

Featuring VirtualSource VS Reflectors

New Construction

TBXEB

Commercial Compact
Fluorescent Downlight
Non-IC Rated
120V, 277V, or
347V (Canada only)

DATE: _____ TYPE: _____

FIRM NAME: _____

PROJECT: _____



Aperture: Nominal 6"
Ceiling Cutout: 6³/₄"
Maximum Ceiling Thickness: 1¹/₂"
Width: 7¹/₂"
For conversion to millimeters,
multiply inches by 25.4
Not to Scale

APPLICATIONS:

Suitable for new construction where insulation, if present, is not installed above or within 3" of the fixture. The TBXEB utilizes a triple tube compact fluorescent lamp, providing good lumen output and excellent lumens per watt. The TBXEB is ideal for applications that require high efficiency, including office buildings, retail and hospitality spaces, restaurants, and residentially in kitchens and bathrooms.

OPTICS/REFLECTOR:

Trims use single spring retention system to fit snug to the ceiling plane, eliminating unwanted light leaks and sagging over time. Most trims are made of diecast aluminum and reflectors are Alzak processed, eliminating the risk of yellowing, cracking or warping. TO95 and TW95 feature Virtual Source® optics.

LAMP/SOCKET:

Use one (1) 26W (GX24q-3 base) or 32W (GX24q-3 base) 4-pin triple tube compact fluorescent lamp. Vertical or horizontal lamp orientation, depending on trim. Socket snaps into trim carrier to place lamp in proper position ensuring consistent appearance and performance. Refer to trim for specific lamp information. Lamps furnished by others. Use only OSRAM and GE lamps.

BALLAST:

One (1) compact fluorescent class "P" elec-

tronic ballast suitable for operating 26W or 32W triple tube lamps (see trim for lamp compatibility). Ballast accommodates 120V through 277V and is accessible from below ceiling. 347V available. The ballast's thermal protection prevents fixture from overheating when improperly installed or over-lamped. See reverse side for additional ballast information.

INSTALLATION:

Self-aligning bar hangers with integral forked nailing prongs allow for nail-less installation. Locking T-bar notch accommodates T-bar ceiling and expands to 27" for 24" joist spacing.

HOUSING:

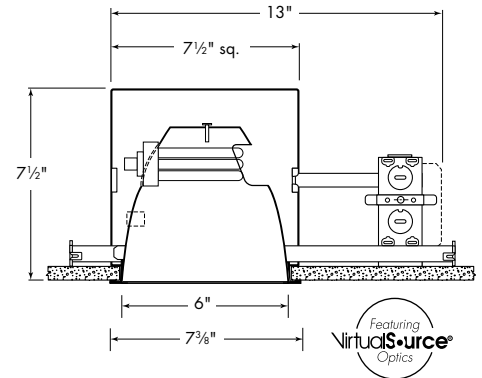
Unique square shape allows for greater lamp adjustability and the ability to accommodate a variety of trim types and lamp sources. 22 ga. C.R.S. housing. Two (2) 22 ga. snap-on covers provide easy access.

LABELS:

UL listed or UL/CSA listed with CDN option for all ceiling types. Insulation, if present, must not be on top of housing and be spaced 3" away from housing sides. U.L. listed for damp locations and through wiring. U.L. listed for wet locations when used with lensed (TL) trims. N.Y. City approved.

J-BOX:

Prewired 18 ga. galvanized steel junction



box with preinstalled ground wire and integral Romex connector. J-box is accessible from below ceiling through removable housing end panel.

*Note: TO95 trim configuration represented above. Configurations differ by trim.

CATALOG NUMBER:

EXAMPLE: TBXEB-TL1-TCA1

HOUSING OPTIONS & TRIMS	OPTIONS	TRIMS	ACCESSORIES	ACCESSORIES
<input type="checkbox"/> TBXEB	<input type="checkbox"/> CDN Canadian electrical code compliant ballast disconnect <input type="checkbox"/> CDN 347V¹ Canadian electrical code compliant ballast disconnect <input type="checkbox"/> DM Electronic dimming ballast	LENSED <input type="checkbox"/> TL1 <input type="checkbox"/> TL2 <input type="checkbox"/> TL3 <input type="checkbox"/> TL42 OPEN <input type="checkbox"/> TO4S <input type="checkbox"/> TO8 <input type="checkbox"/> TO95BF <input type="checkbox"/> TO95S <input type="checkbox"/> TO95WBF WALL WASH <input type="checkbox"/> TW95S	<input type="checkbox"/> MGR Metal "goof" rings. White metal trim ring covers oversized ceiling cutout. Specify outside dimension and trim catalog number. <input type="checkbox"/> PKT301 T-bar clips.	<input type="checkbox"/> SCA7 Sloped ceiling adaptor for LiteBox trims. Specify degree of slope and ceiling type. Not recommended for wall wash (TW) trims. Sloped ceiling adaptor and housing must be installed at the same time. <input type="checkbox"/> TCA1 Thick ceiling adaptor allows for use of LiteBox trims in ceilings 1 ¹ / ₂ " to 2 ¹ / ₂ " thick. <input type="checkbox"/> ICBOX Recessed enclosure for IC applications. Refer to specification sheet FT-INC-005

¹Dimming option not available for 347V



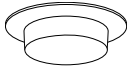
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In a continuing effort to offer the best product possible we reserve the right to change, without notice, specifications or materials that in our opinion will not alter the function of the product. Web: www.prescolite.com • Tech Support: (888) 777-4832

LB-CFL-003

Lensed

All Trims Are Wet Location Approved



TL1
Shower trim with dropped opal Lexan® lens.
Max. 26W or 32W vertical triple tube.



TL2
Shower trim with flat opal Lexan lens.
Max. 26W or 32W vertical triple tube.



TL3
Shower trim with clear prismatic Lexan lens.
Max. 26W or 32W vertical triple tube.



TL42
Shower trim with fresnel glass lens and an upper clear Alzak reflector.
Max. 26W horizontal triple tube.

Open



TO4 (S)
Clear (S) Alzak reflector.
Max. 26W or 32W vertical triple tube.



TO8
White reflector trim.
Max. 26W or 32W vertical triple tube.

Ⓢ vs



TO95 (S)
Specular clear (S) Alzak reflector with Virtual Source® optics.
Max. 26W or 32W horizontal triple tube.



TO95 (BF) (WBF)
Specular clear upper reflector with lower black (BF) or white (WBF) baffle and Virtual Source optics.
Max. 26W or 32W horizontal triple tube.

Wall Wash

Ⓢ vs



TW95
Wall wash downlight with clear Alzak reflector and Virtual Source optics.
Max. 26W or 32W horizontal triple tube.

 Denotes the trim is interchangeable with IBX, PBX and RMN housings.

PHOTOMETRICS

LiteBox® – TBXEB Compact Fluorescent

Electronic Ballast:
Flicker-free efficient operation of compact fluorescent lamps. Electronic ballast features include: UL Listed (Class P), Class A sound rating, End of Life protection, low total harmonic distortion, high power factor, and FCC approval. Lamp life is significantly extended due to the soft start/rapid start function and low current crest factor. Universal voltage provides ballast operation on 120V, 208V, 240V, and 277V systems.

Contact factory for 347V ballast data.

BALLAST DATA

Normal Power Factor Fixture Data (standard)

Trim Catalog Number	Ballast Factor	Amps	Watts
TBXEB 26W, 120V/277V	.98	120V: .22 277V: .09	26
TBXEB 32W, 120V/277V	.98	120V: .30 277V: .13	32
TBXEB 26W, 347V	1.00	.08	28
TBXEB 32W, 347V	1.00	.11	37

TO95S Triple Tube Compact Fluorescent Downlight with Specular Clear Alzak Reflector

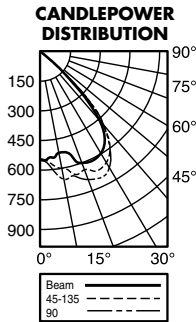
One 32W

Spacing Criteria = 1.5

Efficiency = 45.1%

Angle 90° 45° 0°

0	540	540	540
5	598	572	535
15	649	638	528
25	700	663	601
35	605	601	557
45	249	249	227
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0



COEFFICIENTS OF UTILIZATION Zonal Cavity Method

Room Cavity Ratio	% Effective Ceiling Cavity Reflectance																
	80%	70%	50%	30%													
	20% Effective Floor Cavity Reflectance																
% Wall Reflectance																	
	70	50	30	10	70	50	30	10	50	30	10						
1	.51	.50	.49	.48	.50	.49	.48	.47	.47	.46	.46	.45	.45	.44	.44	.43	.43
2	.49	.47	.45	.43	.48	.46	.44	.43	.44	.43	.42	.43	.42	.41	.42	.41	.40
3	.46	.43	.41	.39	.45	.42	.40	.39	.41	.40	.38	.40	.39	.38	.39	.38	.37
4	.44	.40	.38	.36	.43	.40	.37	.36	.39	.37	.35	.38	.36	.35	.37	.36	.34
5	.41	.37	.35	.33	.40	.37	.34	.32	.36	.34	.32	.35	.33	.32	.35	.33	.32
6	.39	.35	.32	.30	.38	.34	.32	.30	.34	.31	.30	.33	.31	.29	.32	.30	.29
7	.36	.32	.29	.27	.36	.32	.29	.27	.31	.29	.27	.30	.28	.27	.30	.28	.27
8	.34	.29	.27	.25	.34	.29	.26	.24	.29	.26	.24	.28	.26	.24	.28	.26	.24
9	.32	.27	.24	.22	.31	.27	.24	.22	.26	.24	.22	.26	.23	.22	.25	.23	.22
10	.30	.25	.22	.20	.29	.25	.22	.20	.24	.22	.20	.24	.21	.20	.23	.21	.20

Test No. PL5276

TO95BF Triple Tube Compact Fluorescent Downlight with Clear Upper Reflector and Lower Black Baffle

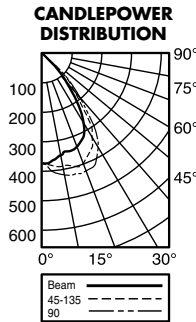
One 26W

Spacing Criteria = 1.1

Efficiency = 31.3%

Angle 90° 45° 0°

0	374	374	374
5	406	383	367
15	426	398	343
25	418	371	320
35	297	266	211
45	133	113	71
55	4	4	0
65	0	0	0
75	0	0	0
85	0	0	0



COEFFICIENTS OF UTILIZATION Zonal Cavity Method

Room Cavity Ratio	% Effective Ceiling Cavity Reflectance																
	80%	70%	50%	30%													
	20% Effective Floor Cavity Reflectance																
% Wall Reflectance																	
	70	50	30	10	70	50	30	10	50	30	10						
1	.36	.35	.34	.33	.35	.34	.33	.33	.33	.32	.32	.32	.31	.31	.31	.30	.30
2	.34	.33	.31	.30	.33	.32	.31	.30	.31	.30	.29	.30	.29	.29	.29	.29	.28
3	.32	.30	.29	.28	.32	.30	.29	.28	.29	.28	.27	.28	.28	.27	.28	.27	.26
4	.31	.28	.27	.26	.30	.28	.27	.25	.27	.26	.25	.27	.26	.25	.26	.25	.25
5	.29	.27	.25	.23	.29	.26	.25	.23	.26	.24	.23	.25	.24	.23	.25	.24	.23
6	.28	.25	.23	.22	.27	.25	.23	.22	.24	.23	.22	.24	.22	.21	.23	.22	.21
7	.26	.23	.21	.20	.26	.23	.21	.20	.23	.21	.20	.22	.21	.20	.22	.21	.20
8	.25	.22	.20	.18	.24	.21	.20	.18	.21	.19	.18	.21	.19	.18	.20	.19	.18
9	.23	.20	.18	.17	.23	.20	.18	.17	.19	.18	.17	.19	.18	.17	.19	.18	.16
10	.22	.19	.17	.15	.21	.18	.17	.15	.18	.16	.15	.18	.16	.15	.18	.16	.15

Test No. PL5540Y

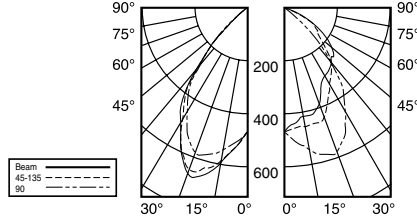
TW95 Triple Tube Compact Fluorescent Wall Wash Downlight with Clear Alzak Reflector

One 32W

Spacing Criteria = 0.9

Efficiency = 37.1%

CANDLEPOWER DISTRIBUTION



Downlight Side Wall Wash Side

CONTRIBUTION FROM SINGLE UNIT

1'	2'	3'	4'	Center Unit	Adjacent Unit	Center Unit	Adjacent Unit	
				UNITS ON 2' CENTER		UNITS ON 3' CENTER		
1	17	10	3	0	0	23	22	23
2	23	16	7	2	1	38	38	38
3	12	11	7	2	1	27	27	28
4	7	6	5	3	1	19	19	20
5	5	4	4	3	2	13	15	15
6	3	3	3	2	1	10	11	11
7	2	2	2	2	1	8	8	9
8	1	1	1	1	1	6	6	6
9	1	1	1	1	1	5	5	5
10	1	1	1	1	1	4	4	4
11	1	1	1	1	1	3	3	3
12	0	0	0	0	0	2	2	2

CONTRIBUTION FROM SINGLE UNIT

1'	2'	3'	4'	Center Unit	Adjacent Unit	Center Unit	Adjacent Unit	
				UNITS ON 3' CENTER		UNITS ON 4' CENTER		
1	3	2	1	0	0	4	3	4
2	11	9	5	2	1	16	15	16
3	10	9	5	3	2	17	17	17
4	7	6	5	3	2	14	14	13
5	4	4	4	3	2	11	11	11
6	3	3	3	2	2	9	8	8
7	2	2	2	2	1	7	7	7
8	2	2	2	1	1	6	6	6
9	1	1	1	1	1	5	5	5
10	1	1	1	1	1	4	4	4
11	1	1	1	1	1	3	3	3
12	1	1	1	1	1	3	3	3

2' DISTANCE FIXTURE MOUNTED OUT FROM WALLS FOOTCANDLE DISTRIBUTION ON WALL SURFACE

DISTANCE FROM CEILING IN FEET	1'	2'	3'	4'	Center Unit	Adjacent Unit	Center Unit	Adjacent Unit
1	17	10	3	0	0	23	22	23
2	23	16	7	2	1	38	38	38
3	12	11	7	2	1	27	27	28
4	7	6	5	3	1	19	19	20
5	5	4	4	3	2	13	15	15
6	3	3	3	2	1	10	11	11
7	2	2	2	2	1	8	8	9
8	1	1	1	1	1	6	6	6
9	1	1	1	1	1	5	5	5
10	1	1	1	1	1	4	4	4
11	1	1	1	1	1	3	3	3
12	0	0	0	0	0	2	2	2

Test No. PL5536

3' DISTANCE FIXTURE MOUNTED OUT FROM WALLS FOOTCANDLE DISTRIBUTION ON WALL SURFACE

DISTANCE FROM CEILING IN FEET	1'	2'	3'	4'	Center Unit	Adjacent Unit	Center Unit	Adjacent Unit
1	3	2	1	0	0	4	3	4
2	11	9	5	2	1	16	15	16
3	10	9	5	3	2	17	17	17
4	7	6	5	3	2	14	14	13
5	4	4	4	3	2	11	11	11
6	3	3	3	2	2	9	8	8
7	2	2	2	2	1	7	7	7
8	2	2	2	1	1	6	6	6
9	1	1	1	1	1	5	5	5
10	1	1	1	1	1	4	4	4
11	1	1	1	1	1	3	3	3
12	1	1	1	1	1	3	3	3

Test No. PL5536