

Industrial Emergency

Rhyno Series
Polycarbonate NEMA Unit
(200W-450W)

Specifier's Reference

Project

Type

Model No.

Comments

codes and standards

- UL listed to Standard 924
- UL wet location listed
- IBC, BOCA, and OSHA illumination standard
- NFPA 101 (Life Safety Code)
- NFPA 70 (National Electric Code)
- NSF Standard 2 "Splash Zone"
- NEMA 250 (NEMA 4X classification)
- IEC 529 (60529) IP66

construction

- Constructed of impact resistant Lexan® with corrosion resistant hardware.
- A one piece, molded gasket, and unexposed metallic hardware prolong product life in highly corrosive areas.
- A hinged, removable cover allows for hands-free wiring.

installation

- The Rhyno is supplied standard with a wall mount bracket.
- A universal mounting kit for column, pole, or I-beam mounting is available as an accessory item.

electronics

- 120/277 VAC dual voltage input with surge protection is standard on all models.
- Self-powered models feature the Intelli-Charge circuit where the charging system is microprocessor driven with software embedded diagnostic routine and temperature compensation.
- Self-powered models include brownout detection, AC lockout, low voltage disconnect, AC power indicator, charge status indicator, audible user-interface controls, visual LED system fault indicator, and tactile push-to-test switch.
- Additional equipment safety features include reverse battery polarity detection and protection, and reverse utility power detection and protection.
- All self-powered models include an on board IR receiver for use with the optional hand held remote (ICIR).
- (optional self-testing electronics) The diagnostic/charging platform with optional self-testing mode

automatically runs a one-minute self-test every 30 days and a 30 minute test on the sixth and twelfth month in accordance with NFPA 101.

- A one minute or 90 minute test may be initiated via the push to test switch on the unit or by activating the appropriate test command on the optional IR test device.
- Standard wet location listed: 32°F (0°C) to 104°F (40°C).
- 'C' - cold ambient, wet location listed: -40°F (-40°C) to 104°F (40°C).
- 'H' - high ambient, wet location listed: 32°F (0°C) to 131°F (55°C).
- 'E' - extreme ambient, wet location listed: -40°F (-40°C) to 131°F (55°C).
- Power Consumption
12 V units: (120 VAC) 0.560 A, (277 VAC) 0.236 A.
12 V,'C': (120 VAC) 0.984 A, (277 VAC) 0.422 A.
12 V,'H': (120 VAC) 0.463 A, (277 VAC) 0.192 A.
12 V,'E': (120 VAC) 0.992 A, (277 VAC) 0.443 A.
24 V units: (120 VAC) 0.697 A, (277 VAC) 0.304 A.
24 V,'C': (120 VAC) 1.343 A, (277 VAC) 0.594 A.
24 V,'H': (120 VAC) 0.741 A, (277 VAC) 0.312 A.
24 V,'E': (120 VAC) 1.256 A, (277 VAC) 0.548 A.

lamps

- Illumination is accomplished with up to three lamp heads internally mounted on the bottom of the unit for optimum path of egress illumination.
- Lamps are held in a molded swivel assembly and are fully adjustable.

battery

- Maintenance free sealed lead calcium and pure lead batteries available.
- Provides a minimum of 90 minutes of emergency power at the lowest rated temperature of the model selected without de-rating the fixture.

warranty

- Five full year warranty on electronics and unit (excluding lamps).

Green Product Choice: RN220PF3IC

RN				IC			
Series	Battery Voltage	Capacity	Environment***	Lamp Designator	Lamp Head Qty	Model Designator	Options
RN – Rhyno Series Industrial Emergency Lighting Fixture	2 – 12 V DC 4 – 24 V DC ²	20 – 200 W 25 – 250 W 30 – 300 W 40 – 400 W 45 – 450 W	See Capacity & Environment for Limited Availability*** Blank – Wet Location Listed (0°C to 40°C) C – Cold Ambient Conditions, Wet Location Listed (-40°C to 40°C) H – High Ambient Conditions, Wet Location Listed (0°C to 55°C) E – Extreme Ambient Conditions, Wet Location Listed (-40°C to 55°C)	12 V, PAR 36 Sealed Beam Tungsten PE – 12 W PF – 18 W PG – 25 W PH – 30 W 12 V, PAR 36 Sealed Beam Halogen PK – 8 W PL – 12 W PM – 37 W PN – 50 W	24 V, Sealed Beam Tungsten PO – 50 W	0 – No Heads 2 – Two Heads 3 – Three Heads	IC – Intelli-Charge Diagnostics A – Ammeter ACF1 – 120 V AC Input Fuse ACF2 – 277 V AC Input Fuse ACP1 – 120 V AC Disconnect Switch ACP2 – 277 V AC Disconnect Switch BDS – Battery Disconnect Switch EX – Special Input Transformer ¹ (specify voltage & frequency) T – Self-Testing Diagnostics (non-audible) TA – Audible Self-Testing Diagnostics TD – Time Delay V – Voltmeter

Accessories (Order Separately)

ICIR – Intelli-Charge Infra-Red Remote

NUMK – Universal Mounting Kit (column, pole, I-beam)

Footnotes

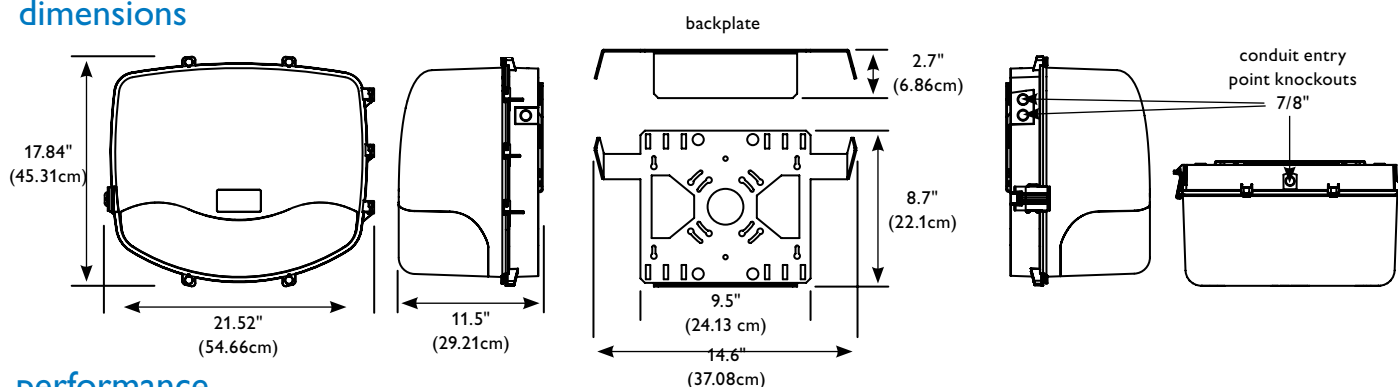
¹ Certain option combinations may impact UL listing, consult factory.² 24 V systems only available in 300 and 450 W configurations.

*****CAPACITY & ENVIRONMENT SELECTION**
C – 12 V, 300 W; 24 V, 300 W
H – 12 V, 300 W; 24 V, 300 W
E – 12 V, 300 W; 24 V, 300 W
All other configurations are standard wet location listed from 0°C to 40°C.

options

- A – The ammeter option includes an analog meter electrically connected to the charging circuit for visual reference and indication of the current level being delivered to the battery.
- ACF1 – The AC fuse option includes an in-line fuse on the primary winding of the input transformer for additional electronic protection against utility surges or spikes limited to 120VAC circuits.
- ACF2 – The AC fuse option includes an in-line fuse on the primary winding of the input transformer for additional electronic protection against utility surges or spikes limited to 277VAC circuits.
- ACP1 – The AC power switch option includes a toggle switch electrically connected to the primary of the input transformer limited to 120VAC circuits. This option allows for opening the utility feed to the equipment for servicing or maintenance.
- ACP2 – The AC power switch option includes a toggle switch electrically connected to the primary of the input transformer limited to 277VAC circuits. This option allows for opening the utility feed to the equipment for servicing or maintenance.
- BDS – The battery disconnect switch allows for the electrical switching between the battery and the connected load (lamp heads) whether they be directly mounted to the equipment or installed as remote lamp heads. The switch will be located internally to the equipment and is not made accessible other than to those who perform maintenance on the equipment.
- EX – The special input transformer option allows for input voltage and frequencies beyond the standard 120/277VAC, 60 Hz input.
- T – The self-testing option enables a periodic self-test of the equipment where a test routine is established to perform a one minute test once a month with a 30 minute test performed on the sixth and twelfth month in accordance with NFPA 101. Equipment readiness faults are indicated with a visual LED display.
- TA – The audible self-testing option enables a periodic self-test of the equipment where a test routine is established to perform a one minute test once a month with a 30 minute test performed on the sixth and twelfth month in accordance with NFPA 101. Equipment readiness faults are indicated with a visual LED display and an audible alarm.
- TD – The time delay circuit causes the emergency lighting equipment to remain under battery power for a period of 15 minutes after the utility power has been restored.
- V – The voltmeter option includes an analog meter electrically connected between the battery and lamp load for visual reference and indication of the battery terminal voltage when the equipment is operating in the emergency mode.

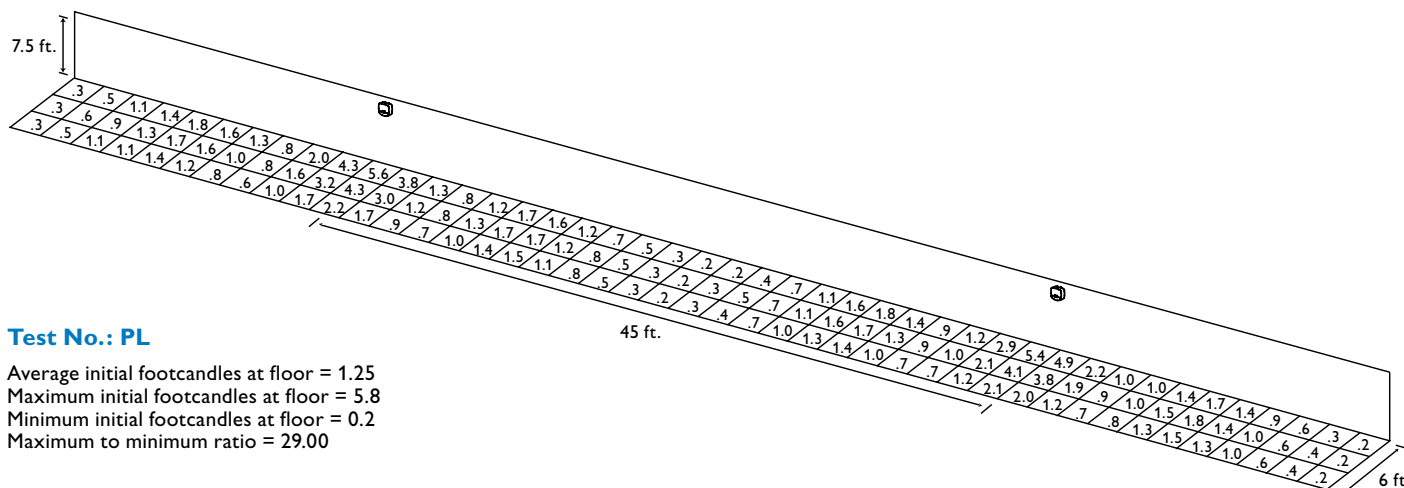
dimensions



performance

Meets Life Safety Code illumination standard; average of 1.0 FC, no point less than 0.1 FC, max to min ratio of 40:1. Assumes open space with no obstructions, mounting height: 7.5' and reflectances: 80/50/20. Analysis based on independently tested photometrics.

Wall Mounted 7.5' AFF, 12 V 12 W Halogen Lamp Heads Represented
1 FC Average



Test No.: PL

Average initial footcandles at floor = 1.25
Maximum initial footcandles at floor = 5.8
Minimum initial footcandles at floor = 0.2
Maximum to minimum ratio = 29.00



© 2013 Koninklijke Philips Electronics N.V. All rights reserved.
Specifications are subject to change without notice.

CH-40100 03/13

Philips Lighting Company
200 Franklin Square Drive
Somerset, NJ 08873
Phone: 855-486-2216

www.philips.com/luminaires

Philips Lighting Company
281 Hillmount Road
Markham ON, Canada L6C 2S3
Phone: 800-668-9008

www.philips.com/luminaires