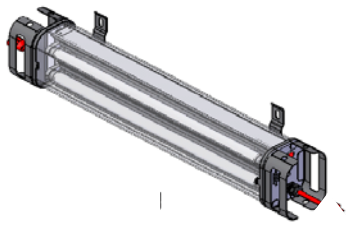
PRECISION P2 PARAGON
EFFICIENCY, ECONOMY, SUSTAINABILITY.
www.p-2.com
(714) 386-5550 CA
(715) 381-2971 WI

DDF - Heavy Duty Dry Dock Fixture

Rugged energy efficient fixture addresses relighting applications for dry docks, and wet locations.

- Dry Docks...
- Bulk Storage Freezers...
- Shipyards...
- Outdoor Canopies...
- Wet Locations...
- Caustic Environments...

DDF - Energy Efficient Dry Dock Fixture



Construction

- Stainless Steel .125" end caps and surface mounting brackets resist corrosion.
- End Cap guards protect housing edges and wiring connections.
- UV stabilized single piece .125" polycarbonate obround housing.
- IP65 rating makes this fixture ideal for hose down and wet location areas.

Application

- Excellent for Dry Dock applications.
- Extremely insect resistant.
- Available in 1 or 2 Lamp cross sections for T8
- Anywhere an energy efficient wet location fixture is desired.

Why P2? It's Simple, Our Experience.

- We've been focused on nothing but energy efficient re-lighting projects since 1992.
- Need advice on a difficult application? Give our trained Service Hub a call.

DDF - 1x4 - 2L - T8 - UL1 - MP - IS - UE - EA - TWPQC

DDF	1x4	2L	T8	UL1	MP	IS	UE	EA	TWPQC	
Model	Fixt Size	Lamp Quantity	Lamp Type	Voltage	Ballast Factor	Ballast Starting	Ballast Grade	Reflector Options	Cord Plug	Other

Fixture Series
DDF = Heavy Duty Dry Dock Fixture
CDF = Commercial Dry Dock Fixture (1)

Fixture Size
1x2 = 1x2 Nominal
1x4 = 1x4 Nominal

Lamp Qty
xL = x indicates number of lamps

Lamp Type
T8 = Linear T8 Lamps

Voltage (2)
UL1 = Universal 120-277
UH1 = Universal 347-480

Ballast Factor
LP = Low Power (.75 - .78)
MP = Mid Power (.85 - .88)
MN = Nuetral Power (.97 - 1.04)
HP = High Power (1.15 - 1.20)

Ballast Starting Method
PS = Programmed Start
IS = Instant Start

Ballast Grade
ST = Standard Grade
UE = Ultra Efficient T8

Reflector Options
WA = White Aluminum Reflector 90-91%
EA = Enhanced Aluminum Specular Reflector 93-95%

Cord & Plug
C8 = 8' Cord, No Plug
C8/L715 = 8' Cord & Plug (L7-15P)
PQC15 = 15' Cord/Quick Connect
TW = Tandem Wired (3)

Other
SB = Specific Ballast Type or Manufacturer (4)
EB = Emergency Battery Backup (4)
SF = Single Fuse 120-277

Numeric Footnotes
(1) Commercial version utilizes flat end caps and smaller mounting brackets.
(2) Numeral indicates number ballasts per fixture.
(3) Consult factory for tandem wiring limitations and plug/receptacle options.
(4) If SB or EB is requested, purchaser must identify the ballast manufacturer and the catalog number.

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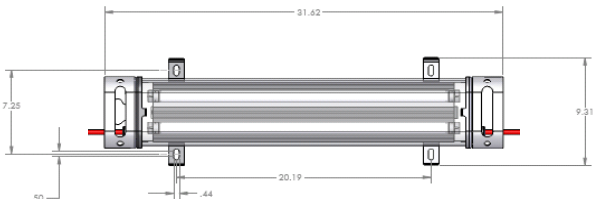
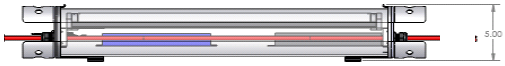
DDF Dimensions





Existing Systems

Existing Lamp / Ballast System	Lamp Quantity & Type		Mean Lumens Per Lamp	Mean Lumens Per Fixture	Ballast Factor	Net Lumens Per Fixture	Input Watts	Net Lumens Per Watt
2L40-T12 Mag	2	F40/T12/WM	2,280	4,560	0.88	4,013	72	56
3L40-T12 Mag	3	F40/T12/WM	2,280	6,840	0.88	6,019	115	52
1L96-T12 Mag	1	F96/T12/ES	4,750	4,750	0.88	4,180	76	55
1L96-T12HO Mag	1	F96/T12HO/ES	6,950	6,950	0.95	6,603	125	53

Re-Lighting Options

Proposed Lamp / Ballast System	Lamp Quantity & Type		Mean Lumens Per Lamp	Mean Lumens Per Fixture	Ballast Factor	Net Lumens Per Fixture	Input Watts	Net Lumens Per Watt
2L17-T8-LP Elec	2	F17T8/841	1,300	2,600	0.80	2,080	27	77
2L17-T8-MP Elec	2	F17T8/841	1,300	2,600	0.90	2,340	31	75
2L17-T8-HP Elec	2	F17T8/841	1,300	2,600	1.23	3,198	41	78
2L32-T8-LP Elec	2	F32T8/741	2,660	5,320	0.77	4,096	48	85
2L32-T8-MP Elec	2	F32T8/841	2,800	5,600	0.87	4,872	53	92
2L32T8-HP Elec	2	F32T8/841	2,800	5,600	1.15	6,440	73	88

General Notes:

- Lamp/ballast system values shown are a general reference intended to supply a quick comparison of several common lamp/ballast systems, the associated energy consumption, and net lumen output.
- Values shown are based on normal operating temperatures and at 277 volts.
- There are many operating variables that affect system output, in addition to rating variances from brand to brand.
- All T8 electronic ballast values shown are based on Ultra Efficient (aka 3rd Generation) T8 ballasts.
- All T5 and T8 lamp values shown are for basic grade lamps. Extended life and higher lumen lamps types are available.
- In addition to those shown there are a wide variety of systems to choose from, each with distinct features and cost points.
- Please consult the lamp/ballast manufacturer's catalogs for the detailed information required to model your system.