

## Type IC Alzak® 100 Watt Downlights

### Features

#### Lamp / Socket

- Designed for:
  - RR20441: Vertical 100 watt (max.) A-17 inside frosted incandescent lamp (by others).
  - RR20642: Vertical 100 watt (max.) A-19 inside frosted incandescent lamp (by others).
- Dimmable (controls by others).
- Glazed porcelain medium base socket.

#### Reflector

- Self-flanged compound curved specular Alzak aluminum.
- Ten optional self-flanged colors and finishes available. See Options.

#### Housing

- Acrylic enameled 100% aluminum.
- Rustproof: Exceeds 1000 hour ASTM 5% salt spray test.
- Cool: Dissipates heat across entire surface area.
- Entire luminaire visible and serviceable from below through removable reflector.
- Built-in plaster frame. Also see Option -79.

#### Outlet Box

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

#### Installation

- 27" galvanized flange bars supplied (2).
- Fully adjustable universal galvanized mounting brackets supplied (2). Accepts 3/4" or 1-1/4" lathers channel or 1/2" T.S. conduit.
- Recesses indoor or outdoor in covered ceilings.

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

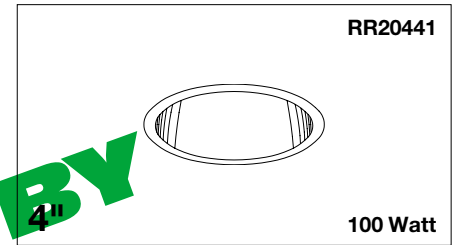
- Wet, damp or dry locations, covered ceilings.
- Through-branch circuit conductors (6 #12 AWG 90°C).
- Type IC - approved for direct contact with insulation.

#### Three Year Limited Warranty

- Complete standard fixture.

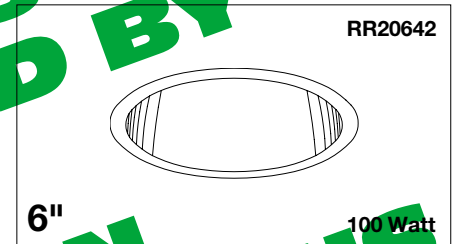
#### Thermal Protection (Per Current NEC)

- Thermal protector included which provides automatic cut-off if rated wattage is exceeded.



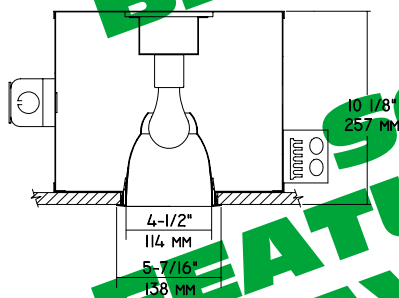
**Inconspicuous Apertures  
Attractive Low Brightness  
Versatile S/MH of 1.0 - 1.1**

**10 Optional Reflector Finishes**

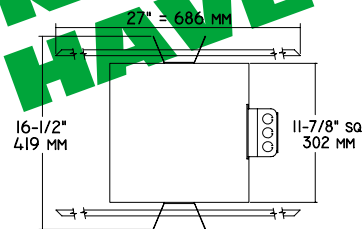
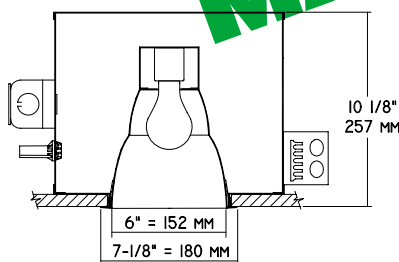


### Performance at a Glance

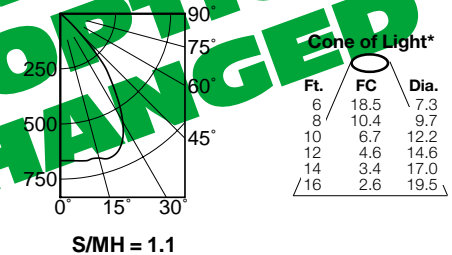
RR20441



RR20642



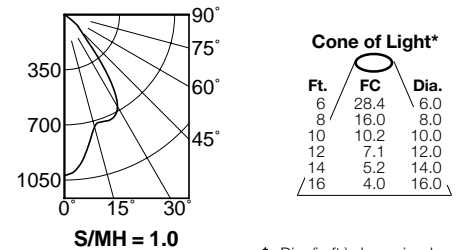
RR20441



#### Cone of Light Key

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

RR20642



\* Dia. (in ft.) shown is where FC value is half the FC at nadir.

## THE KIRLIN COMPANY

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### NEW MILLENNIUM

TUNGSTEN HALOGEN and  
INCANDESCENT LIGHTING

#### LAMP

A-17  
A-19

#### MAXIMUM WATTAGE

100  
100

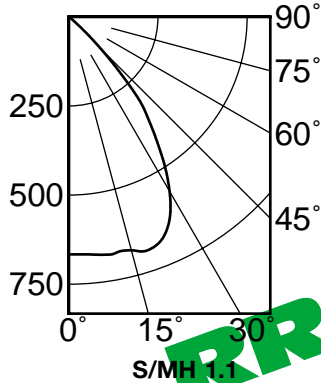
#### CATALOG NUMBERS

RR20441  
RR20642

Detailed Photometry - Installed Fixture

FROM I.T.L. (BOULDER, CO) RR20441: TEST NUMBER 47085  
RR20642: TEST NUMBER 47289

RR20441 100W



EFFICIENCY = 53.5%

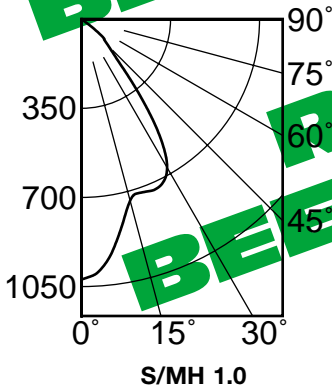
CANDLEPOWER DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	666	666	666	666	666
5	669	669	669	669	669
15	678	678	678	678	678
25	654	654	654	654	654
35	436	436	436	436	436
45	128	128	128	128	128
55	2	2	2	2	2
65	1	1	1	1	1
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			
	70	50	30	10	50	30	10
RC							
RW	61	59	58	56	56	55	54
	57	55	52	50	52	50	49
	54	51	48	45	48	46	44
	51	47	44	41	45	42	40
	48	43	40	37	42	39	37
	45	40	37	34	39	36	34
	43	37	34	32	36	33	31
	40	35	31	29	34	31	29
	38	33	29	27	32	29	27
	36	31	27	25	30	27	25

RR20642 100W



EFFICIENCY = 61.9%

CANDLEPOWER DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	1022	1022	1022	1022	1022
5	975	975	975	975	975
15	738	738	738	738	738
25	725	725	725	725	725
35	501	501	501	501	501
45	151	151	151	151	151
55	3	3	3	3	3
65	1	1	1	1	1
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			
	70	50	30	10	50	30	10
RC							
RW	70	68	67	65	64	63	62
	66	63	60	58	60	58	56
	62	58	55	52	56	53	51
	59	54	50	47	52	49	46
	56	50	46	43	48	45	42
	52	46	42	39	45	42	39
	49	43	39	36	42	39	36
	47	40	36	33	39	36	33
	44	38	34	31	37	33	31
	42	35	31	29	35	31	29

Estimated Multipliers

- 16 Champagne Gold Alzak®: CP x .93
- 63 Dune Alzak: CP x .90
- 69 Wheat Alzak: CP x .88
- 70 SofTex Clear: CP x .90
- 71 SofTex Dune: CP x .81
- 90 SofTex Champagne Gold: CP x .84
- 91 SofTex Wheat: CP x .80
- 93 Pewter Alzak: CP x .85
- OG Black OptiGroove: CP x .75

Options

- 16 Champagne Gold specular Alzak self-flanged reflector. (CP x .93)
- 31 White flange (only) on self-flanged reflector.
- 32 Trim extender. Broadens trim flange O.D. by 1" to cover larger ceiling opening.
- 45 Gasket above reflector flange. Stops dust streaks on ceiling.
- 63 Dune specular Alzak self-flanged reflector. (CP x .90)
- 69 Wheat specular Alzak self-flanged reflector. (CP x .88)
- 70 SofTex Clear softly etched self-flanged reflector. Resists smudges. (CP x .90)
- 71 SofTex Dune softly etched self-flanged reflector. Resists smudges. (CP x .81)
- 79 Extension collar for up to 2" thick ceilings.
- 82 Sloped ceiling adapter for RR20642 only. Specify slope in 5° increments up to 30°.
- 90 SofTex Champagne Gold softly etched self-flanged reflector. Resists smudges. (CP x .84)
- 91 SofTex Wheat softly etched self-flanged reflector. Resists smudges. (CP x .80)
- 93 Pewter specular Alzak self-flanged reflector. (CP x .85)
- 94 Specular or SofTex custom color/finish reflector, self-flanged. Consult factory.
- 99 Special modification. Consult factory.
- OG OptiGroove black seamless tapered aluminum reflector for RR20642 only. White trim, self-flanged. (CP x .75)

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 this option will replace or repair such fixture or refund the purchase price on presentation of proof of purchase and defective fixture at the offices of manufacturer within the first year of original shipment. Ability 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 for the fixture in place of all other warranties, expressed or implied. Seller does not warrant as to merchantability or fitness for a particular use. A disclaimer of warranty or amendment to this 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.

RR20441 HAS BEEN REPLACED BY IRR-04127

RR20642 HAS BEEN REPLACED BY IRR-05128

SOME DESIGN OPTIONS MAY HAVE BEEN CHANGED