

CATALOG #	TYPE	
JOB NAME	WATTAGE	VOLTAGE

4" 1 MR16 75 WATT MAXIMUM

IRS-04025

Open Downlight • Square • Low Voltage

Specifications

Lamp and Filter Holder

- Designed for one 12 volt MR16 lamp (by others): 75 watt maximum.
- Filter holder with clear tempered glass included. See Options for additional filters (2 filter capacity).

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.

Trim

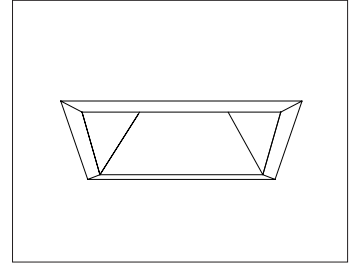
- Specular, clear aluminum self-flanged downlight square. Optional SoftTex finishes, Glow Rings, colors or white flange versions available.

Acrylic Enameled Aluminum Housing

- Rustproof and corrosion resistant: Exceeds 1000 hour ASTM 5% salt spray test.
- Shallow depth fits restricted plenums.
- 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. Prewired 14GA (NEC) with 1/2" and 3/4" knockouts.

- Thermal protector (per current NEC) provides automatic cut-off if rated temperature 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 5/8" with 5/8" vertical adjustability.
- For adjustable version see IRS-04035.

UL, C-UL (Canada) Listings

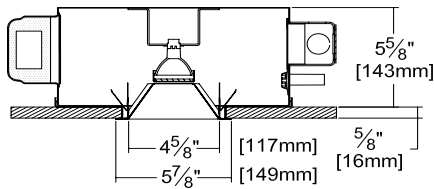
- Wet, damp or dry locations, covered ceilings.
- Through-branch conductors (6 #12 AWG 90°C).

Three Year Limited Warranty

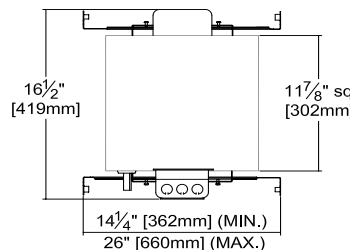
- Complete standard fixture.

Performance at a Glance

IRS-04025

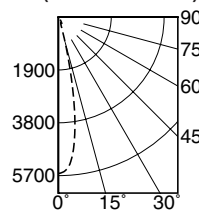


Ceiling Cut-out
5" Dia.



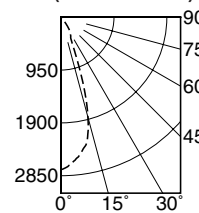
Air Tight

IRS-04025
(50 Watt NFL25)



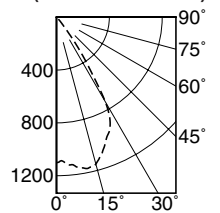
SC = 0.4
EFFICIENCY: 83.2%
ITL TEST #58974

IRS-04025
(50 Watt FL35)



SC = 0.6
EFFICIENCY: 84.1%
ITL TEST #58977

IRS-04025
(50 Watt VWFL60)



SC = 1.1
EFFICIENCY: 82.9%
ITL TEST #58983



Exceptional
Energy
Efficiency

For adjustable version see IRS-04035

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

75

CATALOG NUMBER

IRS-04025

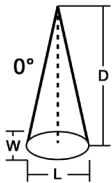
DUE TO OUR CONTINUING EFFORT TO IMPROVE PRODUCTS, TECHNICAL
INFORMATION IS SUBJECT TO CHANGE WITHOUT NOTICE.

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).

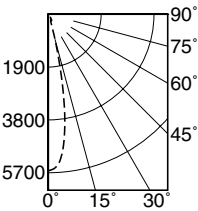
FC on Horizontal Plane



Lamp Angle

IRS-04025 (50 Watt)

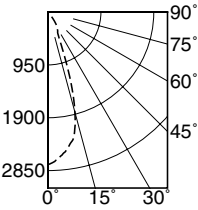
LAMP: OSRAM SYLVANIA
50MR16/IR/NFL25
TRIM: Open Specular
EFFIC: 83.2%
SC: 0.4



D	FC	L	W
4.0	351	1.5	1.5
6.0	156	2.2	2.2
7.0	115	2.6	2.6
8.0	88	2.9	3.0
9.0	69	3.3	3.3
10.0	56	3.7	3.7
12.0	39	4.4	4.5
14.0	29	5.2	5.2

ITL TEST: #58974

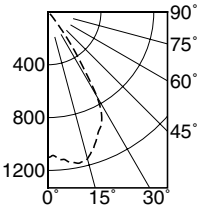
LAMP: OSRAM SYLVANIA
50MR16/IR/FL35/C
TRIM: Open Specular
EFFIC: 84.1%
SC: 0.6



D	FC	L	W
4.0	171	2.3	2.3
6.0	76	3.4	3.5
7.0	56	4.0	4.1
8.0	43	4.6	4.7
9.0	34	5.2	5.3
10.0	27	5.7	5.8
12.0	19	6.9	7.0
14.0	14	8.0	8.2

ITL TEST: #58977

LAMP: OSRAM SYLVANIA
50MR16/IR/VWFL60/C
TRIM: Open Specular
EFFIC: 82.9%
SC: 1.1



D	FC	L	W
4.0	70	5.5	4.4
6.0	31	8.3	6.5
7.0	23	9.7	7.6
8.0	18	11.1	8.7
9.0	14	12.4	9.8
10.0	11	13.8	10.9
12.0	8	16.6	13.1
14.0	6	19.3	15.2

ITL TEST: #58983

Options

Transformer, Wattage and Voltage

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

Trims

- 30 All white acrylic enameled finish.
- 31 White acrylic enameled trim flange.
- 32 White oversize trim extender. Specify size.
- 33 Decorative tempered glass Glow Ring suspended trim assembly.
- 45 Gasket between trim flange and ceiling.
- 59 Dark Bronze specular self-flanged trim.
- 60 Softex Dark Bronze self-flanged trim.

- 63 Dune specular self-flanged trim.
- 69 Wheat specular self-flanged trim.
- 70 Softex Clear self-flanged trim.
- 71 Softex Dune self-flanged trim.
- 72 Black specular self-flanged trim.
- 77 Softex Pewter self-flanged trim.
- 79 Collar for ceilings up to 2 5/8" or consult factory.
- 91 Softex Wheat self-flanged trim.
- 93 Pewter specular self-flanged trim.
- 94 Custom color/finish. Specify. Consult factory.

Filters (Specify 1 or 2; 1 clear provided)

- AM Amber filter.
- DP Dichroic Peach filter.
- GE Green / Botanical filter.
- HX Hexcel louver.

- LN Linear glass filter.
- MB Medium Blue filter.
- MP Softening micropismatic filter.
- PF Crystal prismatic filter.
- PK Pink / Rose filter.
- UF Ultraviolet filter.
- XF Filter other than shown. Specify make/model.

Top Access

- TA For servicing from above.

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. INSTALLATION 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.