

Small Apertures with Versatile S/MH of 1.0 - 1.1

Features

Lamp / Socket

- Designed for:
 - RR20400: Vertical 100 watt (max.) A-19 inside frosted incandescent lamp (by others).
 - RR20601: Vertical 150 watt (max.) A-21 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

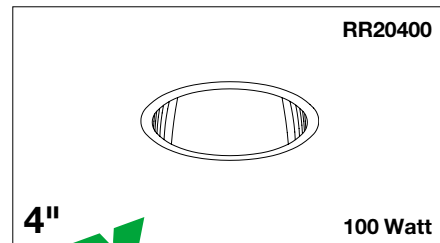
- Wet, damp or dry locations, covered ceilings.
- Through-branch circuit conductors (6 #12 AWG 90°C).

Three Year Limited Warranty

- Complete standard fixture.

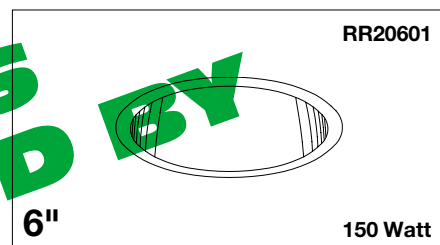
Thermal Protection (Per Current NEC)

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



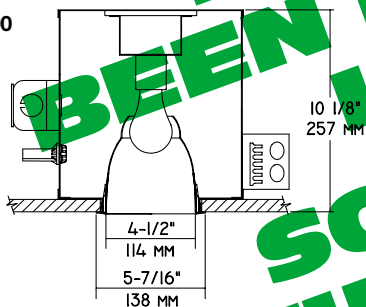
**Compatible Downlights
Complement Every Decor
Inconspicuous Apertures
Low Brightness**

10 Optional Reflector Finishes

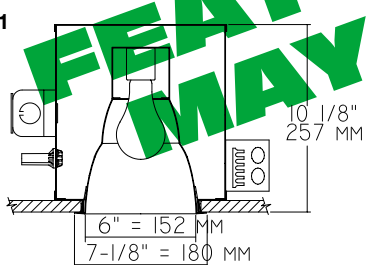


Performance at a Glance

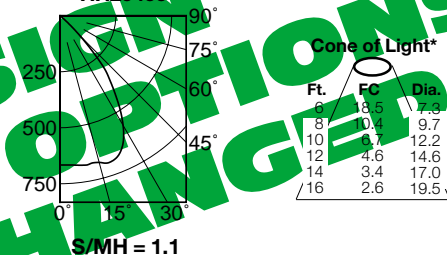
RR20400



RR20601



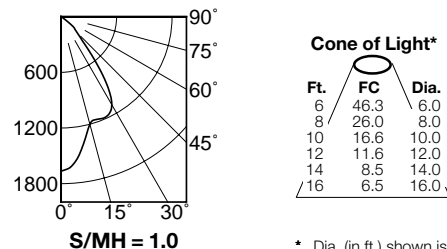
RR20400



Cone of Light Key

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

RR20601



Cone of Light*

- * 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-19
A-21

MAXIMUM WATTAGE

100
150

CATALOG NUMBERS

RR20400
RR20601

**RR20400
RR20601**

RECESSED ROUND: 100 A-19/ 150 A-21 (MAX.) INCANDESCENT DOWNLIGHTS

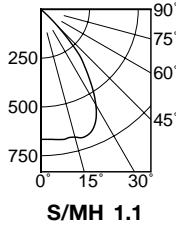


Detailed Photometry - Installed Fixture

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

RR20400 (100W): TEST NUMBER 47085
RR20601 (150W): TEST NUMBER 46966
RR20601 (100W): TEST NUMBER 47289

**RR20400
100 WATT**

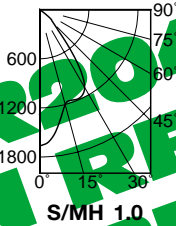


EFFICIENCY = 53.5%

	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

RF	COEFFICIENTS OF UTILIZATION						
	RC	80			50		
		70	50	30	10	50	30
1	61	59	58	56	56	55	54
2	57	55	52	50	52	50	49
3	54	51	48	45	48	46	44
4	51	47	44	41	45	42	40
5	48	43	40	37	42	39	37
6	45	40	37	34	39	36	34
7	43	37	34	32	36	33	31
8	40	35	32	29	34	31	29
9	38	33	29	27	32	29	27
10	36	31	27	25	30	27	25

**RR20601
150 WATT**

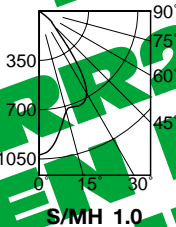


EFFICIENCY = 61.9%

	CANDLEPOWER DISTRIBUTION				
	0.0	22.5	45.0	67.5	90.0
0	1665	1665	1665	1665	1665
5	1588	1588	1588	1588	1588
15	1201	1201	1201	1201	1201
25	1180	1160	1160	1160	1160
35	816	816	816	816	816
45	246	246	246	246	246
55	5	5	5	5	5
65	1	1	1	1	1
75	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0

RF	COEFFICIENTS OF UTILIZATION						
	RC	80			50		
		70	50	30	10	50	30
1	70	68	67	65	64	63	62
2	66	63	60	58	60	58	56
3	62	58	55	52	56	53	51
4	59	54	50	47	52	49	46
5	56	50	46	43	48	45	42
6	52	46	42	39	45	42	39
7	49	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	35	31	29

**RR20601
100 WATT**



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

RF	COEFFICIENTS OF UTILIZATION						
	RC	80			50		
		70	50	30	10	50	30
1	70	68	67	65	64	63	62
2	66	63	60	58	60	58	56
3	62	58	55	52	56	53	51
4	59	54	50	47	52	49	46
5	56	50	46	43	48	45	42
6	52	46	42	39	45	42	39
7	49	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	35	31	29

Estimated Multipliers

- 16 Champagne Gold Alzak®: CP x .98
- 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 .98)
- 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 for RR20601 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.
- MR Converted to non-ferrous construction for MRI use. (RR20601 only)
- OG OptiGroove black seamless tapered aluminum reflector for RR20601 only. White trim, self-flanged. (CP x .75)

SUBMITTAL DATA

APPROVAL STAMP

JOB NAME _____

TYPE _____

WATTAGE _____ VOLTAGE _____

CATALOG NUMBER _____

LIMITED WARRANTY: CATALOGED 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.