

### Type IC or Shallow Plenum Open Downlights

#### Features

##### Lamp

- Designed for:
  - 1 vertical Triple Tube 32 watt: RR80601.
  - 1 horizontal Triple Tube 32 watt: RR80602.
- 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).
- 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.
- Starting temperature -5° to -10°C (14° to 23°F). See Option -CW for cold weather.
- Built-in RIF filter. THD is less than 10%.
- 120 volt standard or see optional voltages.
- Dimming optional. See Option -39.
- Visible and easily serviced in all ceilings.

##### Fuse

- Available as Option -FS

##### Reflector

- Self-flanged low iridescence specular Alzak® aluminum reflector.
- Optional Softex softly etched Clear, Dune, Champagne Gold or Wheat available.
- Optional OptiGroove assembly 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

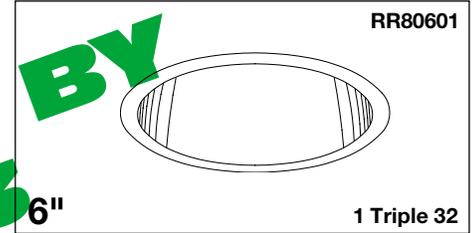
- 27" hanger bars supplied (2).
- Fully adjustable universal mounting brackets supplied (2).
- Reflector and socket bracket adjust as unit for ease of installation.
- Recesses indoor or outdoor in covered locations.

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

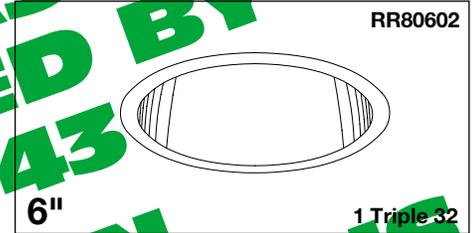
- Wet, damp or dry locations, covered ceilings.
- Through-branch circuit conductors (6 #12).
- Type IC for RR80601. Approved for direct contact with insulation.

##### Three Year Limited Warranty

- Complete standard fixture.



**54% Efficiency**  
Type IC - Dimming Optional

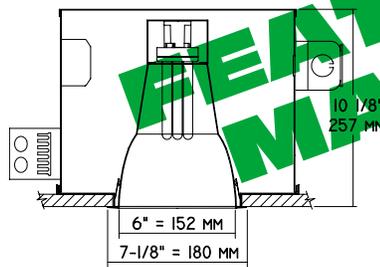


**68% Efficiency**  
Ideal for Corridors

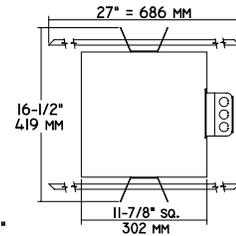
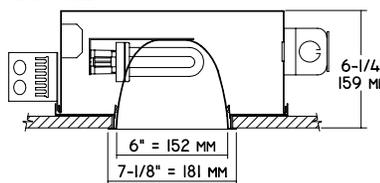
**Softex Clear, Dune, Champagne Gold or Wheat Reflector Finishes Available**

#### Performance at a Glance

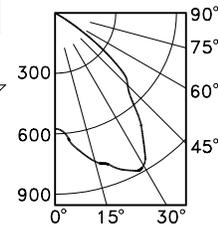
RR80601



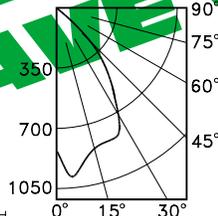
RR80602



RR80601 S/MH 1.2



RR80602 S/MH 1.7



Cone of Light\*

Ft.	FC	Dia.
6	23.5	6.8
8	13.2	9.0
10	8.5	11.3
12	5.9	13.5
14	4.3	15.8
16	3.3	18.1

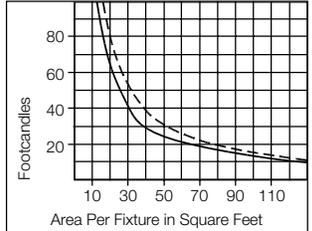
RR80601

Cone of Light\*

Ft.	FC	Dia.
6	15.8	9.5
8	8.9	12.6
10	5.7	15.8
12	3.9	18.9
14	2.9	22.1
16	2.2	25.2

RR80602

Multiple Fixture FC Calculator\*\*



RR80601 ——— RR80602 - - - -

##### 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 curve and S/MH shown for RR80602 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 32**

CATALOG NUMBERS

**RR80601**  
**RR80602**

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) RR80601: TEST NUMBER 43396  
RR80602: TEST NUMBER 44923

RR80601

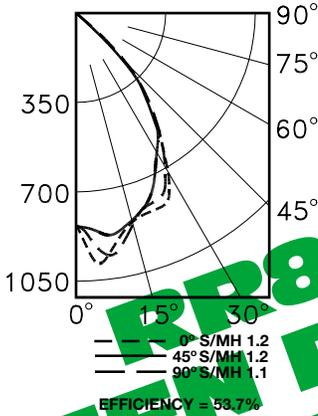
\*LER = 36.0  
•AEC = \$6.67

CANDLEPOWER DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	847	847	847	847	847
5	972	954	915	875	867
15	852	881	963	839	843
25	802	811	786	739	738
35	567	575	580	563	576
45	316	324	301	307	310
55	2	2	2	2	4
65	2	1	2	2	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	61	59	58	56	56	55	54
2	57	54	52	50	52	50	48
3	54	50	47	45	48	45	44
4	51	48	43	40	44	42	39
5	48	43	39	36	41	38	36
6	45	39	36	33	38	35	33
7	42	36	33	30	35	32	30
8	40	34	30	28	33	30	28
9	37	32	28	26	31	28	25
10	35	29	26	24	29	26	24



LER = Luminaire Efficiency Rating  
LER = Luminaire Efficiency x Total Lamp Lumens x Ballast Factor / Input Watts

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

RR80602

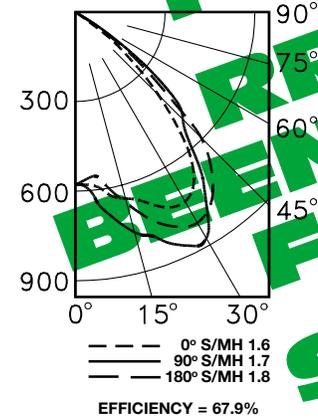
\*LER = 45.5  
•AEC = \$5.27

CANDLEPOWER DISTRIBUTION

	0.0	45.0	90.0	135.0	180.0
0	567	567	567	567	567
5	569	575	584	573	589
15	655	707	726	680	667
25	729	833	849	805	799
35	682	718	754	728	770
45	474	467	498	484	586
55	114	177	216	167	188
65	5	5	6	5	5
75	2	2	2	2	2
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	76	74	72	70	69	68	67
2	71	67	63	60	63	61	58
3	66	60	56	53	58	54	51
4	61	55	50	46	52	48	45
5	57	50	45	41	48	43	40
6	53	45	40	36	43	39	36
7	49	41	36	32	40	35	32
8	46	38	33	29	37	32	29
9	43	35	30	26	34	29	26
10	40	32	27	24	31	27	24



Estimated Multipliers  
-70 - SofTex Clear: CP x .93  
-71 - SofTex Dune: CP x .87  
-90 - SofTex Champagne Gold: CP x .90

-91 SofTex Wheat: CP x .87  
-OG OptiGroove: CP x .75

Options

- 31 White 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 18 or 26 watt.
- 45 Gasket above reflector flange. Stops dust streaks on ceiling.
- 58 277 volt 60 Hz. ballast instead.
- 70 SofTex Clear softly etched self-flanged reflector. Resists smudges. (CP x .93)
- 71 SofTex Dune softly etched self-flanged reflector. Resists smudges. (CP x .87)
- 73 Internal emergency "Ni-Cad" battery pack concealed in housing. Switch and light unobtrusively located inside reflector. Indoor use.
- 79 Extension collar for up to 2" thick ceilings.
- 82 Sloped ceiling adapter. Specify slope in 5° increments up to 30°.
- 90 SofTex Champagne Gold softly etched self-flanged reflector. Resists smudges. (CP x .90)
- 91 SofTex Wheat softly etched self-flanged reflector. Resists smudges. (CP x .87)
- 94 Specular Pewter or Umber or other specified custom color self-flanged 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. -18°C to -20°C (0°F to -5°F).
- 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 assembly. White trim, self-flanged. (CP x .75)
- 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 conflict with this warranty. Seller does not warrant as to merchantability or fitness for a particular use, nor will any oral statement constitute a warranty or amend the 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 void the warranty.