

Ceiling Opening: 12 1/2" (318 mm) Dia.

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

Reflector Trim		Frame-In Kit	Lamp
DL12B CLW	Specular Clear, White Self-Flange	DL12B 17HB	175W E28/BT28 (Coated) Enclosed Metal Halide
DL12B CLP	Specular Clear, Polished Self-Flange	DL12B 25HB	250W E28/BT28 (Coated) Enclosed Metal Halide
DL12B 40CLW	Specular Clear, White Self-Flange	DL12B 40HB	400W E28/BT28 (Coated) Enclosed Metal Halide

Features

- Reflector:** Specular clear Alzak® aluminum (with U.V. resistant, non fading finish), 16 ga. provides narrow beam. 45° visual cut-off to lamp and lamp image. Painted white flange. For other finishes, consult factory.
- Socket Cup:** Heat dissipating die-cast aluminum with mogul base porcelain socket with nickel plated screw shell.
- 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.
- Lamp Guard:** High heat resistant glass (as required by lamp manufacturer).
- Ballast/Junction Box Assembly:** Ballast and splice box on 16 ga. plate. Ballast 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.

Ballast	ANSI Code	Voltage	Max. Amps	Input Watts
175W MH	M57	120/277	1.80/0.80	210
250W MH	M58	120/277	2.50/1.12	293
400W MH	M59	120/277	4.00/1.70	455

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.
- Slope Ceiling Adapter:** 7929. See Spec. Sheet SCA.
- Auxiliary:** Add suffix **A** to Frame-In Kit and Reflector Trim. See Spec. Sheet "A".
- Emergency Lamp:** Add suffix **E** to Frame-In Kit and Reflector Trim. 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.

Labels

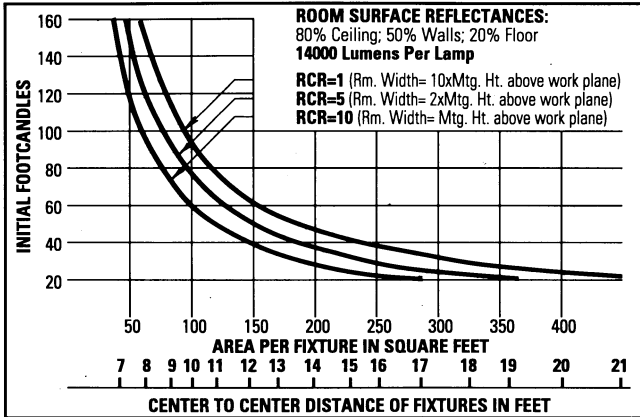
UL (Suitable for Damp Locations), CSA, I.B.E.W.

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
 We reserve the right to change details of design, materials and finish.
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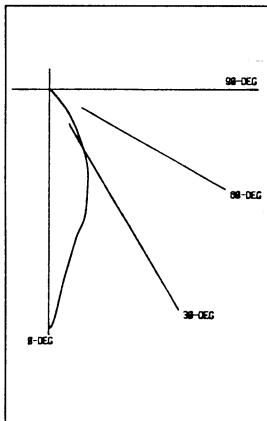
LIGHTOLIER®



This quick calculator chart determines the number of spacing of 175 watt E28 units (Clear) for any level of illumination. Lighting Conversion Factors: 250 watt: Clear F.C. x 1.5; 400 watt: Clear F.C. x 2.5.

SPACING RATIO = 0.5

CERTIFIED TEST REPORT NO. 28674
COMPUTED BY INDEPENDENT TESTING LABORATORIES, INC
RECESSED CALCULITE OPEN REFLECTOR DOWNLIGHT
12" APERTURE, SPECULAR CLEAR REFLECTOR
ONE 175W E28 METAL HALIDE COATED LAMP, LUMEN RATING = 14000



CANDLEPOWER SUMMARY

ANGLE	MEAN CP	LUMENS
0	14830	
5	11500	1053
15	8290	2285
25	5580	2529
35	2690	1668
45	380	388
55	100	84
65	20	28
75	20	21
85	20	22
90	0	
95	0	0
105	0	0
115	0	0
125	0	0
135	0	0
145	0	0
155	0	0

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	5867	41.9	72.70
0-40	7534	53.8	93.30
0-60	8006	57.2	99.20
0-90	8074	57.7	100.00
90-120	0	.00	.00
90-130	0	.00	.00
90-150	0	.00	.00
90-180	0	.00	.00
0-180	8074	57.7	100.00

DATE: FEBRUARY 14, 1983
PREPARED FOR:
LIGHTOLIER, SECAUCUS N.J.

**** EFFICIENCY = 57.7% ****

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	% 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	.65	.63	.62	.63	.62	.61	.61	.60	.59	.59	.58	.58	.57	.56	.56	.55
2	.61	.59	.57	.60	.58	.57	.58	.57	.56	.57	.55	.54	.55	.54	.53	.52
3	.58	.56	.54	.57	.55	.53	.56	.54	.52	.54	.53	.52	.53	.52	.51	.50
4	.55	.52	.50	.54	.52	.50	.53	.51	.50	.52	.50	.49	.51	.50	.48	.48
5	.52	.49	.47	.52	.49	.47	.51	.48	.47	.50	.48	.46	.49	.47	.46	.45
6	.50	.47	.45	.49	.47	.45	.49	.46	.45	.48	.46	.44	.47	.45	.44	.43
7	.47	.44	.42	.47	.44	.42	.46	.44	.42	.46	.43	.42	.45	.43	.42	.41
8	.45	.42	.40	.45	.42	.40	.44	.42	.40	.44	.41	.40	.43	.41	.40	.39
9	.43	.40	.38	.42	.40	.38	.42	.39	.38	.41	.39	.37	.41	.39	.37	.39
10	.41	.38	.36	.40	.38	.36	.40	.37	.36	.40	.37	.36	.39	.37	.36	.35

20% FLOOR CAVITY REFLECTANCE

Conversion factors: 175W, 250W and 400W Clear. C.U. x 1.0

Job Information Type:

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