

CATALOG #	TYPE
JOB NAME	WATTAGE VOLTAGE

4" 1 PAR 16/20 75 WATT MAXIMUM

IRR-04091

Mini-PAR Adjustable in 4" Aperture

Specifications

Lamp / Socket Assembly

- Designed for tungsten halogen lamp (by others): 75W maximum PAR 16. Also will accommodate PAR 20 / R20.
- Rated 2000-2500 hour life. 100 CRI.
- Dimmable (controls by others).
- Swivels 360° and tilts up to 45°.
- Glazed porcelain medium base socket.

Reflector

- Self-flanged parabolic specular Alzak® aluminum.
- Optional reflector finishes, colors and square trim available.

Aluminum Housing

- Cool. Acrylic enameled 100% aluminum.
- Rustproof and corrosion resistant: Exceeds 1000 hour ASTM 5% salt spray test.
- Dissipates heat across entire surface area extending component life.

- Entire luminaire visible and serviceable from below through aperture.
 - Built-in plaster frame. Also see Option -79.
- #### Outlet Box and Thermal Protection
- UL listed J-box with insulated removable cover. Prewired 14 GA (NEC) with ½" and ¾" knockouts.
 - Thermal protector (per current NEC) provides automatic cut-off if rated temperature is exceeded.

Installation

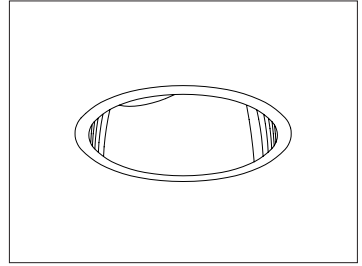
- 27" galvanized hanger bars supplied (2).
- Fully adjustable universal galvanized mounting brackets supplied (2).
- Recesses indoor or outdoor in covered ceilings.

UL, C-UL (Canada) Listings

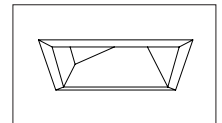
- Wet, damp or dry locations, covered ceilings.
- Through-branch conductors (6 #12 AWG 90°C).

Three Year Limited Warranty

- Complete standard fixture.



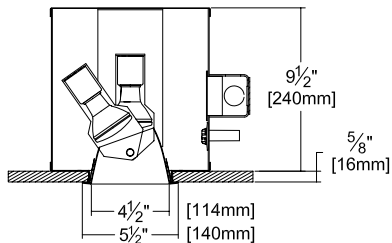
Recessed Round
Open
Adjustable



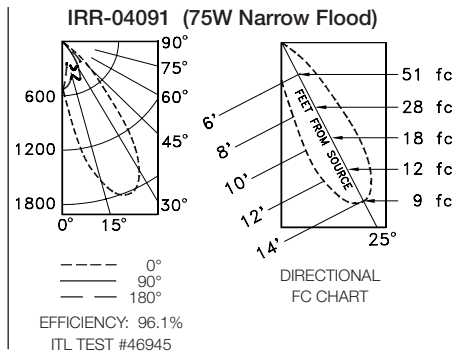
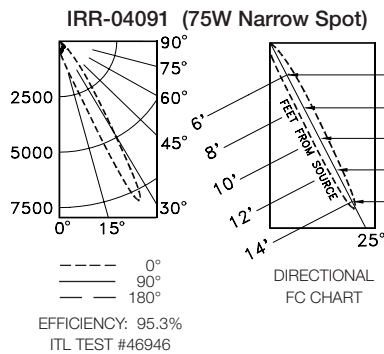
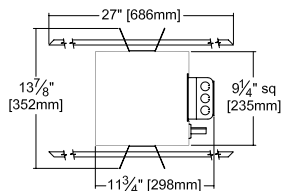
Square Reflector
Option -SQ

Performance at a Glance

IRR-04091



Ceiling Cut-out
5" Dia.



PHOTOMETRIC DATA
SHOWN AT 25° TILT

THE KIRLIN COMPANY

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

TUNGSTEN HALOGEN &
INCANDESCENT LIGHTING

MAXIMUM WATTAGE

75

CATALOG NUMBER

IRR-04091

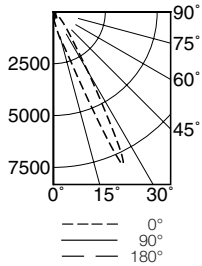
DUE TO OUR CONTINUING EFFORT TO IMPROVE PRODUCTS, TECHNICAL
INFORMATION IS SUBJECT TO CHANGE WITHOUT NOTICE.

Alzak® is a registered trademark of ALCOA.

Detailed Photometry - Installed Fixture

Photometry from I.T.L., Boulder, CO

IRR-04091 (75W Narrow Spot)



CANDLEPOWER DISTRIBUTION					
	0.0	45.0	90.0	135.0	180.0
0	293	293	293	293	293
5	432	505	381	249	203
15	1452	735	278	134	127
25	7973	808	255	171	139
35	1441	437	215	158	159
45	480	135	17	23	23
55	11	5	3	6	5
65	0	0	0	0	0
75	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0

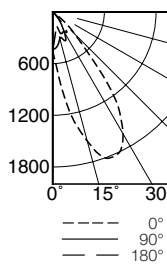
EFFICIENCY: 95.3%

COEFFICIENTS OF UTILIZATION									
RF	20								
RC	80					50			
RW	70	50	30	10	50	30	10	50	30
1	108	105	102	100	99	97	95	96	94
2	102	97	92	89	92	89	86	88	85
3	96	89	84	80	85	81	78	82	79
4	90	82	77	72	79	74	71	76	73
5	85	76	70	65	73	68	65	71	68
6	80	70	64	60	68	63	59	66	63
7	75	65	59	55	63	58	54	61	58
8	71	61	54	50	59	54	50	57	54
9	67	57	50	46	55	50	46	53	50
10	63	53	47	42	51	46	42	49	46

ITL TEST #46946



IRR-04091 (75W Narrow Flood)



CANDLEPOWER DISTRIBUTION					
	0.0	45.0	90.0	135.0	180.0
0	442	442	442	442	442
5	718	593	420	321	294
15	1551	903	322	182	151
25	1811	848	363	286	271
35	1313	485	179	216	287
45	360	145	33	48	71
55	30	3	6	13	18
65	0	0	0	0	0
75	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0

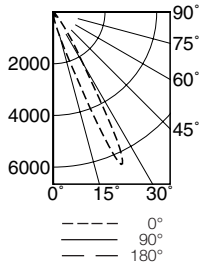
EFFICIENCY: 96.1%

COEFFICIENTS OF UTILIZATION									
RF	20								
RC	80					50			
RW	70	50	30	10	50	30	10	50	30
1	109	106	103	101	100	98	96	97	95
2	103	98	93	90	93	90	87	91	88
3	97	90	85	81	86	82	79	84	81
4	91	83	77	73	80	75	72	78	75
5	86	77	71	66	74	69	66	72	69
6	81	71	65	60	69	64	60	67	64
7	76	66	60	55	64	59	55	62	59
8	72	62	55	51	60	54	50	57	54
9	68	57	51	47	56	50	47	53	50
10	64	54	47	43	52	47	43	49	46

ITL TEST #46945



IRR-04091 (50W Narrow Spot)



CANDLEPOWER DISTRIBUTION					
	0.0	45.0	90.0	135.0	180.0
0	97	97	97	97	97
5	221	154	95	83	94
15	1015	297	101	118	105
25	6335	302	142	99	61
35	872	145	116	93	110
45	127	92	38	32	28
55	13	10	16	13	15
65	7	3	1	1	1
75	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0

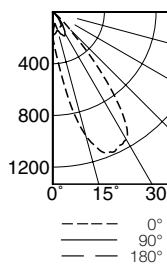
EFFICIENCY: 96.7%

COEFFICIENTS OF UTILIZATION									
RF	20								
RC	80					50			
RW	70	50	30	10	50	30	10	50	30
1	109	106	103	101	100	98	96	97	95
2	103	98	93	90	93	90	87	91	88
3	97	90	84	80	86	82	78	84	81
4	91	83	77	71	80	75	71	78	75
5	85	76	70	65	74	68	64	71	68
6	80	71	64	59	68	63	59	66	63
7	75	65	59	54	63	58	54	61	58
8	71	61	54	50	59	54	50	57	54
9	67	56	50	45	55	49	45	53	50
10	63	52	46	42	51	45	42	49	46

ITL TEST #46948



IRR-04091 (50W Narrow Flood)



CANDLEPOWER DISTRIBUTION					
	0.0	45.0	90.0	135.0	180.0
0	183	183	183	183	183
5	333	267	171	132	116
15	989	449	147	126	135
25	1169	504	203	173	133
35	920	256	146	120	107
45	184	59	54	56	53
55	19	7	13	16	19
65	0	0	0	0	0
75	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0

EFFICIENCY: 96.2%

COEFFICIENTS OF UTILIZATION									
RF	20								
RC	80					50			
RW	70	50	30	10	50	30	10	50	30
1	109	106	103	101	100	98	96	97	95
2	102	97	93	90	93	90	87	91	88
3	96	89	84	80	86	82	78	84	81
4	90	82	76	72	79	74	70	76	73
5	85	76	70	65	74	68	64	71	68
6	80	70	64	59	68	63	59	66	63
7	75	65	59	54	63	58	54	61	58
8	71	61	54	50	59	54	50	57	54
9	66	56	50	45	54	49	45	52	49
10	63	52	46	42	51	45	42	49	46

ITL TEST #46947



Options

Wattage and Voltage

- 58 277/120 volt stepdown transformer for 277 volt line input, prewired into fixture; with 277 volt thermal protector.

Trims

- 16 Champagne Gold specular Alzak reflector. (CP x .98)
- 30 All white reflector. (CP x .98)
- 31 White flange (only) on self-flanged reflector.

- 32 White oversize trim ring. Specify O.D.
- 45 Gasket between ceiling and reflector flange.
- 63 Dune specular Alzak reflector. (CP x .97)
- 69 Wheat specular Alzak reflector. (CP x .97)
- 70 Softex clear reflector. (CP x .98)
- 71 Softex Dune reflector. (CP x .95)
- 72 Black specular Alzak reflector. (CP x .80)
- 79 Extension collar for ceilings up to 2" thick.
- 91 Softex Wheat reflector. (CP x .95)
- 93 Pewter specular Alzak reflector. (CP x .95)
- 94 Custom color/finish. Specify. Consult factory.

- OG OptiGroove black seamless tapered aluminum reflector. White trim, self-flanged. (CP x .82)
- SQ 4.5" Square self-flanged clear specular reflector instead. (Ceiling cut-out 5.25" sq.)

Other

- 99 Special modification. Consult factory.
- LP With lamp. Specify wattage, beam spread and style (PAR 16, 20; R20).

SUBMITTAL DATA

JOB NAME

TYPE

WATTAGE

VOLTAGE

CATALOG NUMBER

APPROVAL STAMP