

# Acoustic Drum

## Overview

ACOUSTIC COLLECTION



## Specifications

<b>LIGHTING</b>	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 option available.	<b>CERTIFICATION</b>	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.
<b>LUMEN MAINTENANCE</b>	Reported TM-21 Lifetimes L90(17k) = 52,600 hours L80(17k) > 102,000 hours L70(17k) > 102,000 hours	<b>SHADES</b>	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.
<b>CONSTRUCTION</b>	3/16" Sola Felt. White Opal top and bottom diffuser. Contact your local sales rep for material samples.	<b>CLEANING &amp; CARE</b>	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.
<b>ELECTRICAL</b>	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: <a href="http://www.bodine.com/products/inverter.html">http://www.bodine.com/products/inverter.html</a>	<b>WARRANTY</b>	5 year warranty on all standard components.
<b>MOUNTING</b>	Adjustable stainless steel aircraft cable, contact studio for lengths over 20'		
<b>DRIVERS</b>	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%.		

 **align**  **Declare**



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WITH GLOBAL AND  
DOMESTIC PRODUCTS

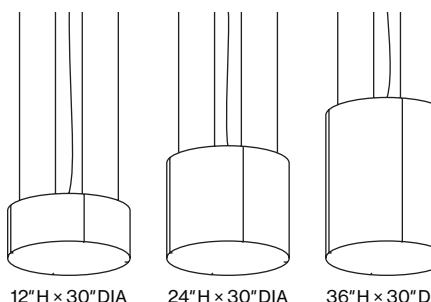
# Acoustic Drum

## Fixture Options

ACOUSTIC COLLECTION

### DIMENSIONS

30" DIAMETER



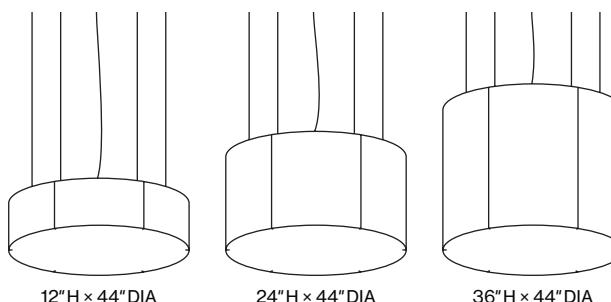
12" H x 30" DIA

24" H x 30" DIA

36" H x 30" DIA

48" H x 30" DIA

44" DIAMETER



12" H x 44" DIA

24" H x 44" DIA

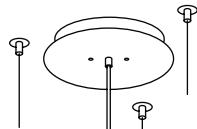
36" H x 44" DIA

48" H x 44" DIA

### CEILING CONNECTIONS

30" DIAMETER

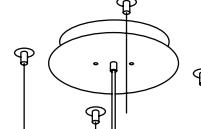
12" canopy standard for 30" Diameter.



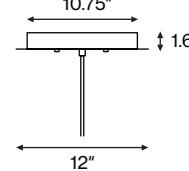
CABLES TO CEILING

44" DIAMETER

The 12" canopy is provided for configurations using standard LEDs from 1000-6000 lumens with or without an EM Battery, standard LEDs from 7000-11000 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.



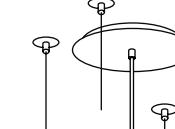
CABLES TO CEILING



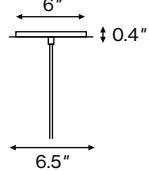
10.75"

1.6"

12"



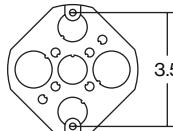
ULTRA SHALLOW CANOPY



6"

0.4"

### 4" OCTAGONAL JUNCTION BOX (BY OTHERS)



Required for powered units;  
optional for unlit units

### CANOPY/DRESS PLATE FINISH OPTIONS

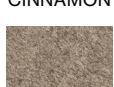


BLACK

WHITE

### FELT COLOR & PATTERN OPTIONS

#### COLOR OPTIONS



#### PATTERN OPTIONS



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2020

Exterior Wall System

# Acoustic Drum

## Lighting Details

ACOUSTIC COLLECTION

### PERFORMANCE – ACOUSTIC DRUM 30"

Based on 3500K / 90CRI / Standard Distribution

NOMINAL LUMEN OUTPUT (LM)	INPUT POWER (W)	EFFICACY (LM/W)
1000	19.36	51.66
2000	38.87	51.45
3000	59.90	50.08
4000	82.20	48.66
5000	105.91	47.21
6000	131.08	45.77
7000	157.97	44.31
8000	186.65	42.86

### PERFORMANCE – ACOUSTIC DRUM 44"

Based on 3500K / 90CRI / Standard Distribution

NOMINAL LUMEN OUTPUT (LM)	INPUT POWER (W)	EFFICACY (LM/W)
1000	17.15	58.30
2000	33.91	58.98
3000	51.37	58.40
4000	69.23	57.78
5000	87.45	57.17
6000	106.03	56.59
7000	125.01	56.00
8000	144.48	55.37
9000	164.45	54.73
10000	184.78	54.12
11000	205.68	53.48
12000	227.09	52.84
13000	248.92	52.23
14000	271.47	51.57
15000	294.60	50.92
16000	318.23	50.28
17000	342.34	49.66
18000	367.44	48.99

### 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)  $\times$   
 $C_m$  = (Color Temp. / CRI Multiplier)  $\times$

Example:

850LM / 3000K / 80CRI  
 $(850) \times (1.02) = 890LM$

# Acoustic Drum

## Acoustic Details

ACOUSTIC COLLECTION

SABINS PER FIXTURE *Equivalent square feet of perfect absorption*

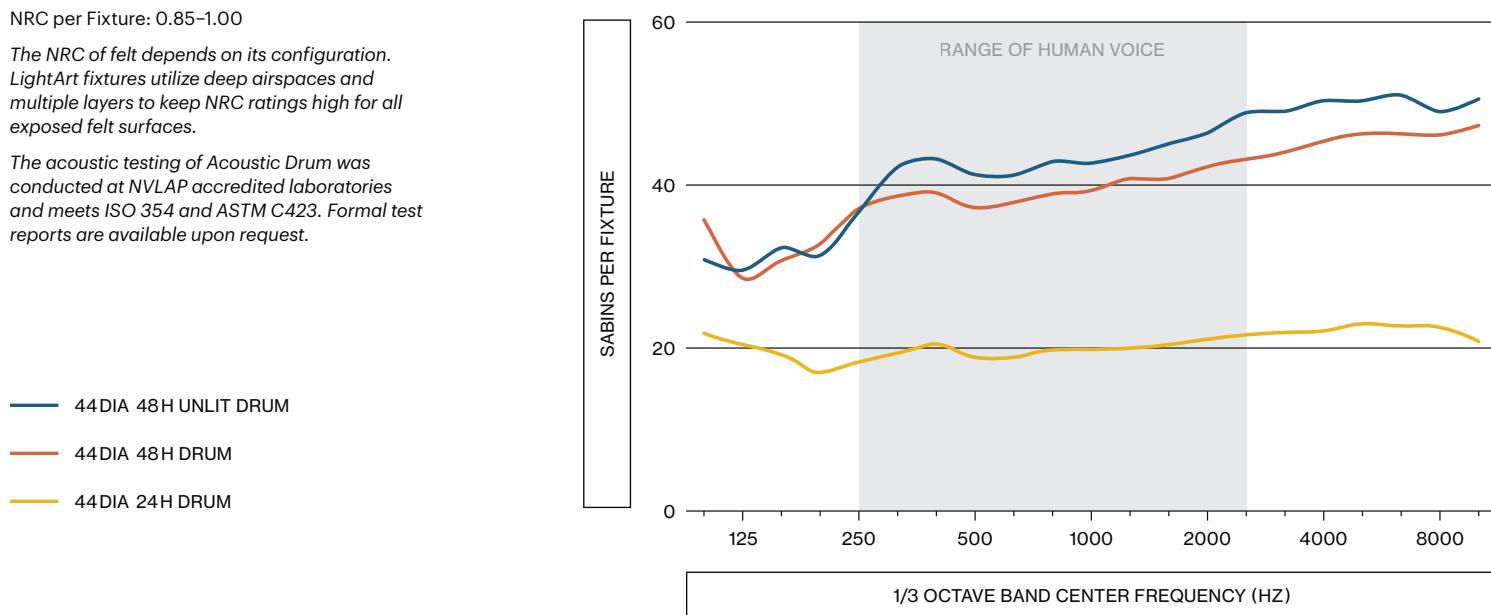
CENTER FREQUENCY (HZ)	44DIA 24H DRUM	44DIA 48H DRUM	44DIA 48H UNLIT DRUM
100	21.40	35.58	30.73
125	2014	28.39	29.37
160	19.04	30.45	32.14
200	16.82	32.56	31.24
250	18.14	36.68	36.60
315	19.11	38.42	42.04
400	20.26	38.84	42.94
500	18.72	36.97	41.10
630	18.67	37.63	41.08
800	19.65	38.70	42.68
1000	19.54	39.06	42.50
1250	19.81	40.52	43.48
1600	20.16	40.62	44.89
2000	20.91	41.98	46.25
2500	21.41	42.84	48.72
3150	21.74	43.78	48.91
4000	21.85	45.07	50.18
5000	22.73	46.00	50.15
AVERAGE OF 250, 500, 1000, 2000	19.43	38.75	41.96
EQUIVALENT SQ FT OF ACT (NRC 0.90)	21.60	43.10	46.60
EQUIVALENT SQ FT OF ACT (NRC 0.70)	27.80	55.40	59.90

## Absorption

NRC per Fixture: 0.85–1.00

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 Drum was conducted at NVLAP accredited laboratories and meets ISO 354 and ASTM C423. Formal test reports are available upon request.



# Acoustic Drum

## Part Number Specification

ACOUSTIC COLLECTION

### SPECIFICATION CODE

Example: 2 QTY ACC-SHPE-DRUM-30D-24H-ML-STD-927CK-6000LM-P01-RWPC-WH

QTY. **ACC-SHPE-DRUM-**  **1**  **2**  **3**  **4**  **5**  **6**  **7**  **8**  **9**

Complete form to order Acoustic Drum fixture(s). For each number, make one selection and enter in the corresponding box above.

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

### ① SIZE Nominal

30D 30" DIAMETER  
 44D 44" DIAMETER

### ② HEIGHT Nominal

12H 12" HEIGHT  
 24H 24" HEIGHT  
 36H 36" HEIGHT  
 48H 48" HEIGHT

### ③ FELT COLOR

#### COLOR OPTIONS

EB EBONY  
 NF NIGHTFALL  
 CA CAST  
 SLT SILT  
 ML MINERAL  
 STL STEEL  
 AR ARMOR  
 NI NICKEL  
 ZN ZINC

EM EBONY  
 BU NIGHTFALL  
 CI CAST  
 JP SILT  
 SF MINERAL  
 OCH STEEL  
 MU ARMOR  
 AS NICKEL  
 CT ZINC

EMERALD  
 BURGUNDY  
 CINNAMON  
 JASPER  
 SAFFRON  
 OCHRE  
 MUSTARD  
 ARIES  
 CITRINE

LC LILAC  
 AD ADMIRAL  
 DK DUSK  
 STB STEELBLUE  
 PT PLATINUM  
 DW DRIFTWOOD  
 DN DUNE  
 VL VANILLA

#### PATTERN OPTIONS

DWA WALNUT  
 IOK IRON OAK  
 WA CARMEL OAK  
 BA RICH BAMBOO

### ④ SUSPENSION

STD 12" - 96"  
 EXT\* 24" - 240"

### ⑤ LED CRI/CCT

<input type="checkbox"/> 827CK	80 CRI / 2700K	<input type="checkbox"/> 930CK	90 CRI / 3000K
<input type="checkbox"/> 830CK	80 CRI / 3000K	<input type="checkbox"/> 935CK	90 CRI / 3500K
<input type="checkbox"/> 835CK	80 CRI / 3500K	<input type="checkbox"/> 940CK	90 CRI / 4000K
<input type="checkbox"/> 840CK	80 CRI / 4000K	<input type="checkbox"/> TW	TUNABLE WHITE
<input type="checkbox"/> 927CK	90 CRI / 2700K		

CONTINUE TO NEXT PAGE TO COMPLETE SPECIFICATION

# Acoustic Drum

## Part Number Specification

ACOUSTIC COLLECTION

CONTINUE SPECIFICATION

### 6 OUTPUT

- 1000LM 1000 LM
- 2000LM 2000 LM
- 3000LM 3000 LM
- 4000LM 4000 LM
- 5000LM 5000 LM 30"D Max Tunable White and Em Battery Option
- 6000LM 6000 LM
- 7000LM 7000 LM
- 8000LM 8000 LM
- 9000LM 9000 LM
- 10000LM 10000 LM 30"D Max Standard Output
- 11000LM 11000 LM 44"D Max Tunable White and Em Battery Option

- 12000LM 12000 LM
- 13000LM 13000 LM
- 14000LM 14000 LM
- 15000LM 15000 LM
- 16000LM 16000 LM
- 17000LM 17000 LM
- 18000LM 18000 LM
- 19000LM 19000 LM
- 20000LM 20000 LM 44"D Max Standard Output
- CU\* CUSTOM OUTPUT

lm

### 7 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.*
- DALI DALI CONTROL

### 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, cost, and limited lumen outputs may apply.

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