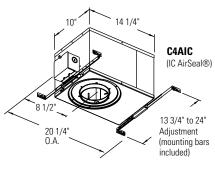
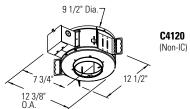


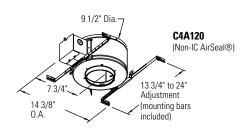
# Calculite® Evolution Incandescent Open Downlight **C4AD**

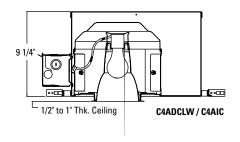
# Page 1 of 2

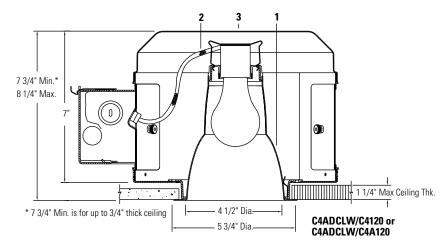
# 4 1/2" Aperture A19 / MB19 / BT15 Reflector Trim











#### Ceiling Cutout: 5 1/16" (129 mm) Dia.

Reflector Trin	1	Frame-In Kit									
C4AD CLW	Specular Clear, White Flange	Non-IC	Non-IC AirSeal®	IC-AirSeal®	Non-IC Remodeler						
C4AD CLP C4AD	Specular Clear, Polished Flange Add suffix. See options for other finishes.	C4120 100W A19, MB19 100W BT15	C4A120 100W A19, MB19 100W BT15	60W MB19 75W A19, BT15	C4120RM 100W A19, MB19 100W BT15						

#### **Features**

- Reflector: 16 ga. Alzak® aluminum, 50° visual cutoff to lamp and lamp image, medium spread distribution. Available with painted white or polished flange. Interchangeable with other Evolution 4 1/2" line voltage trims.
- Socket Harness: Spring tension clips snap into die-cast aluminum top at pre-focused positions insuring correct optical alignment. Medium base porcelain socket with nickel plated screw shell, No.18 SF-1, leads to keyed plug-in quick connector for power connection to junction box.
- Frame-In Kit: Compatible Frame-In Kits are listed above. See separate Frame-In Kit specification sheets for details.

Non-IC and Non-IC AirSeal® - Insulation must be kept 3" away from fixture sides and wiring compartments and must not be placed above fixture in a manner which will entrap heat.

IC-AirSeal® - Fixture may be in direct contact with insulation.

#### **Options and Accessories**

#### Reflector Finishes<sup>1</sup>

Comfort Clear Diffuse Specular Gold GD White WH

<sup>1</sup>Specify desired flange **W** White, **P** Polished

### Labels

UL Listed (suitable for damp locations), I.B.E.W.

Alzak® is a registered trademark of ALCOA.

US Patent No. 5,957,573. Other US and Foreign Patents Pending.

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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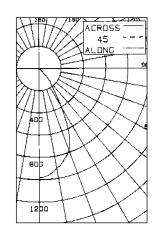
# Calculite® Evolution Incandescent Open Downlight **C4AD**

### Page 2 of 2

## 4 1/2" Aperture A19 / MB19 / BT15 Reflector Trim

#### SPACING RATIO = 0.9

CERTIFIED TEST REPORT NO. 0836FR COMPUTED BY LSI PROGRAM \*\*TEST-LITE\*\* RECESSED OPEN REFLECTOR DOWNLIGHT 4 1/2" DIA. APERTURE, SPECULAR CLEAR FINISH REFLECTOR 100W A-19 PHILIPS LAMP. LUMEN RATING = 1600 LMS.



DATE: July 20, 1999 PREPARED FOR LIGHTOLIER, FALL RIVER, MA

N NATING = 1000 LIVIS.											
CANDLEPOWER SUMMARY											
ANGLE		LUMENS									
0	979										
5	960	91									
10	910										
15	853	241									
20	780										
25	626	281									
30	393										
35	221	155									
40	153										
45	35	44									
50	7										
55	0	2									
60	0										
65	0	0									
70	0										
75	0	0									
80	0										
85	0	0									
90	0										
ZONAL L	UMENS AN	D PERCENTAGES									

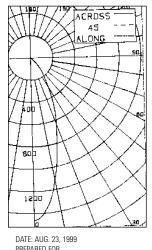
LUMENS % LAMP % LUMINAIRE 38.26 47.95 5.65 50.83 100.00 \*\* EFFICIENCY = 50.8% \*\*

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

COEFFICIENTS OF UTILIZATION																	
	% EFFECTIVE CEILING CAVITY REFLECTANCE																
		80 70 50 30										10			0		
			% WALL REFLECTANCE														
		50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
0	1	.57	.56	.55	.56	.55	.54	.54	.53	.53	.52	.52	.51	.51	.50	.50	.49
ATI	2	.54	.53	.51	.53	.52	.51	.52	.51	.50	.50	.49	.49	.49	.48	.48	.47
ROOM CAVITY RATIO	3	.51	.49	.48	.51	.49	.48	.50	.48	.47	.48	.47	.46	.47	.46	.45	.45
1	4	.49	.47	.45	.49	.47	.45	.48	.46	.44	.47	.45	.44	.46	.44	.43	.43
2	5	.47	.44	.42	.46	.44	.42	.45	.43	.42	.44	.43	.42	.44	.42	.41	.41
2	6	.45	.42	.40	.44	.42	.40	.43	41	.40	.43	.41	.40	.42	.41	.39	.39
B0	7	.42	.40	.38	.42	.40	.38	.41	.39	.38	.41	.39	.38	.40	.39	.37	.37
	8	.40	.38	.36	.40	.38	.36	.39	.37	.36	.39	.37	.36	.39	.37	.35	.35
	9	.38	.36	.34	.38	.36	.34	.38	.35	.34	.37	.35	.34	.37	.35	.34	.33
	10	.36	.34	.32			.32						.32	1.35	.33	.32	.31
						20%	FL00	R CA	VITY	REFL	ECTA	NCE					
ĺ	Conve	rsion	Facto	rs													
	40W t																
l	60W to 100W BT15: Clear C.U. x 0.85: Diffuse, C.U. x 0.70: Gold C.U. x 0.75																

CERTIFIED TEST REPORT NO. 0902FR
COMPUTED BY LSI PROGRAM \*\*TEST-LITE\*\*
RECESSED OPEN REFLECTOR DOWNLIGHT
4 1/2" DIA. APERTURE, SPECULAR CLEAR FINISH REFLECTOR 100W MB-19 SYLVANIA LAMP, LUMEN RATING = 1850 LMS.

SPACING RATIO = 0.6



PREPARED FOR LIGHTOLIER, FALL RIVER, MA

CA	NDLEPOW	ER SUMM.	ARY	
ANG	SLE MEAN	CP LUM	ENS	
0	146	60		
5	135	55 12	26	
10	11	11		
15	84	19 24	14	
20	63	32		
25	46	60 21	4	
30	29			
35		98 13	30	
40		35		
45		7 5	4	
		1		
	55		2	
60	(			
65	(		)	
70	(			
75	(		)	
80	(			
85	(		)	
90	(	)		
ZON	AL LUMENS	AND PER	CENTAGES	
ZONE	LUMENS	% LAMP	%LUMINAIRI	=
0-30	583	31.56		
0-40	714	38.61	92.66	
0-60	770	41,67		
n-9n	770	41 67	100.00	

7.34 770 EFFICIENCY = 41.7% \*\*

TESTED ACCORDING TO IES PROCEDURES. TEST DISTANCE EXCEEDS FIVE TIMES

	COEFFICIENTS OF UTILIZATION																	
	% EFFECTIVE FLOOR CAVITY REFLECTANCE    80   70   50   30   10																	
			80				70			50			30					
						% WALL REFLECTANCE												
BOOM CAVITY BATIO			50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
		1	.47 .	46	.45	.46	.45	.45	.44	.44	.41	.41	.42	.42	.41	.41	.41	.40
		2.	45.	43	.42	.44	.43	.42	.42	.42	.41	.41	.41	.40	.40	.40	.39	.39
	2	3.	42.	41	.39	.42	.40	.39	.41	.40	.39	.40	.39	.38	.39	.38	.37	.37
	₹	4	.40.	39	.37	.40	.38	.37	.39	.38	.37	.38	.37	.36	.38	.37	.36	.35
1	_	5	.39 .	37	.35	.38	.36	.35	.37	.36	.35	.37	.35	.34	.36	.35	.34	.34
1	₹	6	.37.3	35	.34	.37	.36	.33	.36	.34	.33	.35	.34	.33	.35	.34	.33	.32
1	د ≥	7	.35.3	33	32	.35	.33	.32	.34	.33	.32	.34	.32	.31	.34	.32	.31	.31
3	3	8	.34.3	32	.30	.33	.31	.30	.33	.31	.30	.33	.31	.30	.32	.31	.30	.29
ľ	¥	9	32.3	30	.29	.32	.30	.29	.31	.30	.29	.31	.30	.28	.31	.29	.28	.28
		10	.31.	29	.27	.30	.29	.27	.30	.28	.27	.30	.28	.27	.30	.28	.27	.27
20% FLOOR CAVITY REFLECTANCE																		

Conversion Factors:

60W to 100W MB19: Clear, C.U.x 1.00: Diffuse, C.U.x 0.85; Gold C.U.x0.9