

PDNR - Gym Hi-Bay

Re-lighting a multi-purpose Gymnasium? The PDNR provides an ideal solution for K-12 Gyms.

- The heavy duty aluminum body and wire guard resist damage from basketball and volleyball impacts.
- Instant Re-strike for reduced hours of operation.
- Order with the GTS option for instant Hi-Lo Controls.
- Multi-lamp configuration allows for multi-level lighting suitable for various uses from assemblies, to multi-media, intramural sports, interscholastic sports and theatrical uses.
- Linear light source makes it much less likely to lose sight of balls passing over head compared to point source HID.

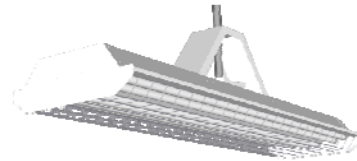
P2's Rapid Turn Around Times...

- Your project can't wait 6-8 weeks. We'll deliver, configured to order, fast.

Our Experience

- We understand that when you are re-lighting a campus, the Gym may be just one of 30 buildings, but it is very high profile and presents unique application challenges.
- We designed the PDNR and several Gym focused luminaires to provide choices tailored to this high profile application.

PDNR - Gymnasium Hi Bay



Application

- Multi-purpose Gymnasium Hi-bay applications.
- Can be factory equipped with low voltage power pack controls.
- Available in 4 or 6-Lamp T8 or T5HO.
- WA or MM reflector ideal for reduced glare.

PDNR - 2x4 - 6L - T5HO - UL2 - MN - PS - ST - EA - WG - CW8 - GTS - PB/RIB

PDNR	2x4	6L	T5HO	UL2	MN	PS	ST	EA	WG	CW8	GTS	PB/RIB
Model	Fixt Size	Lamp Qty	Lamp Type	Voltage	Ballast Factor	Ballast Starting	Ballast Grade	Reflector Material	Wire Guard	Cord Plug	Controls	Other

Fixture Model

PDNR

Fixture Size

2x4 = 2x4 Nominal

Lamp Qty

xL = x Indicates quantity of lamps

Lamp Type

T5HO = Linear T5HO Lamps
T8 = Linear T8 Lamps

Voltage (1)

UHx = Universal 347-480
ULx = Universal 120-277

Ballast Factor (2)

MN = Neutral Power (.97 - 1.04)
HP = High Power (1.15 - 1.20)

Ballast Starting

IS = Instant Start
ISD = Instant Start Step Dimming
PS = Programmed Start
PSD = Program Start Step Dimming
PSH = Program Start Hi-Lo

Ballast Grade

ST = Standard Grade
UE = Ultra Efficient T8

Reflector Material

EA = Enhanced Aluminum 93-94%
MM = Micro Matte 91-93%
WA = White Aluminum Reflector 90-91%
SA = Spec Grade Aluminum 95%

Wireguard

WG = 11g Zinc Wireguard

Cord & Plug

C8 = 8' Cord, No Plug
C8/L715 = 8' Cord & Plug (L7-15P)
PQC15 = 15' Cord/Quick Connect
CW8 = 8' White Cord, No Plug

Controls (3)

LVx = Low Voltage Power Pack Relay
GTS = Hi-Lo Control Single Circuit Toggle Switch

Other

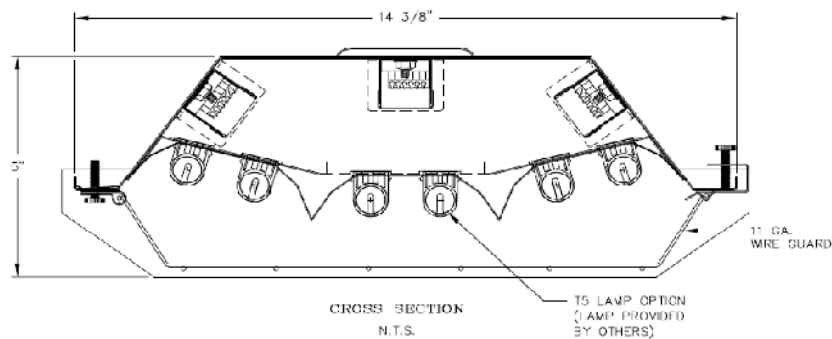
LF = Factory Lamps (Lamp spec elsewhere)
PB/RIB = Pendant Box and A-Frame Bracket

- (1) Numeral indicates number ballasts per fixture.
(2) Ballast factors outside ranges shown to be called out numerically.
(3) Numeral indicates number of lamps controlled.

PDNR - Gym Hi-Bay

Fixture Construction

- Heavy duty .032 white aluminum body.
- 11 Gauge Wire Guard
- Fully ventilated body and endplates help reduce heat in ballast compartment for longer life.
- Environmentally friendly and labor saving bulk project packaging.
- Dedicated 2-point hanging brackets and V-hangers included.
- Listed to UL 1598 standards.
- Made in the USA. Hudson WI, Gainesville FL, Orange County CA.



Existing Hi-Bay System	Lamp Qty & Type	Initial Lamp Lumens	Lumen Maintenance	EOL(1) Lumens All Lamps	Total Fixture Lumens	Ballast Factor	Fixture Efficiency	EOL(1) Lumens Per Fixt	S/P (2) Ratio	Net (3) EOL Lumens	Fixt Input Watts
MH320PS	1 PS MH320	31,700	62%	19,654	19,654	1.00	0.75	14,741	1.49	20,119	368
MH400	1 Std MH400	38,000	58%	22,040	22,040	1.00	0.75	16,530	1.49	22,561	458
HPS400	1 Std HPS400	50,000	70%	35,000	35,000	1.00	0.75	26,250	0.62	18,080	464

Proposed Hi-Bay System	Lamp Qty & Type	Initial Lamp Lumens	Lumen Maintenance	EOL(1) Lumens All Lamps	Total Fixture Lumens	Ballast Factor	Fixture Efficiency	EOL(1) Lumens Per Fixt	S/P (2) Ratio	Net (3) EOL Lumens	Fixt Input Watts
6L-T8 Plus	6 F32T8/841	2,950	90%	2,655	15,930	1.18	0.90	16,918	1.62	24,647	218
4L-T5HO	4 FP54T5HO	5,000	93%	4,650	18,600	1.00	0.92	17,112	1.62	24,930	234
6L-T5HO	6 FP54T5HO	5,000	93%	4,650	27,900	1.00	0.92	25,668	1.62	37,395	351

(1) EOL = End of Life (2) S/P Ratio = Scotopic to Photopic Lumens (3) Net EOL Lumens = EOL Lumens Per Fixture x (S/P).78 [.78 exponent]

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 (25c T8 and 35c T5) and at 277 volts.
- Fixture efficiency percentages are generally representative of each system type, actual values will vary.
- 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.