

Tungsten Halogen Downlights: Atrium, Church, Mall

Features

Lamp / Socket Assembly

- Designed for: 500 watt (maximum) PAR 56 tungsten halogen lamp (by others).
- Rated 4000 hour life; 100 CRI.
- Dimmable (controls by others).
- Tilts 90° for relamping.
- Safety tempered prismatic C#73 flat glass converts oval beam pattern to round.
- See Option -28 for use with narrow spot lamp.
- Porcelain mogul end-prong vertical socket.

Reflector

- Self-flanged Parabolic specular Alzak® aluminum.
- Eleven 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. For top access, see Option -TA.

- 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

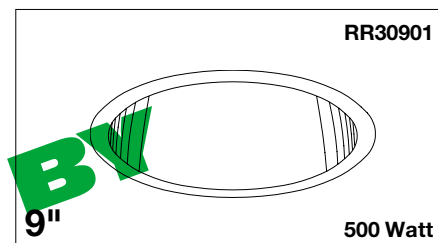
- Wet, damp or dry locations, covered ceilings.
- Through-branch circuit conductors (6 #12 AWG 90°C).

Three Year Limited Warranty

- Complete standard fixture.

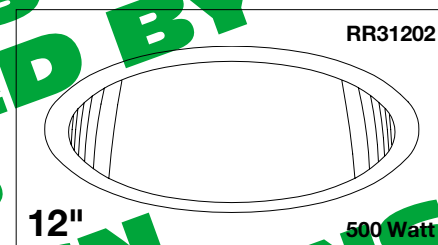
Thermal Protection (Per Current NEC)

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



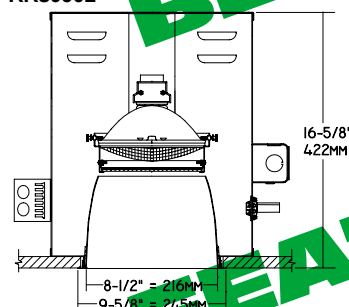
**Designed for PAR 56 Sources
500 Watt Maximum
Safety Glass Included**

11 Optional Reflector Finishes

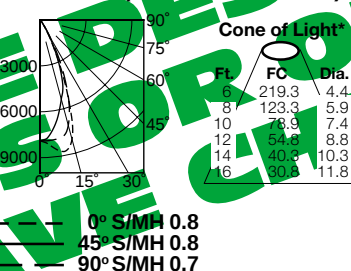


Performance at a Glance

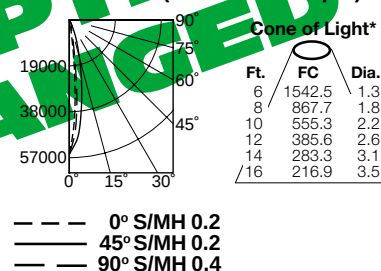
RR30901



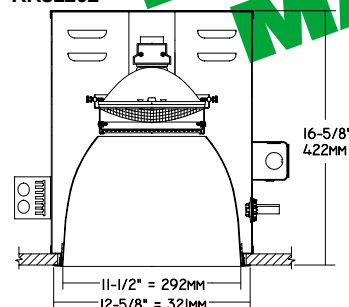
RR30901 (500W Medium Flood)



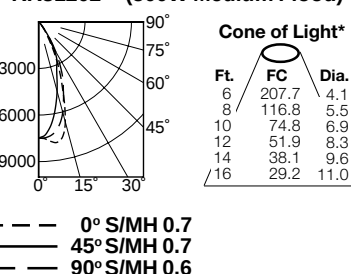
RR30901-28 (500W Narrow Spot)



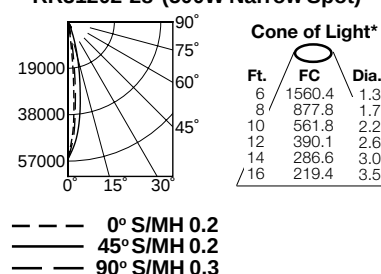
RR31202



RR31202 (500W Medium Flood)



RR31202-28 (500W Narrow Spot)



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
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PRECISION LIGHTING
TUNGSTEN HALOGEN

PAR 56
PAR 56

500
500

RR30901
RR31202

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

Alzak® is a registered trademark of ALCOA.

RR30901 RR31202

RECESSED ROUND: 500 WATT (MAX.) PAR 56 TUNGSTEN HALOGEN DOWNLIGHTS

KIRLIN

Detailed Photometry - Installed Fixture

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

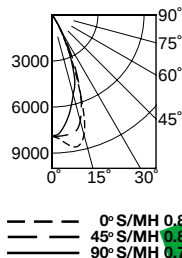
RR30901 (500W MFL): TEST # 43319
RR31202 (500W MFL): TEST # 43320

RR30901-28 (500W NSP): TEST # 43367
RR31202-28 (500W NSP): TEST # 43368

RR30901

500W MFL

Efficiency = 63.1%



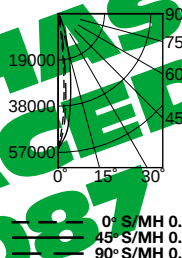
CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	7893	7893	7893	7893	7893
5	8269	8136	7899	7600	7506
15	8070	7876	7130	6064	5362
25	2554	2808	3278	2979	2576
35	376	381	464	475	431
45	133	133	138	138	122
55	22	22	22	22	22
65	0	0	0	0	0

COEFFICIENTS OF UTILIZATION					
RF	20				
RC	80				
RW	70	50	30	10	50
1	72	71	69	68	67
2	69	67	64	63	62
3	66	63	60	58	57
4	64	60	57	55	54
5	61	57	54	51	50
6	59	54	51	49	48
7	57	52	49	46	45
8	54	49	46	44	43
9	52	47	44	42	41
10	50	45	42	40	39

RR30901-28

500W NSP

Efficiency = 74.2%



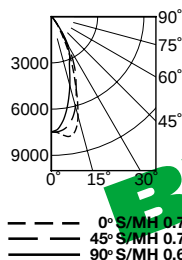
CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	5531	5531	5531	5531	5531
5	2649	2897	3593	4316	4637
15	2684	2770	3248	2661	16213
25	988	1084	1160	1353	1761
35	43	43	43	43	43
45	9	9	9	9	9
55	0	0	0	0	0
65	0	0	0	0	0
75	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0

COEFFICIENTS OF UTILIZATION					
RF	20				
RC	80				
RW	70	50	30	10	50
1	86	84	83	82	80
2	83	81	79	77	76
3	81	78	76	74	73
4	79	76	73	71	70
5	77	73	71	69	72
6	75	71	69	67	70
7	74	70	67	65	68
8	72	68	65	64	67
9	71	67	64	62	66
10	69	65	63	61	65

RR31202

500W MFL

Efficiency = 65.1%



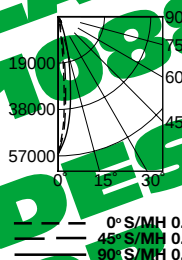
CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	7477	7477	7477	7477	7477
5	7682	7650	7419	7165	7042
15	6665	6574	6023	5091	4616
25	2823	3177	3512	3261	2818
35	364	333	303	281	251
45	133	133	138	138	122
55	22	22	22	22	22
65	0	0	0	0	0

COEFFICIENTS OF UTILIZATION					
RF	20				
RC	80				
RW	70	50	30	10	50
1	74	73	71	70	67
2	71	68	66	64	63
3	68	64	61	59	57
4	65	60	57	55	54
5	62	57	54	51	50
6	59	54	51	48	47
7	57	51	48	45	44
8	54	49	46	43	42
9	52	46	43	41	40
10	50	44	41	39	38

RR31202-28

500W NSP

Efficiency = 78.1%



CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	56176	56176	56176	56176	56176
5	26302	28002	34413	41704	45439
15	1951	1914	1438	7336	15204
25	1181	1385	1596	1788	2331
35	74	183	292	400	462
45	43	30	28	28	28
55	15	17	14	15	13
65	3	4	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				
RC	80				
RW	70	50	30	10	50
1	90	88	87	86	84
2	87	85	82	81	81
3	85	81	79	77	78
4	82	78	76	73	74
5	80	76	73	71	72
6	78	74	70	68	72
7	76	71	68	66	70
8	74	70	67	65	69
9	73	68	65	63	67
10	71	66	63	62	66

Estimated Multipliers

-16 Champagne Gold Alzak®: CP x .96
-30 White: CP x .98
-63 Dune Alzak®: CP x .97

-69 Wheat Alzak: CP x .97
-70 SoTex Clear: CP x .98
-71 SoTex Dune: CP x .95
-72 Black Alzak: CP x .80

-90 SoTex Champagne Gold: CP x .96
-91 SoTex Wheat: CP x .95
-93 Pewter Alzak: CP x .95
-OG Black OptiGroove: CP x .82

Options

- 16 Champagne Gold specular Alzak self-flanged reflector. (CP x .93)
- 28 Tempered clear glass for use with narrow spot lamp. See Option -LP.
- 30 All white reflector, self-flanged. (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.
- 63 Dune specular Alzak self-flanged reflector. (CP x .97)

- 69 Wheat specular Alzak self-flanged reflector. (CP x .97)
- 70 SoTex Clear softly etched self-flanged reflector. Resists smudges. (CP x .98)
- 71 SoTex Dune softly etched self-flanged reflector. Resists smudges. (CP x .95)
- 72 Black specular Alzak self-flanged reflector. (CP x .80)
- 79 Extension collar for up to 2" thick ceilings.
- 82 Sloped ceiling adapter for RR30901 only. Specify slope in 5° increments up to 30°.
- 90 SoTex Champagne Gold softly etched self-flanged reflector. Resists smudges. (CP x .96)
- 91 SoTex Wheat softly etched self-flanged

- reflector. Resists smudges. (CP x .95)
- 93 Pewter specular Alzak self-flanged reflector. (CP x .95)
- 94 Specular or SoTex custom color / finish reflector, self-flanged. Consult factory.
- 99 Special modification. Consult factory.
- LP With PAR 56 lamp. Specify wattage, beam spread and color temperature. With narrow spot, also select Option -28.
- OG OptiGroove black seamless tapered aluminum reflector. White trim, self-flanged. (CP x .82)
- TA Top access modification for servicing from above.

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 offices of manufacturer within three years of original purchase. 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 for 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, or repair or modification of the fixture without prior written authorization from the manufacturer will void this warranty.