ECHO

ACOUSTIC
ECHO OVERVIEW



Echo 47"Dia, 8 Fin, Style A in Cast

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
Fin Style C

OPTIONAL
Spanners between adjacent pendants to create grids.

Fixture price available upon request

SPECIFICATIONS

CONSTRUCTION:
Fins and hubs made of 9mm thick PET felt manufactured with 50% post-consumer recycled content. Frosted acrylic diffuser tube with removable acrylic bottom diffuser at bottom (for changing optic kits or relamping E26 version). Contact your local sales rep for material samples.

LIGHTING:
LED module with single light emitting source, thermally managed to provide optimal performance. Specifiable in 2700K–4000K in CRI >80 or CRI >90, color accuracy within 3 SDCM. Also available in dim-to-warm.

PoE or PoE+ compatible (depending on required output): Integrates with Power over Ethernet lighting systems through standard, low voltage wires. See wattage table on page 4 for PoE or PoE+ compatibility.

Beam spreads from 28 degree narrow flood to 44 degree wide flood available, achieved with optics that are easily changed in the field.

E26 lamp model also available. Source lumens 800, delivered lumens approx 619, 90 CRI, nominal lifetime 15,000 hours.

LUMEN MAINTENANCE:
Reported:
L90 > 55,000 hrs
Calculated
L70 > 180,000 hrs
L80 > 120,000 hrs
EPA TM21 calculator derived

PHOTOMETRICS:
Consult factory or website for IES files, tested in accordance with IESNA LM79.

HARDWARE:
TGIC-free powder coated canopy. Stainless steel cable with nickel-plated cable gripper allows for adjustable hanging height. Made with RoHS compliant parts.

MOUNTING:
Canopy mounts to 4" octagonal junction box or appropriate alternative.

CERTIFICATIONS:
CSA certified to CSA C22.2 No. 250.0, and conforms to UL standard 1598.
PoE Compatible fixtures meet UL 2108.

WARRANTY:
5 year warranty on all standard components. LED system rated for operation in ambient temperatures up to 25°C.

Suitable for Dry or Damp locations. Indoor use only.

LEAD TIME:
6 week lead time

CARE:
To remove airborne debris and dust from shades periodically vacuum or use a Swiffer sheet or feathered duster 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.

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ECHO

ACOUSTIC
ECHO PART NUMBER SPECIFICATION

Complete form to specify Echo fixture(s)

SPECIFICATION CODE *Example:* 2 QTY ACC-SHPE-ECHO-EALT12-B-NI-EP-835CK-2000LM-NFL-PCE-LV01-STD-WPC-WH

Qty	ACC-SHPE-ECHO-	1	2	3	4	5	6	7	8	9	10	11	12
			-	-	-	-	-	-	-	-	-	-	-

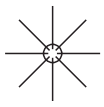
*For each number, make one selection and enter in the corresponding box above. *Indicates modified choices; additional lead times and/or costs may apply.*

1 DIAMETER—FIN

- ☐ E358
- ☐ E478
- ☐ EALT8
- ☐ E3512
- ☐ E4712
- ☐ EALT12



E358
35" Diameter
8 Fins



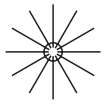
E478
47" Diameter
8 Fins



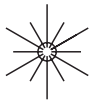
EALT8
Alternating
47" & 35"
8 Fins



E3512
35" Diameter
12 Fins



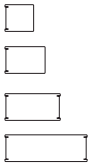
E4712
47" Diameter
12 Fins



EALT12
Alternating
47" & 35"
12 Fins

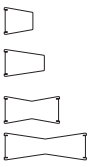
2 FIN STYLE

- ☐ A
- ☐ B
- ☐ C



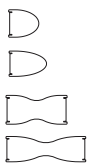
A FINS
35" Diameter
47" Diameter

A SPANNERS
For grids



B FINS
35" Diameter
47" Diameter

B SPANNERS
For grids



C FINS
35" Diameter
47" Diameter

C SPANNERS
For grids

3 FELT COLOR

☐ EB	☐ EM	☐ SF
☐ NF	☐ AD	☐ JP
☐ CA	☐ DK	☐ OCH
☐ ML	☐ STB	☐ MU
☐ STL	☐ PT	☐ CT
☐ AR	☐ SLT	☐ AS
☐ NI	☐ DW	
☐ ZN	☐ DN	

EB Ebony	**EM** Emerald	**SF** Saffron
NF Nightfall	**AD** Admiral	**JP** Jasper
CA Cast	**DK** Dusk	**OCH** Ochre
ML Mineral	**STB** Steelblue	**MU** Mustard
STL Steel	**PT** Platinum	**CT** Citrine
AR Armor	**SLT** Silt	**AS** Aries
NI Nickel	**DW** Driftwood	
ZN Zinc	**DN** Dune	

4 ARRANGEMENT

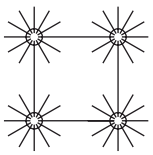
Note: Grids feature pendants 48" on center.

- ☐ EP **EP** ECHO PENDANT
- ☐ CG **CG*** CUSTOM GRID

EP ECHO PENDANT

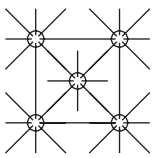


CG* CUSTOM GRID

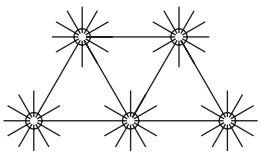


SQUARE GRID

Examples of custom grid configurations



RUNNING BOND



TRIANGLE GRID

Continue to next page to complete specification.

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ACOUSTIC
ECHO PART NUMBER SPECIFICATION

Continue specification.

5 LED CRI / CCT

- ☐ 827CK
- ☐ 830CK
- ☐ 835CK
- ☐ 840CK
- ☐ 927CK
- ☐ 930CK
- ☐ 935CK
- ☐ 1830CK

- ☐ E26AL

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
1830W Warm dimming 90 CRI, 3000K to 1800K dimming range

E26AL E26 Base A lamp (source lumens 800lm, 619lm delivered 3000K > 90 CRI, 120V only). (Not available in PoE)

6 NOMINAL DELIVERED LUMENS

- ☐ 900LM
- ☐ 1000LM
- ☐ 1500LM
- ☐ 2000LM
- ☐ 2500LM

- ☐ 600LM

900LM Lumen
1000LM Lumen
1500LM Lumen
2000LM Lumen
2500LM Lumen

600LM Lumen

Warm Dim only available in 1500LM

7 BEAM SPREAD

- ☐ NFL
- ☐ FL
- ☐ WFL

- ☐ E26S

NFL Narrow flood option 28 degrees
FL Flood option 36 degrees
WFL Wide flood option 44 degrees

E26S E26 Base A lamp

Beam spread kits available. Contact LightArt for more information.

8 POWER CANOPY

- ☐ PCE
- ☐ POE
- ☐ SCE

PCE Power canopy
(with LED driver)

POE Power Over Ethernet
No driver provided for POE. Power supply by other. Not avilable with E26 Base A lamp.

SCE Shallow canopy
only available with E26 Base A Lamp.

9 DIMMING CONTROL SYSTEM

- ☐ LV01
- ☐ LT02
- ☐ LP01
- ☐ LVP

- ☐ E26

LV01 0-10V - 1% Dimming 120 & 277V
LT02 Leading / Trailing / Triac-5% Dimming (120V only)
LP01 ELV Forward / Reverse Phase-1% Dimming (120V only)
LVP Low Voltage PoE compatible
Universal Input (Dim on 120V for TRIAC/ELV & 120/277V for 0-10V)

E26 Base A Lamp only compatible with 120V ELV Dimming.

10 SUSPENSION

- ☐ STD
- ☐ EXT

STD 12"–96"
EXT* 12"–240"

11 CANOPY COLOR

- ☐ WPC
- ☐ BPC

WPC White
BPC Black

12 POWER CORD

- ☐ WH
- ☐ BK

WH White
BK Black
Cord finish will match canopy, unless otherwise specified.

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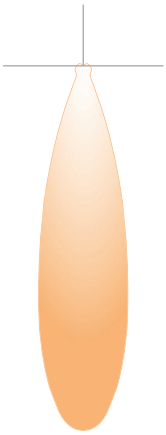
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LIGHT DISTRIBUTION

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



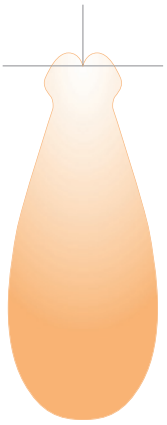
28° Narrow Flood

Luminous Flux: 2488lm

Input Power: 25W

Spacing Criterion: 0.48

Testing performed with 3500K / 80CRI configuration



44° Wide Flood

Luminous Flux: 2133lm

Input Power: 25W

Spacing Criterion: 0.74

Testing performed with 3500K / 80CRI configuration

PERFORMANCE

Based on 3500K / 80CRI / NFL configuration (HP light core) and 3000K / 90CRI for E26 lamp

Nominal Lumen Output	Delivered Lumens	Input Power (W)	Efficacy (lm/W)	POE Compatibility	Output / LED Draw Wattage (for use w/ POE)
600 (E26 A-lamp)	619	8.8	72	N/A	N/A
900	893	8.0	111	POE & POE+	6.8
1000	1050	9.5	110	POE & POE+	8.1
1500	1533	14.6	105	POE & POE+	12.4
2000	2005	19.6	102	POE+ ONLY	16.7
2500	2488	25.0	100	POE+ ONLY	21.4

OPTICAL CHARACTERISTICS

Based on measurement data

	Beam Angle	Spacing Criterion
Narrow Flood	28°	0.48
Flood	36°	0.61
Wide Flood	44°	0.74

OUTPUT MULTIPLIERS

Based on measurement data

Color Temperature / CRI	Multiplier
2700K / 80 2700K / 90	0.94 0.77
3000K / 80 3000K / 90	0.98 0.82
3500K / 80 3500K / 90	1.00 0.84
4000K / 80 4000K / 90	1.02 0.87
Warm Dim 1830 / 90	0.72

Optic	Multiplier
30°	1.00
54°	0.93
78°	0.86

OUTPUT MULTIPLIERS - INSTRUCTIONS

Adjusted Value = L_1 x C_m x O_m where:

L_1 = (Lumen output at 3500K / 80 CRI) x
C_m = (Color Temp. / CRI Multiplier) x
O_m = (Optic Multiplier)

Example:

2600LM / 3000K / 80CRI / FL Configuration

(2678) x (0.97) x (0.88) = 2286LM

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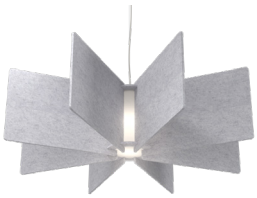
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ECHO

RENDERINGS AND DIMENSIONS



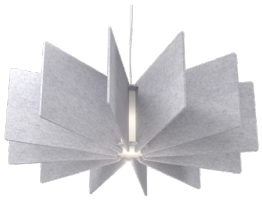
ECHO 35"—8 Fin
Style A



ECHO 47"—8 Fin
Style A



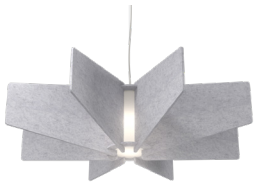
ECHO 35"—12 Fin
Style A



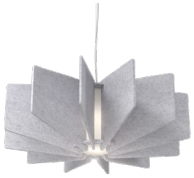
ECHO 47"—12 Fin
Style A



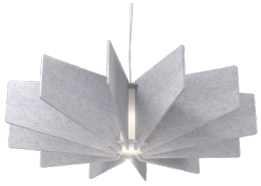
ECHO 35"—8 Fin
Style B



ECHO 47"—8 Fin
Style B



ECHO 35"—12 Fin
Style B



ECHO 47"—12 Fin
Style B



ECHO 35"—8 Fin
Style C



ECHO 47"—8 Fin
Style C



ECHO 35"—12 Fin
Style C



ECHO 47"—12 Fin
Style C

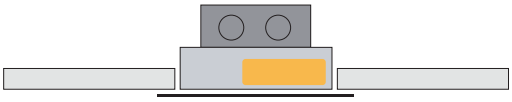
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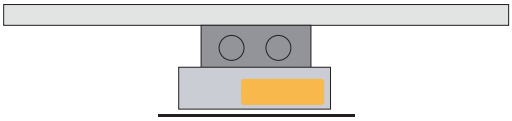
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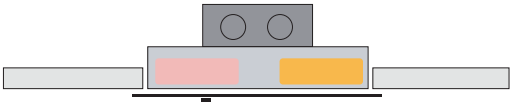
MATERIAL & HARDWARE



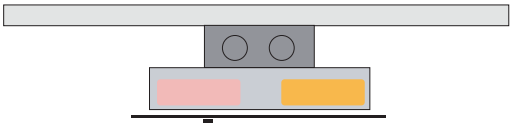
Recessed Mount—Drywall/Wood/Grid Ceilings



Surface Mount—Hard Deck Ceilings



(EM) Recessed Mount—Drywall/Wood/Grid Ceilings



(EM) Surface Mount—Hard Deck Ceilings

DRESS PLATE FINISH OPTIONS

Canopy / dress plate finish

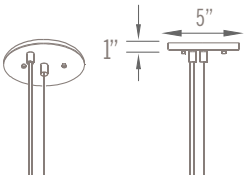
Black/Black

White/White

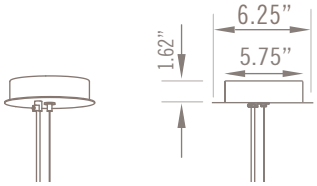
CANOPY OPTIONS

Cable to canopy

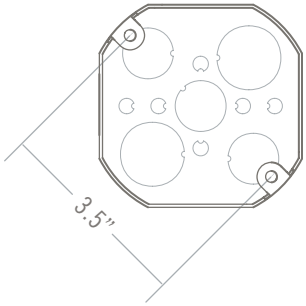
SHALLOW CANOPY
(E26 ONLY)



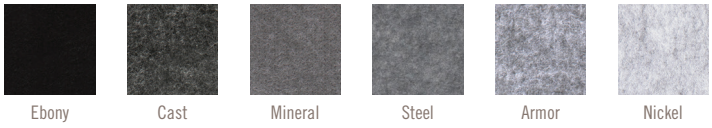
PCE / POE CANOPY



4” OCTAGONAL JUNCTION BOX
(PROVIDED BY OTHERS)



COLOR OPTIONS



Ebony | Cast | Mineral | Steel | Armor | Nickel

Nightfall | Admiral | Dusk | Steelblue | Platinum | Zinc

Emerald | Silt | Ochre | Mustard | Driftwood | Dune

Saffron | Jasper | Aries | Citrine

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SABINS PER FIXTURE *Equivalent square feet of perfect absorption*

	Sabins per fixture (equivalent square feet of perfect absorption)	
Center Frequency (Hz)	Echo 35-12	Echo 47-12
100	1.05	1.90
125	0.80	4.09
160	1.99	3.80
200	3.24	7.38
250	5.58	9.25
315	5.57	12.19
400	6.57	13.66
500	6.96	14.31
630	7.35	15.15
800	7.53	15.81
1000	7.96	16.96
1250	8.23	18.03
1600	8.98	19.27
2000	9.85	21.49
2500	10.40	22.25
3150	10.87	23.53
4000	11.16	24.02
5000	11.00	22.97
Average of 250, 500, 1000, 2000 Hz	7.59	15.50
NRC per fixture (circular footprint)	1.15	1.30

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

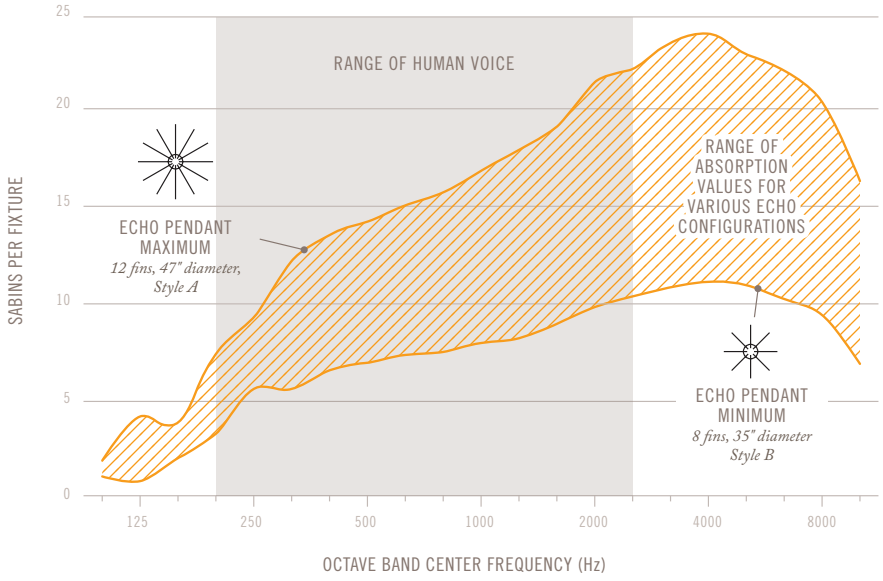
NRC per fixture:
1.15–1.30

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 C-style fixtures have not been laboratory tested. The surface area of the C-style fins and spanners meet or slightly exceed the B-style fixtures, we expect similar acoustical performance.



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.

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