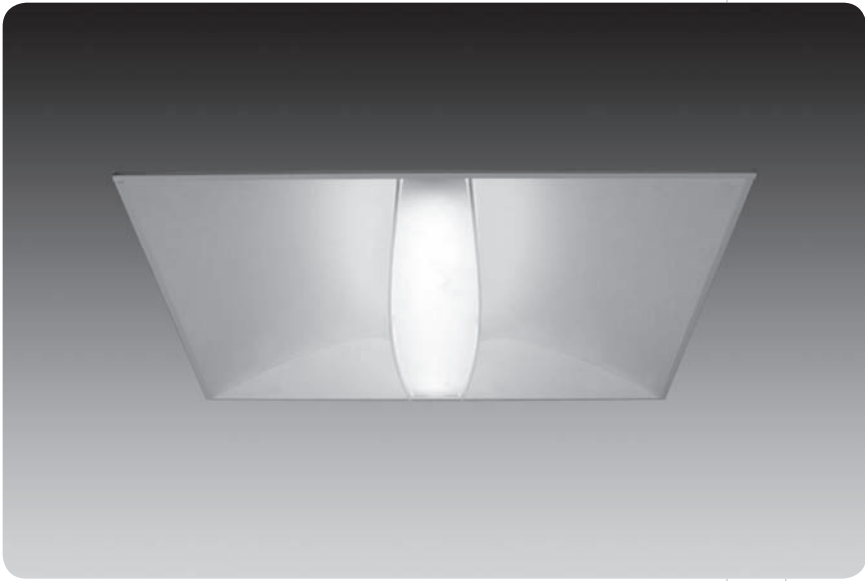


birdie™



Design: Hartmut S. Engel
Covered by U.S. Patent No. 6,523,974.

features

2'x2' recessed indirect with frosted white acrylic diffuser.

Birdie's™ 92% efficiency provides energy savings.

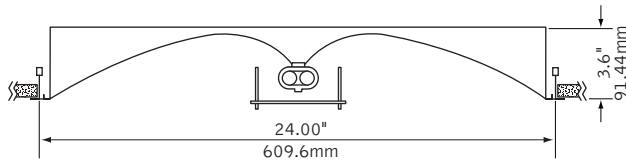
High reflectance, low gloss Matte White finish controls glare and provides high efficiency.

Shallow 3.6" deep housing is an excellent solution for low plenum applications.

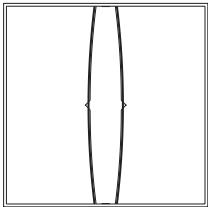
Luminaire may be continuously row mounted.

Great solution for corridors, small offices and other specialty applications.

dimensional data



lens configuration



lampping options



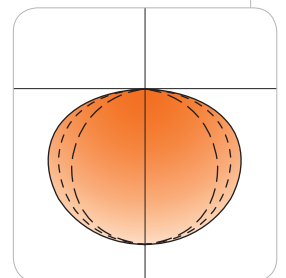
BIAx LAMP



T5/T5HO LAMPS

performance

1-Lamp 40W Biax
92% Efficiency
817 cd @ 5°



Visit focalpointlights.com for complete photometric data.

august 2008

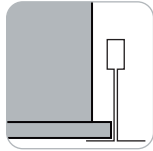
fixture:

project:

mounting information

grid

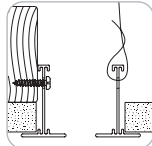
specify "G" for flat 9/16" and 15/16" tee.



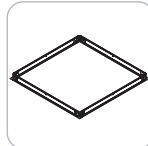
"G" flat tee

drywall frame kit

specify "DF" Drywall Frame Kit for drywall ceiling conditions.



Use tie-wire or screws to secure frame kit.



cut out dimensions:
2': Min: 24.125"
Max: 24.563"

specifications

construction

One piece 20 Ga. steel housing.
Lamps are shielded by three piece, .118" thick frosted acrylic diffuser.
Shields lock together and have a positive, snap-fit connection to housing end cap.
Top access 20 Ga. steel ballast compartment.

weight: 28 lbs

optic

One-piece 20 Ga. steel reflectors finished in Matte Satin White powder coat.

electrical

Electronic ballasts are thermally protected and have a Class "P" rating.
Optional dimming ballasts available.
Consult factory for dimming specifications and availability.
UL and cUL listed.

finish

Polyester powder coat applied over a 5-stage pre-treatment.

ordering

luminaire series	Birdie	FBD	<u>FBD</u>
nominal size	2'x2'	22	<u>22</u>
distribution	Bi-Directional	B	<u>B</u>
lamp quantity	One Lamp (Biax only)	1	
	Two Lamps (T5 & T5H0 only)	2	
lamp type	40 Watt Biax	BX40	
	50 Watt Biax	BX50	
	55 Watt Biax	BX55	
	T5	T5	
	T5H0	T5H0	
ballast	Electronic Instant Start <20% THD (40 W Biax only)	E	
	Electronic Program Start <10% THD	S	
	Electronic Dimming Ballast*	D	
voltage	120 Volt	120	
	277 Volt	277	
	347 Volt	347	
mounting	Grid	G	<u>G</u>
shielding	Pearl White	PW	<u>PW</u>
factory options	Chicago Plenum	CP	
	Drywall Frame Kit (Cut out dimensions: Min:24.25"/Max: 24.563")	DF	
	Emergency Battery Pack*	EM	
	Earthquake Clip	EQ	
	HLR/GLR Fuse	FU	
	Flex Whip*	FW	
	Include 3000K Lamp	L830	
	Include 3500K Lamp	L835	
	Include 4100K Lamp	L841	
	Lutron™ Sensor Feed* (EcoSystem ballast required)	SF	
finish	Matte Satin White	WH	<u>WH</u>

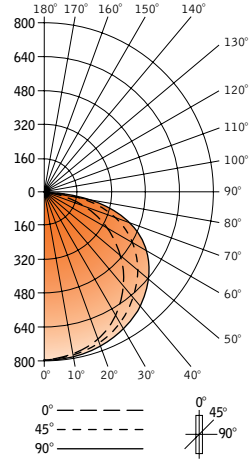
* for more information see Reference section.

birdie™



Filename: FBD221BX40PW.IES
 Catalog #: FBD-22-B-1-BX40-E-120-G-PW-WH
 Efficiency: 92%
 Test #: 11596.0

CANDLEPOWER DISTRIBUTION



Spacing 1.3
 Criterion: 1.4

Vertical Angle	Horizontal Angle				Zonal Lumens
	0°	22.5°	45°	67.5°	
0°	813	813	813	813	813
5°	809	817	813	814	815
15°	785	793	795	802	803
25°	728	745	761	778	787
35°	648	674	705	739	751
45°	544	581	636	683	697
55°	424	480	549	607	629
65°	291	360	447	507	529
75°	152	218	302	350	365
85°	36	68	94	115	116
90°	0	0	0	0	0
95°	0	0	0	0	0
105°	0	0	0	0	0
115°	0	0	0	0	0
125°	0	0	0	0	0
135°	0	0	0	0	0
145°	0	0	0	0	0
155°	0	0	0	0	0
165°	0	0	0	0	0
175°	0	0	0	0	0
180°	0	0	0	0	0

LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt
0°-30°	655	20.8	22.6
0°-40°	1098	34.9	37.9
0°-60°	2071	65.7	71.5
0°-90°	2893	91.9	99.9
Total Luminaire	2895	92	100

LUMINANCE DATA (CD/M²)

Vertical Angle	0°	45°	90°
45°	2237	2506	2747
55°	2149	2620	3002
65°	2003	2813	3329
75°	1708	2919	3528
85°	1201	2095	2585

CO-EFFICIENTS OF UTILIZATION

Floor	80				70				50				20			
Ceiling	70	50	30	10	70	50	30	10	50	30	10	00	50	30	10	00
Wall	99	99	99	99	99	99	99	99	99	99	99	99	98	98	94	94
RCR 0	99	99	99	99	99	99	99	99	99	99	99	99	98	98	94	94
1	99	95	91	87	97	93	85	89	83	85	80	82	85	80	78	76
2	90	82	75	70	87	80	69	77	67	74	66	71	64	64	62	62
3	82	72	64	58	80	70	57	68	56	65	55	63	54	52	52	52
4	75	63	55	48	72	62	48	60	47	57	47	55	46	44	44	44
5	68	55	47	40	66	54	40	52	40	50	39	49	39	37	37	37
6	62	49	41	34	60	48	34	47	34	45	34	43	33	31	31	31
7	57	44	36	30	55	43	29	42	29	40	29	39	29	27	27	27
8	52	39	31	25	51	39	25	37	25	36	25	35	25	23	23	23
9	48	35	27	22	47	35	22	33	22	32	21	31	21	19	19	19
10	45	32	24	19	43	31	19	30	19	29	19	29	19	17	17	17

Numbers indicate percentage values of

Go to www.focalpointlights.com for additional photometric data.