

CATALOG #	TYPE	
JOB NAME	WATTAGE	VOLTAGE

4" 1 MR16 50 WATT MAXIMUM

Type IC - IRR-04012

Lensed Porthole Downlight Round • Low Voltage

Specifications

Lamp and Optional Filter Holder

- Designed for one 12 volt MR16 lamp (by others): 50 watt maximum.
- For filter holders and up to 2 filters, see Options.

Lampholder

- Heat resistant GX5.3 base porcelain socket.
- 300°C rated double wipe nickel plated contacts provide secure fit and optimal conductivity.
- Securely mounted within aluminum heat sink: protects lamp base, maintains secure fit.
- Insulated lead wires suitable for 250°C operation.

Lamp Module

- All aluminum for maximum heat dissipation and cool operation of entire lamp-socket-trim module.

WhisperPack™ Encapsulated Transformer

- Exclusive WhisperPack™ isolates and envelops transformer with proprietary heat and sound absorbing material.

- Provides longer life and cooler, quieter operation. Easily accessible through ceiling aperture.
- Electronic dimmable stepdown (120V/12V) 90°C AC transformer. See Options for magnetic or toroidal versions and for 277 volt operation.

Porthole Trim with Brushed Nickel Finish

- Cast aluminum, brushed satin nickel finish porthole flat trim and (4) silver finials with frosted prismatic tempered C#73 spread lens. Optional lenses, finishes, finials and Glow Rings.

Acrylic Enameled Aluminum Housing

- Rustproof and corrosion resistant: Exceeds 1000 hour ASTM 5% salt spray test.
- Dual housing design includes air chamber for maximum heat dissipation.
- Cool operation: Extends life of all components.
- Entire luminaire easily serviced through aperture.
- Built-in plaster flange.
- For Air Tight or Top Access, see Options.

Outlet Box and Thermal Protection

- UL listed J-box with insulated removable cover. Rewired 14GA (NEC) with 1/2" and 3/4" knockouts.
- Thermal protector (per current NEC) provides automatic cut-off if rated wattage is exceeded.

Installation

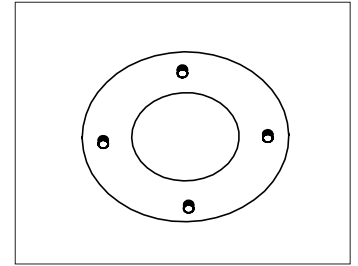
- Recesses indoor or outdoor in covered locations.
- Accommodates ceilings up to 1 1/4" thick.
- Hardware provided suitable for grid or wood joist ceilings with spacing from 14 1/8" to 25 7/8" with 5/8" vertical adjustability.

UL C-UL (Canada) Listings

- Wet, damp or dry locations, covered ceilings.
- Type IC. Approved for direct contact with insulation.
- Through-branch conductors (4 #12 AWG 90°C).

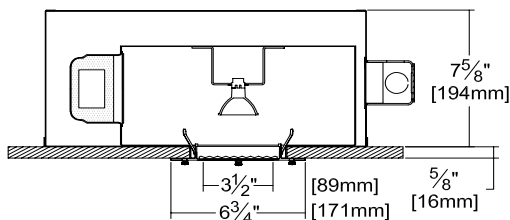
Three Year Limited Warranty

- Complete standard fixture.

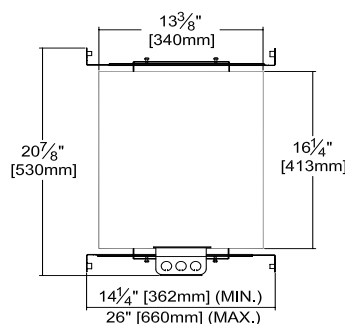


Performance at a Glance

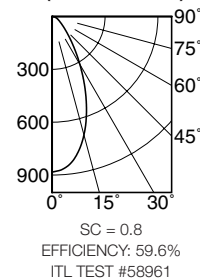
IRR-04012: Type IC



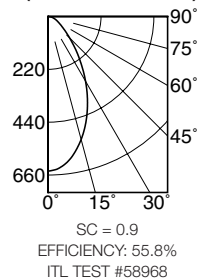
Ceiling Cut-out
5" Dia.



IRR-04012
(50 Watt FL35)



IRR-04012
(50 Watt VWFL60)



Exceptional
Energy
Efficiency

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

LOW VOLTAGE TUNGSTEN
HALOGEN LIGHTING

MAXIMUM WATTAGE

50

CATALOG NUMBER

IRR-04012

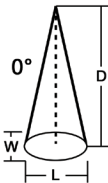
DUE TO OUR CONTINUING EFFORT TO IMPROVE PRODUCTS, TECHNICAL INFORMATION IS SUBJECT TO CHANGE WITHOUT NOTICE.

Detailed Photometry - Installed Fixture

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

- D: Distance (in feet) to floor or wall.
- FC: Max. footcandles on surface within effective visual beam. (Visual beam is 50% of max. FC.)
- L: Effective visual beam length in feet.
- W: Effective visual beam width (in feet).

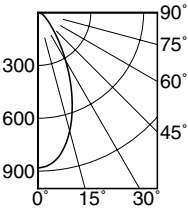
FC on Horizontal Plane



Lamp Angle

IRR-04012 (50 Watt)

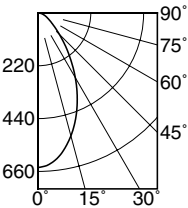
LAMP: OSRAM SYLVANIA
50MR16/IR/FL35/C
TRIM: Lensed Porthole
EFFIC: 59.6%
SC: 0.8



D	FC	L	W
4.0	55	3.1	3.1
6.0	25	4.6	4.6
7.0	18	5.4	5.4
8.0	14	6.2	6.2
9.0	11	6.9	6.9
10.0	9	7.7	7.7
12.0	6	9.2	9.2
14.0	5	10.8	10.8

ITL TEST: #58961

LAMP: OSRAM SYLVANIA
50MR16/IR/VWFL60/C
TRIM: Lensed Porthole
EFFIC: 55.8%
SC: 0.9



D	FC	L	W
4.0	40	3.4	3.4
6.0	18	5.2	5.2
7.0	13	6.0	6.0
8.0	10	6.9	6.9
9.0	8	7.7	7.7
10.0	6	8.6	8.6
12.0	4	10.3	10.3
14.0	3	12.0	12.0

ITL TEST: #58968

Options

Transformer, Wattage and Voltage

- 58 For 277 volt line input.
- MG Magnetic (conventional) transformer instead.
- TD Toroidal magnetic transformer instead.

Lenses - Mounted in Porthole Trim

- 15 C#73 prismatic tempered spread lens.
- 18 Flat opal glass lens.
- ML Microprismatic clear tempered lens.

Porthole Trims

- 30 White acrylic enameled finish.
- 32 White oversize trim ring. Specify O.D.
- 33 Decorative tempered glass Glow Ring suspended trim assembly.
- 35 Natural aluminum acrylic enameled finish.
- 37 Dark Bronze acrylic enameled finish.

- 38 Black acrylic enameled finish.
- 45 Gasket between trim flange and ceiling.
- 46 Gasket between trim and lens.
- 79 Collar for ceilings up to 2 5/8" or consult factory.
- 94 Custom color/finish. Specify. Consult factory.
- BLF Black finial finish.
- BRF Brass finial finish.
- COF Cone shaped finials. Silver finish standard or select optional finish.
- CUF Custom color finial finish.
- ROF Round shaped finials. Silver finish standard or select optional finish.
- WHF White finial finish.
- NC Non-conductive spring clip sleeves to minimize risk of electric shock.

Filter Holder / Filters (Specify 1 or 2)

- FL Filter holder on lamp or see Option -TF.
- AM Amber filter.

- CL Clear tempered glass filter.
- DP Dichroic Peach filter.
- GE Green / Botanical filter.
- HX Hexcel louver.
- LN Linear glass filter.
- MB Medium Blue filter.
- MP Softening microprismatic filter.
- PF Crystal prismatic filter.
- PK Pink / Rose filter.
- TF Trim mounted filter holder instead.
- UF Ultraviolet filter.
- XF Filter other than shown. Specify make/model.

Other

- 99 Special modification. Consult factory.
- AT Air tight version. Exceeds ASTM E283 restricted airflow of 2 CFM maximum.

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. INSTALL TO N.E.C. IN NORMAL USE. Manufacturer at the 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 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 subject to 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 render the warranty void.