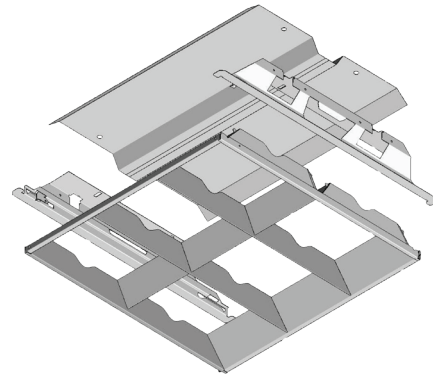


# Advanced White Louver Retrofit Kit

AWLR22U

## Features

- Energy saving lighting solution to help increase even light distribution and efficiency of old luminaires
- Transforms existing parabolic or prismatic luminaires into attractive, yet effective lighting systems
- Ideal for use in commercial, school, government, or other office or retail buildings and is designed for use in any compatible 2'x 4' recessed fixture with a minimum depth of 3 ¾"
- Helps to meet or exceed energy regulation standards such as LEED, California Title 24, and others
- Assembled in the USA



## Electrical Components

- All ballasts and lamp holders are UL and CSA listed. Ballasts are Class P Thermally Protected, Type 1 Outdoor, Class A Sound Rated
- Suitable for damp locations
- Lamps and ballasts warranted through their respective manufacturer
- All kit components are UL Classified to US and Canadian safety standards

## Construction

- The louver frame and center support are constructed of steel that has been treated with a highly reflective powder coated finish
- The cross-braces are built from a highly reflective powder coated aluminum and have a ribbed finish to help increase its aesthetic appeal
- The socket bars, made from steel, are treated with a powder coat finish
- The reflectors, made of steel or aluminum, have been treated with a highly reflective gloss
- The latches are equipped with a positive locking system to prevent premature door opening
- The hinges are reinforced to increase strength

## Ordering Options

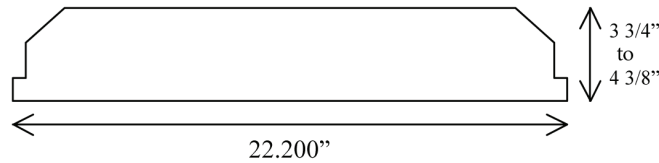
Example: AWLR22U-IL-2-L2735

<u>Kit</u>	<u>Dimension/ Watts</u>	<u>Ballast Type</u> (120v-277v or Custom)	<u>Socket Bar Type</u>	<u>Lamps</u> 2' 1 ¾" U-Tube	
AWLR22U	2'X 2' (2-Lamp)	IS, High-Efficiency, Low BF (.78)	IL	> 3 ¾" 2	2775 lumen 3500K <b>L2735</b>
		IS, High-Efficiency, Normal BF (.88)	IN	Custom CU	2775 lumen 4100K <b>L2741</b>
		IS, High-Efficiency, High BF (1.2)	IH		Custom Kelvin/Lumen <b>Custom</b>
		Programmed Start, Low BF (.71)	PL		
		Programmed Start, Normal BF (.88)	PN		
		Custom	CU		

Retrofit Kit Does Not Affect Existing Luminaire UL Listing

## Dimension Requirements

Existing fixture must have a minimum internal height of at least 3 3/4" to be compatible with the retrofit kit.

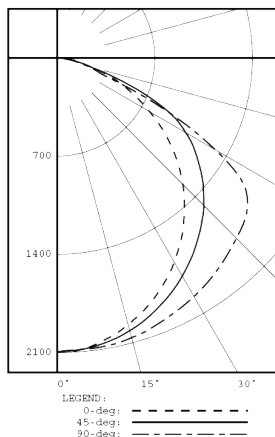


A sample installation is recommended prior to ordering large quantities.

System	Input Wattage	Mean Lumens	Energy Savings vs.	
			3:FB34T12	4:F20T12
4:F20T12 STD Magnetic Ballast @ 58% Parabolic	106	4,200	--	Baseline
2:FB34T12 STD Magnetic Ballast @ 58% Parabolic	82	3,935	Baseline	--
2:FBO31/841/XP HE ISN	53	4,640	35%	50%
2:FBO31/841/XP HE @ 79.9%	47	3,293	42%	55%

## Photometrics

AWLR22U-IN-2- L2741, ITL Report No. 61631, FBO31T8/841/XP/ECO Lamps 2775 Lumens



Candela Distribution Summary	Effective Floor Cavity Reflectance 20%		
	0°	45°	90°
0°	1592	1592	1592
5°	1573	1582	1592
15°	1482	1521	1570
25°	1338	1417	1521
35°	1148	1275	1446
45°	924	1097	1330
55°	677	874	1094
65°	410	552	579
75°	174	185	127
85°	43	39	23
90°	0	0	0

Coefficients of Utilization	Effective Floor Cavity Reflectance 20%												
	Pcc	80				70				50			
		Pw	70	50	30	10	70	50	30	10	50	30	10
0	95	95	95	95	93	93	93	93	89	89	89	89	
1	88	84	81	78	85	82	79	77	76	76	74	74	
2	80	74	68	64	78	72	67	63	69	65	62	62	
3	73	65	58	53	71	64	58	53	61	56	52	52	
4	67	57	51	45	65	56	50	45	54	49	44	44	
5	61	51	44	39	60	50	44	39	49	43	38	38	
6	57	46	39	34	55	45	39	34	44	38	34	34	
7	52	42	35	30	51	41	35	30	40	34	30	30	
8	49	38	31	27	48	38	31	27	36	31	26	26	
9	46	35	28	24	44	34	28	24	33	28	24	24	
10	43	32	26	22	42	32	26	22	31	25	22	22	

Zonal Lumen Summary			
Zone	Lumens	% Lamp	% Fixture
0-30°	1239	22.3	27.9
0-40°	2044	36.8	46.1
0-60°	3687	66.4	83.1
0-90°	4436	79.9	100.0

Luminance Data in Candela/Sq. M			
	Avg 0°	Avg 45°	Avg 90°
45°	4499	5341	6475
55°	4063	5246	6566
65°	3340	4497	4717
75°	2314	2461	1689
85°	1699	1541	909

Fixture Efficiency: 79.9%