

CATALOG #	TYPE	
JOB NAME	WATTAGE	VOLTAGE

4" T4.5 CERAMIC METAL HALIDE 70 WATT MAXIMUM HRR-04300

Ellipsoidal T4.5 Downlight: 70, 39 or 20 Watt  
Precise Control From Three Directions

### Specifications

#### Lamp

- Designed for vertical T4.5 bi-pin U6.5 ceramic metal halide lamp.
- Up to 95 CFM, 12,000-15,000 hour life.
- For lower wattages, see Option -43.

#### Socket (5kV rated)

- G8.5 base. U6.5 base for T4 (Optional)
- Porcelain body. Silicone leads.

#### Reflectors

- Upper: Ellipsoidal specular Alzak® aluminum. With Option -SPT or -MFL: Parabolic instead.
- Lower: Low brightness specular Alzak® aluminum, self-flanged.
- Optional reflector finishes / colors available.

#### Lens: UV Absorbing

- Tempered polycarbonate glass mounted to standard WFL distribution (1.1 SC).
- See Options -SPT (0.3/0.4 SC) or -MFL (0.7 SC) distributions.

#### Electronic Ballast

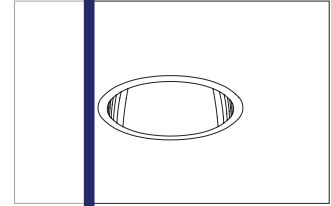
- Full electronic circuit provides constant color and constant wattage, ensuring consistent performance and long life.

# THIS PRODUCT IS NO LONGER AVAILABLE

Please consult

# QUOTATIONS

for the best alternative.



4" Dual Reflector Design (Optional T4)

#### Outlet Box

- Prewired 14 GA (NEC) galvanized steel, UL listed; with removable insulated cover.
- 1/2" and 3/4" knockouts.

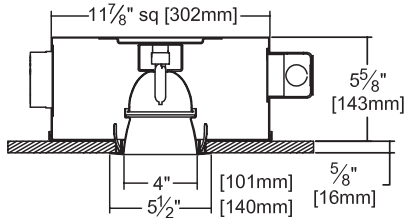
#### Installation

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

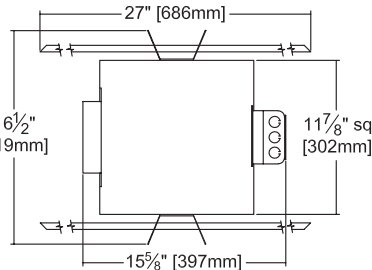
#### UL, C-UL (Canada) Listings

- Wet, damp or dry locations, covered ceilings.
- Through-brand circuit conductors (6 #12).
- Through-brand wires (39 watt and 20 watt only).
- **Three Year Limited Warranty**
- Complete standard fixture, including ballast.

### Performance at a Glance

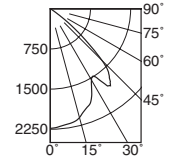


Ceiling Cut-out  
5" Dia.



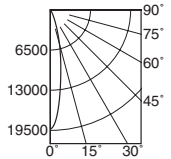
#### STANDARD (WFL) DISTRIBUTION

SC: 1.1  
Effic: 62.3%  
ITL Test: 65979



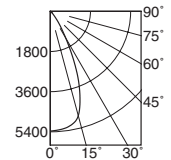
#### Option -SPT (70W)

SC: 0.3  
Effic: 60.7%  
ITL Test: 65977



#### Option -MFL (70W)

SC: 0.7  
Effic: 58.6%  
ITL Test: 65978



## 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

COMPACT PULSE START  
METAL HALIDE LIGHTING

MAXIMUM WATTAGE

70

CATALOG NUMBER

HRR-04300

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

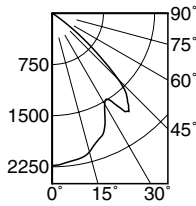
### STANDARD WATTAGE 70 WATT

#### STANDARD (WFL) (70W)

Cone of Light ▲

Dist.	FC	Dia.
6	62.1	6.4
8	34.9	8.6
10	22.3	10.7
12	15.5	12.8
14	11.4	15.0
16	8.7	17.1

SC: 1.1  
Effic: 62.3%  
ITL Test: 65979



CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	2234	2234	2234	2234	2234
5	2201	2201	2201	2201	2201
15	2104	2104	2104	2104	2104
25	1822	1822	1822	1822	1822
35	1650	1650	1650	1650	1650
45	1366	1366	1366	1366	1366
55	159	159	159	159	159
65	4	4	4	4	4
75	1	1	1	1	1
85	0	0	0	0	0
90	0	0	0	0	0

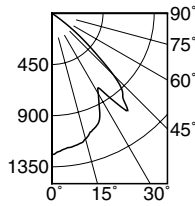
### OPTION -43: LOWER WATTAGE 39 WATT

#### Option -43(39W) (WFL)

Cone of Light ▲

Dist.	FC	Dia.
6	34.5	6.3
8	19.4	8.4
10	12.4	10.5
12	8.6	12.6
14	6.3	14.7
16	4.9	16.8

SC: 1.0  
Effic: 62.7%  
ITL Test: 65982



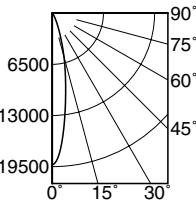
CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	1242	1242	1242	1242	1242
5	1201	1201	1201	1201	1201
15	1144	1144	1144	1144	1144
25	998	998	998	998	998
35	930	930	930	930	930
45	766	766	766	766	766
55	80	80	80	80	80
65	2	2	2	2	2
75	1	1	1	1	1
85	0	0	0	0	0
90	0	0	0	0	0

#### Option -SPT (70W)

Cone of Light ▲

Dist.	FC	Dia.
6	535.4	2.1
8	301.1	2.7
10	192.7	3.4
12	133.8	4.1
14	98.3	4.8
16	75.3	5.5

SC: 0.3  
Effic: 60.7%  
ITL Test: 65977



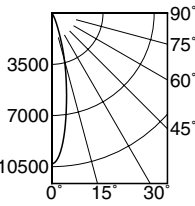
CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	19273	19273	19273	19273	19273
5	15545	15545	15545	15545	15545
15	5736	5736	5736	5736	5736
25	1314	1314	1314	1314	1314
35	247	247	247	247	247
45	67	67	67	67	67
55	23	23	23	23	23
65	0	0	0	0	0
75	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0

#### Options -43(39W)-SPT

Cone of Light ▲

Dist.	FC	Dia.
6	286.6	2.3
8	161.2	3.0
10	103.2	3.8
12	71.6	4.5
14	52.6	5.3
16	40.3	6.0

SC: 0.4  
Effic: 61.3%  
ITL Test: 65980



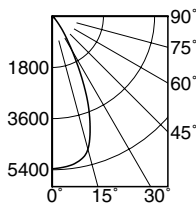
CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	10316	10316	10316	10316	10316
5	8802	8802	8802	8802	8802
15	3331	3331	3331	3331	3331
25	647	647	647	647	647
35	109	109	109	109	109
45	33	33	33	33	33
55	13	13	13	13	13
65	0	0	0	0	0
75	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0

#### Option -MFL (70W)

Cone of Light ▲

Dist.	FC	Dia.
6	149.1	4.9
8	83.8	6.5
10	53.7	8.1
12	37.3	9.7
14	27.4	11.3
16	21.0	13.0

SC: 0.7  
Effic: 58.6%  
ITL Test: 65978



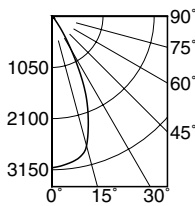
CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	5366	5366	5366	5366	5366
5	5315	5315	5315	5315	5315
15	4842	4842	4842	4842	4842
25	2567	2567	2567	2567	2567
35	711	711	711	711	711
45	154	154	154	154	154
55	62	62	62	62	62
65	1	1	1	1	1
75	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0

#### Options -43(39W)-MFL

Cone of Light ▲

Dist.	FC	Dia.
6	86.4	4.8
8	48.6	6.4
10	31.1	8.1
12	21.6	9.7
14	15.9	11.3
16	12.1	12.9

SC: 0.7  
Effic: 60.1%  
ITL Test: 65981



CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	3109	3109	3109	3109	3109
5	3058	3058	3058	3058	3058
15	2751	2751	2751	2751	2751
25	1525	1525	1525	1525	1525
35	346	346	346	346	346
45	74	74	74	74	74
55	34	34	34	34	34
65	0	0	0	0	0
75	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0

Photometry based on: 6200 lumens - 70W  
3400 lumens - 39W

▲ Cone of Light Key  
(Dia. (in ft.) shown is where FC value is half the FC at nadir.)  
Ft. Distance from fixture  
FC Footcandles at nadir (0°)  
Dia. Circle of light at 50% of FC

## Options

### Distributions

- SPT Spot distribution. (0.3 SC; 0.4 SC with Option -43: 39W)
- MFL Medium flood distribution. (0.7 SC)

### Lower Reflector (Self-Flanged)

- 30 All White. (CP x 1.1)
- 31 White flange (only).
- 32 White trim ring to cover larger ceiling opening. Specify outer diameter of ring.
- 45 Gasket above flange. Stops dust streaks on ceiling.
- 69 Wheat specular Alzak. (CP x .92) Consult factory.
- 70 Clear SofTex. (CP x .92)
- 77 Pewter SofTex. (CP x .85) Consult factory.
- 91 Wheat SofTex. (CP x .88) Consult factory.

- 93 Pewter specular Alzak. (CP x .88) Consult factory.
- 94 Custom color. Consult factory.

### Relays, Standbys, Lamps

- 49 Extra circuit DCB socket (up to 75W). Do not energize simultaneously with main source. Also see Option -LS.
- 65 Electronic standby system and DCB socket (up to 75W). Provides immediate light until CMH restrikes. Also see Options -66 and -LS.
- 66 Electronic time delay standby system and DCB socket (up to 75W). Provides light until CMH reaches 70% output. Also see Option -LS.
- LP With lamp. Specify source, wattage, color temperature / brand. 3000°K standard; consult factory for others.

- LS With T4 DCB tungsten halogen standby lamp (75W). Use only with Options -49, -65 or -66.

### Wattage and Voltage

- 43 Lower wattage Type IC:  
T4.5: specify 39W or 20W  
With Option -T4: 20W only
- 347 347 volt.
- 97 Other input voltage instead. Consult factory.
- T4 Converted to GU6.5 base for twist-and-lock T4 lamp. 39W Type IC standard. Add Option -43 for 20 watt Type IC.

### Other

- 79 Extension collar for up to 2" thick ceilings.
- 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. INSTALL TO N.E.C. (NORMAN USE). Manufacturer of the fixture will neither repair nor replace the fixture nor guarantee the purchase price or replacement of product purchased and delivered under the terms of this warranty. Liability of manufacturer is limited to the original manufacturer within three years of original manufacturer. This warranty is subject to the fixture 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.