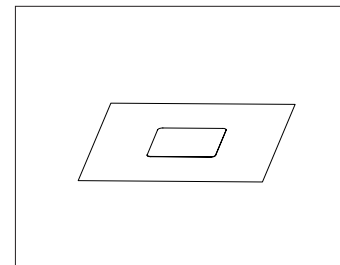


CATALOG #	TYPE	
JOB NAME	WATTAGE	VOLTAGE

4" 1 MR16 75 WATT MAXIMUM

IRS-04045

## Open Appearance Lensed 2" Pin Hole Adjustable • Square • Low Voltage



### Specifications

#### Lamp and Optional Filter Holder

- Designed for one 12 volt MR16 lamp (by others): 75 watt maximum.
- For filter holder 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 - Center Beam Positioning

- Hot aiming by hand or screwdriver provides locking adjustability from 0° to 45° in precise 1° increments.
- Accommodates sloped ceilings up to 45°.
- Full 365° locking rotational disk indexed for optimal lamp-trim position.
- Black concealment shroud screens fixture interior.
- 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.

#### Pin Hole Trim

- White die cast square flat aluminum. Low brightness black inner bevel and angle cut cone. Clear tempered lens on top of cone. Optional cone or trim mounted lenses; trim colors, finishes and downlight 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 7/8" with 5/8" vertical adjustability.
- For downlight square trim instead, see Option -DL.

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

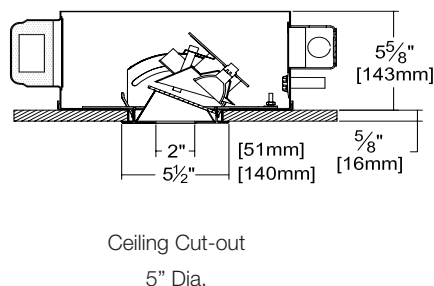
- Wet, damp or dry locations, covered ceilings.
- Through-branch conductors (6 #12 AWG 90°C).

#### Three Year Limited Warranty

- Complete standard fixture.

### Performance at a Glance

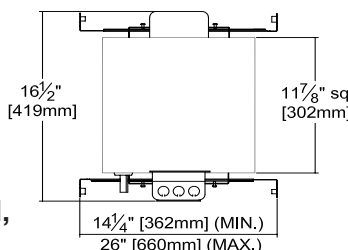
IRS-04045



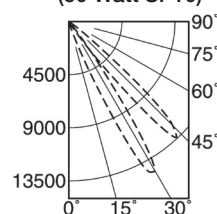
Ceiling Cut-out  
5" Dia.



Air Tight

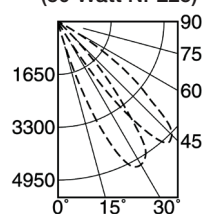


IRS-04045  
(50 Watt SP10)



EFFICIENCY: 48.6% (30°)  
44.3% (45°)  
ITL TEST #59163, 59164

IRS-04045  
(50 Watt NFL25)



EFFICIENCY: 55.0% (30°)  
51.0% (45°)  
ITL TEST #59168, 59169

For downlight square trim instead,  
see Option -DL



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

75

CATALOG NUMBER

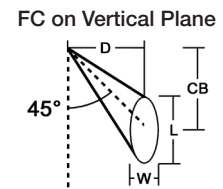
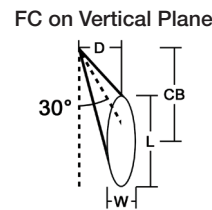
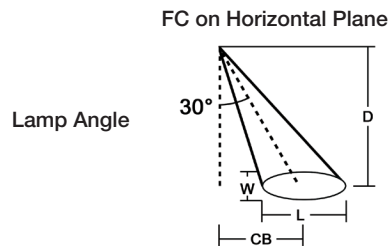
IRS-04045

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

## Photometry - Installed Fixture

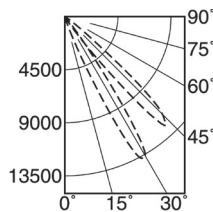
Photometry from I.T.L., Boulder, CO

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).  
 CB: Distance (in feet) to center beam.



## IRS-04045 (50 Watt)

LAMP: OSRAM SYLVANIA  
 50MR16/IR/SP10/C  
 TRIM: Open Appearance  
 Pin Hole  
 EFFIC: 48.6% (30°)  
 44.3% (45°)



D	FC	L	W	CB
4.0	537	1.0	0.8	2.3
6.0	239	1.5	1.2	3.5
7.0	175	1.7	1.3	4.0
8.0	134	1.9	1.5	4.6
9.0	106	2.2	1.7	5.2
10.0	86	2.4	1.9	5.8
12.0	60	2.9	2.3	6.9
14.0	44	3.4	2.7	8.1

ITL TEST: #59163

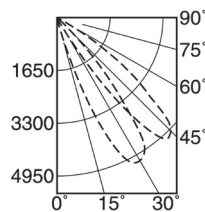
D	FC	L	W	CB
2.0	437	1.3	0.7	3.5
3.0	194	1.9	1.0	5.2
4.0	109	2.6	1.4	6.9
5.0	70	3.2	1.7	8.7
6.0	49	3.9	2.1	10.4
8.0	27	5.2	2.8	13.9
10.0	17	6.5	3.4	17.3
12.0	12	7.8	4.1	20.8

ITL TEST: #59163

D	FC	L	W	CB
2.0	1035	0.7	0.6	2.0
3.0	460	1.1	0.8	3.0
4.0	259	1.5	1.1	4.0
5.0	166	1.8	1.4	5.0
6.0	115	2.2	1.7	6.0
8.0	65	2.9	2.2	8.0
10.0	41	3.6	2.8	10.0
12.0	29	4.4	3.4	12.0

ITL TEST: #59164

LAMP: OSRAM SYLVANIA  
 50MR16/IR/NFL25  
 TRIM: Open Appearance  
 Pin Hole  
 EFFIC: 55.0% (30°)  
 51.0% (45°)



D	FC	L	W	CB
4.0	225	1.7	1.6	2.3
6.0	100	2.6	2.4	3.5
7.0	73	3.0	2.8	4.0
8.0	56	3.4	3.2	4.6
9.0	44	3.8	3.6	5.2
10.0	36	4.3	4.0	5.8
12.0	25	5.1	4.8	6.9
14.0	18	6.0	5.6	8.1

ITL TEST: #59168

D	FC	L	W	CB
2.0	219	1.9	1.2	3.5
3.0	97	2.8	1.9	5.2
4.0	55	3.8	2.5	6.9
5.0	35	4.7	3.1	8.7
6.0	24	5.7	3.7	10.4
8.0	14	7.6	5.0	13.9
10.0	9	9.5	6.2	17.3
12.0	6	11.3	7.4	20.8

ITL TEST: #59168

D	FC	L	W	CB
2.0	454	1.3	1.0	2.0
3.0	202	1.9	1.5	3.0
4.0	113	2.5	2.0	4.0
5.0	73	3.2	2.5	5.0
6.0	50	3.8	3.0	6.0
8.0	28	5.1	4.0	8.0
10.0	18	6.4	5.0	10.0
12.0	13	7.6	5.9	12.0

ITL TEST: #59169

## Options

### Transformer, Wattage and Voltage

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

### Lenses - Mounted Above Cone

- 15 C#73 prismatic tempered spread lens.
- FP Frosted prismatic tempered lens.
- ML Microprismatic clear tempered lens.

### Lenses - Mounted In Trim at Ceiling

- CC Clear tempered glass lens.
- CS C#73 prismatic tempered spread lens.
- FC Frosted prismatic tempered lens.
- MC Clear tempered microprismatic lens.

### Trims

- 32 White oversize trim extender. Specify size.

- 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 part(s). Consult factory.
- BN Brushed satin nickel finish.

### Filter Holder / Filters (Specify 1 or 2)

- FL Filter holder with up to two filter capacity.
- 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 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.
- DL Downlight square trim instead. Clear specular finish standard or add optional trim selection.

## SUBMITTAL DATA

JOB NAME

TYPE

WATTAGE

VOLTAGE

CATALOG NUMBER

## APPROVAL STAMP

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 without prior written authorization from the manufacturer will render the warranty void.