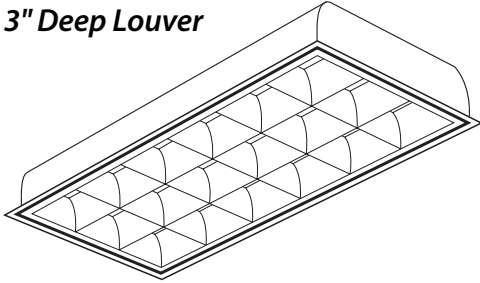


3" Deep Louver



FEATURES

- 3" deep cell parabolic louver for optimum control
- IES standard RP-1 glare control models available
- Wide light distribution provides uniform illumination
- Black reveal with full air handling capabilities
- Anodized low iridescent aluminum louver
- Treated with a five stage phosphate bonding process and finished with a baked white enamel
- Mechanical light trap prevents light leaks
- Surface mount available

PROJECT INFORMATION

Project Name _____

Type _____

Catalog No. _____

Date _____

CONSTRUCTION

Luminaire housing and end caps are die formed code gauge cold rolled steel. Louver is formed from low iridescent anodized aluminum and is secured by die-formed spring steel hinges. Louver hinges from either side. Mechanical light trap prevents light leaks. Latches are finger-tip actuated, positive feed type and completely concealed in the black reveal.

FINISH

Painted parts are treated with a five stage phosphate bonding process and finished with a high temperature baked white enamel. For post painted housing, suffix catalog number with PAF. Regressed slots are flat black.

AIR HANDLING

All supply/return and air extract functions are available as a specified option. Directional control vanes and/or extract damper features available. Air extract slots are located out of sight in end caps. See air removal data on reverse.

INSTALLATION

An access plate is furnished with each luminaire for fast wiring access from the plenum. No need to open fixture. Product ships standard with mylar dust cover to eliminate job site contamination.

BALLASTS

Energy efficient, thermally protected, automatic resetting, Class P, high power factor, sound rated A, magnetic or electronic ballasts. CEE NEMA Premium compliant.

ELECTRICAL

Standard class "P", thermally protected, autoresetting HPF ballast, sound rated A. CEE NEMA Premium compliant. All ballast leads extend a minimum of 6" through access location. NEC/CEC-compliant ballast disconnect is standard.

CEILING COMPATIBILITY

Luminaire is available to fit most standard ceiling types. NEC-compliant tee-bar clips supplied with all grid trim fixtures. See ceiling details on reverse. Contact your Columbia representative for compatibility information for specific ceiling types.

CERTIFICATION

All luminaires are built to UL 1598 standards and bear appropriate UL and cUL or CSA labels. Damp location labeling is standard. Emergency-equipped fixtures labeled UL 924.

ORDERING INFORMATION

EXAMPLE P424-332G-LD36-S-3EU

P4		24									
MODEL	NO. OF LAMPS	CEILING TYPE	NO. CELLS CROSSWISE	NO. CELLS LENGTHWISE	VOLTAGE	OPTIONS					
P4 Recessed Air Handling Parabolic	2 Two 3 Three 4 Four	G Grid F Overlap Flange M Modular Fit-in Trim SG Slot Grid SM Surface Mount (Static only)	2 Two 3 Three 4 Four	6 Six 8 Eight	U 120V-277V 347 347V	F0735 35K 75 CRI T8 Lamps Installed F0835 35K 80 CRI T8 Lamps Installed F5835 35K 80 CRI T5 Lamps Installed GLR Fast Blow Fuse GMF Slow Blow Fuse EL Emergency Battery Pack SRA Specular Anodized Aluminum Reflector 1BC One Ballast Cover M4R MIRO®-4 Specular Reflector MS9 Master/Satellite w/9' Harness 2BC Blank 2nd Channel Cover (3-Lamp, 36 and 38 louvers only) NYC NYC Compliant NYCU NYC Compliant, Union Label					
SIZE	LAMP TYPE	LOUVER FINISH	AIR FUNCTIONS		BALLAST	For a specific ballast vendor, show as option.					
24 2' x 4'	28 4', T5: 28 Watt 32 4', T8: 32, 30, 28 or 25 Watt 54 4', T5HO: 54 or 51 Watt	LD Low Iridescent Semi-Specular (Std.) LS Low Iridescent Specular MA Matte Anodized Low Iridescent Semi-Specular Aluminum GW Gloss White Enamel	S Static A Air Handling AV Air Handling w/Supply Vanes C Combination Supply/Extract CV Combination Supply Vanes/Extract CD Combination Supply Extract Dampers CVD Combination Supply Vanes Extract Dampers H Heat Extract HD Heat Extract w/Dampers	E Electronic T8, Instant Start 3E 3-Lamp Electronic T8, Instant Start EP Electronic T5 or T8, Programmed Start 3EP 3-Lamp Electronic T5HO or T8, Programmed Start 4EP 4-Lamp Electronic T5HO (N/A 347V) or T8, Programmed Start							

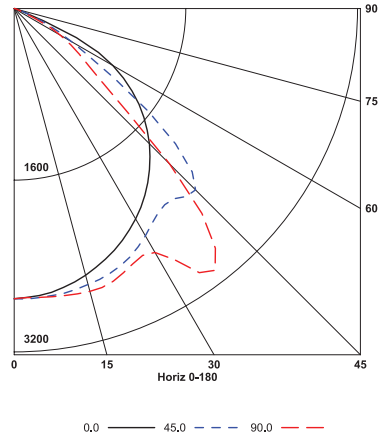
PHOTOMETRIC DATA

Test 11939 Test Date 6/11/03

LUMINAIRE DATA

Luminaire	P424-332G-LD36-3E-PAF
	P4 Parabolic
	2 x 4 3-Lamp with 3 x 6 Cell Semi-Specular Louver
Ballast	E332P1120G01
Ballast Factor	0.87
Lamp	F32T8
Lumens per Lamp	2900
Watts	90
Shielding Angle	N/A
Spacing Criterion	Along = 1.26 Across = 1.66

INDOOR CANDELA PLOT



ENERGY DATA

Total Luminaire Efficiency	77.5%
Luminaire Efficacy Rating (LER)	65
IESNA RP-1-1993 Compliance	Noncompliant
Comparative Yearly Lighting Energy Cost per 1000 Lumens	\$3.69 based on 3000 hrs. and \$0.08 per KWH

AVG. LUMINANCE (Candela/Sq. M.)

	0.0	22.5	45.0	67.5	90.0
0	4362	4362	4362	4362	4362
30	4213	4366	4554	4703	4888
40	4127	4361	4873	6054	6140
45	4065	4323	5450	5178	4672
50	3960	4266	4921	3067	2710
55	3774	4151	3271	2126	2081
60	3420	3646	2000	1616	1607
65	2443	2107	1237	924	775
70	424	491	448	283	259
75	156	181	162	168	156
80	102	111	130	130	121
85	56	56	93	93	19

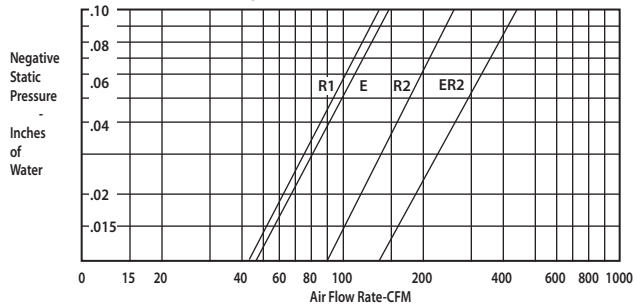
ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	2175	25.0	32.3
0-40	3713	42.7	55.1
0-60	6309	72.5	93.6
0-90	6740	77.5	100.0
0-180	6740	77.5	100.0

COEFFICIENTS OF UTILIZATION (%)

RCR	RC 80				RC 70				RC 50				RC 0
	70	50	30	10	70	50	30	10	50	30	10	0	0
1	86	83	81	78	84	82	79	77	78	76	75	69	0
2	80	74	70	66	78	73	69	66	70	67	64	60	0
3	73	66	61	57	72	65	60	56	63	59	55	52	0
4	68	60	54	49	66	59	53	49	57	52	48	45	0
5	63	54	47	43	61	53	47	42	51	46	42	40	0
6	58	48	42	38	56	48	42	37	46	41	37	35	0
7	54	44	38	33	52	43	37	33	42	37	33	31	0
8	50	40	34	30	49	40	34	30	39	33	29	28	0
9	47	37	31	27	46	36	31	27	36	30	27	25	0
10	44	34	28	24	43	34	28	24	33	28	24	23	0

EXTRACT AIR DATA Report AL-534-1.1

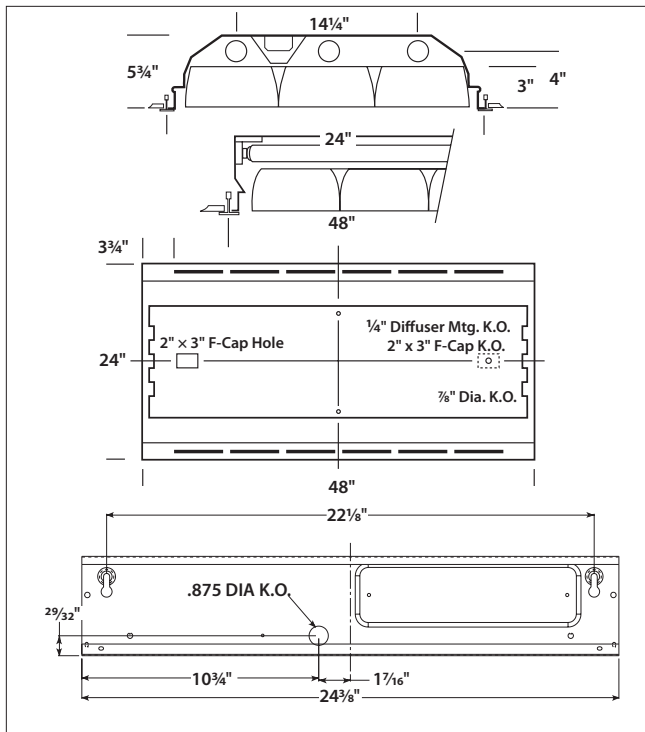


R1 - Air Return thru One Side Passage
 R2 - Air Return thru Two Side Passages
 E - Heat Extract thru Lamp Compartment
 ER2 - Thru Both Sides and Lamp Compartment

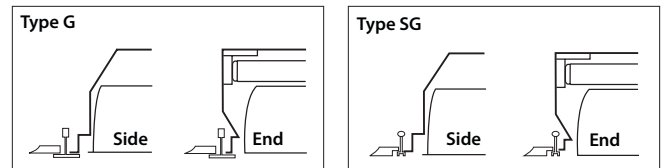
RCR = Room Cavity Ratio

RC = Effective Ceiling Cavity Reflectance RW = Wall Reflectance

DIMENSIONAL DATA

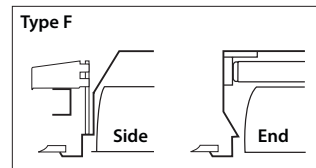


CEILING COMPATIBILITY

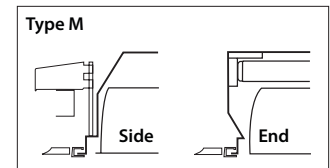


Type G
 For lay-in installation in exposed grid ceilings. Maximum tee widths of 1" and maximum tee heights of 1 1/2" allowed.

Type SG
 For 3/8" slot grid type ceilings. Louver will be level with the ceiling plane. Shoulder heights of tee or exact slot grid must be specified.



Type F
 For tile, plaster or plasterboard type ceilings. Overlapping extruded aluminum trim conceals edges of ceiling opening. Wing hanger suspension system included. For row mounting, row information is required.



Type M
 For metal pan ceilings "Fit-in" style extruded trim aligns with modular tile joints. Fixture is supported with concealed suspension and includes all adjustable wing hangers.

Flange kit rough in dimensions for single unit only: 24 3/8" x 48 3/8"

NOTE: All dimensions are in inches; dimensions and specifications are subject to change without notice. Please consult factory or check sample for verification.