

### 7 1/2" Downlights: Visual Comfort with High Efficiency

#### Features

##### Lamp / Socket

- Designed for:
  - RR20702: Vertical 200 watt (max.) A-23 inside frosted incandescent lamp (by others).
  - RR20703: Vertical 300 watt (max.) PS-25 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. For MRI version, see -MR.
- 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 hanger 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

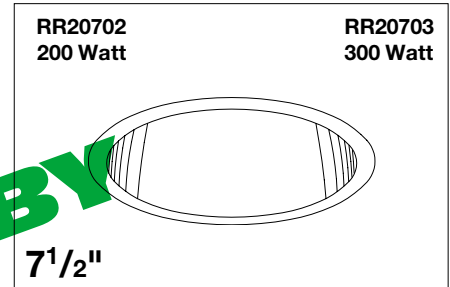
- Wet, damp or dry locations, covered ceilings.
- Through-branch circuit conductors (6 #12 AWG 90°C).

##### Three Year Limited Warranty

- Complete standard fixture

##### Thermal Protection (Per Current NEC)

- Thermal protector included which provides automatic cut-off if rated temperature is exceeded. (Insulation related)



RR20702  
200 Watt

RR20703  
300 Watt

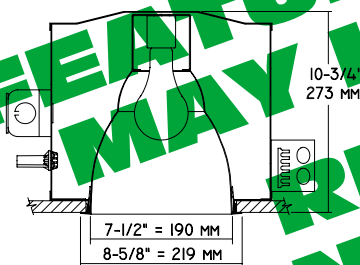
**10 Optional Reflector Finishes**

**Low Brightness**  
**Adaptable S/MH: 1.1 - 1.2**

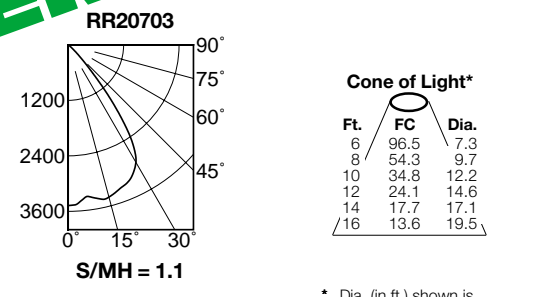
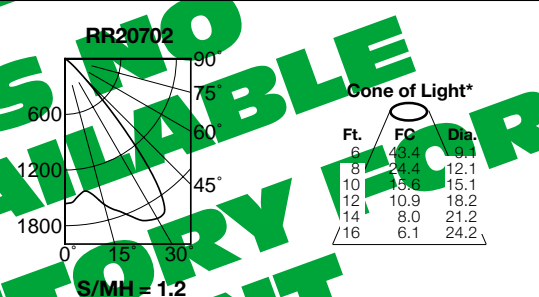
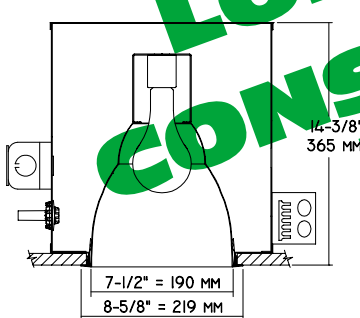
**71 - 73% Efficiencies**

#### Performance at a Glance

RR20702



RR20703



**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.

## THE KIRLIN COMPANY

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

NEW MILLENNIUM	LAMP	MAXIMUM WATTAGE	CATALOG NUMBERS
TUNGSTEN HALOGEN and INCANDESCENT LIGHTING	A-23 PS-25	200 300	RR20702 RR20703

THE KIRLIN COMPANY RESERVES THE RIGHT TO CHANGE, WITHOUT NOTICE, DETAILS OR SPECIFICATIONS IN PRODUCT DESIGN.

Alzak® is a registered trademark of ALCOA.

**RR20702  
RR20703**

**RECESSED ROUND: 200 A-23 / 300 PS-25 (MAX.) INCANDESCENT DOWNLIGHTS**



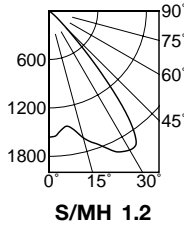
**Detailed Photometry - Installed Fixture**

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

RR20702 (200W): TEST NUMBER 46968  
RR20702 (150W): TEST NUMBER 47259  
RR20703 (300W): TEST NUMBER 47264

LIMITED WARRANTY: CATALOGUED KIRLIN FIXTURES ARE WARRANTED FREE OF DEFECTS IN WORKMANSHIP OR MATERIAL FOR THREE YEARS FROM DATE OF PURCHASE. INSTALLATION TO N.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 three 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 to the buyer in place of all other warranties, expressed or implied. Seller does not warrant as to merchantability or fitness for a particular use, nor will any oral statement constitute a warranty or amend this specific warranty. Abnormal use, abuse of the fixture, improper installation, repair, or modification of the fixture without prior written authorization from the manufacturer will void the warranty void.

**RR20702  
200 WATT**

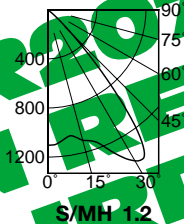


S/MH 1.2  
EFFICIENCY = 73.3%

CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	1563	1563	1563	1563	1563
5	1497	1497	1497	1497	1497
15	1625	1625	1625	1625	1625
25	1919	1919	1919	1919	1919
35	1828	1828	1828	1828	1828
45	311	311	311	311	311
55	15	15	15	15	15
65	5	5	5	5	5
75	2	2	2	2	2
85	1	1	1	1	1
90	0	0	0	0	0

COEFFICIENTS OF UTILIZATION							
RF	20						
	80			50			
RC	70	50	30	10	50	30	
1	83	80	78	77	76	74	73
2	78	74	71	68	70	68	66
3	73	68	64	61	65	62	59
4	69	63	58	55	60	57	54
5	65	58	53	50	56	52	49
6	61	53	49	45	52	48	44
7	57	48	44	41	48	44	41
8	53	44	40	37	44	40	37
9	51	43	38	34	41	37	34
10	48	40	35	32	39	34	31

**RR20702  
150 WATT**

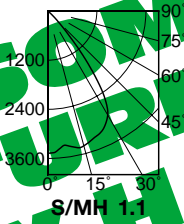


S/MH 1.2  
EFFICIENCY = 72.4%

CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	1104	1104	1104	1104	1104
5	1085	1085	1085	1085	1085
15	1100	1100	1100	1100	1100
25	1289	1289	1289	1289	1289
35	1394	1354	1354	1354	1254
45	279	279	279	279	279
55	5	5	5	5	5
65	3	3	3	3	3
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	
1	82	80	78	76	75	74	72
2	77	73	70	67	69	67	65
3	72	67	63	60	64	61	58
4	68	62	57	54	59	56	53
5	64	57	52	49	55	51	48
6	60	52	48	44	51	47	43
7	59	48	44	40	47	43	40
8	53	45	40	36	44	40	36
9	50	42	37	33	40	36	33
10	47	39	34	31	38	33	30

**RR20703  
300 WATT**



S/MH 1.1  
EFFICIENCY = 70.5%

CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	3475	3475	3475	3475	3475
5	3372	3372	3372	3372	3372
15	3408	3408	3408	3408	3408
25	3193	3193	3193	3193	3193
35	2206	2206	2206	2206	2206
45	330	330	330	330	330
55	5	5	5	5	5
65	3	3	3	3	3
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	
1	80	78	76	74	73	72	71
2	76	72	69	67	69	66	64
3	72	67	63	60	64	61	59
4	68	62	58	55	60	57	54
5	64	57	53	50	56	52	49
6	60	52	48	44	51	47	43
7	59	48	44	40	47	43	40
8	53	45	40	36	43	40	36
9	50	42	37	33	40	36	33
10	47	39	34	31	38	33	30

**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.
- 58 277/120V stepdown transformer for 277 volt line input, prewired into fixture.
- 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. 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.
- MR Converted to non-ferrous construction for MRI use.
- OG OptiGroove black seamless tapered aluminum reflector. White trim, self-flanged. (CP x .75)

**SUBMITTAL DATA**

**APPROVAL STAMP**

JOB NAME \_\_\_\_\_

TYPE \_\_\_\_\_

WATTAGE \_\_\_\_\_ VOLTAGE \_\_\_\_\_

CATALOG NUMBER \_\_\_\_\_