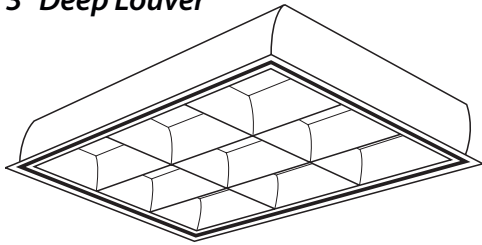


3" Deep Louver



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

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 type and completely concealed in the black reveal.

FINISH

Painted parts are treated with a five stage phosphate bonding process and finished with a temperature baked white enamel. Louvers are low iridescent semi-specular (LD) natural anodized (LD) aluminum as standard.

AIR HANDLING

All supply/return and air extract functions are available as specified on functional control vanes and/or extract dampers. Air extract slots are located out of sight behind caps. See removal data.

INSTALLATION

An access plate is furnished for each luminaire for access from the plenum. Mounted to open joists ships standard with mylar dust cover to ensure job site completion.

BALLASTS

Energy efficient, thermally protected automatic resetting, Class P, high inrush factor, sound rated A, magnetic or electronic ballast. ENEC NEMA Premium Compliant.

ELECTRICAL

Standard 120V, thermally protected, automatic resetting, sound rated A, ENEC NEMA Premium Compliant. Ballast leads extend a minimum of 6" through access plate. NEC/CEC-compliant ballast disconnect standard.

CEILING COMPATIBILITY

There are available to fit most standard ceiling types. NEC-compliant tee-bar clips supplied with all grid mixtures. 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 P422-232U6G-LD33-S-EU

P4	22	-	2	-	-	-	-
MODEL	NO. OF LAMPS	HING TYPE	NO. CELLS CROSSWISE	NO. CELLS LENGTHWISE	BALLAST	OPTIONS ¹	
P4 Recessed Air Handling Parabolic	2 Two	Overlap Flange	3 Three	3 Three	E Electronic T8, Instant Start	GLR Fast Blow Fuse	
		Modular Fit-in T8	4 Four	4 Four	EP Electronic, Programmed Start	GMF Slow Blow Fuse	
		Slot Grid			For a specific ballast vendor show as option.	EL Emergency Battery Pack	
LAMP TYPE	LOUVER FINISH	AIR FUNCTIONS	VOLTAGE				
22 2' x 2' 32U6 1/2" Leg, 6" Leg, 6" Leg T8: 32 Watt	LD Low Iridescent Semi-Specular (Std.)	S Static	U 120V-277V				
	LS Low Iridescent Specular	A Air Handling	347 347V				
	MA Matte Anodized Low Iridescent Semi-Specular Aluminum	AV Air Handling w/Supply Vanes					
	GW Gloss White Enamel	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					

¹ EL or other options may increase fixture depth.

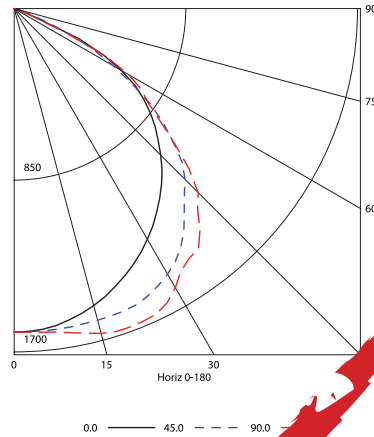
PHOTOMETRIC DATA

Test 12016 Test Date 6/11/03

LUMINAIRE DATA

Luminaire	P422-232U6G-LD33-E-PAF
	P4 Parabolic
	2 x 2 2-Lamp with 3 x 3 Cell Semi-Specular Louver
Ballast	B232I120RH
Ballast Factor	0.88
Lamp	FB31T8/6
Lumens per Lamp	2800
Watts	55
Shielding Angle	N/A
Spacing Criterion	Along = 1.24 Across = 1.45

INDOOR CANDELA PLOT



ENERGY DATA

Total Luminaire Efficiency	74.3%
Luminaire Efficacy Rating (LER)	67
ANSI/IESNA RP-1-1993 Compliance	Noncompliant
Comparative Yearly Lighting Energy Cost per 1000 Lumens	Based on 3000 hrs. and \$0.08 per KWH

AVG. LUMINANCE (Candela/Sq. M.)

	0.0	45.0	90.0
0	5501	5501	5501
30	5501	5554	5526
40	5591	5606	5593
50	4985	5554	5808
60	4869	5483	5489
70	4690	5418	4518
80	4139	4886	4501
90	212	252	279
100	178	178	178
150	158	158	158
200	158	158	158

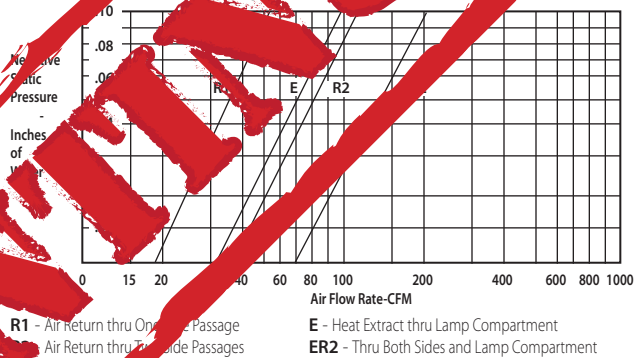
ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	1317	23.5	31.7
0-40	2197	39.2	52.8
0-60	3822	68.3	91.8
0-90	4162	74.3	100.0
0-180	4162	74.3	100.0

COEFFICIENTS OF UTILIZATION (%)

RCR	RC	80				70				50				0
	RW	70	50	30	10	70	50	30	10	50	30	10	0	
	1	82	80	77	75	81	78	76	74	75	73	71	66	
	2	76	71	67	63	74	69	66	62	67	64	61	57	
	3	70	63	58	53	68	62	57	53	60	56	52	49	
	4	64	56	50	46	63	55	50	46	54	49	45	42	
	5	59	51	44	40	58	50	44	40	48	43	39	37	
	6	55	46	39	35	53	45	39	35	44	38	35	32	
	7	51	41	35	31	50	41	35	31	40	34	31	29	
	8	47	38	32	28	46	37	32	28	36	31	27	26	
9	44	35	29	25	43	34	29	25	33	28	25	23		
10	41	32	26	22	40	32	26	22	31	26	22	21		

EXTRACTOR DATA



RCR = Room Cavity Ratio

RC = Effective Ceiling Cavity Reflectance RW = Wall Reflectance

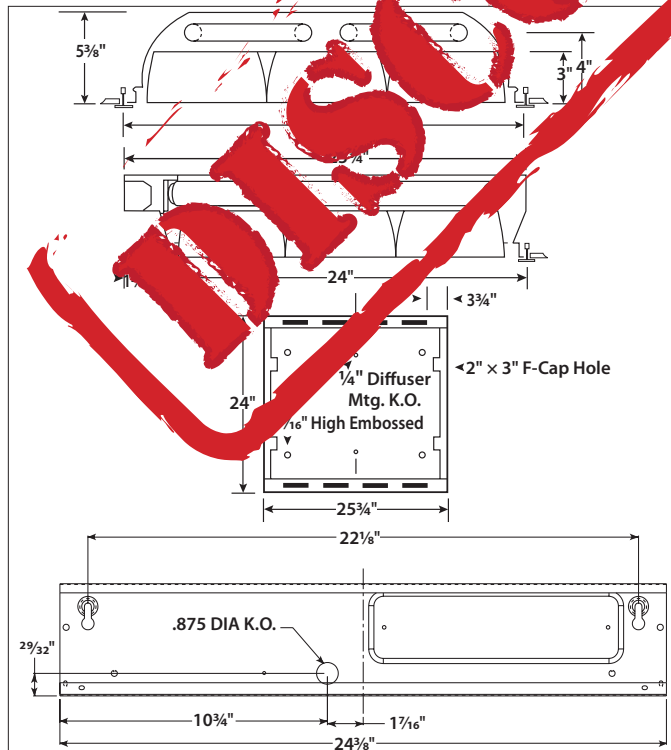
R1 - Air Return thru One Side Passage
R2 - Air Return thru Two Side Passages

Air Flow Rate-CFM

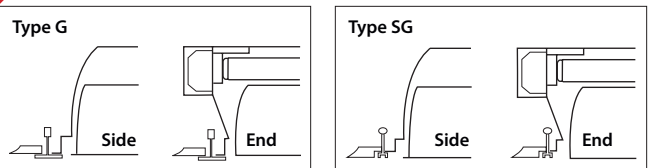
E - Heat Extract thru Lamp Compartment

ER2 - Thru Both Sides and Lamp Compartment

DIMENSIONAL DATA

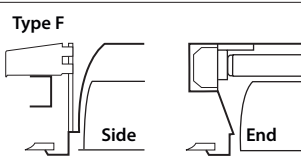


CEILING COMPATIBILITY



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

For 5/8" slot grid type ceilings. Louver will be level with the ceiling plane. Shoulder heights of tee or exact slot grid must be specified.



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.

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 24 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.