**ECHO**

**CONSTRUCTION:**
White opal acrylic hubs and frosted clear acrylic tube. TGIC-free white powder coated canopy. Stainless steel cable and machined hardware with nickel plated brass gripper to allow for adjustable hanging height.

**SHADES:**
9mm thick PET felt manufactured with 50% post-consumer recycled content. Contact your local sales rep for material samples.

**DIFFUSION:**
Cylindrical frosted acrylic tube with removable white opal acrylic disk at bottom (for relamping). If direct (bottom) diffusion isn’t necessary then disks can be removed permanently for increased light output.

**LIGHTING:**
Dimmable LED screw-in type E26 base A19 lamp. Lamps included for U.S. orders. 9w, 3000k, 800 lumen, 120v is standard. Higher output options: 11w, 3000k, 1100 lumen, 120v 15w, 3000k, 1600 lumen, 120v

**DIMMING:**
Fixtures are supplied with dimmable 120v LED lamps (U.S. only) and are compatible with TRIAC style dimmers such as a Lutron DV-600P. Echo is not 0-10v dimming compatible. If your acoustic lighting project requires 0-10v dimming control, please consider our line of Static fixtures.

**ELECTRICAL:**
Standard 8’ long 3 conductor 18 gauge white halogen-free cord. Black and silver cords are optional. Longer 20’ cord length is also an option*.

**MOUNTING:**
12”-96” fully adjustable stainless steel aircraft cable, contact studio for additional lengths up to 20’.

**CERTIFICATIONS:**
Luminaire is UL listed conforming to UL Standard 1598 in the U.S. and CAN/CSA C22.2 No. 250.0 in Canada.

**WARRANTY:**
5 year warranty on all standard components.

**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.

---

**STANDARD DIMENSIONS**
Custom options available
35”Dia x 14”H
47”Dia x 14”H

**FIN QUANTITIES**
8 Fins
12 Fins

**FIN STYLE**
See drawing on page 2
Fin Style A
Fin Style B

**OPTIONAL**
Spanners between adjacent pendants

*Fixture price available upon request*
COLOR OPTIONS

<table>
<thead>
<tr>
<th>Color</th>
<th>EBONY</th>
<th>MOON</th>
<th>ADMIRAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cast</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mineral</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Armor</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nickel</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

CANOPY / DRESS PLATE FINISH OPTIONS

<table>
<thead>
<tr>
<th>Standard</th>
<th>BY REQUEST</th>
</tr>
</thead>
<tbody>
<tr>
<td>WHITE</td>
<td>SILVER</td>
</tr>
<tr>
<td>BLACK</td>
<td></td>
</tr>
</tbody>
</table>

CEILING CONNECTION

Cable and cord to canopy standard.
5" Dia canopy
## Sabins per Fixture

Equivalent square feet of perfect absorption.

<table>
<thead>
<tr>
<th>Center Frequency (Hz)</th>
<th>Echo 35-12</th>
<th>Echo 47-12</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>1.05</td>
<td>1.90</td>
</tr>
<tr>
<td>125</td>
<td>0.80</td>
<td>4.09</td>
</tr>
<tr>
<td>160</td>
<td>1.99</td>
<td>3.83</td>
</tr>
<tr>
<td>200</td>
<td>3.24</td>
<td>7.38</td>
</tr>
<tr>
<td>250</td>
<td>5.58</td>
<td>9.25</td>
</tr>
<tr>
<td>315</td>
<td>5.57</td>
<td>12.19</td>
</tr>
<tr>
<td>400</td>
<td>6.57</td>
<td>13.66</td>
</tr>
<tr>
<td>500</td>
<td>6.96</td>
<td>14.31</td>
</tr>
<tr>
<td>630</td>
<td>7.35</td>
<td>15.15</td>
</tr>
<tr>
<td>800</td>
<td>7.53</td>
<td>15.81</td>
</tr>
<tr>
<td>1000</td>
<td>7.96</td>
<td>16.56</td>
</tr>
<tr>
<td>1250</td>
<td>8.23</td>
<td>18.03</td>
</tr>
<tr>
<td>1600</td>
<td>8.98</td>
<td>19.27</td>
</tr>
<tr>
<td>2000</td>
<td>9.85</td>
<td>21.49</td>
</tr>
<tr>
<td>2500</td>
<td>10.40</td>
<td>22.25</td>
</tr>
<tr>
<td>3150</td>
<td>10.87</td>
<td>23.53</td>
</tr>
<tr>
<td>4000</td>
<td>11.16</td>
<td>24.02</td>
</tr>
<tr>
<td>5000</td>
<td>11.00</td>
<td>22.97</td>
</tr>
<tr>
<td>Average of 250, 500, 1000, 2000 Hz</td>
<td>7.59</td>
<td>15.50</td>
</tr>
<tr>
<td>NRC per fixture (circular footprint)</td>
<td>1.15</td>
<td>1.30</td>
</tr>
</tbody>
</table>

**NRC for Echo system, with spanners, over entire installation footprint: 0.80 - 1.00**

NRC per fixture: 1.15–1.30

Absorption per fixture: 7.59–15.50 sabins

Average of values taken at 250, 500, 1000, and 2000 Hz

NRC for Echo system, with spanners, over entire installation footprint: 0.80 - 1.00

---

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

Complete form to specify Echo fixture(s)

<table>
<thead>
<tr>
<th>SPECIFICATION CODE</th>
<th>Example: 2 QTY ECHO-ALT-12-B-NI-WP-WH-9W-STD-TG-4+5+4</th>
</tr>
</thead>
</table>

For grid formations, the quantity refers to the overall grid quantity. Contact LightArt for more information if your Echo specification deviates from standard options shown.

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 DIA METER—FIN #**

- ECHO 35-8
- ECHO 47-8
- ECHO ALT-8
- ECHO 35-12
- ECHO 47-12
- ECHO ALT-12

**2 FIN STYLE**

- A FINS
  - 35" Diameter
  - 47" Diameter

- B FINS
  - 35" Diameter
  - 47" Diameter

- A SPANNERS
  - For grids

- B SPANNERS
  - For grids

**3 FIN COLOR**

- EB Ebony
- MN Midnight
- AD Admiral
- CA Cast
- ZN Zinc
- RU Ruby
- ML Mineral
- BU Burnt Umber
- HR Hunter
- AR Armor
- CM Cashmere
- CT Citrine
- AS Aries
- NI Nickel
- OX Oxford
- CA Cast
- EB Ebony
- ML Mineral
- BL Black
- SP Silver
- W White
- BK Black
- SV Silver
- WH White
- BK Black
- VV Silver

**4 CANOPY COLOR**

- 5" Dia canopy
- SP Silver
- BP Black
- WP White

**5 GRID TYPE / COUNT**

- SG* SQUARE GRID
- RB* RUNNING BOND
- TG* TRIANGLE GRID
- CG* CUSTOM GRID

**6 POWER CORD**

- 9W 800lm / 3000k / 120v
- 11W 1100lm / 3000k / 120v
- 15W 1600lm / 3000k / 120v

**7 SUSPENSION**

- STD 24"–36" EXT* 24"–240"

**For Square Grid, specify Grid Count as “# Rows x # Columns” (Example: “SG 2x2” shown above)**

**For Running Bond, specify Grid Count as “# Rows x # Columns” (Example: “RB 2x2” shown above)**

**For Triangle Grid, specify Grid Count as “# in Row A + # in Row B, etc.” (Example: “TG 2+3” shown above)**

**For Custom Grids, specify Grid Count as overall # of Pendants (Example: “CG 10”) and provide a reflected ceiling plan showing desired grid configuration. Contact LightArt for more information on Custom Grid options.**

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

Last Update: 6.5.2018

4770 OHIO AVE SOUTH, SUITE A, SEATTLE, WA 98134

P. 206.524.2223 | LIGHTART.COM

ACOUSTIC COLLECTION | ECHO

PAGE 4 OF 4