

## RECESSED

### ORDERING NOMENCLATURE



## OPTICAL SYSTEM

Computer-aided housing design allows for optimum luminaire efficiency. Cam action latches and die formed T-hinges for door insertion from either side on lensed fixtures. A variety of diffuser or parabolic louver options are available for customized applications.

## ELECTRICAL SYSTEM

Ballasts are solid-state electronic. Ballasts and lamp holders are replaceable without removing from ceiling. Discrete voltage must be specified for emergency pack options when wired with flex.

## MOUNTING

This fixture is designed for recessed ceiling mounting. Flange kits are available for sheetrock mounting, or fixtures can be mounted directly into a grid ceiling.

## CONSTRUCTION

Housing constructed of structurally embossed, heavy gauge, cold rolled steel. Die-formed flat steel door with mitered corners for clean appearance. Wire way covers snap in for easy attachment and removal. Access plate provides top access to wire way.

## FINISH

All reflective surfaces are finished with a high reflectance, lighting fixture white polyester powder. Custom finishes are available upon request.

### ORDERING NOMENCLATURE

(Ex: 2X4 LAY-IN TROFFER, 4 LAMP, 32W T8, #12 ACRYLIC .100" DIFFUSER, FLUSH STEEL WHITE DOOR, MULTI-VOLT = TR2432SWD)

SERIES	NUMBER OF LAMPS	WATTAGE	AIR FUNCTION	DIFFUSER	DOOR FRAME	VOLTAGE	BALLAST FACTOR
TR1 (1X4)	2	17 = 17W T8, 24"	BLANK = No Air Function	BLANK-#12 Acrylic .100" thick	SW = Flush Steel White	D = Multi-Volt*	BLANK = Normal
TR2 (2X4)	3	25 = 25W T8, 24"		A - #12 Acrylic .125" thick	AN = Flush Alum Natural	1 = 120V	H = High
TR22 (2X2) Lay-In Troffer	4	U31 = 31W T8 U, 1 1/2" Leg U316 = 31W 8T U, 6" Leg CF39 = 39W TT5, 24" CF40 = 40W TT5, 24" CF50 = 50W TT5, 24" CF55 = 55W TT5, 24"	1 = Air Supply /Return 2 = Heat Removal 3 = Dual Function Supply / Return	B - #12 Acrylic .156" thick C - #15 Acrylic .125" thick D - #15 Acrylic .140" thick E - 1/2" Egg Crate	AB = Flush Alum Matte Black AW = Flush Alum White RN = Regressed Alum Natural RB = Regressed Alum Matte Black RW = Regressed Alum White	2 = 277V 3 = 347V 4 = 480V  (*Multi-Volt is 120/277V)	L = Low
		1X4 and 2X4 28T8 = 28W T8, 48" 28T5 = 28W T5, 46" 30 = 30W T8, 48" 32 = 32W T8, 48" 48HO = 60W 800mA, 48" 54 = F54T5HO, 46"					



SERIES	NUMBER OF LAMPS	WATTAGE	AIR FUNCTION	DIFFUSER	DOOR FRAME	VOLTAGE	BALLAST FACTOR
EF1 (1X4)	2	17 = 17W T8, 24"	BLANK = No Air Function	BLANK-#12 Acryl .100" thick	SW = Flush Steel White	D = Multi-Volt*	BLANK = Normal
EF2 (2X4)	3	25 = 25W T8, 24"		A - #12 Acrylic .125" thick	AN = Flush Alum Natural	1 = 120V	H = High
EF22 (2X2) Flanged Troffer	4	U31 = 31W T8 U, 1 1/8" Leg U316 = 31W 8T U, 6" Leg CF39 = 39W TT5, 24" CF40 = 40W TT5, 24" CF50 = 50W TT5, 24" CF55 = 55W TT5, 24" 1X4 and 2X4 28T8 = 28W T8, 48" 28T5 = 28W T5, 46" 30 = 30W T8, 48" 32 = 32W T8, 48" 48HO = 60W 800mA, 48" 54 = F54T5HO, 46"	1 = Air Supply /Return 2 = Heat Removal 3 = Dual Function Supply / Return	B - #12 Acrylic .125" thick C - #15 Acrylic .156" thick D - #15 Acrylic .125" thick E - 1/2" Egg Crate	AB = Flush Alum Matte Black AW = Flush Alum White RN = Regressed Alum Natural RB = Regressed Alum Matte Black RW = Regressed Alum White	2 = 277V 3 = 347V 4 = 480V  (*Multi-Volt is 120/277V)	L = Low

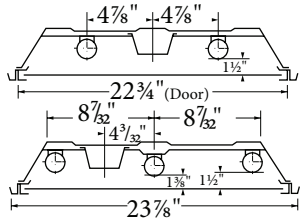
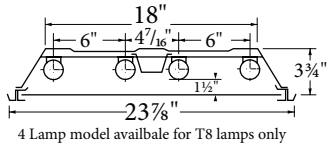
SERIES	NUMBER OF LAMPS	WATTAGE	AIR FUNCTION	CELL NUMBER	LOUVER FINISH	VOLTAGE	BALLAST FACTOR
PT1 (1X4)	2	17 = 17W T8, 24"	B = No Air Function	6	1 = Semi Specular Low	D = Multi-Volt*	BLANK = Normal
PT2 (2X4)	3	25 = 25W T8, 24"	A = Air Supply /Return	9	Iridescent (Silver Only)	1 = 120V	H = High
PT22 (2X2) Parabolic Troffer	4	U31 = 31W T8 U, 1 1/8" Leg U316 = 31W 8T U, 6" Leg CF39 = 39W TT5, 24" CF40 = 40W TT5, 24" CF50 = 50W TT5, 24" CF55 = 55W TT5, 24" 1X4 and 2X4 28T8 = 28W T8, 48" 28T5 = 28W T5, 46" 30 = 30W T8, 48" 32 = 32W T8, 48" 48HO = 60W 800mA, 48" 54 = F54T5HO, 46"	H = Heat Removal D = Dual Function Supply / Return	12 16 18 24 27 32 36 64	2 = Specular Mirrored Low Iridescent (Mirror Only)	2 = 277V 3 = 347V 4 = 480V  (*Multi-Volt is 120/277V)	L = Low

SERIES	NUMBER OF LAMPS	WATTAGE	AIR FUNCTION	DIFFUSER	DOOR FRAME	VOLTAGE	BALLAST FACTOR
CRT1 (1X4)	2	17 = 17W T8, 24"	BLANK = No Air Function	BLANK-#12 Acryl .100" thick	SW = Flush Steel White	D = Multi-Volt*	BLANK = Normal
CRT2 (2X4)	3	25 = 25W T8, 24"		A - #12 Acrylic .125" thick	AN = Flush Alum Natural	1 = 120V	H = High
CRT22 (2X2) Clean Room Troffer	4	U31 = 31W T8 U, 1 1/8" Leg U316 = 31W 8T U, 6" Leg CF39 = 39W TT5, 24" CF40 = 40W TT5, 24" CF50 = 50W TT5, 24" CF55 = 55W TT5, 24" 1X4 and 2X4 28T8 = 28W T8, 48" 28T5 = 28W T5, 46" 30 = 30W T8, 48" 32 = 32W T8, 48" 48HO = 60W 800mA, 48" 54 = F54T5HO, 46"	1 = Air Supply /Return 2 = Heat Removal 3 = Dual Function Supply / Return	B - #12 Acrylic .125" thick C - #15 Acrylic .156" thick D - #15 Acrylic .125" thick .140" thick	AB = Flush Alum Matte Black AW = Flush Alum White RN = Regressed Alum Natural RB = Regressed Alum Matte Black RW = Regressed Alum White	2 = 277V 3 = 347V 4 = 480V  (*Multi-Volt is 120/277V)	L = Low

RECESSED

## TR SERIES




### Lay-In Troffer



## DESIGN

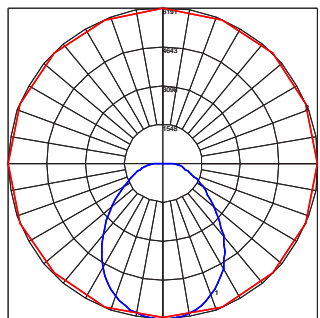
The TR Series Lay-In Troffer was designed for recessed ceiling mounting. It features a shallow profile for restricted plenum spaces. It was designed for both durability and economy. The TR Series is ideal for a variety of applications such as offices, schools, or retail applications.

## ACCESSORIES

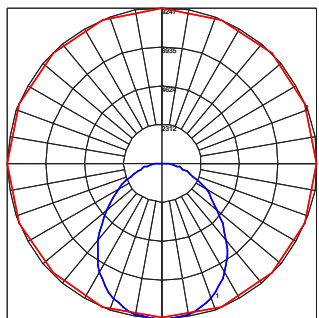
-  **6' 16/3 CORD w/ 15A NEMA PLUG**  
C1 (120V)  
C2 (277V)  
C4 (480V)
-  **T8 EMERGENCY BALLAST**  
EB5 (500 LUMEN)  
EB7 (700 LUMEN)  
EB14 (1400 LUMEN)  
EB30 (3000 LUMEN)
-  **MOTION SENSOR**  
WOC (120/277V)  
WOC1 (347/480V)

## PHOTOMETRICS

IES INDOOR REPORT  
PHOTOMETRIC FILENAME: THB632.IES  
POLAR GRAPH



IES INDOOR REPORT  
PHOTOMETRIC FILENAME: THB654.IES  
POLAR GRAPH



Maximum Candela = 6191 Located At Horizontal Angle = 22.5, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

Maximum Candela = 9247 Located At Horizontal Angle = 22.5, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

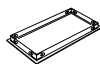
## ORDERING INFORMATION

Description	Part Number
1X4 2L 32W T8 120/277V	TR1232SWD (A)
2X2 4L 17W T8 120/277V	TR22417SWD (A)
2X2 2L 32W T8 U 120/277V	TR222U316SWD (A)
2X4 3L 28W T5 120/277V	TR23328T5SWD (A)
2X4 3L 32W T8 120/277V	TR2332SWD (A)
2X4 3L 54W T5HO 120/277V	TR2354SWD (A)
2X4 4L 28W T5 120/277V	TR2428T5SWD (A)
2X4 4L 32W T8 120/277V	TR2432SWD (A)
2X4 4L 54W T5HO 120/277V	TR2454SWD (A)

**Option Codes**  
(A) Options  
Blank - None  
10RS - ≤10% THD, Rapid Start  
P - Program Start  
20 - ≤20% THD  
IC - Insulation Contact Rated  
IO - Inboard/Outboard (2 Lamp-2 Lamp)  
IO2 - Inboard/Outboard (1 Lamp-3 Lamp)

All part numbers shown here include a #12 Acrylic .100" lens.

## SHIELDS

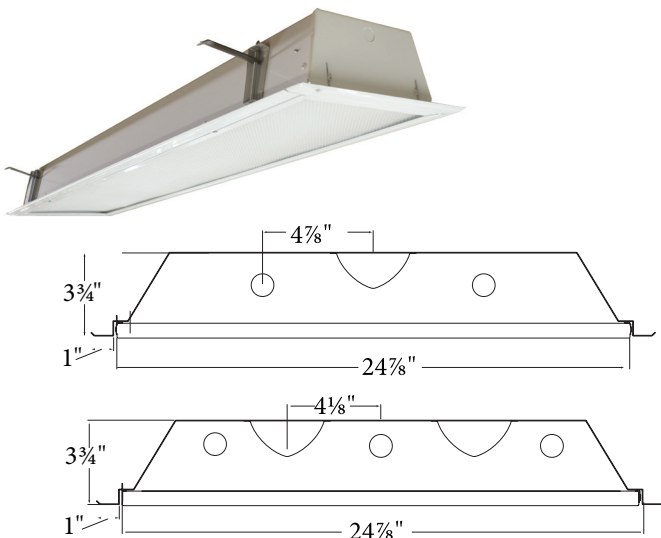
-  **FLANGE KIT**  
FK14 (1x4)  
FK22 (2x2)  
FK24 (2x4)

## TECHNICAL INFORMATION

Housing is constructed of structurally embossed, heavy gauge, cold rolled steel. Die-formed flat steel door with mitered corners for a clean appearance. Wire way covers snap in for easy attachment and removal. ETL listed. Suitable for damp locations. Ballasts are solid state electronic. All reflective surfaces are finished with a high reflectance, lighting fixture white polyester powder.

## EF SERIES

### Flanged Troffer



## DESIGN

The EF Series Flanged Troffer was designed for recessed drywall ceiling mounting. It features a shallow profile for restricted plenum spaces. It was designed for both durability and economy. The EF Series is ideal for a variety of applications such as offices, schools, or retail applications.

## ACCESSORIES



**6' 16/3 CORD W/ 15A NEMA PLUG**  
C1 (120V)  
C2 (277V)  
C4 (480V)



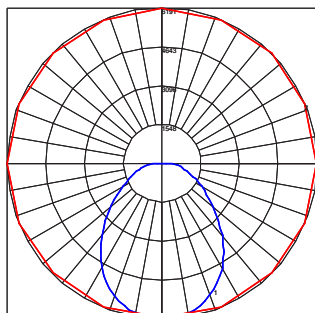
**T8 EMERGENCY BALLAST**  
EB5 (500 LUMEN)  
EB7 (700 LUMEN)  
EB14 (1400 LUMEN)  
EB30 (3000 LUMEN)



**MOTION SENSOR**  
WOC (120/277V)  
WOC1 (347/480V)

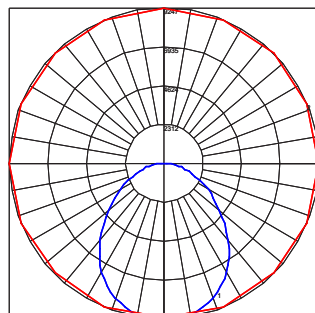
## PHOTOMETRICS

IES INDOOR REPORT  
PHOTOMETRIC FILENAME: THB632.IES  
POLAR GRAPH



Maximum Candela = 6191 Located At Horizontal Angle = 22.5, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

IES INDOOR REPORT  
PHOTOMETRIC FILENAME: THB654.IES  
POLAR GRAPH



Maximum Candela = 1047 Located At Horizontal Angle = 22.5, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

1.800.225.0727

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All specifications are subject to change without notice. Please refer to [www.techlightusa.com](http://www.techlightusa.com) for the most current information.

## ORDERING INFORMATION

Description	Part Number
1X4 2L 32W T8 120/277V	EF1232SWD (A)
2X2 4L 17W T8 120/277V	EF22417SWD (A)
2X2 2L 32W T8 U 120/277V	EF222U316SWD (A)
2X4 3L 28W T5 120/277V	EF23328T5SWD (A)
2X4 3L 32W T8 120/277V	EF2332SWD (A)
2X4 3L 54W T5HO 120/277V	EF2354SWD (A)
2X4 4L 28W T5 120/277V	EF2428T5SWD (A)
2X4 4L 32W T8 120/277V	EF2432SWD (A)
2X4 4L 54W T5HO 120/277V	EF2454SWD (A)

### Option Codes

#### (A) Options

- Blank - None
- 10RS - ≤10% THD, Rapid Start
- P - Program Start
- 20 - ≤20% THD
- IC - Insulation Contact Rated
- IO - Inboard/Outboard (2 Lamp-2 Lamp)
- IO2 - Inboard/Outboard (1 Lamp-3 Lamp)

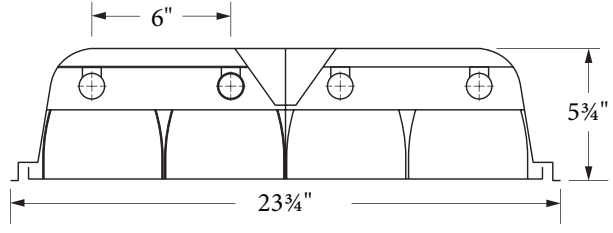
All part numbers shown here include a #12 Acrylic .100" lens.

## TECHNICAL INFORMATION

Housing is constructed of structurally embossed, heavy gauge, cold rolled steel. Die-formed flat steel door with mitered corners for a clean appearance. Wire way covers snap in for easy attachment and removal. ETL listed. Suitable for damp locations. Ballasts are solid state electronic. All reflective surfaces are finished with a high reflectance, lighting fixture white polyester powder.

## PT SERIES

### Parabolic Troffer



## DESIGN

The PT Series Parabolic Troffer was designed for recessed ceiling mounting. It features glare reducing cell louver technology. It was designed for both durability and economy. The PT Series is ideal for a variety of applications such as offices, schools, or retail applications.

## ACCESSORIES

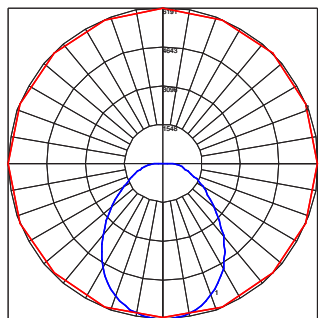
**6' 16/3 CORD W/ 15A NEMA PLUG**  
 C1 (120V)  
 C2 (277V)  
 C4 (480V)

**T8 EMERGENCY BALLAST**  
 EB5 (500 LUMEN)  
 EB7 (700 LUMEN)  
 EB14 (1400 LUMEN)  
 EB30 (3000 LUMEN)

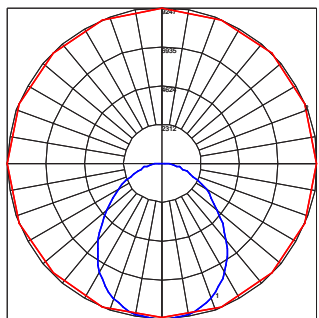
**MOTION SENSOR**  
 WOC (120/277V)  
 WOC1 (347/480V)

## PHOTOMETRICS

IES INDOOR REPORT  
 PHOTOMETRIC FILENAME : TH8632.IES  
 POLAR GRAPH



IES INDOOR REPORT  
 PHOTOMETRIC FILENAME : TH8654.IES  
 POLAR GRAPH



Maximum Candela = 6191 Located At Horizontal Angle = 22.5, Vertical Angle = 2.5  
 # 1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)  
 # 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

Maximum Candela = 1047 Located At Horizontal Angle = 22.5, Vertical Angle = 2.5  
 # 1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)  
 # 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

## ORDERING INFORMATION

Description	Part Number
1X4 8C 2L 32W T8 120/277V	PT1232B82D (A)
2X2 9C 3L 17W T8 120/277V	PT22317BB92D (A)
2X2 9C 2L 32W T8 U 120/277V	PT222U316B92D (A)
2X4 18C 3L 28W T5 120/277V	PT2328T5B182D (A)
2X4 18C 3L 32W T8 120/277V	PT2332B182D (A)
2X4 18C 3L 54W T5HO 120/277V	PT2354B182D (A)

**Option Codes**  
**(A) Options**  
 Blank - None  
 10RS - ≤10% THD, Rapid Start  
 P - Program Start  
 20 - ≤20% THD  
 IC - Insulation Contact Rated  
 IO - Inboard/Outboard (2 Lamp-2 Lamp)  
 IO2 - Inboard/Outboard (1 Lamp-3 Lamp)

All part numbers shown here include specular silver louvers.

## SHIELDS

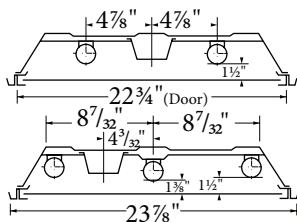
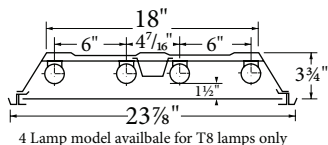
**FLANGE KIT**  
 FK14 (1x4)  
 FK22 (2x2)  
 FK24 (2x4)

## TECHNICAL INFORMATION

Housing is constructed of structurally embossed, heavy gauge, cold rolled steel. Die-formed flat steel door with mitered corners for a clean appearance. Nominal 3" deep louver for cutoff and glare control. Wire way covers snap in for easy attachment and removal. ETL listed. Suitable for damp locations. Ballasts are solid state electronic. All reflective surfaces are finished with a high reflectance, lighting fixture white polyester powder.

## CRT SERIES

### Clean Room Troffer



## DESIGN

The CRT Series Clean Room Troffer was designed for recessed ceiling mounting. Completely sealed housing prevents the passage of particulate through the fixture. The CRT Series is an economical solution for minimum requirement clean room environments..

## ACCESSORIES



6' 16/3 CORD W/ 15A  
NEMA PLUG  
C1 (120V)  
C2 (277V)  
C4 (480V)



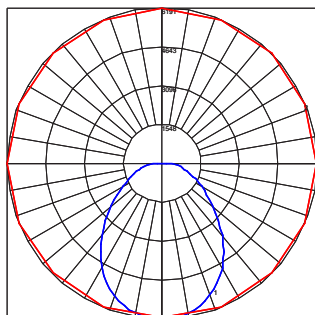
T8 EMERGENCY BALLAST  
EB5 (500 LUMEN)  
EB7 (700 LUMEN)  
EB14 (1400 LUMEN)  
EB30 (3000 LUMEN)



MOTION SENSOR  
WOC (120/277V)  
WOC1 (347/480V)

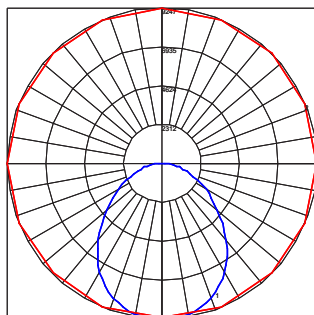
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POLAR GRAPH



Maximum Candela = 6191 Located At Horizontal Angle = 22.5, Vertical Angle = 2.5  
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# 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : THB654.IES  
POLAR GRAPH



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# 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

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## ORDERING INFORMATION

Description	Part Number
1X4 2L 32W T8 120/277V	CRT1232SWD (A)
2X2 4L 17W T8 120/277V	CRT22417SWD (A)
2X2 2L 32W T8 U 120/277V	CRT222U316SWD (A)
2X4 3L 28W T5 120/277V	CRT23328T5SWD (A)
2X4 3L 32W T8 120/277V	CRT2332SWD (A)
2X4 3L 54W T5HO 120/277V	CRT2354SWD (A)
2X4 4L 28W T5 120/277V	CRT2428T5SWD (A)
2X4 4L 32W T8 120/277V	CRT2432SWD (A)
2X4 4L 54W T5HO 120/277V	CRT2454SWD (A)

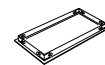
### Option Codes

#### (A) Options

- Blank - None
- 10RS - ≤10% THD, Rapid Start
- P - Program Start
- 20 - ≤20% THD
- IC - Insulation Contact Rated
- IO - Inboard/Outboard (2 Lamp-2 Lamp)
- IO2 - Inboard/Outboard (1 Lamp-3 Lamp)

All part numbers shown here include a #12 Acrylic .100" lens.

## SHIELDS



FLANGE KIT  
FK14 (1x4)  
FK22 (2x2)  
FK24 (2x4)

## TECHNICAL INFORMATION

Housing is constructed of structurally embossed, heavy gauge, cold rolled steel. Die-formed flat steel door with mitered corners for a clean appearance. Fixture comes with a triple neoprene gasket and inverted lens for ease of maintenance. Wire way covers snap in for easy attachment and removal. ETL listed. Suitable for damp locations. Ballasts are solid state electronic. All reflective surfaces are finished with a high reflectance, lighting fixture white polyester powder.