



FEATURES

- Nominal 3" deep louver
- Fluorescent, energy efficient light source
- Black reveal
- Matte anodized low iridescent, semi-specular (MA) louver finish virtually eliminates visibility of fingerprints and construction dust
- Shallow housing height
- Lightweight
- UL Listed 1598

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 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).

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

Designed for recessed installation in standard inverted tee grid ceilings (G) or recessed installation in hard ceilings (G with FK accessory). For compatibility with specific ceilings contact your Hubbell Lighting representative.

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 P4D24-332G-MA36-S-EU

P4D	24	-	3	32	G	-	MA	3	6	-	S	-	-	-
MODEL P4D DuraLouver Parabolic	NO. OF LAMPS 3 Three		CEILING TYPE G Inverted T-bar ¹ For hard ceilings use flange kit; see accessories.		NO. CELLS CROSSWISE 3 Three		NO. CELLS LENGTHWISE 6 Six		BALLAST E Electronic T8, Instant Start 3E 3-Lamp Electronic T8, Instant Start EP Electronic T8, Programmed Start 3EP 3-Lamp Electronic T8, Programmed Start For a specific ballast vendor show as option.			OPTIONS GLR Fast Blow Fuse GMF Slow Blow Fuse EL Emergency Battery Pack F835 35K 78+ CRI Full Wattage T8 Lamps Installed C388 3-Wire Flex C488 4-Wire Flex TB Two Bulk T-bar Clips TB4 Four Bulk T-bar Clips PAF Paint After Fabrication		
SIZE 24 2'x4'		LAMP TYPE 32 4', T8: 32, 30, 28 or 25 Watt		LOUVER FINISH MA Matte Anodized Low Iridescent Semi-Specular Aluminum (std.)		AIR FUNCTIONS S Static ²		VOLTAGE U 120V-277V 347 347V						
ACCESSORIES FK24 2'x4' Single Flange Kit FKCR Flange Kit Row Adapter Brackets														

¹ For drywall order G ceiling type with FK flange kit accessories.

² Fixtures supplied with integral T-bar clips.

Protected by US Patent 6,582,098.
Specifications subject to change without notice.

PHOTOMETRIC DATA

Test 12453 Test Date 4/29/03

LUMINAIRE DATA

Luminaire	P4D24-332-MA36-EB8120-PAF P4D, Parabolic 2' X 4' 3 LAMP WITH 3X6 CELL MATTE ALUMINUM LOUVER
Ballast	B332I120RH
Ballast Factor	0.88
Lamp	F32T8
Lumens per Lamp	2900
Watts	83
Shielding Angle	NA
Spacing Criterion	0° = 1.25 90° = 1.65

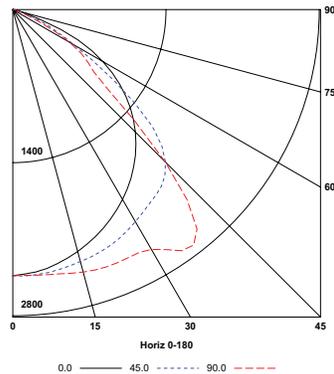
ENERGY DATA

Total Luminaire Efficiency	72.1%
Luminaire Efficacy Rating (LER)	67
IESNA RP-1-1993 Compliance	Noncompliant
Comparative Yearly Lighting Energy Cost per 1000 Lumens	\$3.58 based on 3000 hrs. and \$0.08 per KWH

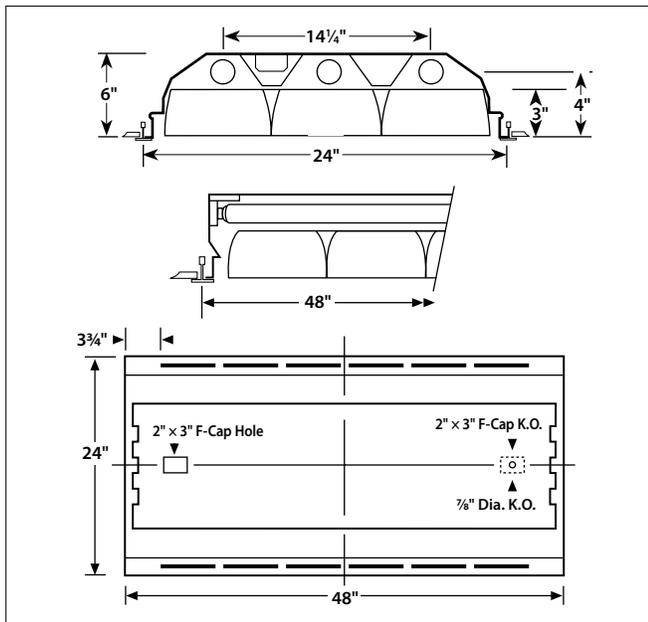
ZONAL LUMEN SUMMARY

Zone	Lumens	Lamp	Fixt.
0-30	1972	22.7	31.4
0-40	3364	38.7	53.6
0-60	5749	66.1	91.7
0-90	6271	72.1	100.0
0-180	6271	72.1	100.0

INDOOR CANDELA PLOT

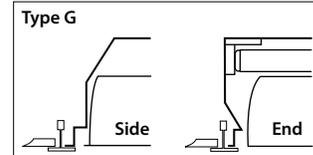


DIMENSIONAL DATA

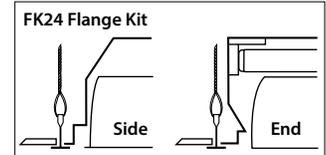


NOTE: All dimensions are in inches; dimensions and specifications are subject to change without notice. Please consult factory or check sample for verification.

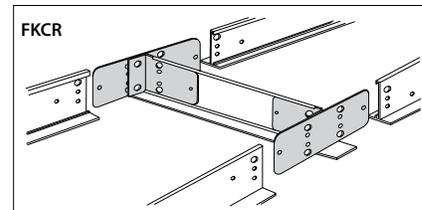
CEILING COMPATIBILITY



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



For hard ceiling applications order FK24 flange kit. Flange kit wires directly into concealed ceiling opening for a clean, finished appearance.



For flanged fixtures in row configurations, the FKCR adapter bracket kit is required in addition to the FK24 kit. Order one less FKCR than the total number of fixtures in row. (Example: Row of two, order (2) FK24 & (1) FKCR)

Row cut out dimensions using FK24s & FKCR adapters:
Width 24 3/8", Length [48" x (# in row)] + 3/8". Example: (48" x 2) + 3/8" = 96 3/8"

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