



Specifications

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
CONSTRUCTION	1/16" 3form Varia. White Opal top and bottom diffuser. Contact your local sales rep for material samples.
ELECTRICAL	Emergency battery output: 6 watts for 90 minutes. Maximum Mounting height: 10.5ft. 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%. Dim-to-Off standard. 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.
SHADES	4.5mm thick Sola Felt, 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.
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
WARRANTY	5 year warranty on all standard components.



Acoustic Box

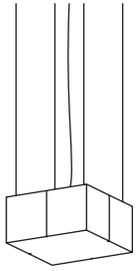
Fixture Options

ACOUSTIC COLLECTION

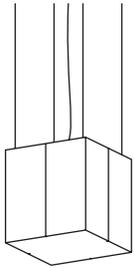
DIMENSIONS

24" SQUARE

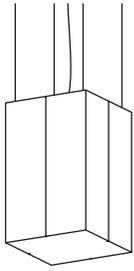
32" SQUARE



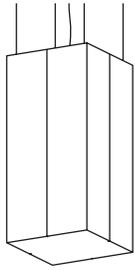
12"H x 24" SQ



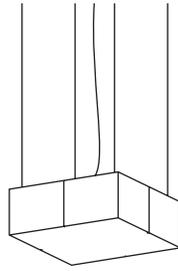
24"H x 24" SQ



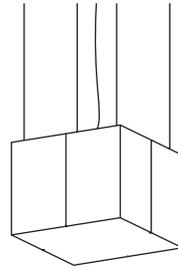
36"H x 24" SQ



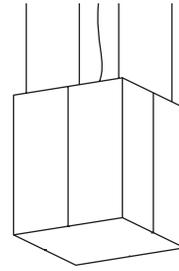
48"H x 24" SQ



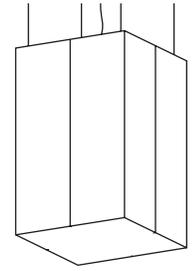
12"H x 32" SQ



24"H x 32" SQ

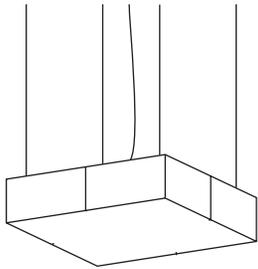


36"H x 32" SQ

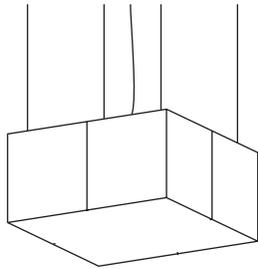


48"H x 32" SQ

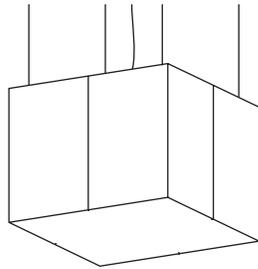
48" SQUARE



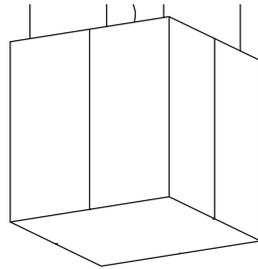
12"H x 48" SQ



24"H x 48" SQ



36"H x 48" SQ



48"H x 48" SQ

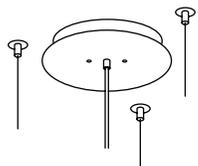
CEILING CONNECTIONS

24" SQUARE | 32" SQUARE

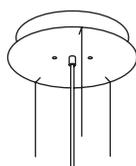
12" canopy standard for 24" Square and 32" Square

48" SQUARE

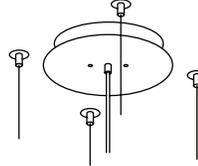
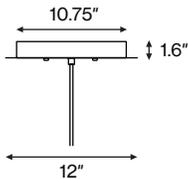
The 12" canopy is provided for configurations using standard LEDs from 1000-12000 lumens without an EM Battery, and for fixtures using Tunable White LEDs with a lumen range of 1-6000 lumens. All other configurations will use a driver box on board the fixture with a 6" Ultra Shallow Canopy.



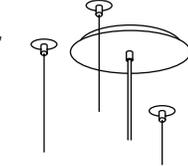
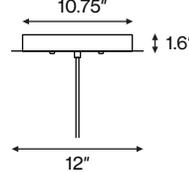
CABLES TO CEILING



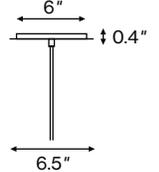
CABLES TO CANOPY



CABLES TO CEILING

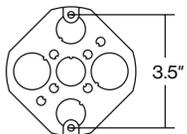


ULTRA SHALLOW CANOPY



4" OCTAGONAL JUNCTION BOX (BY OTHERS)

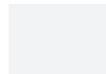
CANOPY/DRESS PLATE FINISH OPTIONS



Required for powered units;
optional for unlit units



BLACK



WHITE

Acoustic Box Fixture Options

ACOUSTIC COLLECTION

FELT COLOR & PATTERN OPTIONS

COLOR OPTIONS



PATTERN OPTIONS



Declare.

Sola Felt, Clarlo, Hush Clad, and Tetra Acoustic Solutions 3form

Final Assembly: Salt Lake City, Utah, USA
Life Cycle: Salt Lake City, Utah, USA
Material: USA, Vietnam, Singapore, Thailand, US, Germany, Taiwan, Brazil, Program (Mexico), Salt Lake City, Utah, USA
By: Declare Global, Inc. and Company

Ingredients:
 polyethylene terephthalate (PET),
 polypropylene (PP), polyurethane (PU), polyethylene glycol (PEG), titanium dioxide,
 carbon black, isocyanate resin

Labels: Building Challenge Criteria: Compliant

HSR Red List:
 ■ Red List Free: 100% (100% at 100g/m²)
 □ Red List Not Applicable: 100% (100% at 100g/m²)
 □ Declared: 0%

HSR Material Performance: C-1 (Per Standard Method v10.2019)
14 Responsible Sourcing: Not Applicable

TM-0001
 EXP. 01 OCT 2022
 SCREENED 21 SEP 2021
 Original Issue Date: 2019

INTERNATIONAL LONG FUTURE REPORT™ <https://www.declareglobal.com>



Acoustic Box Lighting Details

ACOUSTIC COLLECTION

PERFORMANCE – ACOUSTIC BOX 24"

Based on 3500K / 90CRI / Standard Distribution

NOMINAL LUMEN OUTPUT (LM)	INPUT POWER (W)	EFFICACY (LM/W)
1018	11.79	86.30
2016	24.11	83.60
2995	36.96	81.00
3979	50.38	79.00
4973	64.58	77.00
5971	79.45	75.20
6970	95.12	73.30
7958	111.77	71.20
8972	129.20	69.40

PERFORMANCE – ACOUSTIC BOX 32"

Based on 3500K / 90CRI / Standard Distribution

NOMINAL LUMEN OUTPUT (LM)	INPUT POWER (W)	EFFICACY (LM/W)
1038	11.88	87.40
2001	24	83.40
3021	36.43	82.90
4031	49.09	82.10
5022	62.03	81.00
6013	75.31	79.80
6986	88.88	78.60
8006	102.70	78.00
8958	116.91	76.60
9960	131.56	75.70
10940	146.54	74.70
11970	161.99	73.90

PERFORMANCE – ACOUSTIC BOX 48"

Based on 3500K / 90CRI / Standard Distribution

NOMINAL LUMEN OUTPUT (LM)	INPUT POWER (W)	EFFICACY (LM/W)
968	12.75	75.90
2060	25.56	80.60
3010	38.35	78.50
4084	51.52	79.30
5034	64.81	77.70
6108	78.30	78.00
7040	91.87	76.60
8096	105.69	76.60
9012	119.36	75.50
10050	133.48	75.30
10982	147.84	74.30
12004	162.32	74.00
13024	177.05	73.60
14028	191.64	73.20
14924	206.67	72.20
15928	221.88	71.80
16932	237.42	71.30
17916	253.13	70.80
18884	268.96	70.20
19976	284.90	70.10

LIGHT DISTRIBUTION

Based on measurement data

COLOR TEMPERATURE / CRI	MULTIPLIER
2700K / 80	0.98
2700K / 90	0.93
3000K / 80	1.02
3000K / 90	0.97
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 / 80CRI

$(850) \times (1.02) = 789LM$



SABINS PER FIXTURE Equivalent square feet of perfect absorption

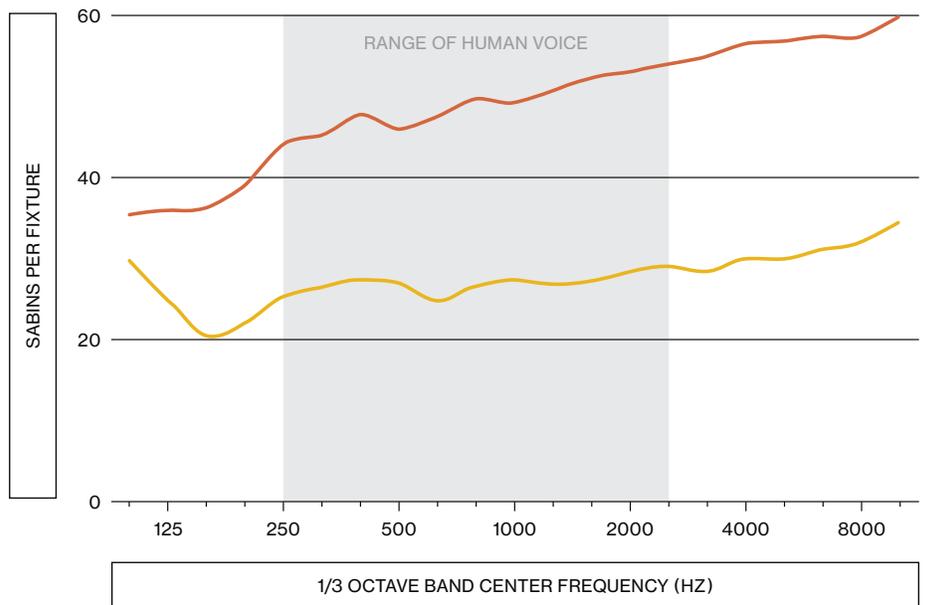
CENTER FREQUENCY (HZ)	48SQ 24H BOX	44SQ 48H BOX
100	29.47	35.38
125	24.69	35.78
160	20.34	36.15
200	22.00	38.94
250	25.15	43.99
315	26.36	45.07
400	27.24	47.58
500	26.77	45.83
630	24.72	47.38
800	26.47	49.52
1000	27.24	49.08
1250	26.73	50.62
1600	27.08	52.15
2000	28.17	52.88
2500	28.93	53.83
3150	28.31	54.76
4000	29.82	56.29
5000	29.71	56.69
AVERAGE OF 250, 500, 1000, 2000	26.41	48.07
EQUIVALENT SQ FT OF ACT (NRC 0.90)	29.30	53.40
EQUIVALENT SQ FT OF ACT (NRC 0.70)	37.70	68.70

Absorption

NRC per Fixture: 0.85-1.00
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 Box was conducted at NVLAP accredited laboratories and meets ISO 354 and ASTM C423. Formal test reports are available upon request.



- 48SQ 48H BOX
- 48SQ 24H BOX



CONTINUE SPECIFICATION

6 OUTPUT

<input type="checkbox"/> 1000LM	1000 LM	<input type="checkbox"/> 12000LM	12000 LM 32"SQ Max SO 48"SQ Max TW and EM Batt
<input type="checkbox"/> 2000LM	2000 LM	<input type="checkbox"/> 13000LM	13000 LM
<input type="checkbox"/> 3000LM	3000 LM	<input type="checkbox"/> 14000LM	14000 LM
<input type="checkbox"/> 4000LM	4000 LM	<input type="checkbox"/> 15000LM	15000 LM
<input type="checkbox"/> 5000LM	5000 LM	<input type="checkbox"/> 16000LM	16000 LM
<input type="checkbox"/> 6000LM	6000 LM 24"-32" SQ Max Tunable White and EM Battery Option	<input type="checkbox"/> 17000LM	17000 LM
<input type="checkbox"/> 7000LM	7000 LM	<input type="checkbox"/> 18000LM	18000 LM
<input type="checkbox"/> 8000LM	8000 LM	<input type="checkbox"/> 1900LM	19000 LM
<input type="checkbox"/> 9000LM	9000 LM 24"SQ Max Standard Output	<input type="checkbox"/> 20000LM	20000 LM 48"SQ Max Standard Output
<input type="checkbox"/> 10000LM	10000 LM	<input type="checkbox"/> CU*	CUSTOM OUTPUT
<input type="checkbox"/> 11000LM	11000 LM		

lm

7 DIMMING AND CONTROLS

<input type="checkbox"/> P01	0-10V 1% DIMMING
<input type="checkbox"/> LEC*	HI-LUME 1% ECOSYSTEM LED DRIVER SOFT ON, FADE TO BLACK (LDE1 SERIES)
<input type="checkbox"/> EBM	0-10V 1% DIMMING INTEGRATED EM BATTERY OPTION <i>Max Lumen output limited—consult LightArt. Not available with Tunable White.</i>
<input type="checkbox"/> DALI	DALI CONTROL

8 CANOPY OPTIONS

<input type="checkbox"/> WPC	WHITE
<input type="checkbox"/> BPC	BLACK
<input type="checkbox"/> RWPC	RECESSED WHITE
<input type="checkbox"/> RBPC	RECESSED BLACK

9 POWER CORD

<input type="checkbox"/> WH	WHITE
<input type="checkbox"/> BK	BLACK

10 CABLE CONNECTION

<input type="checkbox"/> CCL	CABLES TO CEILING
<input type="checkbox"/> CCN	CABLES TO CANOPY <i>Only Available on 24" Square—consult LightArt for larger sizes.</i>

*Indicates modified choices; additional lead times, cost, and limited lumen outputs may apply.

