

Ceiling Cutout: 12 1/8" (308 mm) Sq.

Ordering Information

Catalog Number	Lamp
SD12D 70HVWH	70W ED17/B17 (Coated) Metal Halide
SD12D 10HVWH	100W ED17/B17 (Coated) Metal Halide

Features

- Reflector:** Semi-specular Alzak® aluminum, 16 ga.
- Fresnel Lens:** Redirects and shields the light, 10 1/8" sq. Regressed 1 3/4" above ceiling line.
- Die-Cast Splay:** Assure subtle brightness transition. Provides overlap flange. White finish.
- Die-cast Frame:** Fits in 12" x 12" ceiling opening. Provides overlap trim in plaster. Designed for vertical adjustment from inside of fixture.
- Socket Cup:** Die-formed aluminum with medium base pulse rated porcelain socket and nickel plated screw shell.
- 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 tubing (by others) or optional Lightolier mounting bars (1950 or 1951).
- 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:** 16 ga. steel, 5"x 5"x 3-3/4". 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 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.

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

Options & 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.
- Auxiliary:** Add suffix **A** to Fixture. See Spec. Sheet "A".
- Emergency Lamp:** Add suffix **E** to Fixture. See Spec. Sheet "E".
- Fuse:** Add suffix **F1** or **F2** to Fixture (F1=120V, F2=277V).
- Chicago Air Plenum:** Consult Factory
- Electronic MH Ballast:** Consult Factory. **EB1** = 120V **EB2** = 277V

Labels

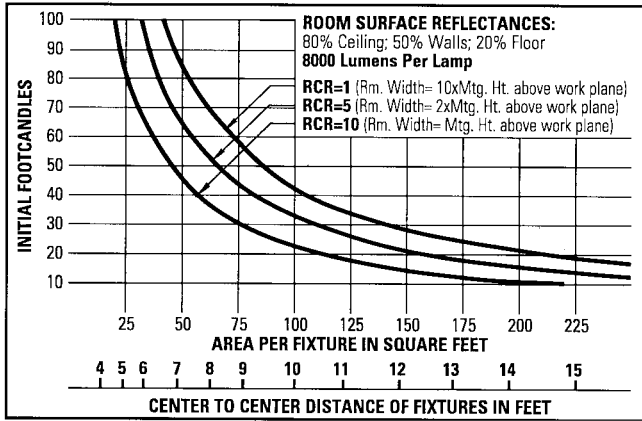
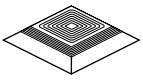
UL (Suitable for Damp Locations), CSA, I.B.E.W.

Alzak® is a registered trademark of ALCOA.

Job Information	Type:
Job Name:	
Cat. No.:	
Lamp(s):	
Notes:	

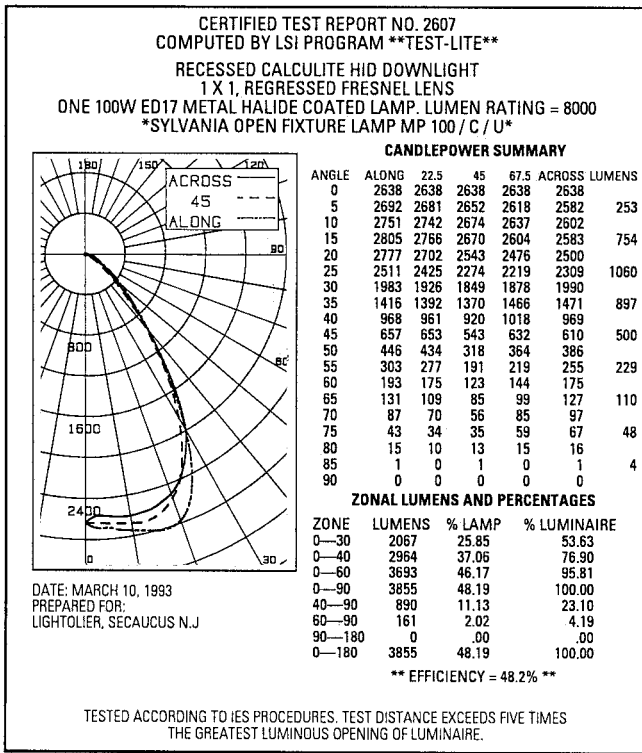
Lightolier a Genlyte Thomas Company www.lightolier.com
 631 Airport Road, Fall River, MA 02720 • (508) 679-8131 • Fax (508) 674-4710
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LIGHTOLIER®



This quick calculator chart determines the number and spacing of 100 Watt ED17 Metal Halide units for any level of illumination. Lighting Conversion Factors: 70 Watt ED17 Metal Halide: Clear, F.C. x 0.6.

SPACING RATIO = 1.1



COEFFICIENTS OF UTILIZATION

% EFFECTIVE CEILING CAVITY REFLECTANCE

ROOM CAVITY RATIO	% WALL REFLECTANCE															
	80			70			50			30			10			0
	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
1	.53	.52	.51	.52	.51	.50	.50	.49	.48	.48	.48	.47	.47	.46	.45	.45
2	.49	.47	.45	.48	.47	.45	.47	.45	.44	.45	.44	.43	.44	.43	.42	.41
3	.46	.43	.41	.45	.43	.41	.44	.42	.40	.43	.41	.40	.41	.40	.39	.38
4	.43	.40	.38	.42	.40	.37	.41	.39	.37	.40	.38	.37	.39	.37	.36	.35
5	.40	.37	.34	.39	.36	.34	.38	.36	.34	.37	.35	.34	.37	.35	.33	.33
6	.37	.34	.32	.36	.34	.32	.36	.33	.31	.35	.33	.31	.34	.32	.31	.30
7	.34	.31	.29	.34	.31	.29	.33	.31	.29	.33	.30	.28	.32	.30	.28	.28
8	.32	.29	.27	.31	.29	.27	.31	.28	.27	.31	.28	.26	.30	.28	.26	.26
9	.30	.27	.24	.29	.26	.24	.29	.26	.24	.28	.26	.24	.28	.26	.24	.23
10	.28	.25	.23	.27	.25	.23	.27	.24	.22	.27	.24	.22	.26	.24	.22	.22

20% FLOOR CAVITY REFLECTANCE
Conversion Factors: 70W ED17 Metal Halide

Job Information **Type:**

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