

Atrium, Church, Mall, Convention Center Downlights

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

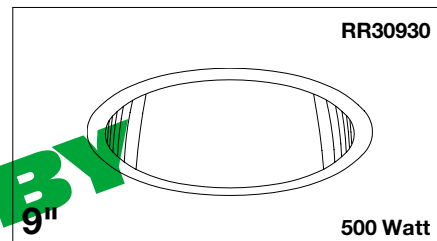
- Wet, damp or dry locations, covered ceilings.
- Through-branch circuit conductors (6 #12 AWG 105°C).

Three Year Limited Warranty

- Complete standard fixture.

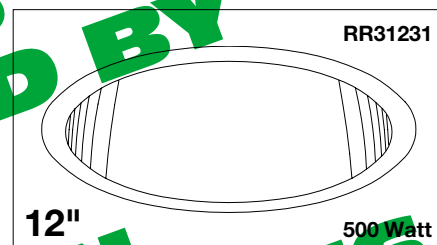
Thermal Protection (Per Current NEC)

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



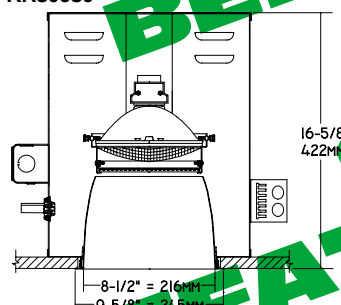
Designed for PAR 56 Sources
500 Watt Maximum
Safety Glass Included

11 Optional Reflector Finishes



Performance at a Glance

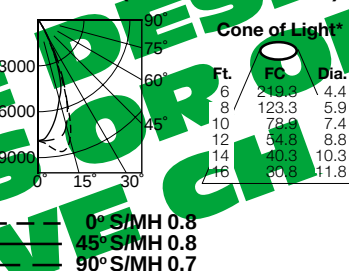
RR30930



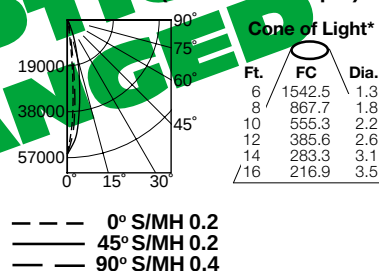
"MARKED SPACINGS CAUTION"

INSTALL WITH MINIMUM SPACINGS AS FOLLOWS: 2 FEET BETWEEN CENTERS OF ADJACENT FIXTURES; 1/2" BETWEEN FIXTURE TOP AND OVERHEAD BUILDING MEMBER; 1 FOOT BETWEEN FIXTURE CENTER AND SIDE WALL

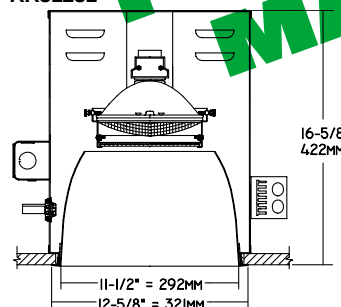
RR30930 (500W Medium Flood)



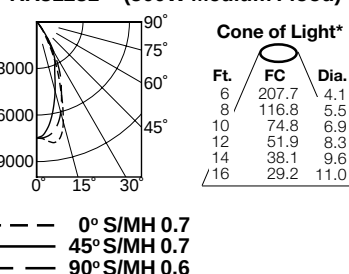
RR30930-28 (500W Narrow Spot)



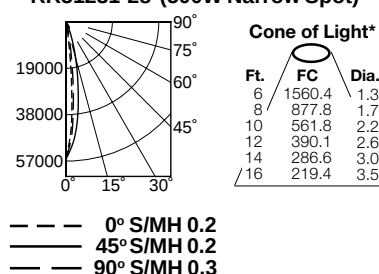
RR31231



RR31231 (500W Medium Flood)



RR31231-28 (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
(313) 259-6400 • Fax: (313) 259-9409 OR (313) 259-3121

NEW MILLENNIUM

TUNGSTEN HALOGEN and INCANDESCENT LIGHTING

LAMP

PAR 56
PAR 56

MAXIMUM WATTAGE

500
500

CATALOG NUMBERS

RR30930
RR31231

RR30930 RR31231

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

KIRLIN

Detailed Photometry - Installed Fixture

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

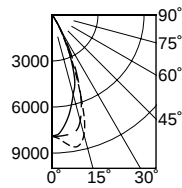
RR30930 (500W MFL): TEST # 43319
RR31231 (500W MFL): TEST # 43320

RR30930-28 (500W NSP): TEST # 43367
RR31231-28 (500W NSP): TEST # 43368

RR30930

500W MFL

Efficiency = 63.1%

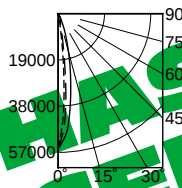


CANDLEPOWER DISTRIBUTION						COEFFICIENTS OF UTILIZATION														
	0.0	22.5	45.0	67.5	90.0	RF	20													
						RC	80													
						RW	70	50	30	10	50	30	10	50	30	10				
0	7893	7893	7893	7893	7893	1	72	71	69	68	67	66	65							
5	8269	8136	7899	7600	7506	2	69	67	64	63	64	62	61							
15	8070	7876	7130	6064	5362	3	66	63	60	58	61	58	57							
25	2554	2808	3278	2979	2576	4	64	60	57	55	58	55	54							
35	376	381	464	475	431	5	61	57	54	51	55	53	51							
45	133	133	138	138	122	6	59	54	51	49	53	50	48							
55	22	22	22	22	22	7	57	52	48	46	51	48	46							
65	0	0	0	0	0	8	54	49	46	44	48	46	44							
75	0	0	0	0	0	9	52	47	44	42	46	44	42							
85	0	0	0	0	0	10	50	45	42	40	45	42	40							
90	0	0	0	0	0															

RR30930-28

500W NSP

Efficiency = 74.2%

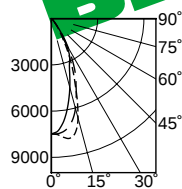


CANDLEPOWER DISTRIBUTION						COEFFICIENTS OF UTILIZATION														
	0.0	22.5	45.0	67.5	90.0	RF	20													
						RC	80													
						RW	70	50	30	10	50	30	10	50	30	10				
0	55531	55531	55531	55531	55531	1	86	84	83	82	80	79	78							
5	26499	26499	26499	26499	26499	2	83	81	79	77	77	76	75							
15	2684	2779	3249	2684	16213	3	81	78	76	74	75	74	72							
25	988	1084	1169	1353	1761	4	79	76	73	71	73	71	70							
35	43	43	43	43	43	5	77	73	71	69	72	70	68							
45	9	9	9	9	9	6	75	71	69	67	70	68	66							
55	0	0	0	0	0	7	74	70	67	65	68	66	65							
65	0	0	0	0	0	8	72	68	65	64	67	65	63							
75	0	0	0	0	0	9	71	67	64	62	66	64	62							
85	0	0	0	0	0	10	69	65	63	61	65	62	61							
90	0	0	0	0	0															

RR31231

500W MFL

Efficiency = 65.1%

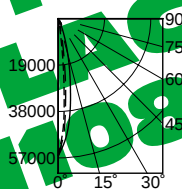


CANDLEPOWER DISTRIBUTION						COEFFICIENT OF UTILIZATION																
	0.0	22.5	45.0	67.5	90.0	RC	20															
							80															
							50															
						RW	70	50	30	10	50	30	10	50	30	10						
0	7477	7477	7477	7477	7477	1	74	73	71	70	69	67	67									
5	7682	7650	7419	7165	7042	2	71	68	66	64	65	63	62									
15	6665	6574	6023	5091	4616	3	68	64	61	59	61	59	57									
25	2823	3177	3612	3261	2818	4	65	60	57	55	58	56	54									
35	734	830	1083	1131	1031	5	62	57	54	51	55	53	50									
45	169	171	180	186	182	6	59	54	51	48	53	50	48									
55	48	48	48	49	50	7	57	51	48	45	50	47	45									
65	1	2	2	2	2	8	54	49	46	43	48	45	43									
75	0	0	0	0	0	9	52	46	43	41	46	43	40									
85	0	0	0	0	0	10	50	44	41	39	44	41	38									
90	0	0	0	0	0																	

RR31231-28

500W NSP

Efficiency = 78.1%



CANDLEPOWER DISTRIBUTION						COEFFICIENTS OF UTILIZATION														
	0.0	22.5	45.0	67.5	90.0	RF	20													
						RC	80													
						RW	70	50	30	10	50	30	10	50	30	10				
0	56176	56176	56176	56176	56176	1	90	88	87	86	84	83	82							
5	26302	26302	34419	41704	45439	2	87	85	82	81	81	79	78							
15	1357	1514	2438	7336	16204	3	85	81	79	77	78	76	75							
25	1181	1385	1590	1738	2631	4	82	78	76	73	76	74	72							
35	74	183	392	400	462	5	80	76	73	71	74	72	70							
45	43	80	28	28	28	6	78	74	70	68	72	70	68							
55	15	17	14	15	13	7	76	71	68	66	70	68	66							
65	3	3	3	3	3	8	74	70	67	65	69	66	64							
75	0	0	0	0	0	9	73	68	65	63	67	64	63							
85	0	0	0	0	0	10	71	66	63	62	66	63	61							
90	0	0	0	0	0															

Estimated Multipliers

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

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

-90 SoftTex Champagne Gold: CP x .96
-91 SoftTex 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 .98)
- 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 SoftTex Clear softly etched self-flanged reflector. Resists smudges. (CP x .98)
- 71 SoftTex 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 RR30930 only. Specify slope in 5° increments up to 30°.
- 90 SoftTex Champagne Gold softly etched self-flanged reflector. Resists smudges. (CP x .96)
- 91 SoftTex Wheat softly etched self-flanged

- reflector. Resists smudges. (CP x .95)
- 93 Pewter specular Alzak self-flanged reflector. (CP x .95)
- 94 Specular or SoftTex 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

JOB NAME _____

TYPE _____

WATTAGE _____ VOLTAGE _____

CATALOG NUMBER _____

APPROVAL STAMP

LIMITED WARRANTY: CATALOGED 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 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 by purchaser or any person. This warranty is supplied for the buyer's place of use only. The warranty is void if the fixture is used for any other purpose, or if the fixture is modified, altered, repaired, or if the fixture is used in an environment where the fixture is not designed to be used. Seller does not warrant as to merchantability or fitness for a particular use, nor warranty of statement constitute a warranty or amend this specific warranty. Abnormal use, abuse of installation, or repair or modification of the fixture without prior written authorization from the manufacturer will void the warranty. ©2007 KIRLIN