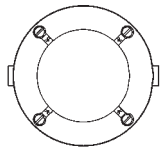


SUBMERSIBLE & DRY LIGHTFIXTURE

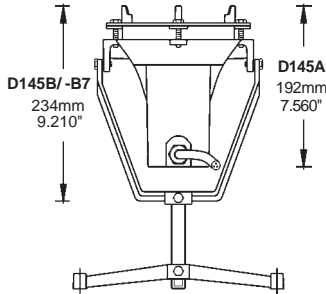
PEM D145

Lightfixtures for PAR 38/BR 30
Lamps: 12V, 24V, 120V & 240V

D145A + B1



182mm
7.170"

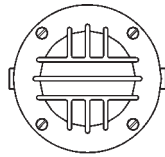


D145A
192mm
7.560"

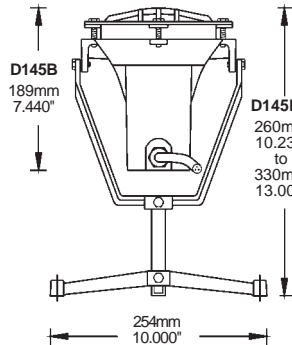
D145B/-B7
234mm
9.210"

APPROVALS
Canada - CSA, 120V / 24V & 12V,
All in A or B Option, excluding - 2
USA - UL, 120V / 24V & 12V
All in 'B' Option, excluding - 2 CE, 12V

D145B + B1



182mm
7.170"



D145B
189mm
7.440"

D145B/-B1
260mm
10.230"
to
330mm
13.000"

254mm
10.000"



D145A + B1

D145B + B1

DESCRIPTION:

PEM D145 Cast Bronze Lightfixtures are for Dry, Submersed or Partial Immersed Installation.

This lightfixture is especially designed for those applications where the fixture is submerged only intermittently or is used under falling or splashing water inside or outside of a pool. This lightfixture is designed for BR30 or PAR38 Sealed Beam Lamps with heavy welded on flat glass cover configurations for outdoor use. The lightfixture is sealed at the neck of the lamp with a high temperature silicone rubber 'O' ring compressing the lamp into the fixture body by the facering and facering bolts. (See NOTE below). The lightfixture is designed for single cable entry for direct connection to power supply or dual cable entries for use in a fixture chain where permissible. Maximum immersion of lightfixture: 0.6m / 24" of water depth over lens. For dry installation the fixture must be clear of combustible materials.

LAMP: OPTIONAL & ADDITIONAL - Normally not supplied with fixture. **BR30 or PAR38 Lamps** with E26 / E27 medium screw bases with heavy welded on flat glass cover configuration. Most 240V, 120V & 24V Lamps have max. 2000 hours or more average life or as specified by Lamp manufacturer at rated Lamp voltage. 12V Lamps have a max. 1000 hours average life or as specified by Lamp manufacturer at rated Lamp voltage. **MAXIMUM** rating is the maximum useable wattage at voltage rating for a particular fixture. Certain types of very thin wall lamps are not suitable for this application.

LAMP WATTAGE RATINGS:

- MAXIMUM 250W AT 120V FOR SUBMERGED USE FOR UL / CSA FIXTURES.
- MAXIMUM 150W AT 120V FOR DRY USE FOR UL / CSA FIXTURES.
- MAXIMUM 150W AT 240V FOR SUBMERGED OR DRY USE.
- MAXIMUM 150W AT 24V FOR SUBMERGED OR DRY USE.
- MAXIMUM 100W AT 12V FOR SUBMERGED OR DRY USE.

CONSTRUCTION OF LIGHT FIXTURE:

Housing & Facering:

For use in fresh water:

Cast bronze (85/5/5/5 Copper Alloy).Stainless Steel fitted.

For use in sea (salt) water water (specify):

Special sea water cast bronze.Stainless Steel # 316 fitted . (Extra and additional)

ELECTRICAL CABLE: Approved for the purpose with integral epoxy encapsulated, compression type cable entry in factory assembled fixtures. For low voltage see pages 308 & 309 for cable size and length.

Lamp Holder: E26 / E27 - Ceramic medium screw with copper alloy screw shell and parts.

Lamp Seal: High temperature silicone rubber 'O' Ring around neck of lamp. The neck of the lamp must be smooth and not pitted.

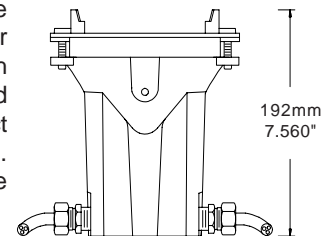
Mounting: Suitable for most standard & suitable PEM 'E' type mountings.

NOTE: A face ring bolt tightening torque of 45.6 Ncm / 64 oz inch is required to seal PAR38 Lamps. It is imperative that the facering bolts are tightened evenly cross wise by approx. 1/2 turn of each bolt (Bolt # 1, then #3, then #4, then #2, then #4, then # 1 etc.) in a clockwise direction to avoid lamp breakage. A proper ratchet torque wrench is required to avoid lamp breakage.

DO NOT USE THIN GLASS BLOW MOLDED LAMPS.

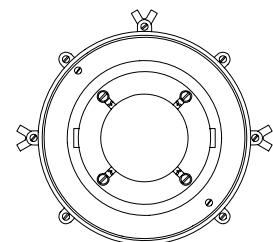
D145A + 2A

182mm
7.170"



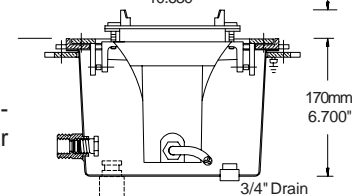
192mm
7.560"

D145A + B46-1



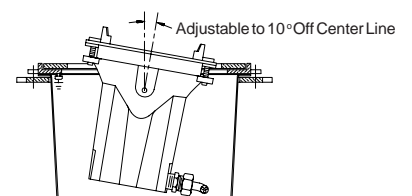
270mm
10.630"

36mm
1.420"



170mm
6.700"

3/4" Drain



Adjustable to 10° Off Center Line

PEM D 145

2006-10

SERIAL	PEM	CABLE	W.
305 0000	Cat.		
ONLY FOR HARD GLASS COVER PAR 38 LAMPS AS INDICATED (not included)			
FOR ALL OTHER PAR 38 USE PEM E150-1			
Select cable size to suit lamp(s) wattage (Amperage)			
A' TYPE FIXTURES WITH ROCKGUARD CORDSEAL , NO STAND & NO CABLE			
305-0302	D145A-1-02	Max. 240V, 150W with 3 x 1.5mm2 Cable Cordseal	No cable 2.9
305-0303	D145A-1-03	Max. 12 / 24V, 150W with 2 x 2.5mm2 Cable Cordseal	No Cable 2.9
305-0304	D145A-1-04	Max. 12 / 24V, 150W with 2 x 4mm2 Cable Cordseal	No Cable 3.1
305-0305	D145A-1-05	Max. 12 / 24V, 150W with 2 x 6mm2 Cable Cordseal	No Cable 3.2
A TYPE FIXTURES 240V NO STAND WITH CABLE			
305-0312	D145A-2-12	Max.240V, 150w with cable	2.7m x 3 x 1.5mm2 3.3
305-0313	D145A-2-13	Max.240V, 150w with cable	5.0m x 3 x 1.5mm2 3.8
305-0314	D145A-2-14	Max.240V, 150w with cable	10.0m x 3 x 1.5mm2 4.8
A TYPE, 12V-24V FIXTURES NO STAND WITH CABLE			
305-0322	D145A-2-22	Max. 12 / 24V, 150W with cable	2.7m x 2 X 2.5mm2 3.3
305-0323	D145A-2-23	Max. 12 / 24V, 150W with cable	5.0m x 2 x 4mm2 4.1
306-0324	D145A-2-24	Max. 12 / 24V, 150W with cable	10m x 2 x 6mm2 6.2
B TYPE FIXTURES, NO ROCKGUARD WITH CORDSEAL , NO STAND & NO CABLE			
305-0402	D145B-1-02	Max. 240V, 150W with 3 x 1.5mm2 Cable Cordseal	No cable 3.0
305-0406	D145B-1-06	Max. 12 / 24V, 150W with 2 x 2.5mm2 Cable Cordseal	No Cable 3.0
305-0407	D145B-1-07	Max. 12 / 24V, 150W with 2 x 4mm2 Cable Cordseal	No Cable 3.1
305-0408	D145B-1-08	Max. 12 / 24V, 150W with 2 x 6mm2 Cable Cordseal	No Cable 3.4
305-0435	D145A-2-35	CSA-Max.120V, max. 250W wet , 150W dry, with cable	2.7m x 16/3 AWG 3.3
305-0445	D145A-2-40	CSA-Max.120V, max. 250W wet , 150W dry, with cable	2.7m x 16/3AWG 3.5
B TYPE , FIXTURES 240V NO STAND WITH CABLE			
305-0415	D145B-2-15	Max.240V, 150w with cable	2.7m x 3 x 1.5mm2 3.5
305-0416	D145B-2-16	Max.240V, 150w with cable	5.0m x 3 x 1.5mm2 4.5
305-0417	D145B-2-17	Max.240V, 150w with cable	10.0m x 3 x 1.5mm2 5.5
B TYPE FIXTURES 12V-24V NO STAND WITH CABLE			
305-0426	D145B-2-26	Max. 12 / 24V, 150W with cable	2.7m x 2 X 2.5mm2 3.5
305-0427	D145B-2-27	Max. 12 / 24V, 150W with cable	5.0m x 2 x 4mm2 4.6
305-0429	D145B-2-29	Max. 12 / 24V, 150W with cable	10m x 2 x 6mm2 6.2
305-0433	D145B-2-33	UL-Max.120V, max. 250W wet , 150W dry, with cable	2.7m x 16/AWG3 3.5
ADD ON TO STANDARD FIXTURES			
350-0003	+/-07	Thermal Cut Off for 120V / 240V only	Factory wired only 0.1
350-0011	+/-2A	2. Cable entry, 240V, 3 x 1.5m2 cable	Factory wired only 0.1
350-0013	+/-2B	2. Cable entry, 12V / 24V , 2 x 4.0mm2 & 2 x 2.5mm2	Factory wired only 0.1
350-0023	+/-2C	2. Cable entry, 12V / 24V , 2 x 6.0mm2 & 2 x 2.5mm2	Factory wired only 0.2
350-0033	+/-2D	2. Cable entry, 12V / 24V , 2 x 6.0mm2 & 2 x 4.0mm2	Factory wired only 0.3
350-0109	+/-B1	Tripod Stand, 40cm WD	1.4
350-0130	+/-B4	Ring Stand, 60cm WD	2.8
350-4111	+/-B46-1	Stainless Steel Niche	6.5
350-4031	+/-B50A	Walk Over Stainless Steel	8.2
350-4330	+/-58-03	Tile Mask for Niche	2.3
350-2310	+/-B56-1	Slab Hanger	3.2
350-2320	+/-B56-1A	Slab Hanger with Locks	3.5
350-2410	+/-B57-1	Waterfall Slab Hanger	2.8
350-2420	+/-B57-1A	Waterfall Slab Hanger with Locks	3.2
350-0733	+/-B23-6	Bracket for 6 Lights on 3" Pipe	1.0
350-0734	+/-B23-7	Bracket for 6 Lights on 4" Pipe	1.6
350-0742	+/-B23-2-1	16mm x 100mm Mounting Rod For B23	0.3
350-0320	+/-B30-0	B 30 Niche, Side Conduit, Brass fitted	Requires extra cable length 3.7
350-0321	+/-B30-1	B 30 Niche, Side Conduit, St.St. fitted	Requires extra cable length 3.7
350-0324	+/-B30-4	B 30 Niche, Bottom Conduit, Brass fitted	Requires extra cable length 3.7
350-0325	+/-B30-5	B 30 Niche, Bottom Conduit, St.St. fitted	Requires extra cable length 3.7
385-3330	T301	Transformer 240V,50Hzx12V/24V,300VA	CE / IP23 2.2



D145A



D145B



D145A+B1



D145B+B4



D145 + B30



D145 +B46 Vertical



D145 +B46 Full Tilt