PWAR CIRCULAR LIGHT ENGINE MODULE

PWAR/PWARD



FEATURES / BENEFITS

- ▲ Utilizes 9 premium flux LUXEON® Rebel™ LEDs, 100+ lumens for cool white, 100+ lumens for neutral white and 50+ lumens for warm white
- ▲ Allows for custom heatsink or fixture design
- ▲ ETL recognized to UL standards (pending)
- ▲ Available in choice of colours & colour temperatures
- ▲ Quick connect terminal blocks for easy installation
- ▲ >70% lumen maintenance @ 50,000 hours at max operating temperature. Better at lower operating temps!

APPLICATION

- ▲ Spot lighting
- ▲ Accent lighting
- ▲ General illumination
- ▲ Interior use only
- ▲ Architectural lighting
- ▲ Machine vision
- ▲ Display cases

All applications require additional heatsink. For factory fitted heatsink see AR111 / AR111-LV datasheet.

MATERIALS / FINISH

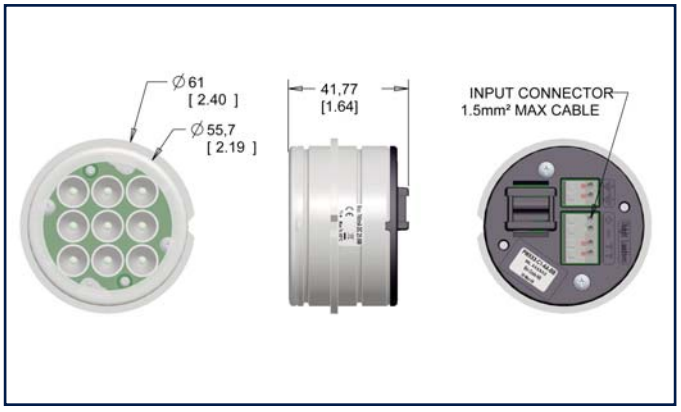
- ▲ **Casing** - ADC10 Aluminium Alloy
- ▲ **Finish** - Anodised Satin Silver
- ▲ **Connection** - Cage Clamp Connectors
- ▲ **Optics** - Dialight-Lumidrives Optics
- ▲ **Lens Cover** - Polycarbonate 143R
- ▲ **Rear Cover** - Polycarbonate 143R

ORDERING INFORMATION

PWAR**D**-C1-**AA**-**BB**

Typical Colour (AA) Temperature	Options
CW = 5000K – 6350K **NW** = 3800K – 4100K **WW** = 2850K – 3250K	Blank = no onboard driver D = with onboard driver
Optic (BB)	
SP = 7 degree spot **WD** = 13 degree wide *All angles are half divergence*	

MECHANICAL DIMENSIONS



Diameter x H
61mm x 41.8mm (2.40” x 1.65”)
Maximum Cable Dia - 1.5mm^2 / 16 AWG

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OPERATING CHARACTERISTICS

Model / Color	Typical Total Lumen Output		Power Consumption		Drive Current / Operating Current	Input Voltage
	350mA / LV	700mA	350mA / LV	700mA	mA	
PWAR / CW	900	1620	10.8W	21.6W	350 - 700	*30 -36VDC
PWAR / NW	900	1620				
PWAR / WW	450	855				
PWARD / CW	900	-	11.0W	-	**1.0A - 500mA	12-24VDC 11-16VAC
PWARD / NW	900	-				
PWARD / WW	450	-				

Note: Lumen output based on manufacturers data
**Based on max Vf of 4.0V*
***1.2A for initial switch on*

OPERATING CONDITIONS

- ▲ Max case temp = 85ºC @ 350mA
- ▲ PWAR requires constant current driver
  PWARD requires constant voltage driver
  (See compatibility list)
- ▲ Max drive current 700mA (constant current version)
- ▲ Modules require additional heatsinking for lumen maintenance figures.
- ▲ IP20 rating

HEATSINK PERFORMANCE NOTE

Any custom designed heatsink must maintain a maximum case temperature of 85ºC or less for the required working ambient temperature.

COMPATIBLE DRIVERS

Compatible Dialight Lumidrives Constant Current Drivers:-

Driver	350mA	700mA	NO. OF UNITS
MDU 9 (MDU9-35-70)	✓	✗	1
MINIDIM 70 (MND70)	✓	✗	1
36W 700mA IP65 Driver (MCDU36-700-P)	✗	✓	1

Compatible Dialight Lumidrives Constant Voltage AC/DC Drivers:-

Driver	12V	24V	NO. OF UNITS
MULTIDRIVER (MLD8-C-35-70)	✓	✗	1
MVDU100-12-P	✓	N/A	1— 8
MVDU100-24-P	N/A	✓	1— 5

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Datasheet subject to change without notice.
Please visit www. dialight.com for updates.

Mouser Electronics

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Dialight:

PWARC1NWSP PWARC1CWSP PWARC1WWSP