

# Dual Reflector Shallow Downlights

## Features

### Lamp

- Designed for:
  - 1 horizontal Triple Tube 32 watt: RR80611.
  - 1 horizontal Triple Tube 42 watt: RR80712.
- 4 pin GX24q-3 base: RR80611.
- 4 pin GX24q-4 base: RR80712.
- 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.
- RR80611: -5° to -10°C (14° to 23°F) rated.
- Cold weather available, see Option -CW.
- RR80712: 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.
- Dimming optional. See Option -39 for availability and restrictions.
- Visible and easily serviced in all ceilings.

### Fuse

- Available as Option -FS.

### Reflector

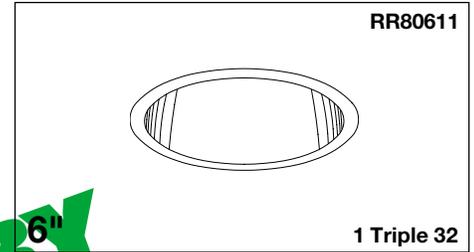
- Clear specular Alzak® aluminum upper reflector.
- Self-flanged low iridescence specular Alzak aluminum lower reflector.
- Optional SoTex softly etched Clear, Dune, Champagne Gold or Wheat lower reflectors available.
- Optional White, Black Specular Alzak or OptiGroove lower reflectors available.

### Housing

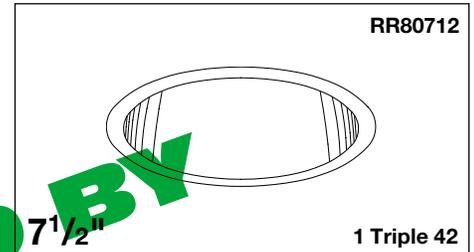
- Acrylic enameled aluminum.
- Cool: Dissipates heat across entire surface area. Ventilated.
- Rustproof: Exceeds 1000 hour ASTM 5% salt spray test.
- Entire luminaire serviced through removable reflector.
- Prewired outlet box, 14GA (NEC) galvanized steel. UL listed. Accessible through fixture opening.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

### Installation

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



**73% Efficiency**  
**Dimming Optional**

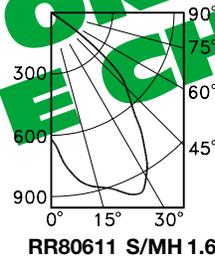
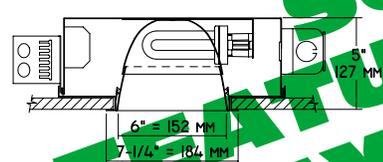


**63% Efficiency**

- 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

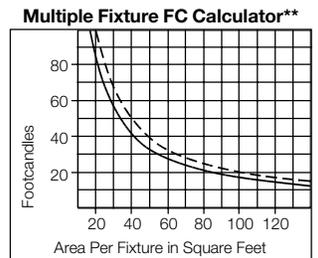
### RR80611



**Cone of Light\***

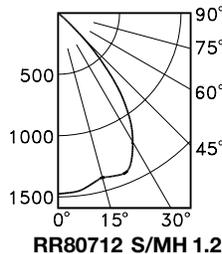
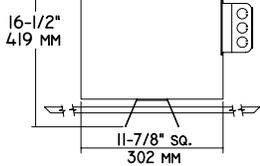
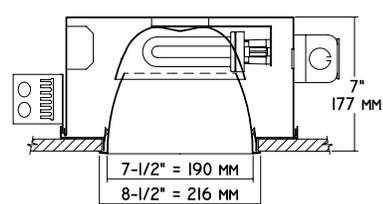
Ft.	FC	Dia.
6	17.5	9.3
8	9.8	12.3
10	6.3	15.4
12	4.4	18.5
14	3.2	21.6
16	2.5	24.7

RR80611



RR80611 ——— RR80712 - - - -

### RR80712



**Cone of Light\***

Ft.	FC	Dia.
6	40.3	6.8
8	22.7	9.1
10	14.5	11.3
12	10.1	13.6
14	7.4	15.8
16	5.7	18.1

RR80712

**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

**1 Triple 32**  
**1 Triple 42**

CATALOG NUMBERS

**RR80611**  
**RR80712**

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) RR80611: TEST NUMBER 45412  
RR80712: TEST NUMBER 45250

RR80611

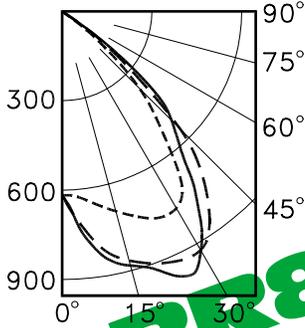
\*LER = 48.7  
•AEC = \$4.93

CANDLEPOWER DISTRIBUTION

	0.0	45.0	90.0	135.0	180.0
0	629	629	629	629	629
5	636	669	703	706	700
15	717	7925	876	852	856
25	775	897	986	981	933
35	696	728	807	823	866
45	391	465	529	531	574
55	94	151	187	153	173
65	2	4	3	3	2
75	0	0	0	0	0
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
RW	70	50	30	10	50	30	10
1	82	79	77	75	75	73	72
2	76	72	68	65	68	65	63
3	71	65	61	57	62	59	56
4	66	59	54	51	57	53	50
5	62	54	49	45	52	48	44
6	57	49	44	40	48	43	40
7	54	45	40	36	44	39	36
8	50	42	36	33	40	36	32
9	47	38	33	30	37	33	29
10	44	35	30	27	34	30	27



EFFICIENCY = 72.6%

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).

RR80712

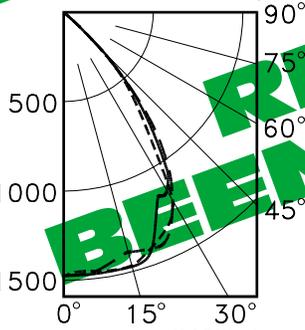
\*LER = 42.3  
•AEC = \$5.67

CANDLEPOWER DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	1451	1451	1451	1451	1451
5	1455	1455	1463	1465	1468
15	1449	1468	1460	1004	1386
25	1310	1307	1251	1309	1349
35	821	936	1018	1000	1006
45	318	329	307	302	306
55	13	12	8	6	5
65	0	0	0	0	0
75	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0

COEFFICIENTS OF UTILIZATION

RF	20						
	80			50			
RC	50	30	10	50	30	10	
RW	50	30	10	50	30	10	
1	71	69	67	66	65	64	63
2	67	64	61	59	60	58	57
3	63	59	55	53	56	54	51
4	59	54	51	48	52	49	47
5	56	50	46	43	49	45	43
6	53	47	43	40	45	42	39
7	50	43	39	36	42	39	36
8	47	40	36	33	39	36	33
9	44	38	34	31	37	33	31
10	42	35	31	29	34	31	29



EFFICIENCY = 62.6%

Estimated Multipliers

- 30 White: CP x .90
- 70 SoftTex Clear: CP x .83
- 71 SoftTex Dune: CP x .87
- 72 Black Specular Alzak®: CP x .65
- 90 SoftTex Champagne Gold: CP x .90
- 91 SoftTex Wheat: CP x .87
- OG OptiGroove: CP x .70

Options

- 30 White self-flanged lower reflector. (CP x .90)
- 31 White lower reflector trim, self-flanged.
- 32 Trim extender. Broadens trim flange O.D. by 1" to cover larger ceiling opening.
- 39 Installed electronic dimming ballast. Consult factory for 18 or 26 watt or for quantity and type required. Also see Options -LE and -WD. Indoor use.
- 43 Lower wattage triple tube. Specify 26 or 18 watt (RR80611); 32, 26 or 18 watt (RR80712).
- 45 Gasket above reflector flange. Stops dust streaks on ceiling.
- 58 277 volt 60 Hz. ballast instead.
- 70 SoftTex Clear softly etched self-flanged lower reflector. Resists smudges. (CP x .90)

- 71 SoftTex Dune softly etched self-flanged lower reflector. Resists smudges. (CP x .87)
- 72 Black Specular Alzak self-flanged lower reflector. (CP x .65)
- 73 Internal emergency "Ni-Cad" battery pack concealed in housing. Indoor use. Switch and light nonobtrusively located inside reflector.
- 79 Extension collar for up to 2" thick ceilings.
- 82 Sloped ceiling adapter. Specify slope in 5° increments up to 30°.
- 90 SoftTex Champagne Gold softly etched self-flanged lower reflector. Resists smudges. (CP x .90)
- 91 SoftTex Wheat softly etched self-flanged lower reflector. Resists smudges. (CP x .87)
- 94 Specular Pewter or Umber or other specified custom color self-flanged lower reflector.

- 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 RR80611. -18°C to -20°C (0°F to -5°F). (Standard for RR80712.)
- FS Fused. Replaceable. Aids servicing.
- LE With 4-pin electronic Triple Tube amalgam lamp. 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.
- OG OptiGroove black seamless tapered aluminum lower cone. White trim, self-flanged. (CP x .70)
- 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: CATALOGUED KIRLIN FIXTURES ARE WARRANTED FREE OF DEFECTS IN WORKMANSHIP OR MATERIAL FOR THREE YEARS FROM DATE OF PURCHASE. INSTALLATION, 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 office of manufacturer within the 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 on the understanding that other warranties, expressed or implied, shall not be construed to modify or limit this warranty. Seller does not warrant as to merchantability or fitness for a particular use, nor, without a statement, constitute a warranty. Abnormal use, abuse of the fixture, improper installation, or repair, or modification of the fixture without prior written authorization from the manufacturer will void this warranty.