
  - 2 horizontal Triple Tube 42 watt: RR81228.
- 4-pin GX24q-3 base: RR81227.
- 4-pin GX24q-4 base: RR81228.
- 90% lumen output maintained at ballast minimum operating temperature.
- Flicker-free starting, high light output, excellent color rendering (82 CRI).
- Long 10,000 hour life.
- High efficiency with low operating costs.
- See Option -43 for lower wattage.

##### Ballast

- Regulating electronic high power factor, thermally protected, enclosed.
- RR81227: -5° to -10°C (14° - 23°F) rated. Cold weather available, see Option -CW.
- RR81228: Cold weather standard, -18°C to -20°C (0°F to -5°F) rated.
- Built-in RIF filter, THD is less than 10%.
- 120 volt standard or see optional voltages.
- Single circuit wiring. See Option -34 for two-circuit wiring.
- Dimming optional. See Option -39 for availability and restrictions.
- Visible and easily serviced in all ceilings.

##### Fuse

- Available as Option -FS. Also see -FD.

##### Reflector

- Specular Alzak® aluminum.

##### Trim Assembly

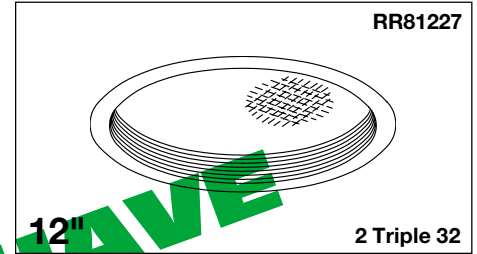
- Seamless tapered black OptiGroove with white flange. Self-flanged trim.
- Regressed prismatic tempered low brightness C#73 spread distribution lens.
- Torsion springs retain snug fit to ceiling.
- White grooveless flare trim, flat trim or eggcrate louver available. See Options.
- Acrylic, fresnel or Hdiophane lens; Anopal or polycarbonate available. See Options.

##### Housing

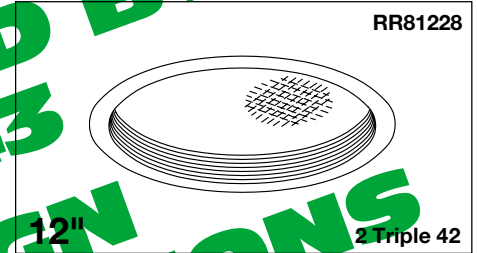
- Acrylic enameled aluminum.
- Cool. Dissipates heat across entire surface area. Ventilated.
- Rustproof. Exceeds 1000 hour ASTM 5% salt spray test.
- Entire luminaire serviced through removable trim assembly.
- Prewired outlet box, 14GA (NEC) galvanized steel. UL listed. Accessible through fixture opening.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

##### Installation

- 27" hanger bars supplied (2).
- Fully adjustable universal mounting brackets supplied (2).



**12"**  
**2 Triple 32**  
**74% Efficiency**  
**300 watt Incandescent Equivalent**

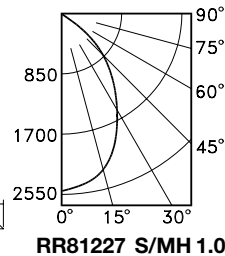
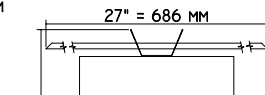
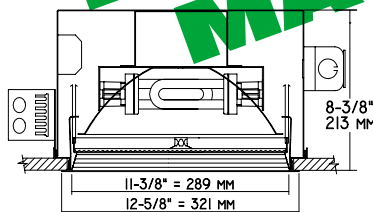


**12"**  
**2 Triple 42**  
**Approaches 100 Watt Metal Halide Output**

- 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.

#### Performance at a Glance

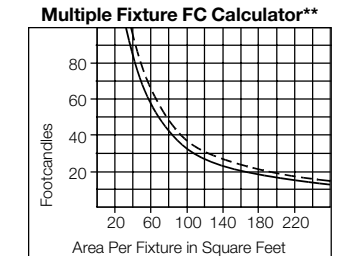
##### RR81227



**Cone of Light\***

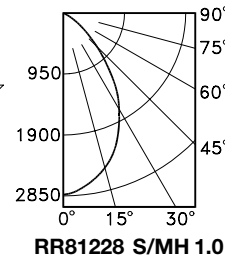
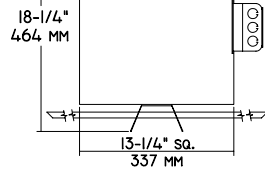
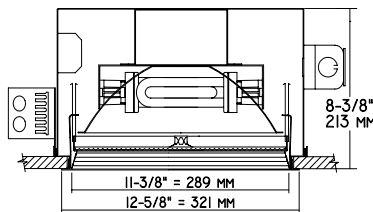
Ft.	FC	Dia.
6	69.2	5.4
8	38.9	7.2
10	24.9	9.0
12	17.3	10.8
14	12.7	12.6
16	9.7	14.4

**RR81227**



RR81227 ——— RR81228 - - - -

##### RR81228



**Cone of Light\***

Ft.	FC	Dia.
6	78.7	5.4
8	44.3	7.3
10	28.3	9.1
12	19.7	10.9
14	14.4	12.7
16	11.1	14.5

**RR81228**

##### 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.  
\*\* Based on RCR2; ceiling 70%; wall 50%; floor 20%. Use S/MH shown for each fixture. Distribution curves and S/MH shown are 90° to lamp axis.

## THE KIRLIN COMPANY

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

**SECOND CENTURY SERIES**  
**TRIPLE TUBE**  
**COMPACT FLUORESCENT LIGHTING**

MAXIMUM WATTAGE

**2 Triple 32**  
**2 Triple 42**

CATALOG NUMBERS

**RR81227**  
**RR81228**

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

FROM I.T.L. (BOULDER, CO) RR81227: TEST NUMBER 42087  
RR81228: TEST NUMBER 44687

RR81227

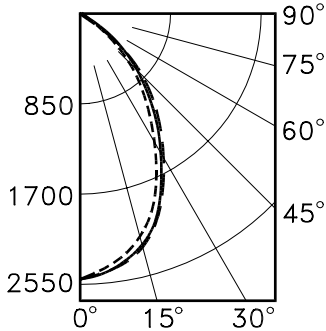
\*LER = 49.3  
•AEC = \$4.87

CANDLEPOWER DISTRIBUTION

	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
25	1659	1688	1728	1738	1734
35	1158	1204	1266	1292	1296
45	691	711	766	789	800
55	306	330	355	381	398
65	151	142	153	160	155
75	45	48	51	55	58
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	82	80	77	75	75	73	72
2	77	72	68	65	68	65	68
3	71	65	61	57	62	59	56
4	67	60	54	51	57	53	50
5	62	55	49	45	52	48	45
6	58	50	45	41	48	44	40
7	55	46	41	37	45	40	37
8	51	43	38	34	41	37	34
9	48	40	35	31	39	34	31
10	46	37	32	29	36	32	29



EFFICIENCY = 73.5%

\* 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).

RR81228

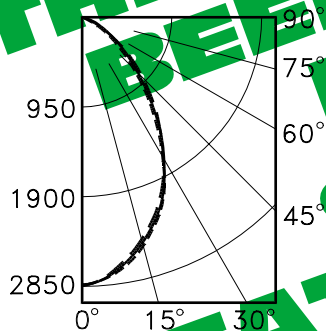
\*LER = 42.5  
•AEC = \$5.66

CANDLEPOWER DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	2832	2832	2830	2832	2832
5	2785	2785	2783	2778	2774
15	2471	2464	2440	2424	2415
25	1984	1970	1968	1957	1957
35	1410	1419	1457	1473	1468
45	810	828	884	862	869
55	365	375	428	417	389
65	177	184	187	177	183
75	63	64	69	72	73
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	73	68	66	64	64	63	61
2	66	62	58	56	58	56	54
3	61	56	52	49	53	50	47
4	57	51	46	43	49	45	42
5	53	47	42	39	45	41	38
6	50	43	38	35	41	37	34
7	47	39	35	32	38	34	31
8	44	37	32	29	35	31	29
9	41	34	30	26	33	29	26
10	39	32	27	24	31	27	24



EFFICIENCY = 62.9%

Options

- 13 Clear 1/8" flat polycarbonate below, with 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.
- 39 Installed electronic dimming ballast. Consult factory for 18 or 26 watt or for quantity and type required. 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: 2-26 or 18 watt (RR81227); RR81228 see RR81227.

- 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. Indoor use. Switch and visible light located above lens.
- 74 Two lamp internal emergency "Ni-Cad" battery pack concealed in housing for 18, 26 or 32 watt. Consult factory for 42 watt. Indoor use. Switch and visible light located above lens.
- 84 Fixture wired for two circuits. 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 for RR81227. -18°C to -20°C (0°F to -5°F). (Standard for RR81228.)
- FD Double Fused primary. One per ballast. Replaceable. For use with Option -84.
- FR Fresnel tempered lens. Concentric prisms.
- FS Fused primary. One per fixture. Replaceable. Aids servicing.
- FT Flat white trim instead. With tempered prismatic C#73 spread lens or specify optional lens.
- LE With 4-pin electronic Triple Tube amalgam lamps. 82 CRI and 10,000 hour life. 3500°K or consult factory for 2700°K, 3000°K or 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 \_\_\_\_\_

THESE FIXTURES HAVE BEEN REPLACED BY SOME NEWER DESIGNS OR OPTIONS MAY HAVE CHANGED

LIMITED WARRANTY: CATALOGUED 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 replace or repair such fixture or refund the purchase price on presentation of proof of purchase and defective fixture at the office of manufacturer within the year 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 on the understanding that other warranties, expressed or implied, shall not in any way be construed to modify, impair, or extend this warranty.