

### Parabolic Directionals for Highlighting 3 Beam Spreads Available by Lens Selection

#### Features

##### Lamp

- Designed for: 175 watt clear E/ED-17 metal halide.
- See Option -43 for lower wattage.
- Option -23 for Mercury, Option -24 for HPS, Option -29 for White Son.

##### Socket

- Medium base. Glazed porcelain.
- Nickel-plated brass screw shell. Silicone leads.

##### Reflectors

- Upper: Parabolic specular Alzak® aluminum. Assembly swivels 358° and tilts up to 30°.
- Lower: Low brightness parabolic specular Alzak aluminum, self-flanged.
- Thirteen optional specular Alzak or SofTex lower reflector finishes available.

##### Lens

- UV absorbing tempered Industrix mounted to upper reflector. (Medium distribution)
- UV absorbing tempered prismatic C#73 glass instead (Option -15). (Wider distribution)
- UV absorbing clear tempered glass instead (Option -28). (Narrower distribution)

##### Ballast Assembly

- WhisperPack™ fully encapsulated 180°C rated HPF ballast: 3 year warranty.
- Premium Class H; CWA 10:10 regulation.
- Capacitor supplied.
- 120 volt standard or see optional voltages.
- Cool, quiet, long-life. Silicone leads.
- Visible and easily serviced in all ceilings including dry wall.

##### Fuse

- Fused primary. Renewable. Aids servicing.

##### Housing

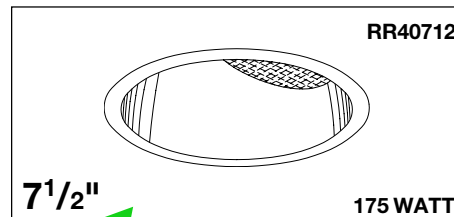
- Acrylic enameled aluminum.
- Cool: Dissipates heat across entire surface area. Ventilated.
- Rustproof; Exceeds 1000 hour ASTM 5% salt spray test.
- Entire luminaire serviced through removable reflector. For top access see Option -TA.
- Built-in plaster frame.

##### Outlet Box

- Prewired 14 GA (NEC) galvanized steel, UL listed; with removable insulated cover.
- 1/2" and 3/4" knockouts.

##### Installation

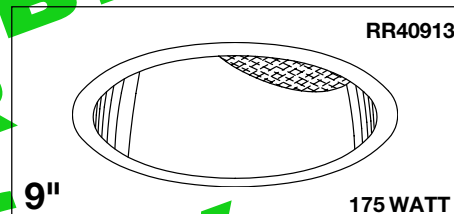
- 27" galvanized hanger bars supplied (2).



7 1/2"

175 WATT

**Ideal for Retail Highlighting**



9"

175 WATT

**Fully Adjustable Atrium Lighting**

- 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

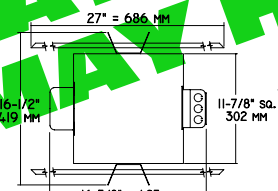
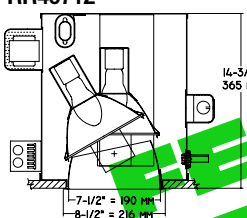
- Complete standard fixture.

##### Thermal Protection

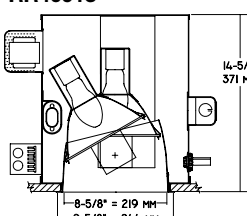
- Per current NEC.

#### Performance at a Glance

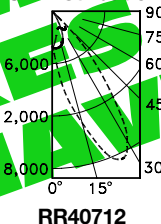
##### RR40712



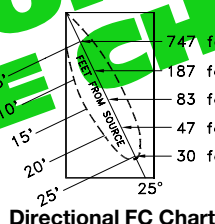
##### RR40913



##### CP Distribution

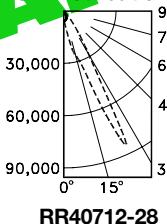


RR40712

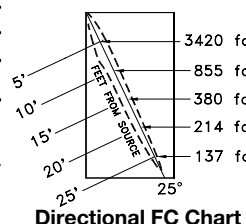


Directional FC Chart

##### CP Distribution

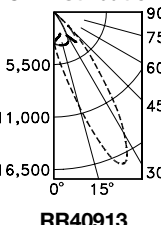


RR40712-28

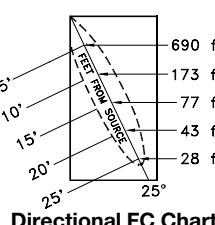


Directional FC Chart

##### CP Distribution

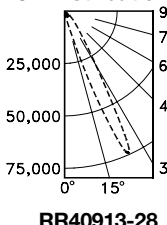


RR40913

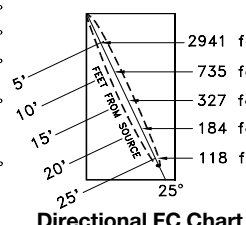


Directional FC Chart

##### CP Distribution



RR40913-28



Directional FC Chart

## THE KIRLIN COMPANY

3401 EAST JEFFERSON AVENUE • DETROIT, MICHIGAN 48207-4232  
(313) 259-6400 • Fax: (313) 259-9409 OR (313) 259-3121 • www.light-link.com/kirlin

PRECISION LIGHTING  
METAL HALIDE

MAXIMUM WATTAGE  
**175 E/ED-17**  
**175 E/ED-17**

CATALOG NUMBERS  
**RR40712**  
**RR40913**

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Alzak® is a registered trademark of ALCOA.

RR40712
RR40913

RECESSED ROUND: 175 WATT MEDIUM BASE METAL HALIDE



Detailed Photometry - Installed Fixture

FROM I.T.L. (BOULDER, CO)

RR40703: TEST NUMBER 42591
RR40703-15: TEST NUMBER 42592
RR40703-28: TEST NUMBER 42593

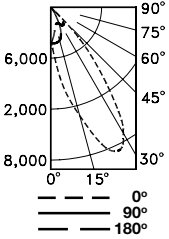
RR40904: TEST NUMBER 43898
RR40904-15: TEST NUMBER 43896
RR40904-28: TEST NUMBER 43897

RR40712

\*LER = 23.2 •AEC = \$10.35

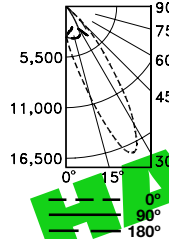
RR40913

\*LER = 34.9 •AEC = \$6.88



CANDLEPOWER DISTRIBUTION table for RR40712 with columns for lumens (0.0, 45.0, 90.0, 135.0, 180.0) and rows for foot-candle levels (0, 15, 25, 35, 45, 55, 65, 75, 85, 90).

COEFFICIENTS OF UTILIZATION table for RR40712 with columns for foot-candle levels and rows for angles (0, 15, 30, 45, 60, 75, 90).



CANDLEPOWER DISTRIBUTION table for RR40913 with columns for lumens (0.0, 45.0, 90.0, 135.0, 180.0) and rows for foot-candle levels (0, 15, 25, 35, 45, 55, 65, 75, 85, 90).

COEFFICIENTS OF UTILIZATION table for RR40913 with columns for foot-candle levels and rows for angles (0, 15, 30, 45, 60, 75, 90).

EFFICIENCY = 53.9%

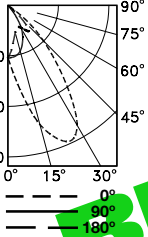
EFFICIENCY = 51.9%

RR40712-15

\*LER = 22.4 •AEC = \$10.72

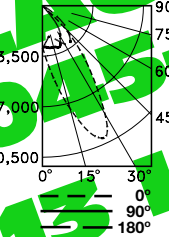
RR40913-15

\*LER = 34.6 •AEC = \$6.94



CANDLEPOWER DISTRIBUTION table for RR40712-15 with columns for lumens (0.0, 45.0, 90.0, 135.0, 180.0) and rows for foot-candle levels (0, 15, 25, 35, 45, 55, 65, 75, 85, 90).

COEFFICIENTS OF UTILIZATION table for RR40712-15 with columns for foot-candle levels and rows for angles (0, 15, 30, 45, 60, 75, 90).



CANDLEPOWER DISTRIBUTION table for RR40913-15 with columns for lumens (0.0, 45.0, 90.0, 135.0, 180.0) and rows for foot-candle levels (0, 15, 25, 35, 45, 55, 65, 75, 85, 90).

COEFFICIENTS OF UTILIZATION table for RR40913-15 with columns for foot-candle levels and rows for angles (0, 15, 30, 45, 60, 75, 90).

EFFICIENCY = 54.3%

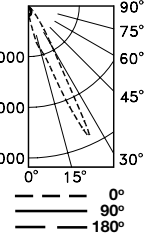
EFFICIENCY = 50.6%

RR40712-28

\*LER = 24.1 •AEC = \$9.95

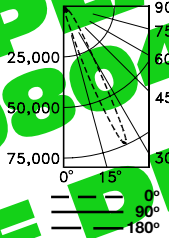
RR40913-28

\*LER = 35.5 •AEC = \$6.76



CANDLEPOWER DISTRIBUTION table for RR40712-28 with columns for lumens (0.0, 45.0, 90.0, 135.0, 180.0) and rows for foot-candle levels (0, 15, 25, 35, 45, 55, 65, 75, 85, 90).

COEFFICIENTS OF UTILIZATION table for RR40712-28 with columns for foot-candle levels and rows for angles (0, 15, 30, 45, 60, 75, 90).



CANDLEPOWER DISTRIBUTION table for RR40913-28 with columns for lumens (0.0, 45.0, 90.0, 135.0, 180.0) and rows for foot-candle levels (0, 15, 25, 35, 45, 55, 65, 75, 85, 90).

COEFFICIENTS OF UTILIZATION table for RR40913-28 with columns for foot-candle levels and rows for angles (0, 15, 30, 45, 60, 75, 90).

EFFICIENCY = 60.2%

EFFICIENCY = 57.0%

\* LER = Luminaire Efficacy 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).

Directional Fixtures Note: The zonal cavity calculation technique is accurate when luminaires with symmetric candela distributions are employed...

Options

- 15 UV absorbing tempered prismatic C#73 flat glass instead. Wider distribution.
-16 Champagne Gold Alzak® lower cone. (CP x .98)
-23 Mercury ballast instead. 100ME or see -43
-24 HPS ballast instead. 150ME or see Option -43
-28 Clear tempered glass instead. Narrower beam
-29 White Son 100W 120V ballast instead (ED 17 lamp: 85 CRI / 2700°K / 10,000 hour life)
-30 White self-flanged lower cone. (CP x .98)
-31 White flange (only) on Alzak lower reflector.
-32 Trim extender. Broadens trim flange O.D. by 1".
-43 Lower wattage medium base - specify: Metal Halide: 100, 100, 70, 50, 35; Mercury: 75, 50; HPS: 150, 70, 50, 35; White Son: 50.
-45 Gasket above reflector flange.
-49 Extra circuit DCB socket (100W max.) Must not be energized simultaneously with main source.
-58 277 volt 60 Hz. ballast instead.
-63 Dune specular Alzak lower cone. (CP x .97)
-65 Standby relay and DCB socket. (100W max.) With fixture energized, provides immediate light during HID outage. Also see Option -66.
-66 Time delay standby relay and DCB socket. (100 watt max.) When energized, provides light until HID reaches 70% output.
-69 Wheat specular Alzak lower cone. (CP x .97)
-70 SofTex Clear lower cone. (CP x .98)
-71 SofTex Dune lower cone. (CP x .95)
-72 Black anodized Alzak lower cone. (CP x .80)
-82 Sloped ceiling adapter. Specify slope in 5° increments up to 30°.
-90 SofTex Champagne Gold lower cone. (CP x .96)
-91 SofTex Wheat lower cone. (CP x .95)
-92 Umber anodized Alzak lower cone. (CP x .90)
-93 Pewter anodized Alzak lower cone. (CP x .95)
-94 Specular or SofTex custom color / finish lower cone. Consult factory.
-97 Other voltage ballast. Consult factory.
-99 Special modification. Consult factory.
-HL High to Low light output - provides 100% to 50% bi-level lighting. 120 or 277V only for 175W MH or 150 HPS only. Requires separate control circuit.
-LP With clear lamp. Specify source, wattage and color temperature (3700°K standard for MH.) Consult factory for other color temperatures.
-LS With tungsten halogen standby lamp. (100W max.) Use only with Options -49, -65 or -66.
-OG OptiGroove black seamless tapered aluminum lower reflector. White trim, self-flanged. (CP x .82)
-TA Top access modification for servicing from above.
Note: All optional lower cones are self-flanged.

SUBMITTAL DATA

APPROVAL STAMP

JOB NAME
TYPE
WATTAGE VOLTAGE
CATALOG NUMBER

LIMITED WARRANTY: CATALOGED KIRLIN FIXTURES ARE WARRANTED FREE OF DEFECTS IN WORKMANSHIP... BULLETIN 95FR FEBRUARY 1999