EULP80D4S-1WNC

Advantages

- Enable interoperability with diverse wireless sensors/network systems
- Reduce complexity and cost of fixture by eliminating auxiliary components ordinarily re quired for powering sensors, switching fixture off and monitoring energy use
- interface to any suitable sensor and ease of adjustable drive current

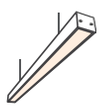
Product Feature

- Standard-compliant (DiiA) digital interface including:
- Integrated DALI bus power supply (Part 250)
- Memory Bank 1 extension, Energy Monitoring and Diagnostics (Parts 251, 252, 253)
- Energy metering and advanced diagnostics
- Continuous dimming down to 1%
- Drive current setting via NFC wireless programming
- 5-year limited warranty

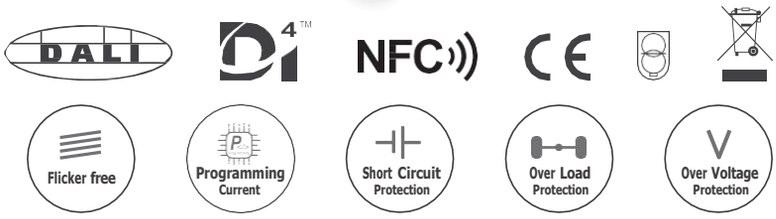
Programming

Adjustable Light Output (ALO)
Adjustable Output Current (AOC)
Luminaire Maintenance
Luminaire Information

Application



Linear light

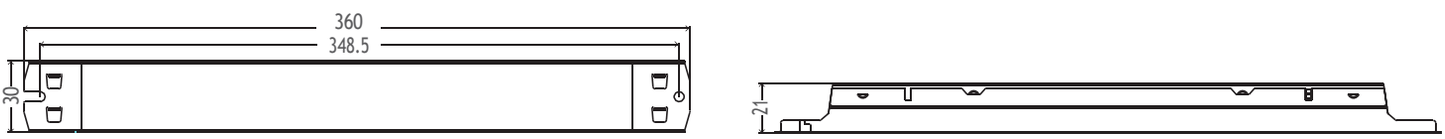


Technical Parameters

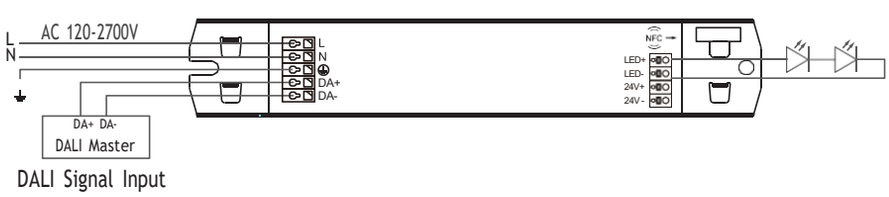
Model	EULP80D4S-1WNC	
Input	Efficiency	≥85%@120VAC, full load · ≥87%@277VAC, full load
	Rated Voltage	120VAC-277VAC
	Frequency Range(Hz)	50/60Hz
	Current	0.9Amax@120VAC, 0.4Amax@277VAC
	Power Factor	≥0.95@120VAC, full load · ≥0.9@277VAC, full load
	THD(full load)	<10%@120VAC-277VAC, full load
	Inrush Current(max)	Cold start, 6.29A@120VAC 39us, 17.7A@277VAC 38us
Output	Current Range	100-200mA(NFC), (Default Current: 700mA)
	Voltage Range	27-40VDC
	Output Power	80W Max
	Current	1
	Current Accuracy	±5% (±7% below 400mA)
	Ripple current	±5%
	No load output voltage	60VDC max
	Standby power	≤1W
	No load power	≤1W
	Start-up Time	≤0.75s, @120Vac (When the light begins to shine)
Aux Output	Output Voltage	24V±10%
	Output Power	3W
	Output Current	125mA
	No load output voltage	30V MAX
	Ripple Voltage	≤1V
Function	Dimming Type	DALI 2.0 D4i (EN62386-250, 251, 252, 253, 150)
	Dimming Range	1-100%
	Dimming curve	Logarithm
	Flicker	Flicker free
Protection	Short-circuit protection	Short circuit without output, Auto-recovery after Fault Clearance
	Overload protection	Reduce current hiccup protection, Auto-recovery after Fault Clearance
	Over Voltage	Reduce current hiccup protection, Auto-recovery after Fault Clearance

Safety& EMC	Surge	L-N 2500VAC L&N-PE 2500VAC
	Withstand Voltage	I/P-O/P:2000Vac/1min/<5mA, I/P-G:1500Vac/1min/<5mA, O/P-G:500Vac/1min/<5mA, O/P-DALI(Signal port):1500Vac/1min/<5mA
	Safety Standards	UL8750/CSA C22.2 N0250.13/UL1310/Class 2/Class P
	EMC Eission	FCC Part 15 Class A [120VAC, 277VAC]
	Insulation Resisance	5MΩ
Others	Working Temp.	-20℃~50℃ (-4℉~122℉)
	Storage Temp., Humidity	-40℃~80℃, 5%-90%RH (-40°F-185°F)
	tc	75℃ (167℉)
	Material	Metal
	IP Rating	IP20
	Lifetime	50,000h@tc:75℃ (167℉)
	Warranty Condition	5years
	Switch Cycle	>25,000 times
	Dimension	360*30*21mm (14.17*1.18*0.827 Inch) (L*W*H)
	Packing(weight)	Net weight: 330g(0.728 lb)±5%/PCS; 50PCS/Carton; 16.5kg(36.38lb)±5%/Carton; Carton Size:377*333*134mm(14.84*13.11*5.28 Inch)(L*W*H)

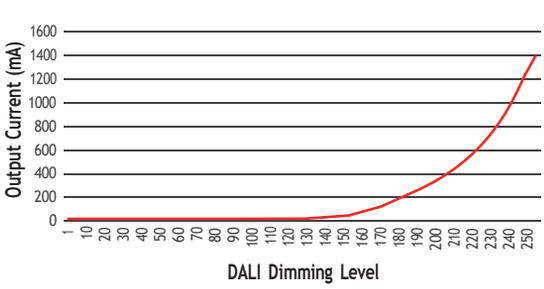
Dimension(mm)



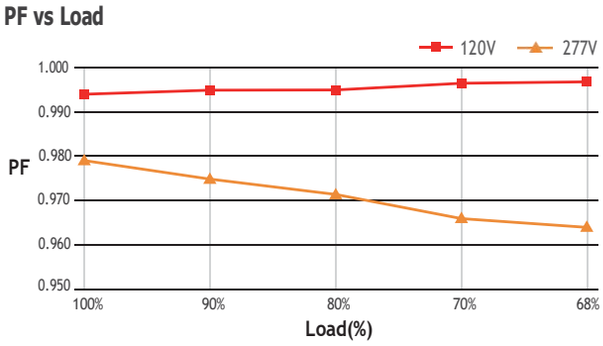
Wiring Diagram



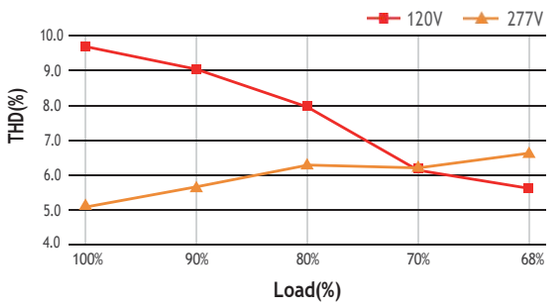
Dimming Curve



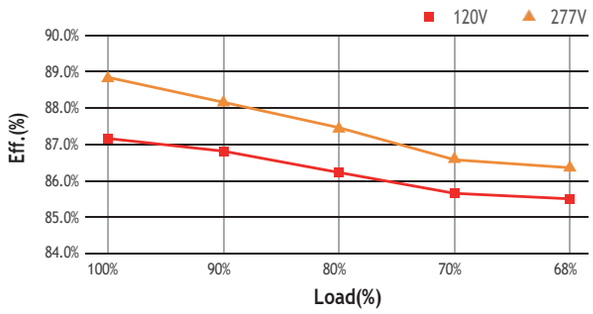
PF vs Load



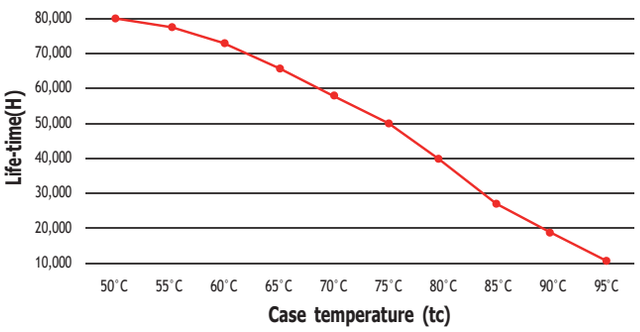
THD vs Load



Eff. vs Load

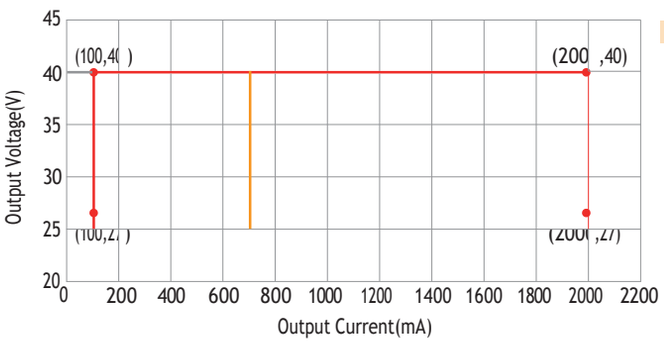


Life-time vs. case temperature



The life-time of the led driver is shown in the figure above
(calculated based on the 90% survival rate).
The relation of tc ta temperature depends also on the luminaire design.

Work Window



For 100%-1% dimming, set output current ≥ 700mA.

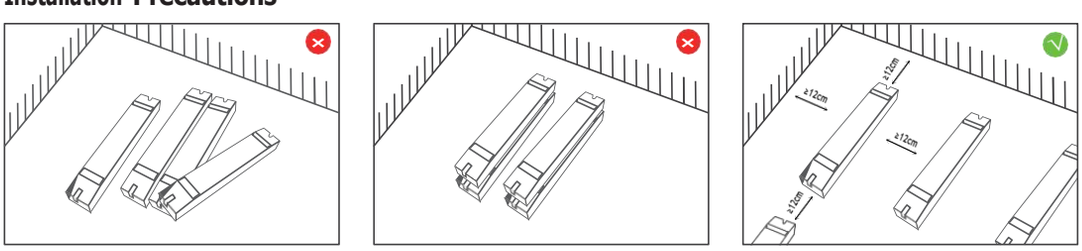
Adjustable output current

The current can be adjusted through a programmer, with a range of 100-2000mA and a minimum adjustment current of 1mA. Example: 100mA/102mA/103mA~~1400mA.

The table provides examples of partial currents:

Output Current	100mA	500mA	800mA	1100mA	1400mA	1700mA	2000mA
Output Voltage	9-40VDC	9-40VDC	9-40VDC	9-40VDC	9-40VDC	9-40VDC	9-40VDC
Output Power	4W	20W	32W	44W	56W	68W	80W

Installation Precautions



Please do not stack the products. The distance between two products should be>12cm so as not to affect heat dissipation and the lifespan of the products.

Max. quantity of drivers per miniature circuit breaker

Specification item	Value	Value	Condition
Inrush current I_{peak}	6.25A (120V)	17.7A (277V)	Input Voltage120V/277V
Inrush current T_{width}	39us (120V)	38us (277V)	Input Voltage120V/277V, measured ta 50% I_{peak}

MCB	Input Voltage 120V Drivers	Input Voltage 277V Drivers	MCB	Input Voltage 120V Drivers	Input Voltage 277V Drivers
B10	11pcs	28pcs	C10	11pcs	25pcs
B13	14pcs	32pcs	C13	14pcs	32pcs
B16	17pcs	40pcs	C16	17pcs	40pcs
B20	22pcs	50pcs	C20	22pcs	50pcs
			D16	17pcs	40pcs

Cautions

This product must be installed and adjusted by a qualified professional.		
1	Confirmation of installation conditions	· **Waterproof and Protection:** Install in a suitable location according to the waterproof and protection requirements of the power supply. Products without waterproof function should be protected from direct sunlight and rain. When installing outdoors, please use a waterproof box for protection. · **Heat dissipation requirements:** The drive power supply should avoid exposure to high temperature environments. Please ensure that the working environment temperature is within the recommended range. To ensure proper heat dissipation of the drive power supply, a well ventilated area should be selected for installation. Good heat dissipation conditions can help extend product lifespan.
2	Power check	· Before use, check the product parameters and confirm that the output voltage and current of the LED power supply meet the requirements
3	Safe wiring	· Use cables that meet the specifications to ensure that the cross-section of the wire matches the requirements of the driving power supply. Solid cables typically measuring 0.75-2.5 mm^2, (Please refer to the silk screen printing or wiring diagram in the instruction manual for specific wire diameter requirements). · If the power supply (metal casing) is installed on a grounded lighting component or equipment, the power supply needs to be grounded.
4	Wiring confirmation	· Before power on debugging, ensure that the wiring is secure and avoid poor contact to prevent unstable current or equipment damage.
5	Repair suggestions	· If the product malfunctions, please do not repair it without authorization. If you have any questions, please contact the supplier or sales team for assistance.

※ The contents of this manual are updated without prior notice. If the function of the product you are using is inconsistent with the instructions,the function of the product shall prevail. Please contact us if you have any questions .

Warranty Agreement

1. Warranty periods from the date of delivery : 5 years.
2. Free repair or replacement services for quality problems are provided within warranty periods.

Warranty exclusions below:

The following situations are not covered by the free warranty or replacement service:

1. Exceeding the warranty period.
2. Damage caused by human factors such as high voltage, overload, and improper operation.
3. The appearance of the product is severely damaged or deformed.
4. Normal wear and tear or aging during regular product use.
5. Damage caused by natural disasters or force majeure factors.
6. The quality inspection label of the product is damaged (QC PASS).
7. No contract or valid invoice proof signed with EUCHIPS has been provided.

※Remedies: Repair or replacement is the only remedy provided by EUCHIPS to the customer, and EUCHIPS shall not be liable for incidental damages arising from repair or replacement, unless within the scope of applicable law.

※Adjustment of Warranty Terms: EUCHIPS reserves the right to modify or adjust the warranty terms, which shall be published in writing.