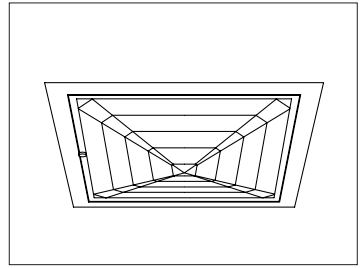


CATALOG #	TYPE	
JOB NAME	WATTAGE	VOLTAGE

12" x 12" 1 PS25 300 WATT MAXIMUM

IRS-12151

High Wattage Square K-Lens Downlight



Specifications

Lamp / Socket

- Designed for one horizontal frosted incandescent lamp (by others): 300W maximum PS25.
- Dimmable (controls by others).
- Glazed porcelain medium base socket.

Reflector

- GlasSurfaced™ multi-faceted specular aluminum.

Trim Assembly

- Tempered prismatic shock-resisting spread Kirlin lens. See Options for other lenses available.
- Rustfree polished nickel stainless door (304-L) and captive thumb screw. Concealed hinges for fast relamping.
- Attractively beveled cast aluminum frame tooled to ensure close fit with door. White acrylic finish.

Aluminum Housing

- Cool. Acrylic enameled 100% aluminum.
- Rustproof and corrosion resistant: Exceeds 1000 hour ASTM 5% salt spray test.

- Dissipates heat across entire surface area extending component life.
- Entire luminaire visible and serviceable from below through aperture.

Outlet Box and Thermal Protection

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

Installation

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

UL, C-UL (Canada) Listings

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

Three Year Limited Warranty

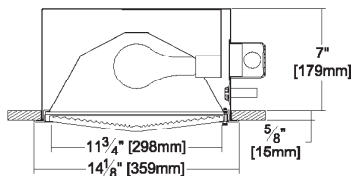
- Complete standard fixture.

Recessed Square
Kirlin Lens

THIS FIXTURE IS NO LONGER AVAILABLE FOR REPLACEMENT

Performance at a Glance

IRS-12151



Ceiling Cut-out
13 1/2" Sq.

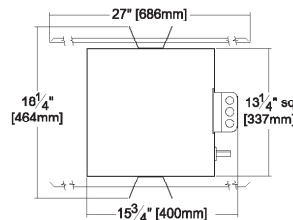
Cone of Light Key

- Ft. Distance from fixture
- FC Footcandles at nadir (0°)
- Dia. Circle of light at 50% of FC

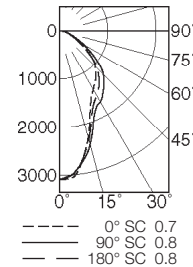
* Dia. (in ft.) shown is where FC value is half the FC at nadir.



Exceptional
Energy
Efficiency



IRS-12151 (300 Watt)

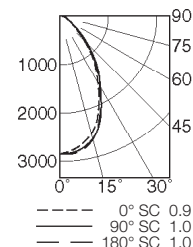


Cone of Light*

Dist.	FC	Dia.
6	85.7	4.5
8	48.2	6.0
10	30.9	7.5
12	21.4	8.9
14	15.7	10.4
16	12.1	11.9

EFFICIENCY: 68.4%
ITL TEST #47031

IRS-12151-15 (300 Watt)



Cone of Light*

Dist.	FC	Dia.
6	79.1	5.9
8	44.5	7.8
10	28.5	9.8
12	19.8	11.7
14	14.5	13.7
16	11.1	15.6

EFFICIENCY: 66.8%
ITL TEST #47030

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

TUNGSTEN HALOGEN &
INCANDESCENT LIGHTING

MAXIMUM WATTAGE

300

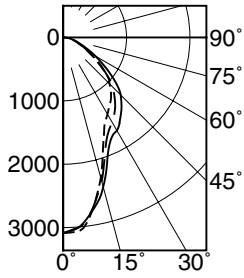
CATALOG NUMBER

IRS-12151

Detailed Photometry - Installed Fixture

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

IRS-12151 (300 Watt)



--- 0° SC 0.7
— 90° SC 0.8
— 180° SC 0.8



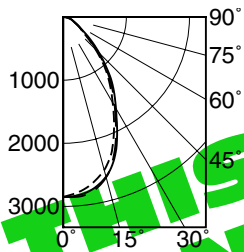
EFFICIENCY : 68.4%

CANDLEPOWER DISTRIBUTION					
	0.0	45.0	90.0	135.0	180.0
0	3086	3086	3086	3086	3086
5	3057	3052	2995	3024	3000
15	2294	2316	2442	2289	2348
25	1541	1430	1780	1485	1672
35	1284	983	1567	1031	1420
45	1035	679	1284	687	1109
55	649	468	806	451	677
65	338	293	404	259	348
75	175	152	186	131	180
85	49	47	56	43	57
90	10	9	14	11	15

COEFFICIENTS OF UTILIZATION							
RF	20						
RC	80			50			
RW	70	50	30	10	50	30	10
1	75	73	70	68	68	66	65
2	70	65	61	57	61	58	55
3	64	58	53	49	55	51	48
4	60	52	47	43	50	46	42
5	55	48	42	38	46	41	38
6	52	44	38	34	42	37	34
7	48	40	35	31	39	34	31
8	45	37	32	28	36	31	28
9	43	34	29	26	33	29	26
10	40	32	27	24	31	27	24

ITL TEST #47031

IRS-12151-15 (300 Watt)



--- 0° SC 0.9
— 90° SC 1.0
— 180° SC 1.0



EFFICIENCY : 66.8%

CANDLEPOWER DISTRIBUTION					
	0.0	45.0	90.0	135.0	180.0
0	2849	2849	2849	2849	2849
5	2783	2804	2830	2853	2855
15	2509	2558	2619	2668	2628
25	1906	2058	2021	2113	1978
35	1282	1390	1387	1400	1343
45	724	788	808	782	761
55	351	420	389	421	361
65	185	211	204	211	198
75	119	123	125	123	121
85	35	37	41	40	42
90	0	0	0	0	0

COEFFICIENTS OF UTILIZATION							
RF	20						
RC	80			50			
RW	70	50	30	10	50	30	10
1	74	72	69	67	67	66	64
2	69	65	61	58	61	58	56
3	64	59	54	51	56	52	49
4	60	53	49	45	51	47	44
5	56	49	44	40	47	43	40
6	52	45	40	36	43	39	36
7	49	42	37	33	40	36	33
8	46	39	34	30	37	33	30
9	44	36	31	28	35	31	28
10	41	34	29	26	33	28	26

ITL TEST #47030

Options

Wattage and Voltage

- 58 277/120 volt stepdown transformer for 277 volt line input, prewired into fixture; with 277 volt thermal protector.

Lenses and Trims

- 15 Prismatic C#73 tempered glass lens.
- 18 Opal flat glass. Not enameled. Diffusing.
- 20 White aluminum 1/2" cube egg-crate louver.

- 26 Tamper-resistant button head recessed hex screw with center pin and 1 key / 10 fixtures. Also see Option -27.
- 27 Vandal resistant tempered prismatic C#73 spread lens above 1/4" clear tempered glass.
- 32 White oversize trim extender. Specify size.
- 45 Gasket between ceiling and trim frame.
- 46 Gasket between door and trim frame.
- 94 Custom color/finish. Specify. Consult factory.

- DG Die formed steel Drop Guard with C#73 tempered glass lens.

Other

- 47 Wet plaster frame for wet plaster ceiling.
- 99 Special modification. Consult factory.

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 of the fixture 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 terms 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.