

**Ceiling Cutout: 8" (203 mm) Dia.**

**Complete Fixture consists of Reflector Trim & Frame-In Kit. Select each separately.**

Reflector Trim		Frame-In Kit	Lamp
<b>LD7V WHW</b>	White Baffle, White Self-Flange	<b>LD7V 70HA</b>	70W ED17/BD17 (Coated) Metal Halide
<b>LD7V BKW</b>	Black Baffle, White Self-Flange	<b>LD7V 10HA</b>	100W ED17/BD17 (Coated) Metal Halide
		<b>LD7V 70SA</b>	70W ED17/B17 (Diffuse) HPS
		<b>LD7V 10SA</b>	100W ED17/B17 (Diffuse) HPS

## Features

- Reflector/Housing:** Semi-Specular Alzak® aluminum, 16 ga. Removable from inside fixture for access to splices and ballast.
- Fresnel Lens:** 6" dia. gray Colouvered® risers. Regressed 1 3/4" from ceiling line. Stippling on back of lens conceals lamp image.
- Die-Cast Lens Bezel:** Forms deep stepped conical aperture for low brightness. Supports lens. The cone is available in matte white or black finishes. Painted white flange.
- Light and Dust Seal:** Black polyurethane foam gasket.
- Socket Cup:** Heat dissipating die-cast aluminum with medium base pulse rated porcelain socket with nickel plated screw shell. Positive locking attachment, without tools, to reflector assures proper optical alignment of lamp.
- Torsionite Springs:** Permit removal of lens assembly without tools.
- Mounting Frame:** Die-formed steel, 16 ga. vertically oriented for maximum rigidity. Comes with 4 mounting brackets to accept standard 3/4" or 1 1/2" lathing channels (by others), 1/2" EMT (by others) or optional Lightolier mounting bars (1950 or 1951).
- Mounting Ring:** Die-formed steel, 20 ga. Designed for vertical adjustment
- Retaining Springs:** Rust resistant simplify reflector/housing removal for inspection and maintenance.
- Ballast/Junction Box Assembly:** Ballast and splice box on 16 ga. plate. Ballast assembly is accessible from below without tools for inspection and replacement.
- Junction Box:** 16ga. steel. Can be inspected from below. UL listed for maximum of (8) No. 12 AWG, 90°C through branch circuit conductors.
- Thermal Protector:** Meets NEC and UL requirements. Thermal insulation shall not be installed within 3" (76mm) of the recessed fixture enclosure, wiring compartment, or ballast, and shall not be so installed above the fixture so as to entrap heat and prevent the free circulation of air.

## Electrical

**Ballast:** 120/277V, magnetic, lag type high reactance autotransformer, high power factor, encased and filled with a special thermally conductive insulation material for heat dissipation and quiet operation.

## Electrical (continued)

Ballast	ANSI Code	Voltage	Max. Amps	Input Watts
70W MH	M98	120/277	1.90/0.80	95
100W MH	M90	120/277	2.60/1.15	130
70W HPS	S62	120/277	1.45/0.65	94
100W HPS	S54	120/277	2.20/0.95	128

## Options and Accessories

- Mounting Bars:** 1950 - 18" Set of (2), 1951 - 27" set of (2)
- T-Bar Anchor Clips:** 1956 (set of 4). For use with mounting bars.
- Slope Ceiling Adaptor:** 7926. See Spec. Sheet SCA.
- Auxiliary:** Add suffix **A** to Frame-In Kit and to Reflector Trim. Spec. Sheet "A"
- Emergency:** Add suffix **E** to Reflector Trim and Frame-In Kit. Spec. Sheet "E"
- Fuse:** Add suffix **F1** or **F2** to Frame-In Kit (F1=120V, F2=277V)
- Chicago Air Plenum:** Add **LC** to Frame-In Kit
- Electronic Ballast (MH only):** Consult Factory. **EB1** = 120V **EB2** = 277V

## Labels

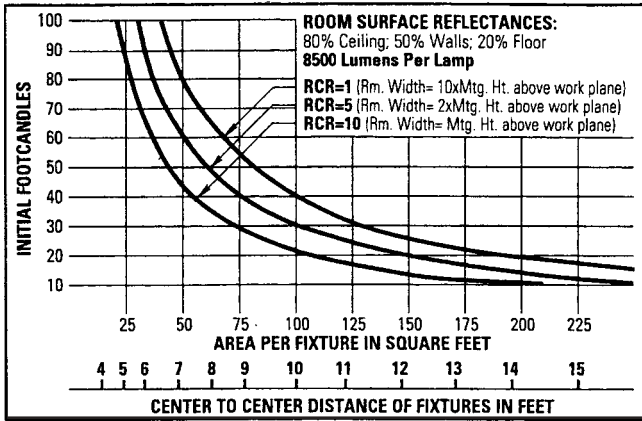
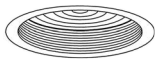
UL (Suitable for wet locations), CSA, I.B.E.W.

Alzak® is a registered trademark of ALCOA.

Job Information	Type:
<b>Job Name:</b>	
<b>Cat. No.:</b>	
<b>Lamp(s):</b>	
<b>Notes:</b>	

Lightolier a Genlyte Thomas Company www.lightolier.com  
 631 Airport Road, Fall River, MA 02720 • (508) 679-8131 • Fax (508) 674-4710  
 We reserve the right to change details of design, materials and finish.  
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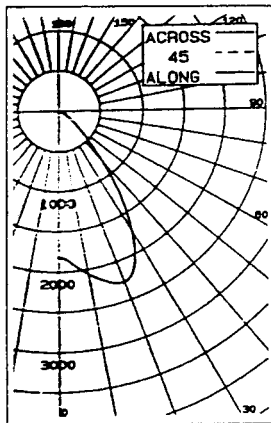


This quick calculator chart determines the number and spacing of 100 Watt ED17 Metal Halide units for any level of illumination. Lighting Conversation Factors: 70 Watt ED17 Metal Halide; F.C. x 0.6.70W HPS, F.C. x 0.7; 100w HPS, F.C. x 1.05.

**SPACING RATIO = 1.3**

CERTIFIED TEST REPORT NO. LS19749  
LIGHTING SCIENCES INC.

RECESSED FRESNEL LENS LITE HID DOWNLIGHT  
7 1/2" APERTURE, SEMI-SPECULAR REFLECTOR  
ONE 100W ED17 METAL HALIDE COATED LAMP, LUMEN RATING = 7800  
RECESSED PRISMATIC COVER GLASS WITH WHITE TRIM



\*\* EFFICIENCY = 41.6% \*\*

TESTED ACCORDING TO IES PROCEDURES. TEST DISTANCE EXCEEDS FIVE TIMES THE GREATEST LUMINOUS OPENING OF LUMINAIRE.

**COEFFICIENTS OF UTILIZATION**

% EFFECTIVE CEILING CAVITY REFLECTANCE

ROOM CAVITY RATIO	% EFFECTIVE CEILING CAVITY REFLECTANCE																								
	80				70				50				30				10				0				
	50		30		10		50		30		10		50		30		10		50		30		10		0
1	.46	.45	.44	.45	.44	.43	.43	.43	.42	.42	.41	.41	.40	.40	.39	.39	.39	.39	.38	.38	.37	.37	.37	.36	
2	.43	.41	.39	.42	.40	.39	.41	.39	.38	.39	.38	.37	.38	.37	.36	.36	.35	.34	.36	.35	.34	.34	.33	.33	
3	.40	.37	.36	.39	.37	.36	.38	.36	.35	.37	.36	.34	.36	.35	.34	.34	.33	.32	.34	.33	.31	.31	.31	.31	
4	.37	.35	.33	.36	.34	.32	.36	.34	.32	.35	.33	.32	.34	.33	.31	.31	.30	.29	.32	.30	.29	.29	.28	.28	
5	.54	.32	.30	.34	.31	.30	.33	.31	.29	.32	.31	.29	.32	.30	.29	.28	.26	.25	.28	.26	.25	.25	.24	.24	
6	.32	.29	.28	.32	.29	.27	.31	.29	.27	.30	.28	.27	.30	.28	.27	.26	.24	.23	.26	.24	.23	.23	.22	.22	
7	.30	.27	.25	.29	.27	.25	.29	.27	.25	.28	.26	.25	.28	.26	.25	.24	.22	.21	.24	.22	.21	.21	.20	.20	
8	.28	.25	.23	.27	.25	.23	.27	.25	.23	.26	.24	.23	.26	.24	.23	.22	.20	.19	.22	.20	.19	.19	.18	.18	
9	.26	.23	.21	.25	.23	.21	.25	.23	.21	.24	.22	.21	.24	.22	.21	.20	.18	.17	.20	.18	.17	.17	.16	.16	
10	.24	.21	.19	.24	.21	.19	.23	.21	.19	.22	.20	.19	.22	.20	.19	.18	.16	.15	.18	.16	.15	.15	.14	.14	

20% FLOOR CAVITY REFLECTANCE

Conversion Factor: 70 and 100W Metal Halide and HPS: C.U. x 1.0.

**Job Information** **Type:**

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