



**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>DL7V CLW</b> Specular Clear, White Self-Flange	<b>DL7V 70HA</b> 70W ED17/BD17 (Coated) Metal Halide	
<b>DL7V CLP</b> Specular Clear, Polished Self-Flange	<b>DL7V 10HA</b> 100W ED17/BD17 (Coated) Metal Halide	
<b>DL7V CL</b> Specular Clear, White Trim Ring	<b>DL7V 70SA</b> 70W ED17/B17 (Diffuse) HPS	
<b>DL7V MG</b> Multi-Groove, White Trim Ring	<b>DL7V 10SA</b> 100W ED17/B17 (Diffuse) HPS	
<b>DL7V BK</b> Specular Black, White Trim Ring		

## Features

- Reflector:** Specular Alzak Clear® aluminum (with U. fading finish), 16 ga. 45° visual cut-off to lamp and lamp image. Reflector supplied with self-flanged or white molded trim ring (field paintable). For other finishes, consult factory.
- Multi-Groove Baffle:** One piece seamless aluminum. Sharply detailed concentric rings, black finish. Permanently fastened to specular clear reflector.
- Black Cone:** Specular black Alzak® aluminum (with U.V. resistant, non fading finish). Permanently fastened to specular clear reflector.
- 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.
- 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).
- Mounting Ring:** Die-formed steel, 20 ga. Designed for vertical adjustment from inside of fixture, black finish.
- Retaining Springs:** Rust resistant springs 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.
- 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 Adapter:** 7920 (see SCA specification sheets)
- Auxiliary:** Add suffix **A** to Reflector Trim and Frame-In Kit. See Spec. Sheet "A".
- Emergency:** Add suffix **E** to Reflector Trim and Frame-In Kit. See 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 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:
<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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**Clear Cone**

Spacing Ratio = 1.0

**Black cone**

Spacing Ratio = 0.9

**ifl boulder**  
THE GREAT CENTER OF THE INDUSTRY  
 INDEPENDENT TESTING LABORATORIES, INC. • 3388 LONGHORN ROAD, BOULDER, COLORADO 80502 • PHONE (303) 442-1255  
 FAX (303) 448-5274

REPORT NUMBER: ITL35888  
 PREPARED FOR: LIGHTOLIER CANADA INC.  
 CATALOG NUMBER: AC48A10  
 LUMINAIRE: FORMED SPECULAR REFLECTOR WITH CLEAR FLAT GLASS ENCLOSURE AND SPECULAR LOWER CONE.  
 LAMP: PHOSPHOR COATED 100-WATT METAL HALIDE, MEDIUM BASE, RATED 8000 LUMENS.  
 MOUNTING: RECESSED

DATE: 7-12-1989

DEG	CANDELA	LUMENS
0	6005	541
5	5869	1209
15	4260	1409
25	3134	966
35	1535	335
45	360	29
55	26	11
65	11	0
75	0	1
85	0	0
90	0	0

ZONE	LUMENS	%LAMP	%FIXT
0-30	3160	39.5	70.2
0-40	4125	51.6	91.6
0-60	4489	56.1	99.7
0-90	4502	56.3	100.0
90-180	0	0.0	0.0
0-180	4502	56.3	100.0

TOTAL LUMINAIRE EFFICIENCY = 56.3 %  
 CIE TYPE - DIRECT  
 LUMINAIRE SPACING CRITERION = 1.0  
 LUMINOUS DIAMETER: 7.375

LUMINANCE DATA IN FOOTLAMBERTS  
 ANGLE AVERAGE

IN DEG	5390.
45	5390.
55	477.
65	266.
75	12.
85	0.

Checked: *[Signature]*  
 Approved: *[Signature]*

THIS REPORT IS BASED ON PUBLISHED INDUSTRY PROCEDURES. FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE.

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REPORT NUMBER: ITL35887  
 PREPARED FOR: LIGHTOLIER CANADA INC.  
 CATALOG NUMBER: AC48A12  
 LUMINAIRE: FORMED SPECULAR REFLECTOR WITH CLEAR FLAT GLASS ENCLOSURE AND BLACK LOWER CONE.  
 LAMP: PHOSPHOR COATED 100-WATT METAL HALIDE, MEDIUM BASE, RATED 8000 LUMENS.  
 MOUNTING: RECESSED

DATE: 7-12-1989

DEG	CANDELA	LUMENS
0	5939	525
5	5734	1136
15	4828	1173
25	2588	709
35	1123	219
45	272	13
55	19	1
65	2	0
75	0	0
85	0	0
90	0	0

ZONE	LUMENS	%LAMP	%FIXT
0-30	2827	35.3	75.0
0-40	3536	44.2	85.8
0-60	3768	47.1	100.0
0-90	3768	47.1	100.0
90-180	0	0.0	0.0
0-180	3768	47.1	100.0

TOTAL LUMINAIRE EFFICIENCY = 47.1 %  
 CIE TYPE - DIRECT  
 LUMINAIRE SPACING CRITERION = 0.9  
 LUMINOUS DIAMETER: 7.375

LUMINANCE DATA IN FOOTLAMBERTS  
 ANGLE AVERAGE

IN DEG	4666.
45	4666.
55	189.
65	43.
75	0.
85	0.

Checked: *[Signature]*  
 Approved: *[Signature]*

THIS REPORT IS BASED ON PUBLISHED INDUSTRY PROCEDURES. FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE.

**Coefficients of Utilization**  
 % Effective Ceiling Cavity Reflectance

Room Cavity Ratio	% Wall Reflectance															
	80				70				50				30			
	50	30	10	0	50	30	10	0	50	30	10	0	50	30	10	0
1	.63	.62	.61	.62	.61	.60	.60	.59	.58	.57	.57	.56	.56	.55	.55	.54
2	.60	.58	.56	.59	.57	.55	.57	.55	.54	.55	.54	.53	.54	.53	.52	.51
3	.56	.54	.52	.56	.53	.52	.54	.52	.51	.53	.51	.50	.52	.50	.49	.49
4	.53	.51	.49	.53	.50	.49	.52	.50	.48	.51	.49	.47	.50	.48	.47	.46
5	.51	.48	.46	.50	.47	.46	.49	.47	.45	.48	.46	.45	.47	.46	.44	.44
6	.48	.45	.43	.48	.45	.43	.47	.45	.43	.46	.44	.43	.45	.44	.42	.42
7	.46	.43	.41	.45	.42	.40	.45	.42	.40	.44	.42	.40	.43	.41	.40	.39
8	.43	.40	.38	.43	.40	.38	.42	.40	.38	.42	.39	.38	.41	.39	.38	.37
9	.41	.38	.36	.41	.38	.36	.40	.37	.36	.40	.37	.36	.39	.37	.35	.35
10	.39	.36	.34	.38	.36	.34	.38	.35	.34	.38	.35	.34	.37	.35	.34	.33

20% Floor Cavity Reflectance  
 Conversion Factor: 70W/100W Ed17 Metal Halide, and 70W/100W Ed17 HPS:  
 clear, C.U. x 1.

**Coefficients of Utilization**  
 % Effective Ceiling Cavity Reflectance

Room Cavity Ratio	% Wall Reflectance															
	80				70				50				30			
	50	30	10	0	50	30	10	0	50	30	10	0	50	30	10	0
1	.53	.51	.50	.52	.51	.51	.50	.49	.49	.48	.48	.47	.47	.46	.46	.45
2	.50	.48	.47	.49	.48	.47	.48	.47	.46	.47	.46	.45	.45	.45	.44	.43
3	.48	.45	.44	.47	.45	.44	.46	.45	.43	.45	.44	.43	.44	.43	.42	.41
4	.45	.43	.42	.45	.43	.42	.44	.42	.41	.43	.42	.41	.42	.41	.40	.40
5	.43	.41	.39	.43	.41	.39	.42	.40	.39	.41	.40	.39	.41	.39	.38	.38
6	.41	.39	.37	.41	.39	.37	.40	.38	.37	.40	.38	.37	.39	.38	.37	.36
7	.39	.37	.35	.39	.37	.35	.38	.37	.35	.38	.36	.35	.37	.36	.35	.34
8	.37	.35	.34	.37	.35	.34	.37	.35	.33	.36	.35	.33	.36	.34	.33	.33
9	.36	.33	.32	.35	.33	.32	.35	.33	.32	.35	.33	.31	.34	.33	.31	.31
10	.34	.32	.30	.34	.32	.30	.33	.31	.30	.33	.31	.30	.33	.31	.30	.29

20% Floor Cavity Reflectance  
 Conversion Factor: 70W/ 100W Ed17 Metal Halide and 70W/100W Ed17 HPS: Black,  
 C.U.; Multi-Grove, C.U. x 0.9.

**LIGHTOLIER**

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

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