Acoustic Wing Overview

Specifications

SHADES
9mm thick Sola Felt is a PET material, manufactured with 50% post-consumer recycled content. Sola Felt is a LBC Red List Free labeled product, eligible for LEED, Living Building Challenge, and other green building certification credits.

LIGHTING
Integrated LED light source offering high lumen output and efficacy. Color consistency of 3 SDCM. See additional information summarizing lumen distribution, wattage, and efficacy on following pages. Tunable white and RGB options available.

LUMEN MAINTENANCE
Reported TM-21 Lifetimes
L90(17k) = 52,600 hours
L80(17k) > 102,000 hours
L70(17k) > 102,000 hours

DIFFUSION
Frosted optical diffuser produces even illumination.

ELECTRICAL
Emergency battery output: 10 watts for 90 minutes. Maximum Mounting height: 14ft. Compatible with Signify Bodine sinusoidal output emergency lighting inverters. Signify Bodine inverters allow designated lighting fixtures to serve as code compliant emergency lighting sources during failure of normal AC power. For additional information see link: http://www.bodine.com/products/inverter.html

MOUNTING
Adjustable stainless steel aircraft cable, contact studio for lengths over 20'

DRIVERS
120–277V constant current, dimming driver standard. Can be wired dimming or non-dimming. 0–10v dimming input with a range of 1%–100%. Driver can be accessed from the fixture. Power factor of > .95. Total Harmonic Distortion (THD) of < 20%.

CERTIFICATION
Luminaire is CSA listed conforming to UL Standard 1598 in the U.S. and CAN/CSA C22.2 No. 250.0 in Canada. In accordance with NEC Code 410.73 (G), this luminaire contains an internal driver disconnect. Damp Location Rated. All electronic components are RoHS compliant, and the mechanical components of the luminaire have been verified to meet RoHS Directive 2002/95/EC.

CLEANING & CARE
The best way to remove airborne debris and dust from shades is to periodically vacuum. A Swiffer sheet or feathered duster can also be used for light dusting. To treat liquid stains, remove spills immediately with a clean damp cotton cloth or with detergent soap and warm water. Carpet and fabric cleaners can usually be used. Always test an inconspicuous area before applying cleaners to the actual stain.

Center beam designed to withstand the demands of rigorous cleaning requirements — use common disinfectants and cleaners to reduce microbe transmission.

WARRANTY
5 year warranty on all standard components.

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Acoustic Wing Fixture Options

DIMENSIONS

2.25" SQ BEAM

48"L × 24"W × 2.25"H

72"L × 24"W × 2.25"H
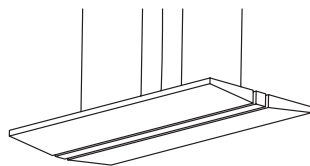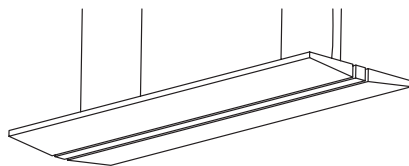
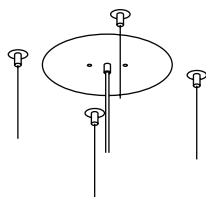**4" SQ BEAM**
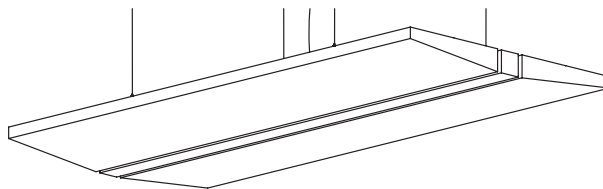
96"L × 48"W × 4"H

CEILING CONNECTIONS

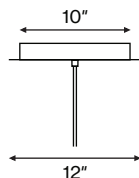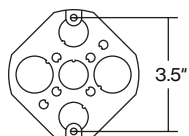**OFFSET JUNCTION BOX**
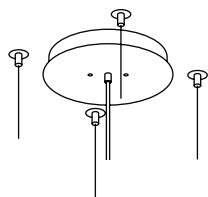
SURFACE MOUNTED

RECESSED*

For recessed canopy, cut 11" dia hole and recess j-box or mounting structure by 1.5"

10"
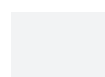
12"

4" OCTAGONAL JUNCTION BOX (BY OTHERS)

3.5"

Required for powered units; optional for unlit units
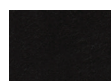
CANOPY/DRESS PLATE FINISH OPTIONS

BLACK

WHITE

FELT COLOR & PATTERN OPTIONS

COLOR OPTIONS

EBONY

CAST

MINERAL
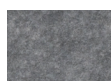
STEEL

ARMOR

NICKEL

ZINC

NIGHTFALL

ADMIRAL
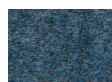
DUSK

STEELBLUE
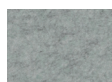
PLATINUM

OCHRE

MUSTARD

LILAC
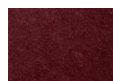
BURGUNDY
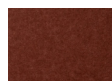
CINNAMON

SAFFRON

JASPER

ARIES

CITRINE

EMERALD
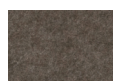
SILT
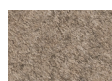
DRIFTWOOD

DUNE
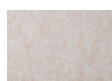
VANILLA

PATTERN OPTIONS
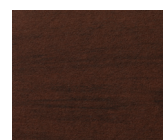
WALNUT

IRON OAK

CARMEL OAK

RICH BAMBOO

Declare.

Sola Felt, Clario, Hush Clad, and Tetria
Acoustic Solutions
3form

Final Assembly: Salt Lake City, Utah, USA
Life Expectancy: 20 Year(s)
End of Life Options: Salvageable/Reusable in its Entirety, Take Back Program (Reclaim, Salt Lake City, Utah)
EU CoC Screened: Does Not Contain

Ingredients:
polyethylene terephthalate); 3-(Hydroxyphenylphosphinyl)propionic acid; Titanium dioxide; Carbon black; Spinning finish

Living Building Challenge Criteria: Compliant

I-13 Red List:
■ LBC Red List Free   % Disclosed: 100% at 100ppm
□ LBC Red List Approved   VOC Content: Not Applicable
□ Declared
I-10 Interior Performance: CDPH Standard Method v1.1-2010
I-14 Responsible Sourcing: Not Applicable

TPM-0001
EXP: 01 OCT 2022
SCREENED: 21 SEP 2021
Original Issue Date: 2018

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END CAP OPTIONS

FELT

SHADE COLOR

WOOD

WHITE OAK

POWDER COAT

BLACK

WHITE

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Acoustic Wing   Lighting Details

LIGHT DISTRIBUTION OPTIONS
Consult factory or lightart.com for IES files, tested in accordance with IESNA LM79

SIDE VIEW

TOP VIEW
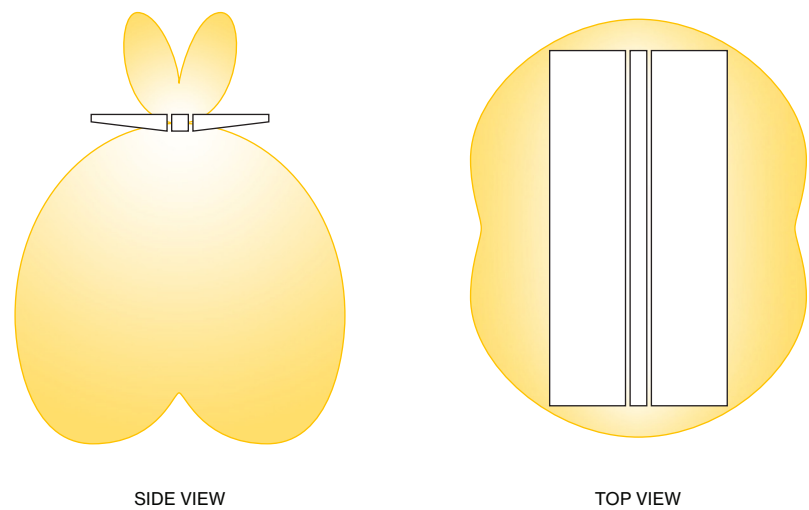
LIGHT DISTRIBUTION
Based on measurement data

COLOR TEMPERATURE / CRI	MULTIPLIER
2700K / 80	0.98
2700K / 90	0.93
3000K / 80	1.02
3000K / 90	097
3500K / 80	1.00
3500K / 90	1.00
4000K / 80	1.08
4000K / 90	1.03

OUTPUT MULTIPLIERS INSTRUCTIONS

Adjusted Value = $L_1 \times C_m$ where:

L_1 = (Lumen output at 3500K / 90 CRI) ×
C_m = (Color Temp. / CRI Multiplier) ×

Example:
850LM / 3000K / 90CRI
(850) × (0.97) = 825LM

PERFORMANCE – 48"L WING
Based on 3500K / 90CRI / Standard Distribution

NOMINAL LUMEN OUTPUT (LM/FT)	INPUT POWER (W/FT)	TOTAL FIXTURE WATTAGE (W)	EFFICACY (LM/W)
200	2.40	9.80	90.40
350	4.40	17.60	90.40
450	5.40	21.60	90.40
550	6.40	25.50	90.40
650	7.30	29.20	90.50
750	8.40	33.50	90.40
825	9.40	37.50	90.40
925	10.30	41.00	90.40

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LightArt

Acoustic Wing Lighting Details

PERFORMANCE – 72"L WING
Based on 3500K / 90CRI / Standard Distribution

NOMINAL LUMEN OUTPUT (LM/FT)	INPUT POWER (W/FT)	TOTAL FIXTURE WATTAGE (W)	EFFICACY (LM/W)
200	3.70	14.60	90.70
350	6.60	26.40	90.70
450	8.10	32.30	90.70
550	9.60	38.20	90.70
650	11.00	44.20	90.70
750	12.50	50.20	90.70
825	14.00	56.20	90.70
925	15.60	62.20	90.70

PERFORMANCE – 96"L WING
Based on 3500K / 90CRI / Standard Distribution

NOMINAL LUMEN OUTPUT (LM/FT)	INPUT POWER (W/FT)	TOTAL FIXTURE WATTAGE (W)	EFFICACY (LM/W)
200	4.30	17.10	91.70
350	7.90	31.60	91.70
450	9.80	39.10	91.70
550	11.70	46.80	91.70
650	13.70	54.60	92.00
750	15.80	63.00	91.70
825	17.90	71.40	91.70
925	20.00	80.00	91.70

Acoustic Wing   Acoustic Details

SABINS PER FIXTURE   *Equivalent square feet of perfect absorption*

CENTER FREQUENCY (HZ)	96–48–4 WING
100	25.22
125	31.82
160	28.17
200	33.34
250	35.58
315	35.55
400	38.26
500	45.68
630	45.90
800	50.15
1000	52.68
1250	55.63
1600	55.25
2000	55.46
2500	56.09
3150	56.41
4000	57.92
5000	58.33
AVERAGE OF 250, 500, 1000, 2000	7.83
EFFECTIVE NRC*	1.30
EQUIVALENT SQ FT OF ACT (NRC 0.90)	51.80
EQUIVALENT SQ FT OF ACT (NRC 0.70)	66.60

Measured using 96" × 48" × 4" sized Acoustic Wing.

Absorption

NRC per Fixture: 1.30
*Average of values taken at
250, 500, 1000, and 2000 Hz*

*The NRC of felt depends on its configuration.
LightArt fixtures utilize deep airspaces and
multiple layers to keep NRC ratings high for
all exposed felt surfaces.*

*The acoustic testing of Acoustic Wing was
conducted at NVLAP accredited laboratories
and meets ISO 354 and ASTM C423. Formal
test reports are available upon request.*

—— 96–48–4 ACOUSTIC WING
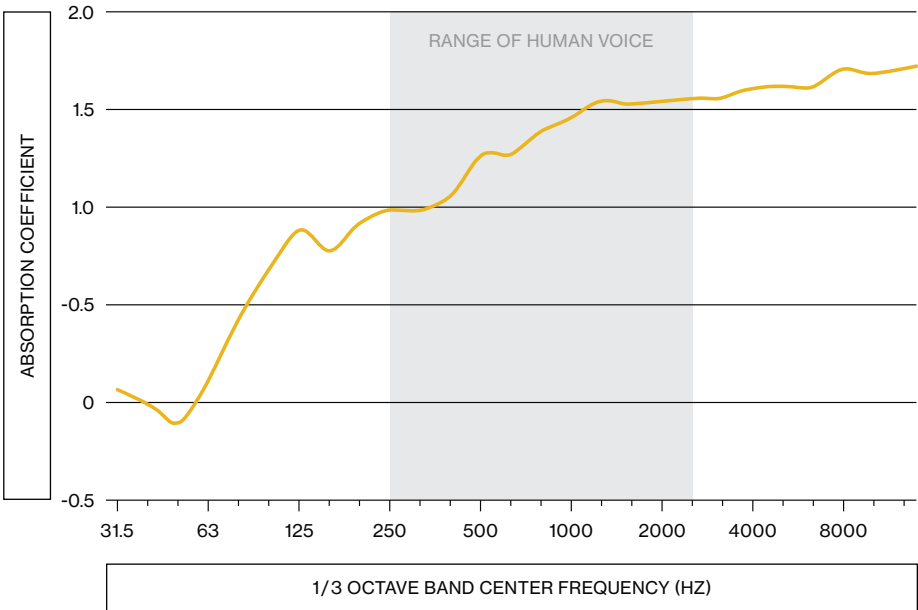
Acoustic Wing Part Number Specification

SPECIFICATION CODE

Example: 2 QTY ACC-SHPE-WING-96L-CA-WPE-830CK-550LM-P01-STD-WPC-WH

[ ] ACC-SHPE-WING- [ ]① - [ ]② - [ ]③ - [ ]④ - [ ]⑤ - [ ]⑥ - [ ]⑦ - [ ]⑧ - [ ]⑨

QTY.

Complete form to order Wing fixture(s). For each number, make one selection and enter in the corresponding box above.
*Indicates modified choices; additional lead times and/or costs may apply.

① SIZE *(Nominal)*

[ ]	48L	48"L × 24"W × 2.25"H
[ ]	72L	72"L × 24"W × 2.25"H
[ ]	96L	96"L × 48"W × 4"H

② FELT COLOR

COLOR OPTIONS

[ ]	EB	EBONY	[ ]	EM	EMERALD	[ ]	LC	LILAC
[ ]	NF	NIGHTFALL	[ ]	BU	BURGUNDY	[ ]	AD	ADMIRAL
[ ]	CA	CAST	[ ]	CI	CINNAMON	[ ]	DK	DUSK
[ ]	SLT	SILT	[ ]	JP	JASPER	[ ]	STB	STEELBLUE
[ ]	ML	MINERAL	[ ]	SF	SAFFRON	[ ]	PT	PLATINUM
[ ]	STL	STEEL	[ ]	OCH	OCHRE	[ ]	DW	DRIFTWOOD
[ ]	AR	ARMOR	[ ]	MU	MUSTARD	[ ]	DN	DUNE
[ ]	NI	NICKEL	[ ]	AS	ARIES	[ ]	VL	VANILLA
[ ]	ZN	ZINC	[ ]	CT	CITRINE			

PATTERN OPTIONS

[ ]	DWA	WALNUT
[ ]	IOK	IRON OAK
[ ]	WA	CARMEL OAK
[ ]	BA	RICH BAMBOO

③ ENDCAP

[ ]	FELT	FELT SHADE COLOR *Endcap will match shade material color*
[ ]	WOE	WHITE OAK WOOD
[ ]	WPE	WHITE POWDER COAT
[ ]	BPE	BLACK POWDER COAT

④ LED CRI / CCT

[ ]	827CK	80 CRI / 2700K
[ ]	830CK	80 CRI / 3000K
[ ]	835CK	80 CRI / 3500K
[ ]	840CK	80 CRI / 4000K
[ ]	927CK	90 CRI / 2700K
[ ]	930CK	90 CRI / 3000K
[ ]	935CK	90 CRI / 3500K
[ ]	940CK	90 CRI / 4000K
[ ]	TW	TUNABLE WHITE
[ ]	RGB	RGB

⑤ OUTPUT

[ ]	200LM	200 LM/FT *TW available in all lengths*
[ ]	350LM	350 LM/FT *TW available in all lengths*
[ ]	450LM	450 LM/FT *TW available in all lengths*
[ ]	550LM	550 LM/FT *TW available in all lengths*
[ ]	650LM	650 LM/FT *TW available in 48L, 72L*
[ ]	750LM	750 LM/FT *TW available in 48L, 72L*
[ ]	825LM	825 LM/FT *TW available in 48L*
[ ]	925LM	925 LM/FT *TW available in 48L*
[ ]	RGBO	RGB OUTPUT
[ ]	CU*	CUSTOM OUTPUT *Specify custom value from 200 to 925 lm/ft*

_____ lm/ft

CONTINUE TO NEXT PAGE TO COMPLETE SPECIFICATION

*Indicates modified choices; additional lead times and/or costs may apply.

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CONTINUE SPECIFICATION

6 DIMMING AND CONTROLS

- ☐ P01 — 0–10V 1% DIMMING
- ☐ LEC* — HI-LUME 1% ECOSYSTEM LED DRIVER SOFT ON, FADE TO BLACK (LDE1 SERIES)
- ☐ EBM — 0-10V 1% DIMMING INTEGRATED EM BATTERY OPTION
  Max lumen output limited—consult LightArt. Not available with Tunable White or RGB.
- ☐ DMX — RGB CONTROL
- DALI — DALI CONTROL

7 SUSPENSION

- ☐ STD — 12" – 96"
- ☐ EXT* — 12" – 240"

8 CANOPY OPTIONS

- ☐ WPC — WHITE
- ☐ BPC — BLACK
- ☐ RWPC — RECESSED WHITE
- ☐ RBPC — RECESSED BLACK

9 POWER CORD

- ☐ WH — WHITE
- ☐ BK — BLACK

Indicates modified choices; additional lead times and/or costs may apply.

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