

SEVERE ENVIRONMENT LINEAR LED

DESCRIPTION

The new PWL Series Severe Environment Linear LED Luminaires are engineered for applications requiring medium and low power illumination in a slim profile form factor. Engineered with added mechanical strength, the main structure is manufactured with an extruded Polycarbonate with practically indestructible properties. The result is a high performance LED luminaire with an IP69K rating able to withstand high pressures of 100 Bar/1450 psi and high temp wash of 80°C/176°F.

The PWL housing is capable of withstanding direct external impacts of 20 joules with a rating up to IK10 as per EN62262. This is equivalent to an impact of a 5kg/11.0lb mass dropped from 400mm/16" above the housing surface.

The Polycarbonate components are treated to protect against material degradation under UV content exposure, and allow for corrosion/oxidization mitigation. Additionally the PWL is compatible with many chemicals such as mineral acids, many organic acids, oxidizing and reducing agents, neutral and acid salt solutions, many greases, waxes and oils, saturated, aliphatic and cycloaliphatic hydrocarbons and alcohols. The PWL rigid enclosure inherently provides superior protection, is NSF rated and is suitable in environments where very high levels of humidity or water spray may be present.

Enclosure sealing is achieved with custom molded synthetic polymer gaskets manufactured of silicone with Viton™, Santoprene™ or EPDM seals as an option. All available seals provides against the infiltration of airborne contaminants, protect against particulate intrusion and feature very low maintenance cycle requirements. Stainless type SS304/316 hardware ensures long term luminaire reliability. The wide 130° distribution pattern provides comprehensive coverage with exceptional uniformity.

The PWL Series design effectively mitigates the concerns associated with utilizing LED luminaires in harsh, severe and demanding applications and offers a compelling reasons to move away from traditional gaseous and discharge type legacy fixtures which have proven inadequate in hostile environments.

Long term longevity is achieved via the use of superior materials, electronics and exceptional engineering. Efficacies of >140lm are possible by reducing light emission losses from thermal, electrical and optical systems.



APPLICATIONS

- Natatorium & Aquatic Centers
- Transportation/Rail/Bus Service Bays
- Wash Down Areas
- Decontamination Sites
- Machining/Extruding Facilities
- Agriculture

PWL SERIES SPECIFICATIONS

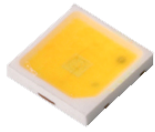
FIXTURE SERIES	POWER	LED TYPE	CCT	DISTRIBUTION	EXIT LUMEN RANGE	OPERATING VOLTAGE	IP RATING	DIMENSIONS
LR-PWL-012W-XX	*12W	EPI-SMD	4500K (2700-6500K avail)	130°	1560-1680lm	DC24V-AC90-277V AC180-508V	IP69k	DØ48 x L600mm DØ1.88 x 23.65"
LR-PWL-020W-XX	*20W	EPI-SMD	4500K (2700-6500K avail)	130°	2600-2800lm	DC24V-AC90-277V AC180-508V	IP69k	DØ48 x L600mm DØ1.88 x 23.65"
LR-PWL-024W-XX	24W	EPI-SMD	4500K (2700-6500K avail)	130°	3120-3360lm	DC24V-AC90-277V AC180-508V	IP69k	DØ48 x L1200mm DØ1.88 x 47.3"
LR-PWL-032W-XX	32W	EPI-SMD	4500K (2700-6500K avail)	130°	4160-4480lm	DC24V-AC90-277V AC180-508V	IP69k	DØ48 x L1200mm DØ1.88 x 47.3"
LR-PWL-035W-XX	35W	EPI-SMD	4500K (2700-6500K avail)	130°	4550-4900lm	DC24V-AC90-277V AC180-508V	IP69k	DØ70 x L1200mm DØ2.75 x 47.3"
LR-PWL-045W-XX	45W	EPI-SMD	4500K (2700-6500K avail)	130°	5850-6300lm	DC24V-AC90-277V AC180-508V	IP69k	DØ70 x L1200mm DØ2.75 x 47.3"
LR-PWL-050W-XX	50W	EPI-SMD	4500K (2700-6500K avail)	130°	6500-7000lm	DC24V-AC90-277V AC180-508V	IP69k	DØ100 x L1200mm DØ3.93 x 47.3"
LR-PWL-080W-XX	80W	EPI-SMD	4500K (2700-6500K avail)	130°	10400-11200lm	DC24V-AC90-277V AC180-508V	IP69k	DØ100 x L1500mm DØ3.93 x 59.0"

* Optional Power Configuration





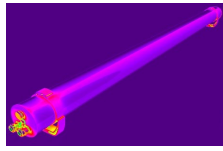
FEATURES



HIGH PERFORMANCE
757 LED ENGINES



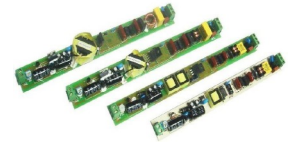
EXTRUDED
POLYCARBONATE



SUPERIOR THERMAL
PERFORMANCE



316 STAINLESS RETAINING
HARDWARE



HIGH EFFICIENCY
DRIVERS

PRODUCT IMAGES



ORDERING INFO:

LR-PLW-050--SO--50--L1--MWI--

ELECTRICAL SPECIFICATIONS

1. Power Input: AC100-277V
 2. AC180-528V (Option)
 3. Power Factor: ≥94
 4. THD: ≤18% @ full Load
 5. Surface/Suspension
 6. Ships with silicone seals
- Option of Viton™ or EPDM

POWER
*12W-012
*20W-020
24W-024
32W-032
35W-035
45W-045
50W-050
80W-080

EFFICACY
130lm/w-SO
140lm/w-HO

CCT
4100k-41
5000k-50
6000k-60
6500k-65

DISTRIBUTION
130° CLEAR-L1
130° SEMI-
OPAQUE-L2

OPERATING VOLTAGE
100-277VAC-Blank
180-528VAC-HV

PRESENCE SENSOR
Microwave DIP-MWD
(For All voltage options)

Microwave IR Program-MWI
Includes Wireless IR Remote
(For 100-277VAC voltage
Only)

DIMMING *
None - Blank
PWM-01
1-10V-02
VAR RES-03
DALI-04
LEDIM-05
TEDIM-06
DMX-07

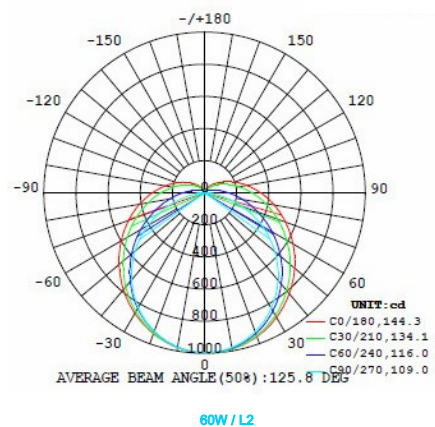
DIM Control: 0-5V, 0-10V, 1-10V, 0-20ma, 4-20ma, RS485, RS-232, PWM, RES, LEDIM, TEDIM, DMX512, DMX512/RDM, DALI, Custom
*LEDRAYS offers the following dimming options. (Please note not all DIM methods apply to a particular product)

* Optional Power Configuration

DIMENSIONS mm (± 1.1mm) / NET WEIGHT 3.5kg/7.7lbs (± 0.3kg/± 0.66lbs)

POWER	DIMENSIONS	WEIGHT
12W	DØ48 x L600mm DØ1.88 x 23.65"	0.90kg/1.98lb
20W	DØ48 x L600mm DØ1.88 x 23.65"	1.00kg/2.20lb
24W	DØ48 x L1200mm DØ1.88 x 47.3"	1.45g/3.20lb
32W	DØ48 x L1200mm DØ1.88 x 47.3"	1.55g/3.41lb
35W	DØ70 x L1200mm DØ2.75 x 47.3"	1.65g/3.63lb
45W	DØ70 x L1200mm DØ2.75 x 47.3"	1.85kg/4.07lb
50W	DØ100 x L1200mm DØ3.93 x 47.3"	2.10kg/4.62lb
80W	DØ100 x L1500mm DØ3.93 x 59.0"	2.5kg/5.50lb

PHOTOMETRIC DISTRIBUTION



The specifications in this brochure are representative and must not be interpreted as a guarantee of individual product performance and/or characteristics. LEDRAYS Inc. has a policy of continuous advancements & development specifications may change without notice. Please contact your agent for updates.

514 484-8462
888 LEDLABS
(888.533.5227)

info@ledrays.com
www.ledrays.com