The Illuminator woofers are in every aspect unusual designs with the open construction, the extremely long linear excursion and patented under-hung SD-3 (Symmetrical Drive) neodymium motor system, which due to copper caps and its construction ensures very low distortion, adding the unique patented cones, low-loss linear suspension the result is: "The Very Best Money Can Buy"!

**KEY FEATURES:**
- Under-Hung Neodymium Motor Design
- Black Anodized Alu. Cone
- Patented Symmetrical Drive (SD-3)
- Exceptionally Long Linear Excursion
- Patented Design

**T-S Parameters**
- Resonance frequency [fs] 32 Hz
- Mechanical Q factor [Qms] 3.42
- Electrical Q factor [Qes] 0.30
- Total Q factor [Qts] 0.28
- Force factor [Bl] 6 Tm
- Mechanical resistance [Rms] 1.00 kg/s
- Moving mass [Mms] 17 g
- Suspension compliance [Cms] 1.46 mm/N
- Effective diaph. diameter [D] 140 mm
- Effective piston area [Sd] 154 cm²
- Equivalent volume [Vas] 48.3 l
- Sensitivity (2.83V/1m) 88.1 dB
- Ratio Bl/√Re 3.35 N/√W
- Ratio fs/Qts 116 Hz

**Electrical Data**
- Nominal impedance [Zn] 4 Ω
- Minimum impedance [Zmin] 4.6 Ω
- Maximum impedance [Zo] 39.7 Ω
- DC resistance [Re] 3.2 Ω
- Voice coil inductance [Le] 0.39 mH

**Power Handling**
- 100h RMS noise test (IEC 17.1) 80 W
- Long-term max power (IEC 17.3) 150 W

**Voice Coil and Magnet Data**
- Voice coil diameter 42 mm
- Voice coil height 8 mm
- Voice coil layers 4
- Height of gap 20 mm
- Linear excursion ± 9 mm
- Max mech. excursion ± 16 mm
- Unit weight 1.7 kg

All Scan-Speak products are RoHS compliant.
Data are subject to change without notice.

IVERSMAGNIT
**Advanced Parameters (Preliminary)**

**Electrical data:**
- Resistance \([R_e']\): 3.81 \(\Omega\)
- Free inductance \([L_{eb}]\): 0.0513 mH
- Bound inductance \([L_e]\): 3.25 mH
- Semi-inductance \([K_e]\): 0.0582 SH
- Shunt resistance \([R_{ss}]\): 4.72 \(\Omega\)

**Mechanical Data:**
- Force Factor \([B_l]\): 5.35 Tm
- Moving mass \([M_{ms}]\): 18.0 g
- Compliance \([C_{ms}]\): 0.846 mm/N
- Mechanical resistance \([R_{ms}]\): 0.210 kg/s
- Admittance \([A_{ms}]\): 0.116 mm/N

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**WOOFER**

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