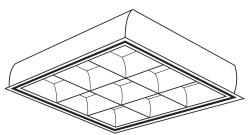
Columbia



Also available with 3 lamps

FEATURES

- Nominal 3" deep louver
- Black reveal with full air handling capabilities
- Matte anodized low iridescent, semi-specular (MA) louver finish virtually eliminates visibility of fingerprints and construction dust
- Shallow housing height
- Lightweight

Туре

Date

2' × 2' DuraLouver[®] Parabolic / 2 or 4-Lamp T8, TT

PROJECT INFORMATION

Project Name

Catalog No.

CONSTRUCTION

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

FINISH

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. Anodized aluminum DuraLouver standard finish is matte anodized low iridescent (MA). Also available in low-iridescent semi-specular natural anodized aluminum (LD) or low-iridescent specular aluminum (LS).

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

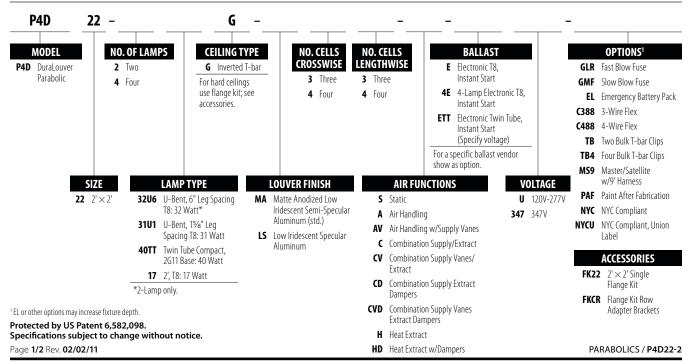
Luminaire is available to fit exposed grid ceilings. For hard ceilings order accessory flange kit. Some options may increase fixture depth. For information on compatibility with specific ceilings, or where plenum depth is a problem, contact your Columbia representative. Four integral T-bar clips are standard. Two or four non-integral T-bar clips are available as an option.

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.

EXAMPLE P4D22-217G-MA33-S-EU

ORDERING INFORMATION



© 2011 Columbia Lighting, a division of Hubbell Lighting, Inc. Because of continuing product improvement programs, Columbia Lighting reserves the right to change specifications without notice. 701 Millennium Blvd. Greenville, SC 29607 / Tel 864.678.1000 / Tech Support 864.678.1668 / Website www.columbialighting.com



PHOTOMETRIC DATA

LUMINAIRE DATA

Luminaire	P4D22-232U6G-MA33 P4D, Parabolic 2' X 2' 2 LAMP WITH 3X3 CELL MATTE ALUMINUM LOUVER
Ballast	B232I120RH
Ballast Factor	0.88
Lamp	F31T8U6
Lumens per Lamp	2850
Watts	60
Shielding Angle	0° = 20 90° = 48
Spacing Criterion	0° = 1.21 90° = 1.36

COEFFICIENTS OF UTILIZATION (%)

	RC	80			70				50			0	
	RW	70	50	30	10	70	50	30	10	50	30	10	0
	1	74	71	69	67	72	70	68	66	67	65	64	59
	2	68	63	59	56	66	62	58	55	60	57	54	50
	3	62	56	51	48	61	55	51	47	53	50	46	44
	4	58	50	45	41	56	49	44	41	48	44	40	38
RCR	5	53	45	40	36	52	44	39	35	43	39	35	33
8	6	49	41	35	31	48	40	35	31	39	34	31	29
	7	46	37	32	28	44	37	31	28	36	31	27	26
	8	42	34	29	25	41	33	28	25	33	28	25	23
	9	40	31	26	22	39	31	26	22	30	25	22	21
	10	37	29	24	20	36	28	24	20	28	23	20	19

RCR = Room Cavity Ratio

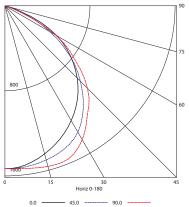
DIMENSIONAL DATA

RC = Effective Ceiling Cavity Reflectance **RW** = Wall Reflectance



Zone	Lumens	Lamp	Fixt.
0-30	1229	21.6	32.4
0-40	2017	35.4	53.1
0-60	3426	60.1	90.3
0-90	3796	66.6	100.0
0-180	3796	66.6	100.0

INDOOR CANDELA PLOT



Test 12476 Test Date 3/31/00

ENE	RG	Y DA	TA					
Total Luminaire Efficiency					66.6	66.6%		
Lum	Luminaire Efficacy Rating (LER)					56		
IESNA RP-1-1993 Compliance					Non	Noncompliant		
Comparative Yearly Lighting Energy Cost per 1000 Lumens \$4.29 based of 3000 hrs. and \$0.08 per KW AVG. LUMINANCE (Candela/Sq. M.)) hrs. and 8 per KWH	
		0.0			67.5	•		
	0	5443	5443	5443	5443	5443		
le	30	5115	5312	5628	5829	5969		
oce Angle	40	4961	5207	5314	5449	5695		
a 45 4832 5053 5043 5259 551						5516		
2	50	4652	1700	1720	1856	5111		

369 287 266 246

FK22 Flange Kit

finished appearance.

Side

For hard ceiling applications order FK22

flange kit. Flange kit wires directly into

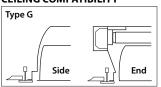
concealed ceiling opening for a clean,

3598 3946

2440

676

CEILING	COMPATIBILIT	'Y



Average Luminar

75 728 632 481 412 398

4407 4395 4196 4246 4624

3811 3498

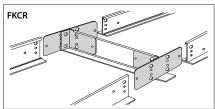
 65
 3172
 2885
 2532
 2406

 70
 1590
 1507
 1320
 811

60 4003

80 409 85 245 245 163 163 122

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

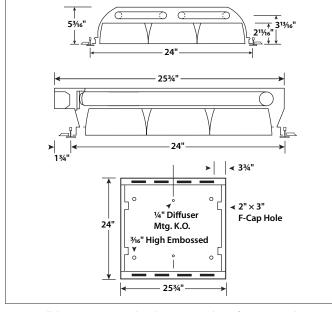


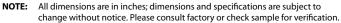
For flanged fixtures in row configurations, the FKCR adapter bracket kit is required in addition to the FK22 kit. Order one less FKCR than the total number of fixtures in row. (Example: Row of two, order (2) FK22 & (1) FKCR)

End

Row cut out dimensions using FK22s & FKCR adapters: Width 24³/₈", Length [24" × (# in row)] + ³/₈". Example: (24" × 2) + ³/₈" = 48³/₈"

Flange kit rough in dimensions for single unit only: 243/8" × 243/8"





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PARABOLICS / P4D22-2



P4D22-2 2' × 2' DuraLouver® Parabolic / 2 or 4-Lamp T8, TT