

### Open Fixture PAR 38 Downlights

PAR 30 / PAR 20-35 Watt Available. See Option -43

#### Features

##### Lamp

- Designed for:  
100 watt PAR 38 metal halide: RR40601.  
150 watt PAR 38 metal halide: RR40702.
- 35° flood standard. As options, 20° spot or 65° wide flood beam spreads available.
- See Option -43 for lower wattage PAR 38, PAR 30, PAR 20.

##### Socket

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

##### Reflector

- Self-flanged specular Alzak® aluminum.
- Thirteen optional specular Alzak or Softex aluminum finishes available. See Options.

##### Ballast Assembly

- WhisperPack™ fully encapsulated 180°C rated HPF ballast: 3 year warranty.
- Premium Class H high reactance 5:12 regulation.
- Capacitor and ignitor 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 reflector. For top access, See Option -TA.
- Built-in plaster frame.

##### Outlet Box

- Prewired 14 GA (NEC) galvanized steel, UL listed.
- Removable insulated cover.
- 1/2" and 3/4" knockouts.

##### Installation

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

##### UL, C-UL (Canada) Listings

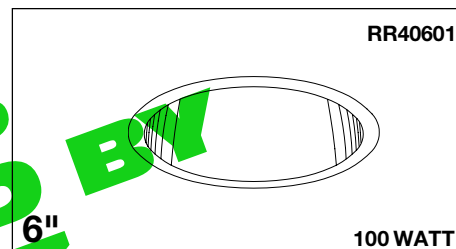
- Wet, damp or dry locations, covered ceilings.
- Through-branch circuit conductors (6 #12).

##### Three Year Limited Warranty

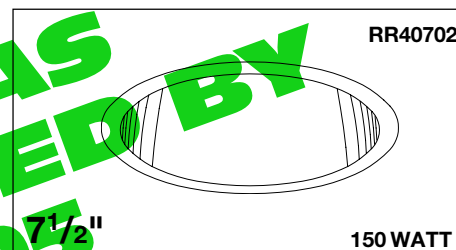
- Complete standard fixture.

##### Thermal Protection

- Per current NEC.



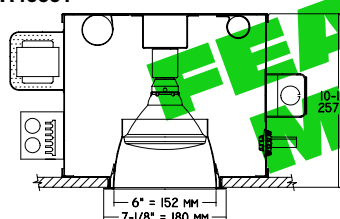
98% Efficiency  
S/MH = 0.6



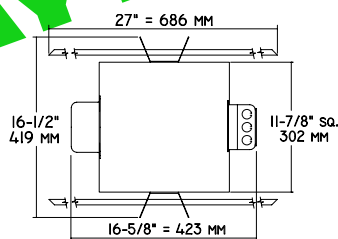
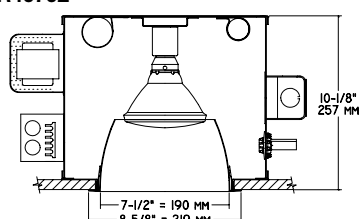
96% Efficiency  
S/MH = 0.7

#### Performance at a Glance

RR40601

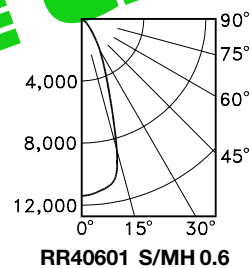


RR40702



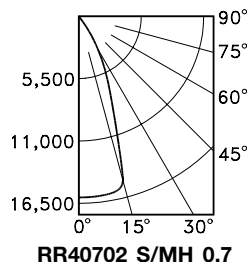
##### Cone of Light Key

- 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.



##### Cone of Light\*

| Ft. | FC    | Dia. |
|-----|-------|------|
| 6   | 306.6 | 4.0  |
| 8   | 172.5 | 5.3  |
| 10  | 110.4 | 6.7  |
| 12  | 76.6  | 8.0  |
| 14  | 56.3  | 9.3  |
| 16  | 43.1  | 10.7 |



##### Cone of Light\*

| Ft. | FC    | Dia. |
|-----|-------|------|
| 6   | 444.9 | 4.3  |
| 8   | 250.3 | 5.7  |
| 10  | 160.2 | 7.1  |
| 12  | 111.2 | 8.5  |
| 14  | 81.7  | 9.9  |
| 16  | 62.6  | 11.4 |

## THE KIRLIN COMPANY

3401 EAST JEFFERSON AVENUE • DETROIT, MICHIGAN 48207-4232  
(313) 259-6400 • Fax: (313) 259-9409 OR (313) 259-3121 • [www.light-link.com/kirlin](http://www.light-link.com/kirlin)

PRECISION LIGHTING  
METAL HALIDE

MAXIMUM WATTAGE

100 PAR 38  
150 PAR 38

CATALOG NUMBERS

RR40601  
RR40702

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Alzak® is a registered trademark of ALCOA.

# RR40601 RR40702

## RECESSED ROUND: 100 and 150 WATT PAR 38 METAL HALIDE

**KIRLIN**

### Detailed Photometry - Installed Fixture

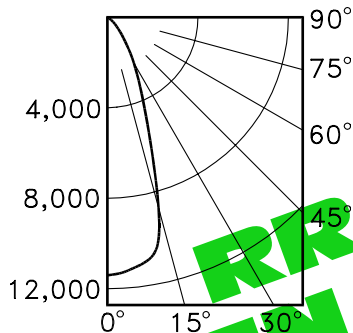
FROM I.T.L. (BOULDER, CO) RR40601: TEST NUMBER 43902  
RR40702: TEST NUMBER 43904

#### RR40601

\*LER = 39.7  
\*AEC = \$6.05

#### CANDLEPOWER DISTRIBUTION

#### COEFFICIENTS OF UTILIZATION



|    | 0.0   | 22.5  | 45.0  | 67.5  | 90.0  |
|----|-------|-------|-------|-------|-------|
| 0  | 11037 | 11037 | 11037 | 11037 | 11037 |
| 5  | 10726 | 10726 | 10726 | 10726 | 10726 |
| 15 | 8704  | 8704  | 8704  | 8704  | 8704  |
| 25 | 3113  | 3113  | 3113  | 3113  | 3113  |
| 35 | 1193  | 1193  | 1193  | 1193  | 1193  |
| 45 | 267   | 267   | 267   | 267   | 267   |
| 55 | 73    | 73    | 73    | 73    | 73    |
| 65 | 0     | 0     | 0     | 0     | 0     |
| 75 | 0     | 0     | 0     | 0     | 0     |
| 85 | 0     | 0     | 0     | 0     | 0     |
| 90 | 0     | 0     | 0     | 0     | 0     |

| RC | 50  | 10  | 50  | 10  | 50  | 10  |
|----|-----|-----|-----|-----|-----|-----|
| RW | 112 | 109 | 107 | 105 | 103 | 102 |
| 1  | 107 | 103 | 99  | 96  | 98  | 95  |
| 2  | 102 | 97  | 93  | 89  | 93  | 90  |
| 3  | 98  | 92  | 87  | 83  | 88  | 85  |
| 4  | 94  | 87  | 82  | 78  | 84  | 80  |
| 5  | 90  | 82  | 77  | 74  | 80  | 76  |
| 6  | 86  | 79  | 73  | 70  | 77  | 72  |
| 7  | 83  | 75  | 71  | 66  | 73  | 69  |
| 8  | 70  | 72  | 67  | 63  | 70  | 66  |
| 9  | 77  | 69  | 64  | 60  | 67  | 63  |
| 10 | 69  | 64  | 60  | 56  | 63  | 60  |

S/MH 0.6

EFFICIENCY = 97.9%

\*LER = Luminaire Efficiency Factor  
LER = Luminaire Efficiency Factor x Ballast Factor  
Input Watts

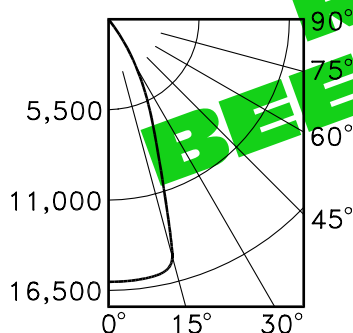
\*Annual Energy Cost per  
100 lumens (based on 3000  
hours use @ \$0.08 KWH).

#### RR40702

\*LER = 43.6  
\*AEC = \$5.51

#### CANDLEPOWER DISTRIBUTION

#### COEFFICIENTS OF UTILIZATION



|    | 0.0   | 22.5  | 45.0  | 67.5  | 90.0  |
|----|-------|-------|-------|-------|-------|
| 0  | 16016 | 16016 | 16016 | 16016 | 16016 |
| 5  | 15971 | 15971 | 15971 | 15971 | 15971 |
| 15 | 14635 | 14635 | 14635 | 14635 | 14635 |
| 25 | 6046  | 6046  | 6046  | 6046  | 6046  |
| 35 | 1629  | 1629  | 1629  | 1629  | 1629  |
| 45 | 226   | 226   | 226   | 226   | 226   |
| 55 | 48    | 48    | 48    | 48    | 48    |
| 65 | 10    | 10    | 10    | 10    | 10    |
| 75 | 3     | 3     | 3     | 3     | 3     |
| 85 | 1     | 1     | 1     | 1     | 1     |
| 90 | 0     | 0     | 0     | 0     | 0     |

| RC | 50  | 10  | 50  | 10  | 50  | 10  |
|----|-----|-----|-----|-----|-----|-----|
| RW | 110 | 108 | 106 | 104 | 102 | 100 |
| 1  | 106 | 101 | 98  | 95  | 97  | 94  |
| 2  | 101 | 96  | 91  | 88  | 92  | 89  |
| 3  | 97  | 91  | 86  | 82  | 87  | 84  |
| 4  | 93  | 86  | 81  | 77  | 83  | 79  |
| 5  | 89  | 82  | 77  | 73  | 80  | 75  |
| 6  | 85  | 78  | 73  | 69  | 76  | 72  |
| 7  | 82  | 74  | 69  | 66  | 73  | 68  |
| 8  | 79  | 71  | 66  | 63  | 70  | 65  |
| 9  | 76  | 68  | 63  | 60  | 67  | 62  |
| 10 | 68  | 63  | 60  | 56  | 63  | 59  |

S/MH 0.7

EFFICIENCY = 96.4%

#### 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 Softex Clear: CP x .98
- 71 Softex Dune: CP x .95
- 72 Black Alzak: CP x .80
- 90 Softex Champagne Gold: CP x .96
- 91 Softex Wheat: CP x .95
- 92 Umber Alzak: CP x .90
- 93 Pewter Alzak: CP x .95
- OG Black OptiGroove: CP x .82

### Options

- 16 Champagne Gold specular Alzak self-flanged reflector. (CP x .98)
- 30 White self-flanged reflector. (CP x .98)
- 31 White flange (only) on reflector.
- 32 Trim extender. Broadens trim flange O.D. by 1" to cover larger ceiling opening.
- 43 Lower wattage - specify voltage and wattage: PAR 38: 70 watt; PAR 30 or PAR 20: 35 watt (RR40601 and RR40702); 100 watt PAR 38 (RR40702 only).
- 45 Gasket above reflector flange. Stops dust streaks on ceiling.
- 58 277 volt 60 Hz. ballast instead.
- 63 Dune specular Alzak reflector. (CP x .97)
- 69 Wheat specular Alzak reflector. (CP x .97)
- 70 Softex Clear self-flanged reflector. (CP x .98)
- 71 Softex Dune self-flanged reflector. (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. Specify slope in 5° increments up to 30°.
- 90 Softex Champagne Gold self-flanged reflector. (CP x .96)
- 91 Softex Wheat self-flanged reflector. (CP x .95)
- 92 Umber specular Alzak reflector. (CP x .90)
- 93 Pewter specular Alzak reflector. (CP x .95)
- 94 Specular Alzak or Softex custom color / finish
- self-flanged reflector. Consult factory.
- Other voltage ballast. Consult factory.
- Special modification. Consult factory.
- LP With 35° flood PAR 38 lamp. Specify wattage. 3200°K standard or consult factory. 75 CRI, 7500 hour life. For 20° spot or 65° wide flood, consult factory. With Option -43: 35W 30° flood PAR 30 (85 CRI, 9000 hour life) or PAR 20 (81 CRI, 6000 hour life). For 35W 10° spot PAR 30 or PAR 20, consult factory.
- OG OptiGroove black seamless tapered aluminum reflector. White trim, self-flanged. (CP x .82)
- 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, INSTALLED TO N.E.C. - 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 three years of purchase. This warranty is supplied to the purchaser in place of all other warranties, expressed or implied. Seller does not warrant as to merchantability or fitness for any particular purpose, 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 voids this manufacturer's warranty and voids the warranty sold.