

Ceiling Cutout: 8" (203 mm) Dia.

Reflector Trim	Frame-In Kit			Lamp
	Fresnel Lens	Clear Lens	Prismatic Lens	
Clear Cone, White Flange	8095FCLW	8095CCLW	8095PCLW	7213HM120 Magnetic 2-pin 120V
Clear Cone, Polished Flange	8095FCLP	8095CCLP	8095PCLP	7213HM277 Magnetic 2-pin 277V
White Cone, White Flange	8095FVHW	8095CVHW	8095PVHW	(2) 13W Twin Tube 2-Pin
	*Opal Diffuser			
Clear Cone, White Flange	8095DCLW			
Clear Cone, Polished Flange	8095DCLP			
White Cone, White Flange	8095DVHW			

Features

- Reflector:** 16 ga. Die-formed aluminum, Anobrite® finish.
- Socket Cup:** Die-cast zinc cup effectively dissipates heat and positions lamp holder. Snaps onto reflector neck to assure consistently correct optical alignment without tools.
- Mounting Frame:** Die-cast aluminum for dry or plaster ceilings. Accepts other 6" triple tube reflectors.
- Retaining Springs:** Precision-tooled steel friction springs secure reflector to mounting frame for quick, tool-less installation.
- Mounting Brackets:** 16 ga. steel. Adjust from inside of fixture. Use 3/4" or 1 1/2" lathing channel, 1/2" EMT, or optional mounting bars.
- Ballast/J-Box:** Outboard-mounted to reduce heat transfer and maintain lamp efficacy and life. Service from below without tools.
- Shielding Media:** Molded acrylic. Available in fresnel lens, clear lens, or opal diffuser. Secured to aperture cone.
- Cone:** 16 ga. Alzak® aluminum. Clear Iridescence Free finish or Comfort Clear™ low iridescence finish. Retained by friction springs; no loose parts.

Electrical

Note: For ballast electrical data and latest lamp/ballast compatibility refer to "Ballast" specification sheet for complete electrical data.

UL listed for through branch circuit wiring with max of (8) No. 12 AWG, 90° C supply conductors.

Options and Accessories

Comfort Clear™ Finishes¹	Other Finishes
Clear CCL	White WH
Clear Diffuse CCD	
Champagne Bronze CCZ	

¹Specify desired flange
W White, **P** Polished

Options and Accessories (continued)

- Emergency Add suffix **EM***
- Chicago Plenum Add suffix **LC**
- Existing/Thk. Ceiling **FA EC7***
FA EM1T*
- Fuse (Slow Blow) Add Suffix **F**
- *See Spec. Sheets: FAEM

Mounting Bars & Accessories; see Specification Sheet MBA.
Sloped Ceiling Adapters; see Specification Sheet SCA.

Labels

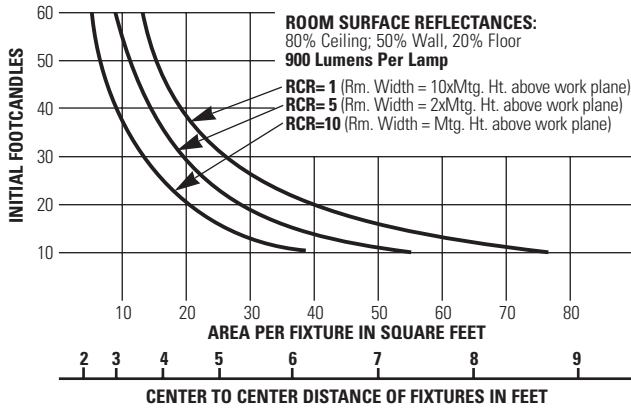
UL listed for wet locations.
*Opal Diffuser is UL listed for damp locations. I.B.E.W.

Alzak® is a registered trademark of ALCOA.

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

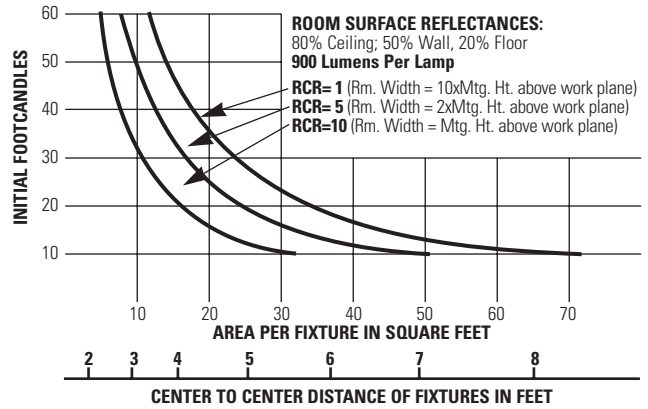
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13W Fresnel Lens/Clear Cone Quick Calculator



This quick calculator chart determines the number and spacing of 2 Lt. 13 watt Twin Tube units with Fresnel Lens and clear cone, for any level of illumination.
Conversion Factors: Fresnel Lens with White Cone: F.C. x 0.9.

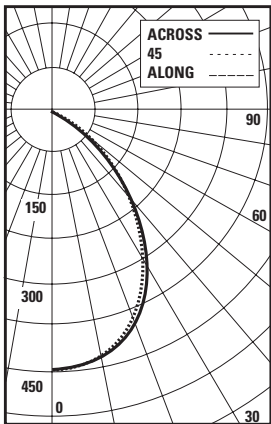
13W Opal Diffuser/Clear Lens Quick Calculator



This quick calculator chart determines the number and spacing of 2 Lt.-13 watt Twin Tube units with Opal Diffuser and Clear Cone for any level of illumination.
Conversion Factors: Opal Diffuser/White Cone; F.C. x 0.9. Clear Lens/Clear Cone: F.C. x 1.2. Clear Lens/White Cone: F.C. x 1.1.

Spacing Ratio = 1.1

Certified Test Report Number: 2527
COMPUTED BY: LSI PROGRAM "TEST-LITE"
PREPARED FOR: LIGHTOLIER INC.
APERTURE: 7 1/4"
REFLECTOR: SPECULAR CLEAR ALZAK CONE WITH REGRESSED FRESNEL LENS
LAMPS: TWO 13W TWIN TUBE LAMPS EACH RATED AT 900 LUMINES.



Angle	ALONG	22.5	45	67.5	ACROSS	LUMENS
0	447	447	447	447	447	
5	445	445	445	443	443	42
10	436	437	438	436	435	
15	418	420	423	422	421	119
20	390	393	396	397	397	
25	359	360	361	362	364	166
30	320	321	320	321	322	
35	273	277	278	276	276	173
40	223	227	228	227	226	
45	169	171	170	170	171	133
50	118	120	119	119	118	
55	52	54	50	49	49	53
60	16	17	17	18	17	
65	3	4	4	4	4	6
70	0	1	1	0	0	
75	0	1	1	0	0	1
80	0	3	0	0	0	
85	0	0	0	0	0	0
90	0	0	0	0	0	

Zone	Lumens	% Lamp	% Luminaire
0-30	327	18.18	47.19
0-40	495	27.78	72.11
0-60	686	38.12	98.97
0-90	693	38.52	100.00
40-90	195	10.74	27.89
60-90	7	.40	1.03
90-180	0	.00	.00
0-180	693	38.52	100.00

****EFFICIENCY = 38.5%****

DATE: OCTOBER 11, 1992

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

Coefficients Of Utilization

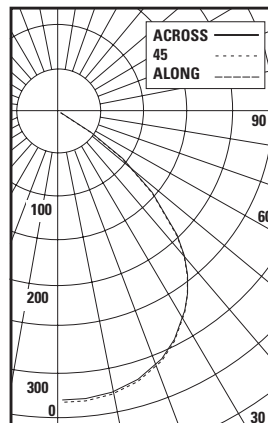
ROOM CAVITY RATIO	% Effective Ceiling Cavity Reflectance															
	80			70			50			30			10			0
	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
1	.43	.42	.41	.42	.41	.40	.40	.39	.39	.39	.38	.38	.37	.37	.37	.36
2	.39	.38	.36	.39	.37	.36	.37	.36	.35	.36	.35	.35	.35	.35	.34	.33
3	.36	.34	.33	.36	.34	.33	.35	.33	.32	.34	.33	.32	.33	.32	.31	.30
4	.34	.32	.30	.33	.31	.30	.32	.31	.29	.32	.30	.29	.31	.30	.29	.28
5	.31	.29	.27	.31	.29	.27	.30	.28	.27	.29	.28	.26	.29	.27	.26	.26
6	.29	.26	.25	.28	.26	.24	.28	.26	.24	.27	.25	.24	.27	.26	.24	.23
7	.30	.24	.22	.26	.24	.22	.26	.23	.22	.25	.23	.22	.25	.23	.22	.21
8	.24	.22	.20	.24	.22	.20	.23	.21	.20	.23	.21	.20	.23	.21	.20	.19
9	.22	.20	.18	.22	.20	.18	.22	.20	.18	.21	.19	.18	.21	.19	.18	.17
10	.21	.18	.16	.21	.18	.16	.20	.18	.16	.20	.18	.16	.20	.18	.16	.16

20% FLOOR CAVITY REFLECTANCE

Conversion Factors: Fresnel Lens with White Cone: C.U. x 0.9.

Spacing Ratio = 1.2

Certified Test Report Number: 2528
COMPUTED BY: LSI PROGRAM "TEST-LITE"
PREPARED FOR: LIGHTOLIER INC.
APERTURE: 7 1/4"
REFLECTOR: SPECULAR CLEAR WITH REGRESSED OPAL DIFFUSER
LAMPS: TWO 13W QUAD TUBE LAMPS EACH RATED AT 900 LUMINES.



Angle	Along	22.5	45	67.5	Across	Lumens
0	339	339	339	339	339	
5	338	338	339	337	337	32
10	335	334	336	335	334	
15	328	329	331	329	328	93
20	318	319	320	319	319	
25	304	304	306	305	305	141
30	285	286	288	286	286	
35	260	261	263	263	263	164
40	229	231	233	233	232	
45	187	189	190	191	190	145
50	134	135	136	137	137	
55	59	58	58	58	57	61
60	18	19	20	21	19	
65	3	3	4	4	3	7
70	0	1	1	0	0	
75	0	1	1	0	0	1
80	0	3	0	0	0	
85	0	0	0	0	0	0
90	0	0	0	0	0	

ZONAL LUMENS AND PERCENTAGES

Zone	Lumens	% Lamp	% Luminaire
0-30	265	14.77	41.37
0-40	429	23.86	66.82
0-60	634	35.27	98.80
0-90	642	35.70	100.00
40-90	213	11.85	33.18
60-90	7	.43	1.20
90-180	0	.00	.00
0-180	642	35.70	100.00

****EFFICIENCY = 35.7%****

DATE: OCTOBER 11, 1992

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

Coefficients Of Utilization

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	50	30	10	0
1	.39	.38	.37	.39	.38	.37	.37	.36	.36	.36	.35	.35	.34	.34	.34	.33
2	.36	.35	.33	.36	.34	.33	.34	.33	.32	.33	.32	.32	.32	.32	.31	.30
3	.33	.31	.30	.33	.31	.30	.32	.30	.29	.31	.30	.29	.30	.29	.28	.28
4	.31	.28	.27	.30	.28	.27	.29	.28	.26	.29	.27	.26	.28	.27	.26	.25
5	.28	.26	.24	.28	.26	.24	.27	.25	.24	.26	.25	.23	.26	.24	.23	.23
6	.26	.23	.22	.25	.23	.21	.25	.23	.21	.24	.23	.21	.24	.22	.21	.20
7	.23	.21	.19	.23	.21	.19	.23	.20	.19	.22	.20	.19	.22	.20	.19	.18
8	.21	.19	.17	.21	.19	.17	.21	.19	.17	.20	.18	.17	.20	.18	.17	.16
9	.20	.17	.15	.19	.17	.15	.19	.17	.15	.18	.16	.15	.18	.16	.15	.14
10	.18	.15	.14	.18	.15	.14	.17	.15	.14	.17	.15	.14	.17	.15	.13	.13

20% FLOOR CAVITY REFLECTANCE

Conversion Factors: Opal Diffuser/White Cone: C.U. x 0.9. Clear Lens/Clear Cone: C.U. x 1.3. Clear Lens/White Cone: C.U. x 1.2.

Job Information Type:

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