

# Voice



Recessed

2'x4'

2 T5



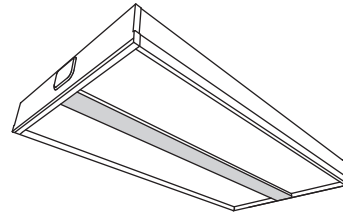
mesoOptics®



airwave™



RESPONSE®



Project Name

Spec Type

Notes

## Order Guide

Some combinations of product options may not be available. Consult factory for assistance with your specification.

9824

F228

Product Series & Size

Voice 2'x4'

Version

- D1** Standard T-Grid
- D2** Slot T-Grid
- A1** Air Return on Standard T-Grid
- A2** Air Return on Slot T-Grid

See details on next page

Configuration

- ST** Standalone
- CR** Continuous Row

Lamping

2 T5 (28W)

Housing

- S** Standard (22ga.)
- N** New York (20ga.)
- C** Chicago Plenum

Wiring

- 1** 1 cct
- 5** 1 cct w/ Battery Pack
- 7** 1 cct Dimming

Consult website for complete list of standard wiring options

Voltage

- 1** 120V
- 2** 277V
- 3** 347V

Ballast

- E** Standard Ballast
- S** 50/100 Power Step-Dim

Consult website for ballast manufacturer information

## Upgrades & Accessories

Please indicate with check mark.

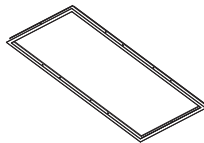
☐ Lamps Included

☐ Lamps Included & Installed

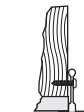
☐ Job Pack

☐ Flex Whip

☐ Drywall Kit



Can be mounted to wood frame or with hanger wire



Wood Frame

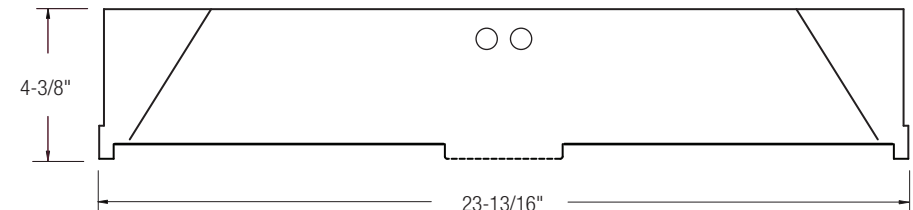


Hanger Wire

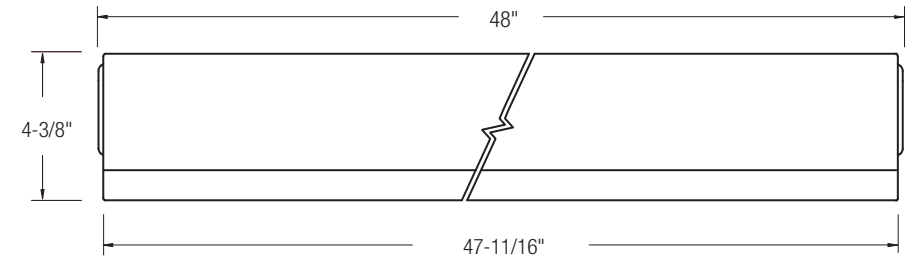
☐ Response Daylight

For details visit [www.ledalite.com/response](http://www.ledalite.com/response)

Cross Section

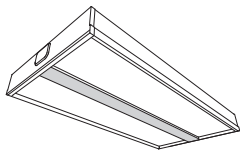


Side View



# Voice

Recessed  
2"x4"  
2 T5



## Photometry

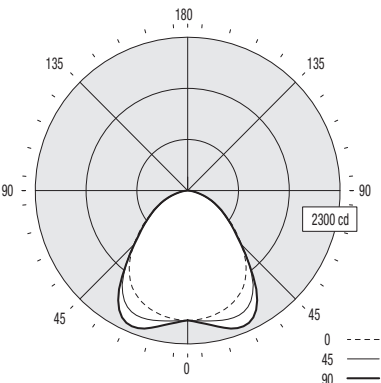
### Report Summary

Report # 9900724  
Filename 9824D1F228.ies  
Efficiency 86.1%

Spacing Criteria 1.28 @ 0° along  
1.42 @ 90° across

### Candela Distribution

Vertical Angle	Horizontal Angle					Zonal Lumens
	0	22.5	45	67.5	90	
0	1948	1948	1948	1948	1948	
5	1940	1948	1962	1975	1988	191
15	1887	1930	2014	2087	2131	570
25	1769	1853	2007	2150	2190	917
35	1532	1623	1725	1828	1806	1059
45	1154	1168	1153	1164	1136	898
55	751	745	718	738	730	663
65	451	451	434	454	448	442
75	196	200	190	208	197	213
85	21	30	33	40	38	41
90	0	0	0	0	0	



### Coefficients of Utilization (%)

Ceiling: Wall:	80				70				50				0			
	70	50	30	10	70	50	30	10	70	50	30	10	70	50	30	10
0 RCR	102	102	102	102	100	100	100	95	95	95	95	86				
1	95	91	88	85	92	89	86	85	83	83	81	74				
2	87	80	75	71	85	79	74	76	72	68	64					
3	80	72	65	60	78	70	64	68	63	58	55					
4	73	64	57	52	72	63	56	61	55	51	48					
5	68	58	50	45	66	57	50	55	49	44	42					
6	63	52	45	40	61	51	45	50	44	39	37					
7	58	47	40	35	57	47	40	46	39	35	33					
8	55	43	36	32	53	43	36	42	36	31	29					
9	51	40	33	29	50	39	33	38	33	28	27					
10	48	37	30	26	47	36	30	36	30	26	26					

Based on a floor reflectance of 0.2

### Avg. Luminance (cd/m²)

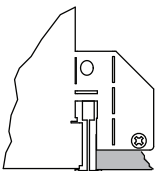
Vertical Angle	Horizontal Angle		
	0	45	90
55	1872	1790	1820
65	1526	1468	1515
75	1083	1049	1088
85	344	541	623

IES files for this and other photometric options can be downloaded online at [www.ledalite.com](http://www.ledalite.com)

## Additional Information

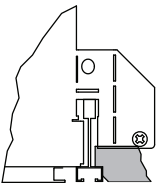
### Mounting

Integrates with most common T-bar ceiling types.



D1 Standard T-Grid

Option D1 works with 9/16" and 15/16" flat T-grid ceilings. It can also be used with slot T-grid ceilings, but it will not sit flush with the bottom of the T-bar.

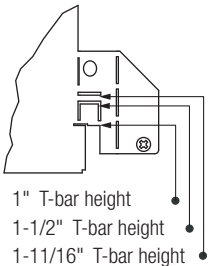


D2 Slot T-Grid

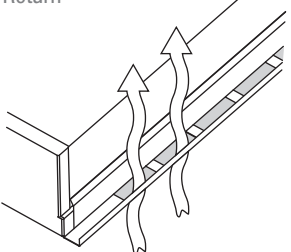
Option D2 is designed to sit flush with slot T-grid ceilings and some tegular tile ceiling types.

### Ceiling Types

Integrated mounting tabs can be field-adjusted to various T-bar ceiling heights for fastening directly to the T-bar grid and/or tied-off to the building structure.



### Air Return



The air return version features slotted vents along the sides of the fixture. As a result, the installation method of the air return version is different to the standard version, and the fixture cannot be installed in continuous rows.

## Specifications

Due to continuing product improvements, Ledalite reserves the right to change specifications without notice.

### Housing

Die-formed, post-painted, 22 gauge cold-rolled steel (New York City version is 20 gauge). Wire entrances are positioned on the side of the housing to allow easy wiring access for the installer. Multiple wire entrances are available on top or side to allow continuous row mounting of fixtures. Optional frame restraint is available to provide additional support to the optical frame.

### Weight

Maximum 40 lbs.

### Optical System

The optical frame assembly consists of flat acrylic panels with a layer of protected MesoOptics® film that provides high-angle glare control and high efficiency. The panels are secured to a perforated center shield using a linear prismatic acrylic diffuser. The optical frame ends are constructed from die-formed cold-rolled steel assembled together with extruded aluminum profiles in a sturdy frame. The frame is hinged to allow easy access to the inside of the fixture. Maintenance can be performed from below the ceiling without tools. No hardware is visible.

### Mounting

Fixture is compatible with most ceiling types. Integrated bend-out tabs are provided for different T-grid heights. Optional drywall kit is available for non-accessible ceilings. Use screws or hanger wire (supplied by others) to secure fixture.

### Ballast

Electronic. Supplied with pre-installed ballast disconnects as per national electric codes.

### Wiring

Optional flex whips are supplied in 6' lengths for 1x4, 2x2 and 2x4 fixtures. Flex connectors are supplied in 9' lengths for standard master/satellite configurations.

### Air Return

Air return option available in 2'x2' and 2'x4' sizes only. Side rails are finished in black.

### Approvals

Certified to UL & CSA Standards.  
City of Chicago Approved CCEA (housing option C).  
Designed to comply with NYC code requirements (Housing Option N).

### Finish

Housing and Frame: Post-painted, high quality powder coat. Available in white only.