

CATALOG #	TYPE	
JOB NAME	WATTAGE	VOLTAGE

10" 1 PS25 300 WATT MAXIMUM

IRR-10156

Vandal Resistant Downlight for Poured Concrete Ceilings

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

- Specular Alzak® aluminum.

Trim / Lens Assembly

- Vandal resistant tapered aluminum one piece black OptiGroove with white flange or all white smooth self-flanged trim (Option -40).
- Flush center pin tamperproof hex screws and captive nuts secure trim to housing.
- Lens combines C#73 tempered prismatic glass above 1/4" clear tempered glass.
- Continuous ring secures lens to trim.

- For gasketing, see Options -45 and -46.
- Tamperproof tool included.

Concrete Pour Housing

- 16 GA. galvanized steel with black enamel finish.
- Fully gasketed.
- Entire luminaire serviced through aperture.
- 2" collar promotes concrete flow.

Outlet Box

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

Installation

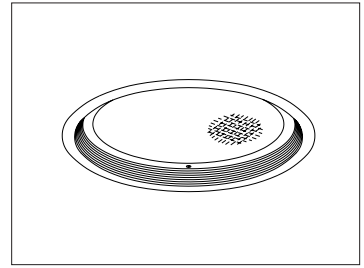
- Recesses indoor or outdoor in poured concrete ceilings.

UL, C-UL (Canada) Listings

- For use in poured concrete.
- Through-branch conductors (6 #12 AWG 90°C).

Three Year Limited Warranty

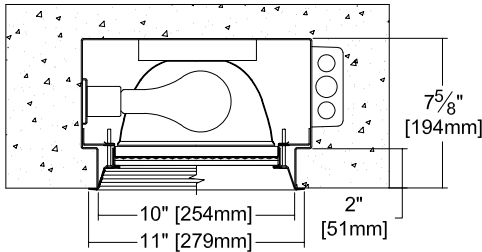
- Complete standard fixture.



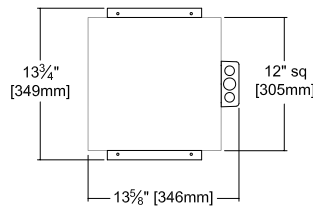
Recessed Round
Vandal Resistant
Concrete Pour

Performance at a Glance

IRR-10156



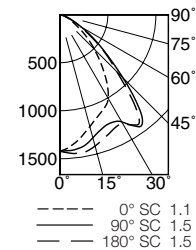
Option -40 Also Shown



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.

IRR-10156 (300 Watt)

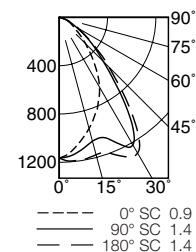


Cone of Light*

Dist.	FC	Dia.
6	39.5	8.5
8	22.2	11.3
10	14.2	14.2
12	9.9	17.0
14	7.3	19.8
16	5.6	22.7

EFFICIENCY: 48.9%
ITL TEST #59183

IRR-10156 (200 Watt)



Cone of Light*

Dist.	FC	Dia.
6	32.4	8.0
8	18.2	10.6
10	11.7	13.3
12	8.1	16.0
14	5.9	18.6
16	4.6	21.3

EFFICIENCY: 56.6%
ITL TEST #59189



Exceptional
Energy
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THE KIRLIN COMPANY

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TUNGSTEN HALOGEN &
INCANDESCENT LIGHTING

MAXIMUM WATTAGE

300

CATALOG NUMBER

IRR-10156

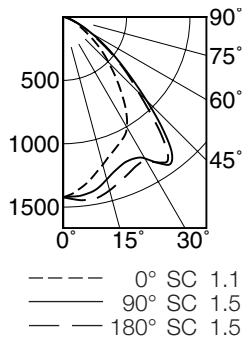
DUE TO OUR CONTINUING EFFORT TO IMPROVE PRODUCTS, TECHNICAL INFORMATION IS SUBJECT TO CHANGE WITHOUT NOTICE.

Alzak® is a registered trademark of ALCOA.

Detailed Photometry - Installed Fixture

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

IRR-10156 (300 Watt)



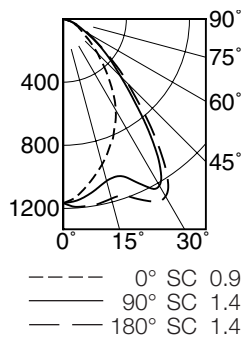
EFFICIENCY : 48.9%

CANDLEPOWER DISTRIBUTION					
	0.0	45.0	90.0	135.0	180.0
0	1422	1422	1422	1422	1422
5	1368	1385	1418	1444	1450
15	1207	1245	1327	1384	1416
25	1081	1132	1245	1330	1317
35	850	1141	1424	1565	1402
45	506	702	928	934	843
55	246	331	422	419	396
65	113	133	150	150	147
75	31	37	40	31	29
85	0	0	0	0	0
90	0	0	0	0	0

COEFFICIENTS OF UTILIZATION							
RF	20						
RC	80				50		
RW	70	50	30	10	50	30	10
1	54	53	51	50	50	48	47
2	51	47	45	42	45	43	41
3	47	43	39	37	40	38	36
4	43	38	35	32	37	34	31
5	40	35	31	28	33	30	28
6	37	32	28	25	30	27	25
7	35	29	25	22	28	24	22
8	32	26	23	20	25	22	20
9	30	24	21	18	23	20	18
10	28	22	19	17	22	19	16

ITL TEST #59183

IRR-10156 (200 Watt)



EFFICIENCY : 56.6%

CANDLEPOWER DISTRIBUTION					
	0.0	45.0	90.0	135.0	180.0
0	1166	1166	1166	1166	1166
5	1117	1115	1149	1182	1194
15	953	978	1062	1144	1178
25	767	923	1152	1275	1272
35	539	742	1031	1163	1117
45	309	406	516	621	584
55	152	201	260	284	265
65	86	93	109	120	123
75	22	25	28	33	31
85	0	0	0	0	0
90	0	0	0	0	0

COEFFICIENTS OF UTILIZATION							
RF	20						
RC	80				50		
RW	70	50	30	10	50	30	10
1	63	61	59	58	58	56	55
2	59	55	52	49	52	50	48
3	54	50	46	43	47	44	42
4	51	45	41	38	43	40	37
5	47	41	37	33	39	36	33
6	44	37	33	30	36	32	29
7	41	34	30	27	33	29	27
8	38	31	27	24	30	27	24
9	36	29	25	22	28	25	22
10	34	27	23	20	26	23	20

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Options

Wattage and Voltage

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

Lenses and Trims

-40 White tamperproof smooth flare trim.
 -45 Gasket between ceiling and trim flange.
 -46 Gasket between trim and lens.
 -94 Custom color/finish. Specify. Consult factory.
 -FR Fresnel tempered lens instead.

Other

-99 Special modification. Consult factory.

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, improper installation, or repair or modification of the fixture without prior written authorization from the manufacturer will render the warranty void.