

PERFORMANCE DATA:

Model: 48LV1 • One-Way Pattern

Nominal Duct Width Size								
3 1/2"	Airflow, CFM/FT	21	31	41	51	61	71	81
	Total Pressure	.004	.008	.014	.021	.030	.041	.053
	Noise Criteria	-	-	22	27	31	35	38
	Ceiling Throw	6-9-14	8-12-17	11-14-20	13-16-22	14-17-24	15-19-26	16-20-28
4 1/4"	Airflow, CFM/FT	30	45	60	75	90	105	120
	Total Pressure	.005	.012	.021	.032	.047	.063	.083
	Noise Criteria	-	17	25	30	35	38	41
	Ceiling Throw	6-9-17	9-14-21	12-17-24	16-19-27	17-21-30	18-23-32	20-24-34
5"	Airflow, CFM/FT	40	60	80	100	120	140	160
	Total Pressure	.007	.015	.026	.041	.059	.080	.105
	Noise Criteria	-	18	26	31	36	39	42
	Ceiling Throw	7-10-20	10-15-24	14-20-28	17-22-31	20-24-34	21-26-37	23-28-39
5 3/4"	Airflow, CFM/FT	52	78	104	130	156	182	208
	Total Pressure	.009	.019	.034	.054	.078	.106	.138
	Noise Criteria	-	21	28	33	37	41	44
	Ceiling Throw	8-12-22	12-18-27	16-22-32	20-25-35	22-27-39	24-30-42	26-32-45
6 1/2"	Airflow, CFM/FT	67	100	133	166	199	232	265
	Total Pressure	.011	.025	.044	.068	.098	.133	.173
	Noise Criteria	-	22	29	34	39	42	45
	Ceiling Throw	9-14-25	14-20-31	18-25-36	23-28-40	25-31-44	27-34-47	29-36-51
8"	Airflow, CFM/FT	90	135	180	225	270	315	360
	Total Pressure	.013	.030	.054	.084	.121	.165	.216
	Noise Criteria	-	23	29	35	39	43	46
	Ceiling Throw	10-16-30	16-24-36	21-30-42	26-33-47	30-36-51	32-39-55	34-42-59
9 1/2"	Airflow, CFM/FT	115	173	231	289	347	405	463
	Total Pressure	.016	.035	.063	.098	.142	.193	.252
	Noise Criteria	-	22	29	35	39	43	46
	Ceiling Throw	12-18-33	18-27-41	24-33-47	30-37-53	33-41-58	36-44-63	39-47-67
11 3/4"	Airflow, CFM/FT	160	238	316	394	472	550	628
	Total Pressure	.020	.044	.078	.121	.174	.236	.308
	Noise Criteria	-	23	30	35	39	43	46
	Ceiling Throw	14-22-39	21-32-48	28-39-55	35-44-62	39-48-68	42-52-73	45-55-78

Throw Correction Factors for Various Lengths

Length (ft.)	2	3	4	5	6	8	10	12
Multiplier	.70	.86	1.0	1.1	1.25	1.4	1.55	1.7

Noise Criteria Correction Factors for Various Lengths

Length (ft.)	2	3	4	5	6	8	10
Supply	-3	-1	0	+1	+2	+3	+5

Performance Notes:

- Horizontal throws are given at 150, 100 and 50 fpm terminal velocities under isothermal conditions.
- Throw values are based on a 4 ft. section. For other lengths, use the correction factor table above.
- Total Pressure is in inches w.g..
- Noise Criteria [NC] values are based on a 4 ft. section and a room absorption of 10 dB, re 10⁻¹² watts. For other lengths, use the correction factor table shown.
- Return Air Applications:
Noise Criteria value is increased by + 4.
Negative Static Pressure = 0.8 x Total Pressure.
- Dash (-) in space indicates an Noise Criteria level of less than 15.
- Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70-2023

B LINEAR DIFFUSERS AND BAR GRILLES

PERFORMANCE DATA:

Model: 48LV2 • Two-Way Pattern

Nominal Duct Width Size								
6 1/4"	Airflow, CFM/FT	41	62	83	104	125	146	167
	Total Pressure	.005	.012	.021	.033	.048	.066	.086
	Noise Criteria	-	18	26	31	36	39	43
	Ceiling Throw	5-8-14	8-12-17	10-14-19	12-15-22	14-17-24	15-18-26	16-19-27
7 3/4"	Airflow, CFM/FT	62	94	126	158	190	222	254
	Total Pressure	.008	.018	.032	.050	.072	.099	.129
	Noise Criteria	-	21	28	34	38	42	45
	Ceiling Throw	6-9-17	9-14-21	13-17-24	15-19-27	17-21-29	18-22-32	20-24-34
9 1/4"	Airflow, CFM/FT	84	126	168	210	252	294	336
	Total Pressure	.010	.022	.040	.062	.089	.122	.159
	Noise Criteria	-	22	29	34	39	42	46
	Ceiling Throw	7-11-19	11-16-24	15-19-27	18-22-31	19-24-34	21-26-36	22-27-39
10 3/4"	Airflow, CFM/FT	107	161	215	269	323	377	431
	Total Pressure	.012	.027	.048	.075	.109	.148	.193
	Noise Criteria	-	23	30	35	39	43	46
	Ceiling Throw	8-12-22	12-19-27	17-22-31	20-25-35	22-27-38	24-29-41	25-31-44
12 1/4"	Airflow, CFM/FT	131	197	263	329	395	461	527
	Total Pressure	.014	.031	.055	.087	.125	.170	.223
	Noise Criteria	-	24	31	36	40	44	48
	Ceiling Throw	9-14-24	14-21-30	18-24-34	22-27-38	24-30-42	26-32-46	28-34-49

Throw Correction Factors for Various Lengths

Length (ft.)	2	3	4	5	6	8	10	12
Multiplier	.70	.86	1.0	1.1	1.25	1.4	1.55	1.7

Noise Criteria Correction Factors for Various Lengths

Length (ft.)	2	3	4	5	6	8	10
Supply	- 3	- 1	0	+ 1	+ 2	+ 3	+ 5

Performance Notes:

- Horizontal throws are given at 150, 100 and 50 fpm terminal velocities under isothermal conditions.
- Throw values are based on a 4 ft. section. For other lengths, use the correction factor table above.
- Total Pressure is in inches w.g..
- Noise Criteria [NC] values are based on a 4 ft. section and a room absorption of 10 dB, re 10⁻¹² watts. For other lengths, use the correction factor table shown.
- Return Air Applications:
Noise Criteria value is increased by + 4.
Negative Static Pressure = 0.8 x Total Pressure.
- Dash (-) in space indicates an Noise Criteria level of less than 15.
- Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70-2023