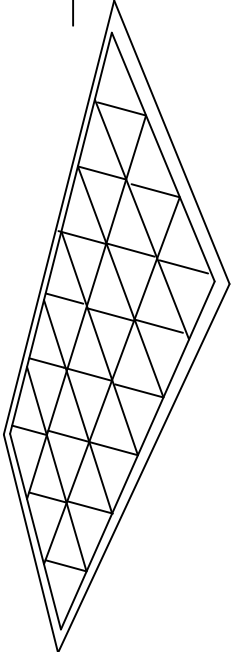


1 2 3 4 5

FEATURES
 LAMP TYPE: F32T8/75 CRI
 PROFILE: 3 LAMP
 MOUNTING: RECESSED GRID
 SHIELDING: 76mm DEEP, 18 CELL SEMI-SPECULAR, LOW IRIDESCENT PARABOLIC LOUVER
 BALLAST: PARABOLIC LOUVER ELECTRONIC

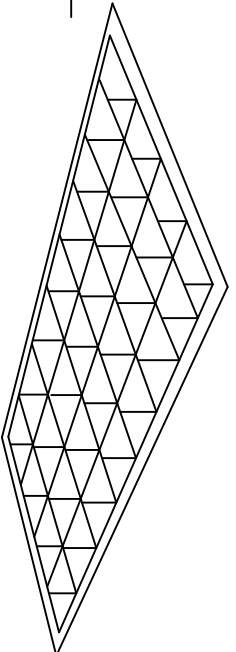


NOM. DIMENSIONS 610mm x 1219mm x 152mm

GENERAL DESCRIPTION

HOUSING: COLD ROLLED STEEL, FLANGE TO COORDINATE WITH CEILING
 MOUNTING: RECESSED INTO STANDARD NON METRIC GRID
 REFLECTORS: HIGH REFLECTANCE GLOSS WHITE
 ELECTRICAL: 120 VOLT BALLAST
 EFFICIENCY: 70%

FEATURES
 LAMP TYPE: F32T8/75 CRI
 PROFILE: 4 LAMP
 MOUNTING: RECESSED GRID
 SHIELDING: 76mm DEEP, 24 CELL SEMI-SPECULAR, LOW IRIDESCENT PARABOLIC LOUVER
 BALLAST: PARABOLIC LOUVER ELECTRONIC

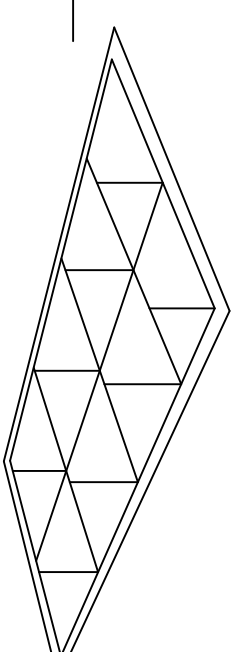


NOM. DIMENSIONS 610mm x 1219mm x 152mm

GENERAL DESCRIPTION

HOUSING: COLD ROLLED STEEL, FLANGE TO COORDINATE WITH CEILING
 MOUNTING: RECESSED INTO STANDARD NON METRIC GRID
 REFLECTORS: HIGH REFLECTANCE GLOSS WHITE
 ELECTRICAL: 120 VOLT BALLAST
 EFFICIENCY: 70%

FEATURES
 LAMP TYPE: F32T8/75 CRI
 PROFILE: 2 LAMP
 MOUNTING: RECESSED GRID
 SHIELDING: 76mm DEEP, 12 CELL SEMI-SPECULAR, LOW IRIDESCENT PARABOLIC LOUVER
 BALLAST: PARABOLIC LOUVER ELECTRONIC

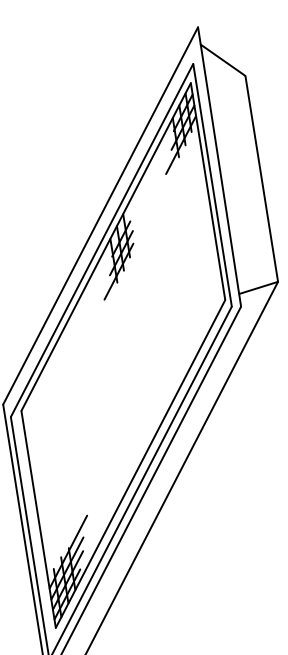


NOM. DIMENSIONS 610mm x 1219mm x 152mm

GENERAL DESCRIPTION

HOUSING: COLD ROLLED STEEL, FLANGE TO COORDINATE WITH CEILING
 MOUNTING: RECESSED INTO STANDARD NON METRIC GRID
 REFLECTORS: HIGH REFLECTANCE GLOSS WHITE
 ELECTRICAL: 120 VOLT BALLAST
 EFFICIENCY: 70%

FEATURES
 LAMP TYPE: F32T8/75 CRI
 PROFILE: 4 LAMP
 SHIELDING: ACRYLIC PRISMATIC LENS
 BALLAST: ELECTRONIC



NOM. DIMENSIONS 610mm x 1219mm x 152mm

GENERAL DESCRIPTION

HOUSING: COLD ROLLED STEEL, FLANGE TO COORDINATE WITH CEILING, EXTRUDED ALUMINUM LENS FRAME, HINGED REMOVAL AND SPRING-LOADED CATCHES
 MOUNTING: RECESSED INTO STANDARD NON METRIC GRID
 REFLECTORS: HIGH REFLECTANCE GLOSS WHITE
 ELECTRICAL: 120 VOLT BALLAST
 EFFICIENCY: 80%

RECESSED PARABOLIC 600x1200
 FLUORESCENT TROFFER

FIXTURE TYPE "A"

RECESSED PARABOLIC 600x1200
 FLUORESCENT TROFFER

FIXTURE TYPE "B"

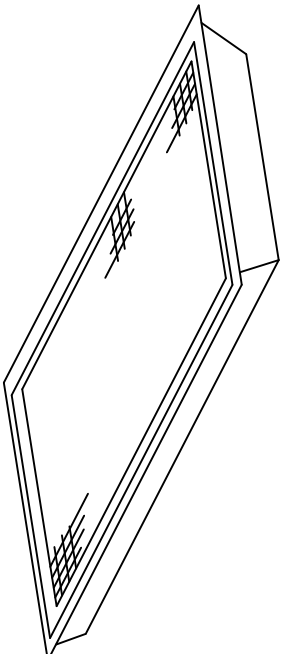
RECESSED PARABOLIC 600x1200
 FLUORESCENT TROFFER

FIXTURE TYPE "C"

RECESSED LENSED 600x1200
 FLUORESCENT TROFFER

FIXTURE TYPE "D"

FEATURES
 LAMP TYPE: F32T8/75 CRI
 PROFILE: 2 LAMP
 SHIELDING: ACRYLIC PRISMATIC LENS
 BALLAST: ELECTRONIC



NOM. DIMENSIONS 610mm x 1219mm x 152mm

GENERAL DESCRIPTION

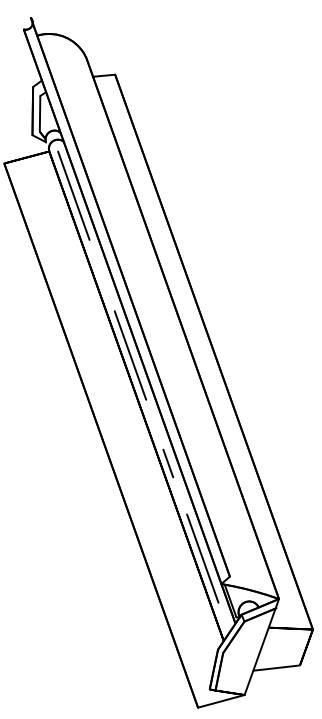
HOUSING: COLD ROLLED STEEL, FLANGE TO COORDINATE WITH CEILING, EXTRUDED ALUMINUM LENS FRAME, HINGED REMOVAL AND SPRING-LOADED CATCHES
 MOUNTING: RECESSED INTO STANDARD NON METRIC GRID
 REFLECTORS: HIGH REFLECTANCE GLOSS WHITE
 ELECTRICAL: 120 OR 277 VOLT BALLAST
 EFFICIENCY: 80%

RECESSED LENSED 600x1200
 FLUORESCENT TROFFER

FIXTURE TYPE "E"

LUMINAIRE REQUIREMENTS

- HOUSING SHALL BE 20mm MINIMUM THICKNESS DIE FORMED COLD ROLLED STEEL, CHEMICALLY TREATED FOR RUST PREVENTION AND FINISHED WITH WHITE BAKED ENAMEL OR POLYESTER FINISH. PROVIDE TOP AND END KNOCKOUTS.
- HOUSING WELDED OR SECURED BY SCREWS OR RIVETS INTO A SINGLE ASSEMBLY. PROVIDE INTERVAL PROVISIONS FOR GROUNDING.
- REFLECTOR SHALL BE 15mm MINIMUM THICKNESS STEEL (SOLID WHEN LUMINAIRE IS MOUNTED BELOW CATWALKS, ETC. 10-25% APERTURED WHEN PROTECTED FROM FALLING OBJECTS). PROVIDE 30 SHIELDING CENTER VEE. CHEMICALLY TREAT FOR RUST PREVENTION AND FINISH WITH WHITE BAKED ENAMEL, PORCELAIN ENAMEL, OR POLYESTER FINISH. MINIMUM REFLECTANCE SHALL BE 85%.
- THE LUMINAIRE SHALL NOT PERMANENTLY DISTORT WHEN LIFTED BY ONE CORNER.
- SPACING TO MOUNTING HEIGHT RATIO = 1.3.
- LUMINAIRE SHALL BE CAPABLE OF CONTINUOUS ROW AND SINGLE UNIT PLACEMENT WITH PENDANT OR SURFACE MOUNTING.
- FIXTURES TO BE FINISHED WITH WIRE GUARDS OR MEANS TO LOCK LAMPS IN PLACE TO PREVENT FALLING OUT OF SOCKETS.
- BALLAST SHALL BE HIGH POWER FACTOR (> .9) ETL, CBM APPROVED CLASS P ENERGY SAVING BALLAST WITH A SOUND RATING OF 'B' (RAPID START OR SIMILAR).
- MINIMUM COEFFICIENT OF UTILIZATION (CU) WITH THE FOLLOWING CAVITY REFLECTANCE OF: CEILING = 80% WALL = 50% FLOOR = 20% LUMINAIRE USING 3100 LAMP WITH AVERAGE RATIO NOT TO EXCEED 1:5.



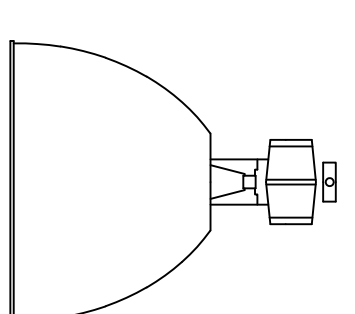
ROOM CAVITY RATIO

Room Cavity Ratio	CU	Avg. Luminance (fL)
1	0.85	45 - 1350
2	0.73	55 - 1250
3	0.68	65 - 1250
4	0.60	75 - 850
		85 - 800

INDUSTRIAL FLUORESCENT

FIXTURE TYPE "F"

FEATURES
 LAMP TYPE: 1000W METAL HALIDE
 PROFILE: 1 LAMP
 SHIELDING: NONE
 BALLAST: HIGH POWER FACTOR, CORE & COIL, CWA



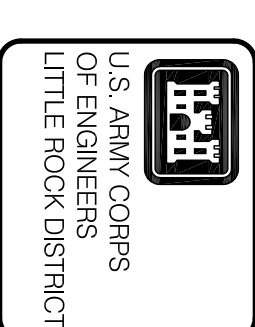
NOM. DIMENSIONS 483mm x 660mm

GENERAL DESCRIPTION

HOUSING: HEAVY GAUGE COLD ROLLED STEEL
 MOUNTING: RIGID STEM WITH SWIVEL BALL ALIGNER
 REFLECTORS: HIGHLY SPECULAR EXTRUDED-CONTOUR OPTICAL REFLECTOR AND FORMED SPECULAR REFLECTOR
 ELECTRICAL: 208 VOLT, 1 PHASE BALLAST
 FINISH: NATURAL METAL

PENDANT MOUNTED METAL HALIDE HIGH BAY WAREHOUSE AISLE LIGHT

FIXTURE TYPE "G"



Mark	Description	Date	Appr.	Mark	Description	Date	Appr.

Contract Date: File Name: 151001E-501	Drawn by: MB	Designed by: RH
Plot date: 02/04/03	Reviewed by: PWD	Submitted by:
Plot scale: 1:1	Invitation No.: DKM03-03-R-0021	Contract No.: DKM03-03-B-

DEPARTMENT OF THE ARMY
 U.S. ARMY CORPS OF ENGINEERS
 LITTLE ROCK DISTRICT
 LITTLE ROCK, ARKANSAS

Atkins Benham
 a member of the WS Atkins group of companies

ADAL C-130J AIRCREW FUSELAGE TRAINER
 LRAFB, LITTLE ROCK AR.
 Project No. NNAK 043005

LIGHT FIXTURE DETAILS

Sheet Reference Number:
E-501
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