



Catalog Number	
Notes	Type

Indoor Decorative

# Futra Linear Design

Linear T8 Fluorescent



## FEATURES & SPECIFICATIONS

### INTENDED USE

Provides general illumination in residential and light commercial applications. Ideal for use in kitchens, offices, closets, laundry rooms and all rooms in the house.

### ATTRIBUTES

Our linear Futra, emphasizes contemporary design to complement decors with modern sensibility while providing warm, inviting light with the latest technology. Simple, sleek cast end caps available in brushed nickel with an extruded white acrylic diffuser.

Utilizes (2) 17W or (2) 32W linear T8 straight tube fluorescent lamps for energy efficiency, superior color rendering and long life (not included).

Standard with 120 volt, 60Hz electronic ballast ensures no flickering and quiet operation without interfering with other electronics. Also available in other ballast configurations.

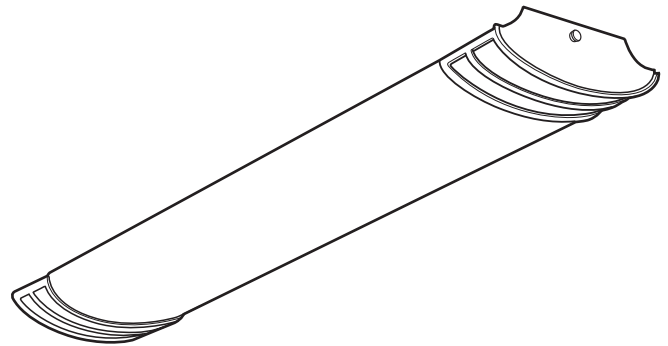
For use with non-dimmable switches only.

### LISTING

CUL listed to US and Canadian safety standards and suitable for wet locations. Energy Star® qualified.

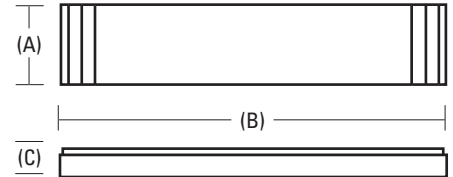
### WARRANTY

Guaranteed for two years against mechanical defects in manufacture.



## DIMENSIONS

Nominal Size	Lamp Configuration	Model Number	Number of Lamps	(A) Width inches (cm)	(B) Length inches (cm)	(C) Depth* inches (cm)
1'x2'		10815 BN	(2) 17W Linear T8	9-7/8" (25.1)	24-1/2" (62.2)	3-1/2" (8.9)
1'x4'		10813 BN	(2) 32W Linear T8	9-7/8" (25.1)	48-1/2" (123.2)	3-1/2" (8.9)



\* Extension from ceiling

All dimensions are in inches (centimeters)

## ORDERING INFORMATION

Example: **10813 BN**

Choose the boldface catalog nomenclature that best suits your needs and write it on the appropriate line. Order accessories as separate catalog numbers.

<b>Model Number<sup>1</sup></b>
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**10815** 1'x2' - (2) 17W Linear T8 fluorescent lamps  
(not included)

**10813** 1'x4' - (2) 32W Linear T8 fluorescent lamps  
(not included)

<b>BN</b>
<b>Finish</b>

**BN** Brushed Nickel

<b>Ballast/Voltage</b>
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(blank) 120 volt residential electronic ballast (standard)

Other voltage and ballast types  
(Consult factory)

### Accessories/Replacement parts

**DFAL48** 48" White acrylic diffuser

Notes:  
1. Lamps not included.

# Futra Linear Design

## PHOTOMETRICS

DATE: 7/2/2007

TEST NO: LTL16070

LUMINAIRE CATALOG NO.: DECORATOR MODEL 10813 BZA

LUMINAIRE DESCRIPTION: DECORATOR "FUTRA LINEAR" NOM. 1' X 4' TWO (2) LAMP T8 THERMOFORMED WHITE ACRYLIC DIFFUSER 1.75" DEEP BRONZE DECORATIVE END TRIMS RESIDENTIAL ELECTRONIC BALLAST.

LAMP CATALOG NO.: FO32/735/ECO

LAMP DESCRIPTION: TWO 32-WATT T8 LINEAR FLUORESCENT

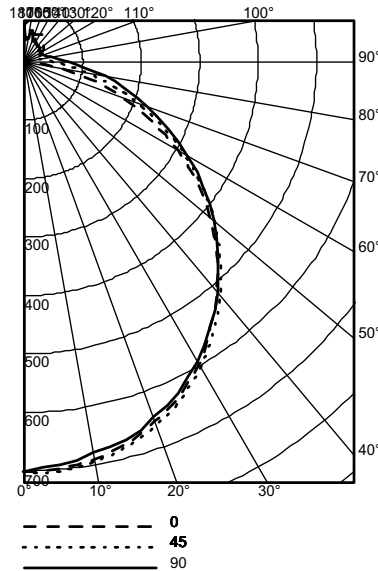
BALLAST DESCRIPTION: (KEYSTONE) KTEB-2C72-1-TP

LUMENS PER LAMP: 2850

INPUT WATTS: 54.9

### CANDELA DISTRIBUTION

0	22.5	45	67.5	90	Ave	Lumens
0	702	702	702	702	702	702
5	698	698	704	698	692	699
15	676	674	681	674	669	675
25	630	629	636	629	625	630
35	555	559	564	557	555	559
45	466	471	474	470	470	471
55	361	366	372	373	374	370
65	242	250	260	270	273	259
75	120	132	156	174	179	153
85	17	41	74	96	102	68
90	0	19	49	70	78	44
95	4	12	34	52	59	32
105	17	14	24	34	39	25
115	32	22	25	31	33	28
125	40	30	30	33	33	32
135	50	36	36	35	35	37
145	54	53	39	38	37	44
155	51	56	46	39	38	46
165	51	55	53	51	55	53
175	66	66	58	48	43	57
180	60	60	60	60	60	60



TESTED BY: \_\_\_\_\_

### ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixture
0° - 30°	547.0	9.6	23.7
0° - 40°	896.8	15.7	38.9
0° - 60°	1590.4	27.9	69.0
0° - 90°	2086.5	36.6	90.5
90° - 120°	91.5	1.6	4.0
90° - 130°	120.4	2.1	5.2
90° - 150°	176.7	3.1	7.7
90° - 180°	218.5	3.8	9.5
0° - 180°	2305.0	40.4	100.0

LUMINAIRE EFFICIENCY: 40.4%  
CIE CLASSIFICATION: Direct

SPACING CRITERIA(0-Deg): 1.3  
SPACING CRITERIA(90-Deg): 1.3

### AVERAGE LUMINANCE (cd/m2)

	0°	45°	90°
45°	2197	1994	1928
55°	2066	1820	1769
65°	1833	1578	1582
75°	1406	1297	1393
85°	472	1027	1266

Calculations based on IES File Luminous Area:  
9.36 in. W x 47.88 in. L x 1.8 in. H

### COEFFICIENTS OF UTILIZATION

pc	80%				50%				20%				10%				0%
	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	
0	47	47	47	47	43	43	43	40	40	40	38	38	38	37			
1	43	41	39	37	37	36	34	35	34	33	33	32	31	30			
2	39	35	33	30	32	30	28	30	29	27	29	27	26	25			
3	35	31	28	25	28	26	24	27	24	23	25	23	22	21			
4	32	27	24	21	25	22	20	24	21	19	22	20	19	18			
5	30	24	21	18	22	20	17	21	19	17	20	18	16	15			
6	27	22	18	16	20	17	15	19	17	15	18	16	14	13			
7	25	20	16	14	18	15	13	17	15	13	17	14	13	12			
8	24	18	15	12	17	14	12	16	13	12	15	13	11	10			
9	22	17	13	11	15	13	11	15	12	10	14	12	10	09			
10	21	15	12	10	14	12	10	14	11	09	13	11	09	08			

### SINGLE LUMINAIRE PERFORMANCE

Task Height: 2.5ft.

Mounting Height	Initial FC		50% beam - 65.4°		10% beam - 110.9°	
	Center Beam	Diameter	FC	Diameter	FC	Diameter
8.0	21.4	7.1	10.7	16.0	2.1	
10.0	11.9	9.6	5.9	21.8	1.2	
12.0	7.6	12.2	3.7	27.6	0.7	
14.0	5.2	14.8	2.6	33.4	0.5	
16.0	3.8	17.3	1.9	39.2	0.4	



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### Consumer Products

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