

Features

- Available in 2'*2' 35W and 2'*4' 42W for recessed installation
- Lumen output from 3750-4520lm with efficacy of 107lm/W.
- White powder coated steel housing improves the efficacy of the fixtures.
- Built-in earthquake clips for safety.
- 0-10V Dimmable.
- UL listed and DLC qualified.



Applications

- Office, school, hospital and any commercial applications .



Specification

Specification/Model	TFARS22D35W27V50KH	TFARS24D42W27V50KH
Input Power	35W	42W
Lumens output	3760lm	4500lm
Efficacy	107 lm/W	107 lm/W
CRI	80	
Color Temperature	5000K	
Input Voltage	120-277VAC	120-277VAC
Finish Color	White	
Mounting	Recessed	
Equivalent	2 x 32W U-Bend	2 x 32W T8

Ordering Guide

EXAMPLE : TFARS22D35W27V50KH

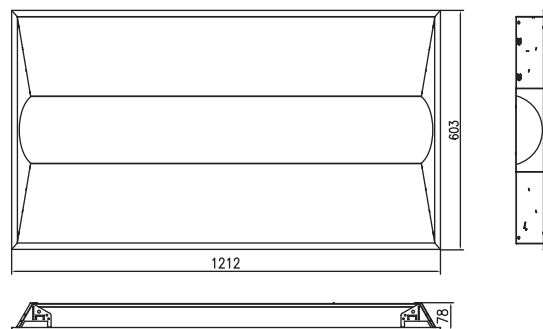
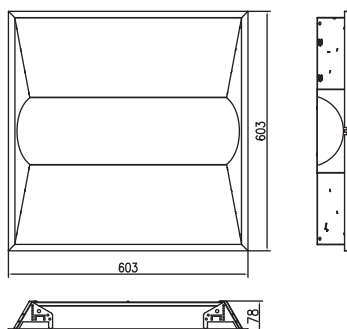
Lamp Type	Style	Arcuate Number	Size	Power Consumption	Input Voltage	CCT	CRI
TF Troffer	AR Arcuate	S Single	22D 2x2 foot	35W 35Watts	27V 120-277V	35K 3500K	H 80CRI
		D Double	24D 2x4 foot	42W 42Watts		40K 4000K	
						50K 5000K	

Ordering Information

Ordering Code	Input Voltage(VAC)	Luminaire Shape	Wattage (W)	CCT	Initial Lumens(lm)	Luminaire Efficacy(lpw)	Rated Life(hrs)	CRI	Power Factor	Beam Spread	Dimmable	Certificate
TFARS22D35W27V35KH	120-277	Troffer	35	3500K	3750	107	50000	80	0.9	120°	0-10V	UL / DLC
TFARS22D35W27V40KH	120-277	Troffer	35	4000K	3760	107	50000	80	0.9	120°	0-10V	UL / DLC
TFARS22D35W27V50KH	120-277	Troffer	35	5000K	3770	108	50000	80	0.9	120°	0-10V	UL / DLC
TFARS24D42W27V35KH	120-277	Troffer	42	3500K	4490	107	50000	80	0.9	120°	0-10V	UL / DLC
TFARS24D42W27V40KH	120-277	Troffer	42	4000K	4500	107	50000	80	0.9	120°	0-10V	UL / DLC
TFARS24D42W27V50KH	120-277	Troffer	42	5000K	4520	108	50000	80	0.9	120°	0-10V	UL / DLC

Dimensions

unit: mm



Photometry Data

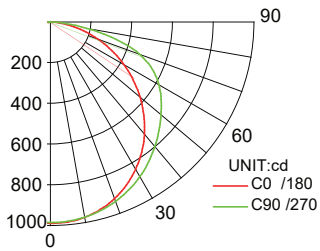
TFARS22D35W27V40KH

WATTAGE: 35W

LUMENS: 3760

TOTAL LUMINAIRE EFFICACY: 107

Candle Power Distribution (Candelas)



AVERAGE BEAM ANGLE(50%):123.9 DEG

Spacing Criteria

0-180 : 1.23
 90-270 : 1.33

EFFICACY: 107LM/W

Zonal Lumens Summary

Y	Φ zone	Φ total	%
0- 10	93.32	93.32	2.99
10- 20	268.5	361.8	11.61
20- 30	410.7	772.6	24.78
30- 40	502.8	1275.4	40.91
40- 50	535.3	1811	58.08
50- 60	511.6	2322	74.49
60- 70	437.5	2760	88.53
70- 80	287.4	3047	97.75
80- 90	67.01	3114	99.90
90- 100	0.2694	3114	99.91
100- 110	0.3548	3115	99.92
110- 120	0.4435	3115	99.93
120- 130	0.5087	3116	99.95
130- 140	0.5093	3116	99.96
140- 150	0.4694	3117	99.98
150- 160	0.3685	3117	99.99
160- 170	0.2281	3117	100.00
170- 180	0.0677	3117	100.00

Luminance Data (cd/sq.m)

G(DEG)	C0/180	C90/270
85	744	1990
80	1356	3173
75	1708	3767
70	1933	3846
65	2086	3642
60	2205	3415
55	2298	3209
50	2382	3061
45	2454	2960

Candela Tabulation

Y	C0	C45	C90
10	965.2	967.3	972.8
20	906.5	918.7	936.4
30	814.6	841.3	877.1
40	693.8	739.1	796.9
50	551.1	618.7	708.2
60	397.0	495.0	614.8
70	238.1	369.1	473.5
80	84.75	184.6	198.4
90	0.1809	0.2464	0.4796

Coefficients of Utilization - Zonal Cavity Method

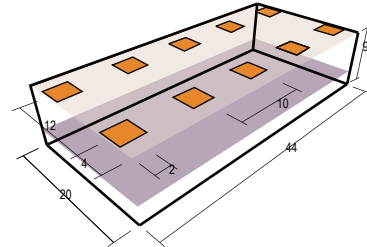
Effective Floor Cavity Reflectance 20% = PF

Pcc	80%			70%			50%			30%			10%			0	
Pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
Pfc	20%						20%						20%			0	
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)										0
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	.00	
1.0	1.03	.98	.94	1.01	.96	.93	.96	.93	.90	.92	.89	.87	.89	.86	.84	.82	
2.0	.89	.82	.75	.87	.80	.74	.83	.78	.73	.80	.75	.71	.77	.73	.69	.67	
3.0	.77	.69	.62	.76	.68	.61	.73	.66	.60	.70	.64	.59	.67	.62	.58	.56	
4.0	.68	.59	.52	.67	.58	.52	.64	.57	.51	.62	.55	.50	.60	.54	.49	.47	
5.0	.61	.51	.44	.59	.51	.44	.57	.50	.44	.55	.48	.43	.53	.47	.43	.40	
6.0	.54	.45	.38	.53	.45	.38	.52	.44	.38	.50	.43	.38	.48	.42	.37	.35	
7.0	.49	.40	.34	.48	.40	.34	.47	.39	.33	.45	.38	.33	.44	.38	.33	.31	
8.0	.45	.36	.30	.44	.36	.30	.43	.35	.30	.41	.35	.30	.40	.34	.29	.27	
9.0	.41	.33	.27	.40	.32	.27	.39	.32	.27	.38	.31	.27	.37	.31	.26	.25	
10.0	.38	.30	.24	.37	.30	.24	.36	.29	.24	.35	.29	.24	.34	.28	.24	.22	

RC - Ceiling Cavity Reflectance RW - Wall Reflectance

Results

20' Width X 44' Length X 9' Height		2.5' WORKPLANE, LLF: 0.9			
Spacing	Average FC	No. of Luminaires	(LPD) w/ft2	Avg/Min	Max/Min
8' X 8'	54.11	12	0.443	1.90	2.69
8' X 10'	53.03	12	0.443	1.55	2.13
10' X 10'	39.58	10	0.443	1.50	2.43
10' X 10'	38.31	10	0.443	1.36	2.26



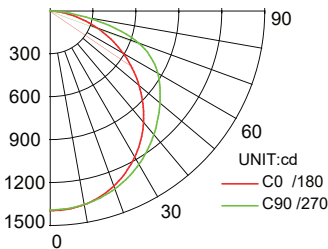
TFARS24D42W27V40KH

WATTAGE: 42W

LUMENS: 4500

TOTAL LUMINAIRE EFFICACY: 107

Candle Power Distribution (Candelas)



AVERAGE BEAM ANGLE(50%):123.9 DEG

Spacing Criteria

0-180 : 1.34
 90-270 : 1.24

EFFICACY: 107LM/W

Zonal Lumens Summary

Y	Φ zone	Φ total	%
0- 10	131.7	131.7	2.99
10- 20	378.9	510.6	11.61
20- 30	579.6	1090	24.78
30- 40	709.5	1800	40.91
40- 50	755.5	2555	58.08
50- 60	721.9	3277	74.49
60- 70	617.4	3895	88.53
70- 80	405.6	4300	97.75
80- 90	94.56	4395	99.90
90- 100	0.3802	4395	99.91
100- 110	0.5007	4396	99.92
110- 120	0.6258	4396	99.93
120- 130	0.7179	4397	99.95
130- 140	0.7187	4398	99.96
140- 150	0.6624	4398	99.98
150- 160	0.5200	4399	99.99
160- 170	0.3219	4399	100.00
170- 180	0.0955	4399	100.00

Luminance Data (cd/sq.m)

G(DEG)	C0/180	C90/270
85	525	1404
80	957	2239
75	1205	2658
70	1364	2714
65	1472	2570
60	1556	2410
55	1621	2265
50	1681	2159
45	1731	2088

Candela Tabulation

Y	C0	C45	C90
10	1362	1365	1373
20	1279	1296	1321
30	1150	1187	1238
40	979.1	1043	1125
50	777.8	873.2	999.4
60	560.2	698.6	867.6
70	335.9	520.9	668.3
80	119.6	260.4	279.9
90	0.2553	0.3477	0.6768

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 20% = PF

Pcc	80%			70%			50%			30%			10%			0	
Pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
Pfc	20%						20%						20%			0	
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)										0
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	.00	
1.0	1.03	.98	.94	1.01	.96	.93	.96	.93	.90	.92	.89	.87	.89	.86	.84	.82	
2.0	.89	.82	.75	.87	.80	.74	.83	.78	.73	.80	.75	.71	.77	.73	.69	.67	
3.0	.77	.69	.62	.76	.68	.61	.73	.66	.60	.70	.64	.59	.67	.62	.58	.56	
4.0	.68	.59	.52	.67	.58	.52	.64	.57	.51	.62	.55	.50	.60	.54	.49	.47	
5.0	.61	.51	.44	.59	.51	.44	.57	.50	.44	.55	.48	.43	.53	.47	.43	.40	
6.0	.54	.45	.38	.53	.45	.38	.52	.44	.38	.50	.43	.38	.48	.42	.37	.35	
7.0	.49	.40	.34	.48	.40	.34	.47	.39	.33	.45	.38	.33	.44	.38	.33	.31	
8.0	.45	.36	.30	.44	.36	.30	.43	.35	.30	.41	.35	.30	.40	.34	.29	.27	
9.0	.41	.33	.27	.40	.32	.27	.39	.32	.27	.38	.31	.27	.37	.31	.26	.25	
10.0	.38	.30	.24	.37	.30	.24	.36	.29	.24	.35	.29	.24	.34	.28	.24	.22	

RC - Ceiling Cavity Reflectance RW - Wall Reflectance

Results

20' Width X 42' Length X 9' Height		2.5' WORKPLANE, LLF: 0.9			
Spacing	Average FC	No. of Luminaires	(LPD) w/ft2	Avg/Min	Max/Min
8' X 8'	67.57	10	0.506	1.71	2.31
8' X 10'	66.89	10	0.506	1.42	1.90
10' X 10'	57.80	8	0.506	1.55	2.13
10' X 10'	55.57	8	0.506	1.45	2.05

