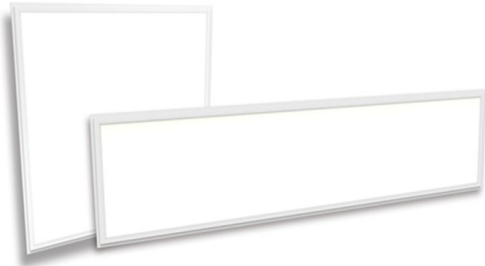


EnduraliteLED Edge Lit LED Panels


Features:

- ⊙ DLC Standard, doubled insulated external driver
- ⊙ High power factor ≥ 0.95 , THD < 15%
- ⊙ Light source: SMD4014, LM80
- ⊙ High efficiency, up to 100lm/W
- ⊙ High CRI: Ra > 80
- ⊙ Viewing angle: 120degree
- ⊙ Voltage: AC100-277V





W=3045±175K, N=3985±275K, D=5028±283K

- ⊙ Material: AL+PMMA+PS Diffuser
- ⊙ Warranty: 5 years
- ⊙ Approved by DLC, UL, RoHS, FCC

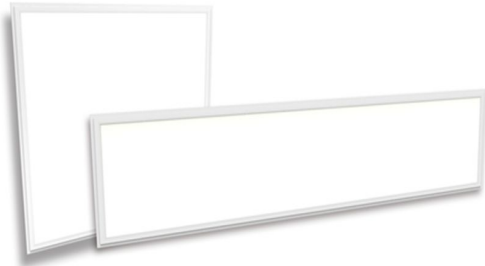


DLC UL LED Panel 100lm/W							
Model number	Wattage	Lumen	Size(mm)	LED Qty	Voltage	Driver type	Light efficiency
BDPE22NUA-36WA-SKBDA	36W	3600±5%	603*603*9	192	120V-277V	dimmable	100lm/w
BDPE22NUA-45WA-SKBDA	45W	4500±5%	603*603*9	216			
BDPE14NUA-36WA-SKBDA	36W	3600±5%	1213*300*9	192			
BDPE14NUA-45WA-SKBDA	45W	4500±5%	1213*300*9	216			
BDPE24NUA-60WA-SKBDA	36W	3600±5%	1213*603*9	384			
BDPE24NUA-72WA-SKBDA	45W	4500±5%	1213*603*9	384			
BDPE24NUA-60WA-SKBDA	60W	6000±5%	1213*603*9	384			
BDPE24NUA-72WA-SKBDA	72W	7200±5%	1213*603*9	384			
BDPE22NUA-36WA-SKBNA	36W	3600±5%	603*603*9	192	120V-277V	non dimmable	100lm/w
BDPE22NUA-45WA-SKBNA	45W	4500±5%	603*603*9	216			
BDPE14NUA-36WA-SKBNA	36W	3600±5%	1213*300*9	192			
BDPE14NUA-45WA-SKBNA	45W	4500±5%	1213*300*9	216			
BDPE24NUA-60WA-SKBNA	60W	6000±5%	1213*603*9	384			
BDPE24NUA-72WA-SKBNA	72W	7200±5%	1213*603*9	384			

Color temperatures available 3000K-6000K

Accessories			
Surface mounting box (ceiling/wall)			For 2*2ft panel
			For 1*4ft panel
			For 2*4ft panel
Gripper wire for pendant mount			For 2*2ft panel, 2pcs wireropes
			For 1*4ft panel, 3pcs wireropes
			For 2*4ft panel, 3pcs wireropes

EnduraliteLED Edge Lit LED Panels


Features:

- ⊙ DLC Standard, doubled insulated external driver
- ⊙ High power factor ≥ 0.95 , THD < 15%
- ⊙ Light source: SMD4014, LM80
- ⊙ High efficiency, up to 100lm/W
- ⊙ High CRI: Ra > 80
- ⊙ Viewing angle: 120degree
- ⊙ Voltage: AC100-277V

W=3045±175K, N=3985±275K, D=5028±283K





- ⊙ Material: AL+PMMA+PS Diffuser
- ⊙ Warranty: 5 years
- ⊙ Approved by DLC, UL, RoHS, FCC


Specifications:

DLC: **Red** Highlighted models DLC approved

Model No.	Overall Length(mm)	Dimmable	Voltage (V)	Power(W)	Lumen(lm)	CRI	PFC	THD	CCT(K)	Warranty
1'x1' (9-26W Option)										
FY-PL-1X1-09W	303x303x11	No	110V 277-347V	9	100LM/W	>80	>0.95	<14%	WW:3000-3500K; NW:4000/4100K; DW:5000K; CW:6000-6500K;	5 years
FY-PL-1X1-09W		1-10V		9						
FY-PL-1X1-18W		No		18						
FY-PL-1X1-18W		1-10V		18						
2'x2' (18-54W Option)										
FY-PL-2X2-30W	603x603x11	No	110V 277-347V	30	100LM/W	>80	>0.95	<14%	WW:3000-3500K; NW:4000/4100K; DW:5000K; CW:6000-6500K;	5 Years
FY-PL-2X2-30W		1-10V		30						
FY-PL-2X2-40W		No		40						
FY-PL-2X2-40W		1-10V		40						
FY-PL-2X2-50W		No		50						
FY-PL-2X2-50W		1-10V		50						
1'x4' (18-54W Option)										
FY-PL-1X4-30W	303x1213x11	No	110V 277-347V	30	100LM/W	>80	>0.95	<14%	WW:3000-3500K; NW:4000/4100K; DW:5000K; CW:6000-6500K;	5 Years
FY-PL-1X4-30W		1-10V		30						
FY-PL-1X4-40W		No		40						
FY-PL-1X4-40W		1-10V		40						
FY-PL-1X4-50W		No		50						
FY-PL-1X4-50W		1-10V		50						
2'x4' (36-88W Option)										
FY-PL-2X4-40W	603x1213x11	No	110V 277-347V	40	100LM/W	>80	>0.95	<14%	WW:3000-3500K; NW:4000/4100K; DW:5000K; CW:6000-6500K;	5 Years
FY-PL-2X4-40W		1-10V		40						
FY-PL-2X4-53W		No		53						
FY-PL-2X4-53W		1-10V		53						
FY-PL-2X4-72W		No		72						
FY-PL-2X4-72W		1-10V		72						

Color temperatures available 3000K-6000K

Accessories			
Surface mounting box (ceiling/wall)			For 2*2ft panel
			For 1*4ft panel
			For 2*4ft panel
Gripper wire for pendant mount			For 2*2ft panel, 2pcs wireropes
			For 1*4ft panel, 3pcs wireropes
			For 2*4ft panel, 3pcs wireropes

EnduraliteLED Indirect Troffer

Features

- Available in 2'X2' 35W and 2'X4' 42W for recessed installation
- Lumen output from 2000-4000lm with efficacy of 100lm/W.
- White powder coated steel housing improves the efficacy of the fixtures.
- Built-in earthquake clips for safety.
- 1-10V Dimmable.
- UL DLC listed.



Applications

- Offices, schools, health care and any other commercial applications .



Specification

Specification/Model	TFARS22D35W27V50KH	TFARS24D42W27V50KH
Input Power	35W	42W
Lumens output	3150lm	4200lm
Efficacy	90 lm/W	100 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: TF AR S 22D 35W 27V 50K H

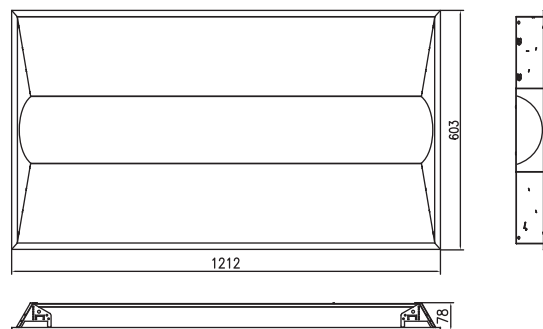
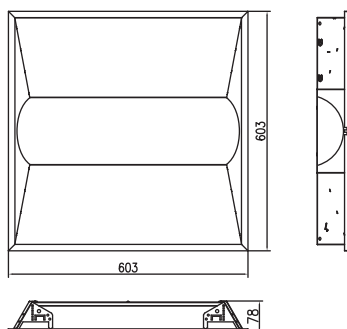
Lamp Type	Style	Arcuate Number	Size	Power Consumption	Input Voltage	CCT	CRI
TF Troffer	AR Arcuate	S Single	22D 2x2 foot	35W 35Watts	27V 120-277V	35K 3500K	H 80CRI
		D Double	24D 2x4 foot	42W 42Watts		40K 4000K	
						50K 5000K	

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	3150	90	50000	80	0.9	120°	1-10V	UL / DLC
TFARS22D35W27V40KH	120-277	Troffer	35	4000K	3150	90	50000	80	0.9	120°	1-10V	UL / DLC
TFARS22D35W27V50KH	120-277	Troffer	35	5000K	3150	90	50000	80	0.9	120°	1-10V	UL / DLC
TFARS24D42W27V35KH	120-277	Troffer	42	3500K	4200	100	50000	80	0.9	120°	1-10V	UL / DLC
TFARS24D42W27V40KH	120-277	Troffer	42	4000K	4200	100	50000	80	0.9	120°	1-10V	UL / DLC
TFARS24D42W27V50KH	120-277	Troffer	42	5000K	4200	100	50000	80	0.9	120°	1-10V	UL / DLC

Dimensions

unit: mm



Photometry Data

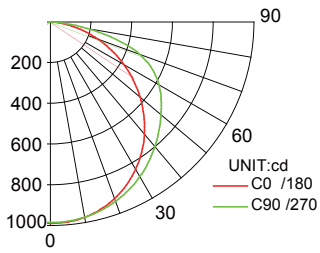
TFARS22D35W27V40KH

WATTAGE: 35W

LUMENS: 3150

TOTAL LUMINAIRE EFFICACY: 90

Candle Power Distribution (Candelas)



AVERAGE BEAM ANGLE(50%):123.9 DEG

Spacing Criteria

0-180 : 1.23
 90-270 : 1.33

EFFICACY: 90LM/W

Zonal Lumens Summary

Y	φ zone	φ t ot al	%
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

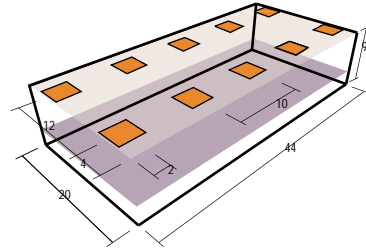
Coefficients of Utilization - Zonal Cavity Method
 Effective Floor Cavity Reflectance 20% = PF

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%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coeffocents 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	.96	.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



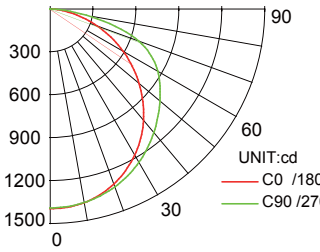
TFARS24D42W27V40KH

WATTAGE: 42W

LUMENS: 4200

TOTAL LUMINAIRE EFFICACY: 100

Candle Power Distribution (Candelas)



AVERAGE BEAM ANGLE(50%):123.9 DEG

Spacing Criteria

0-180 : 1.34
 90-270 : 1.24

EFFICACY: 100LM/W

Zonal Lumens Summary

Y	φ zone	φ t ot al	%
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%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coeffocents 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	.96	.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

