

Parabolic Downlights: Regressed Lens Optional Industrix Lens for Narrow Distribution

Features

Lamp

- Designed for:
175 watt clear E/ED-17 MH.
- See Option -43 for lower wattage.
- Option -23 for Mercury, Option -24 for HPS, Option -29 for White Son.

Socket

- Vertical. Medium base.
- Glazed porcelain. Silicone leads.
- Nickel-plated brass screw shell.

Reflector

- Specular Alzak® aluminum.

Trim Assembly

- Seamless tapered black OptiGroove with white flange. Self-flanged trim.
- UV absorbing tempered prismatic low brightness C#73 flat glass.
- Torsion springs retain snug fit to ceiling.
- Optional trims and lenses available.

Ballast Assembly

- WhisperPack™ fully encapsulated 180°C rated HPF ballast: 3 year warranty.
- Premium Class H; CWA 10:10 regulation. Capacitor supplied.
- 120 volt standard or see optional voltages

- Cool, quiet, long-life. Silicone leads.
- Visible and easily serviced in all ceilings including dry wall.

Fuse

- Fused primary. Renewable. Aids servicing.

Housing

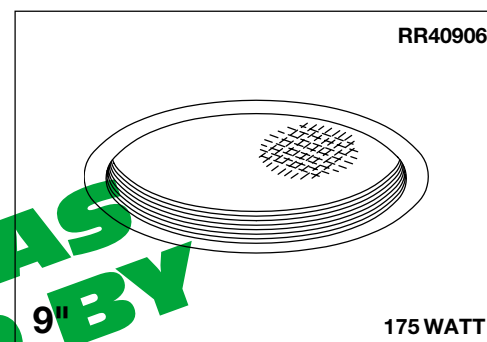
- Acrylic enameled aluminum.
- Cool: Dissipates heat across entire surface area. Ventilated.
- Rustproof: Exceeds 1000 hour ASTM 5% salt spray test.
- Entire luminaire serviced through removable trim assembly. For top access see Option -TA.
- Built-in plaster frame.

Outlet Box

- Prewired 14 GA (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 mounting brackets supplied (2).



12,800 CP at Nadir
S/MH = 0.7

- Recesses indoor or outdoor in covered locations.
- UL, C-UL (Canada) Listings**
- Wet, damp or dry locations, covered ceilings.
- Through-branch circuit conductors (6 #12).

Three Year Limited Warranty

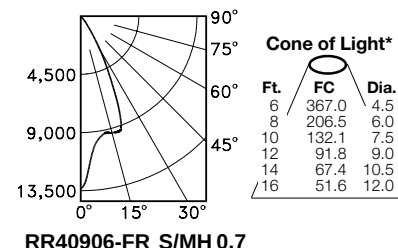
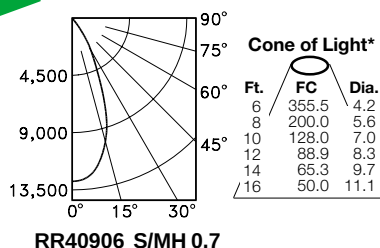
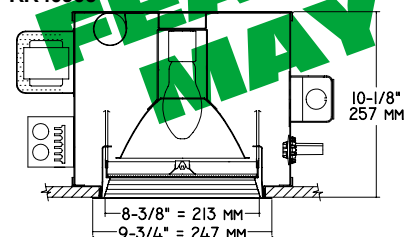
- Complete standard fixture.

Thermal Protection

- Per current NEC.

Performance at a Glance

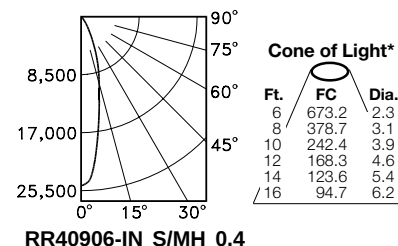
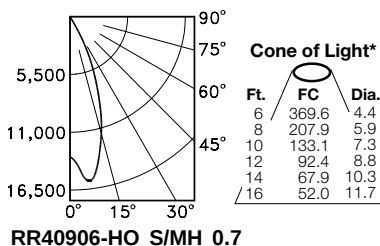
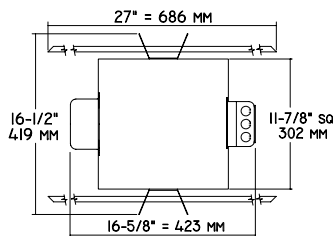
RR40906



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

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MAXIMUM WATTAGE

CATALOG NUMBERS

PRECISION LIGHTING
METAL HALIDE

175 E/ED-17

RR40906

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Alzak® is a registered trademark of ALCOA.

RR40906

RECESSED ROUND: 175 WATT MEDIUM BASE METAL HALIDE

Detailed Photometry - Installed Fixture

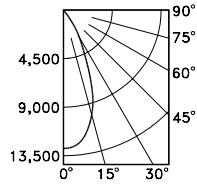
FROM I.T.L. (BOULDER, CO)

RR40906: TEST NUMBER 43883
RR40906-HO: TEST NUMBER 43886RR40906-FR: TEST NUMBER 43885
RR40906-IN: TEST NUMBER 43884

RR40906

*LER = 34.9

•AEC = \$6.88



EFFICIENCY = 56.4%

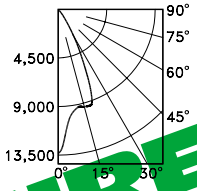
CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	12797	12797	12797	12797	12797
5	12516	12516	12516	12516	12516
15	9762	9762	9762	9762	9762
25	4868	4868	4868	4868	4868
35	1595	1595	1595	1595	1595
45	538	538	538	538	538
55	202	202	202	202	202
65	108	108	108	108	108
75	35	35	35	35	35
85	0	0	0	0	0
90	0	0	0	0	0

COEFFICIENTS OF UTILIZATION					
RF	20				
RC	80	50	30	10	50
RW	70	50	30	10	50
1	64	63	61	60	59
2	61	58	56	54	52
3	58	55	52	50	49
4	55	51	48	46	45
5	53	48	45	43	42
6	50	46	42	40	40
7	48	43	40	38	37
8	46	41	38	36	35
9	44	39	36	34	34
10	42	37	34	32	32

RR40906-FR

*LER = 33.0

•AEC = \$7.27



EFFICIENCY = 53.4%

CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	13213	13213	13213	13213	13213
5	10884	10884	10884	10884	10884
15	9376	9376	9376	9376	9376
25	5572	5572	5572	5572	5572
35	1884	1884	1884	1884	1884
45	323	323	323	323	323
55	189	189	189	189	189
65	92	92	92	92	92
75	33	33	33	33	33
85	0	0	0	0	0
90	0	0	0	0	0

COEFFICIENTS OF UTILIZATION					
RF	20				
RC	80	50	30	10	50
RW	70	50	30	10	50
1	61	59	58	57	56
2	58	55	53	52	51
3	56	52	49	47	46
4	53	49	46	44	43
5	50	46	43	41	40
6	48	44	41	38	38
7	46	41	38	36	36
8	44	39	36	34	34
9	42	37	34	32	32
10	40	36	33	31	31

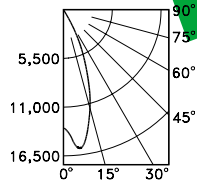
* LER = Luminaire Efficiency Factor

LER = Luminaire Efficacy x Total Lumens x Ballast Factor
Input WattsAEC = Annual Energy Cost per
1000 lumens (based on 3000
hours use @ \$0.08 KWH).

RR40906-HO

*LER = 35.9

•AEC = \$6.68



EFFICIENCY = 58.1%

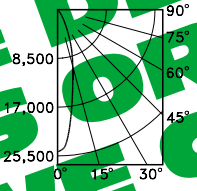
CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	13307	13307	13307	13307	13307
5	15024	15024	15024	15024	15024
15	11423	11423	11423	11423	11423
25	5120	5120	5120	5120	5120
35	944	944	944	944	944
45	259	259	259	259	259
55	143	143	143	143	143
65	81	81	81	81	81
75	36	36	36	36	36
85	0	0	0	0	0
90	0	0	0	0	0

COEFFICIENTS OF UTILIZATION					
RF	20				
RC	80	50	30	10	50
RW	70	50	30	10	50
1	68	65	63	61	59
2	63	61	58	55	53
3	58	54	51	49	47
4	56	51	48	46	45
5	56	51	48	46	45
6	53	48	45	43	42
7	51	47	44	41	40
8	49	44	41	39	38
9	47	42	39	37	36
10	46	41	38	36	35

RR40906-IN

*LER = 34.6

•AEC = \$6.93



EFFICIENCY = 56.0%

CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	24235	24235	24235	24235	24235
5	20711	20711	20711	20711	20711
15	9297	9297	9297	9297	9297
25	3862	3862	3862	3862	3862
35	1471	1471	1471	1471	1471
45	499	499	499	499	499
55	179	179	179	179	179
65	103	103	103	103	103
75	42	42	42	42	42
85	0	0	0	0	0
90	0	0	0	0	0

COEFFICIENTS OF UTILIZATION					
RF	20				
RC	80	50	30	10	50
RW	70	50	30	10	50
1	64	62	61	60	59
2	61	58	56	55	54
3	58	55	52	50	49
4	56	52	49	47	46
5	53	49	46	44	43
6	51	47	44	42	41
7	49	45	42	40	39
8	47	43	40	38	37
9	46	41	38	36	35
10	44	39	36	34	33

Options

- 23 Mercury ballast instead. 100ME standard or see Option -43. Specify voltage.
- 24 HPS ballast instead. 150ME standard or see Option -43. Specify voltage. (NOT FOR G.E. LAMPS)
- 26 Tamper-proof trim. One key/ten fixtures. Also see Option -27.
- 27 Clear 1/4" tempered glass beneath prismatic. Clear 1/4" flat glass, for vandal resistance. Also see Option -26.
- 29 White Son 100W 120V ballast instead (ED-17 lamp: 85 CRI / 2700°K / 10,000 hour life).
- 32 Trim extender. Broadens trim flange O.D. by 1".
- 40 White grooveless regressed flare trim instead.
- 43 Lower wattage medium base - specify wattage and voltage for: Metal Halide: 150, 100, 70, 50, 35; Mercury: 75, 50; HPS: 100, 70, 50, 35; White Son: 50.

- 45 Gasket between trim and ceiling.
- 46 Gasket between trim and lens.
- 49 Extra circuit DCB socket. (100 watt max.) Must not be energized simultaneously with main source.
- 58 277 volt 60 Hz. ballast instead.
- 65 Standby relay and DCB socket. (100 watt max.) With fixture energized, provides immediate light during HID outage. Also see Option -66.
- 66 Time delay standby relay and DCB socket. (100 watt max.) When energized, provides light until HID reaches 70% output.
- 82 Sloped ceiling adapter. Specify slope in 5° increments up to 30°.
- 94 Custom color trim assembly. Consult factory.
- 97 Other voltage ballast. Consult factory.
- 99 Special modification. Consult factory.
- FR Fresnel tempered lens instead. Concentric prisms.

- FT Flat white trim instead. Standard with prismatic glass or add Option -IN, -FR or -HO.
- HL High to Low light output - provides 100% to 50% bi-level lighting. 120 or 277V only for 175MH or 150HPS. Requires separate control circuit.
- HO Holophane concave lens instead.
- IN Industrix glass instead. Concentrates distribution.
- LP With clear lamp. Specify source, wattage and color temperature (3700°K standard for MH.) Consult factory for other color temperatures.
- LS With tungsten halogen standby lamp. (100 watt max.) Use only with Options -49, -65 or -66.
- TA Top Access modification for servicing from above ceiling.

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, E.C., IS 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 on the basis of the fixture as shown on the catalog and does not include any modifications, alterations, or repairs made after the date of shipment. This warranty is void if the fixture is not installed, used, or maintained in accordance with the instructions supplied with the fixture. No other warranties, expressed or implied, shall apply. Seller does not warrant as to merchantability or fitness for a particular use, nor will any oral statement constitute a warranty or amend this written warranty.