

LED Light Sources

PFBR series

Refer to our website for product details.

CCS PFBR

Search



You can also use your smartphone or cell phone.

Use a search engine.

Provides light output that exceeds that of a 250 W metal halide light source



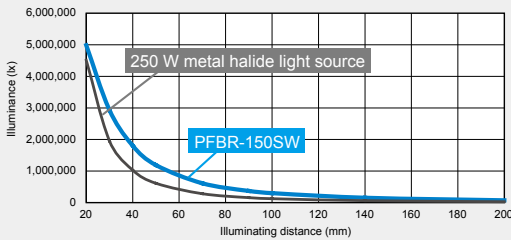
The supplied AC cord is for use with 100 to 120 VAC. CCS recommends using the following with 200 to 240 VAC.
Cable: GTCE-3 x 1.0 mm² (Kawasaki Electric Wire)
Connector: KS-31AY (Kawasaki Electric Wire)

Applications Connect to light guides and use as a light source

Caution This product emits high-intensity visible light. Materials that absorb light may convert that light into heat and be damaged. Check the instructions in the "Instruction Guide" and use this product in a safe manner.

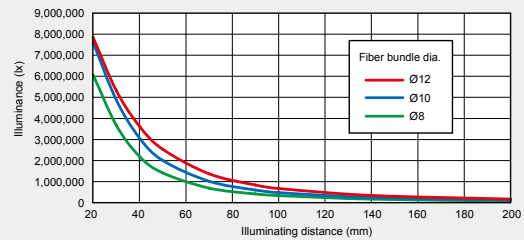
Achieves the highest level in the industry with 2 million lx

LED light source unit that exceeds a 250 W metal halide light source



* Actual measurement values with intensity of 100%, bundle of Ø8 mm, a straight light guide with a total length of 1,100 mm installed, and at positions at each illuminating distance away from the fiber output edge. (This does not guarantee product quality.)

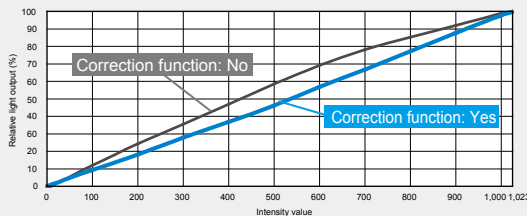
Optical design is optimized for all types of fiber to provide high output



* Actual measurement values with intensity of 100%, bundles of Ø8, 10, and 12 mm, a straight light guide with a total length of 1,080 mm installed, and at positions at each illuminating distance away from the fiber output edge. (This does not guarantee product quality.)

1,024-step intensity. Linear characteristics with reproducibility

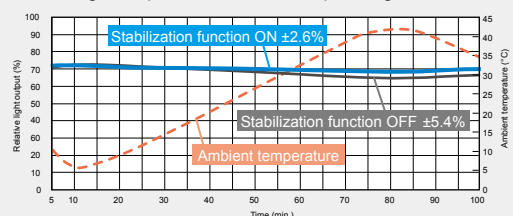
Our unique correction function is a standard function. Provides linearity with reproducibility



* Actual measurement values using our measurement conditions. (This does not guarantee product quality.)
The correction function of this product is always set to "Yes".
■ Intensity value can be adjusted in steps
• 1,024-step intensity (10-bit) • 256-step intensity (8-bit)

Equipped with a light output stabilization (feedback) function

Stable light output even in severe operating environments



* Actual measurement values using our measurement conditions. (This does not guarantee product quality.) Stabilization function is set to OFF when shipped from the factory.

Standard compatibility with three types of light guides

Check the dimensions of the light guide to be used before selecting an adapter.

* For details, refer to the Light Guide Adapter Dimensions Chart on P. 122.
* Be careful as plastic fiber cannot be used.

External control by use of a large variety of communication methods

- Digital communication control: Compatible with sink and source types
- Analog communication control: Intensity control from 0 to 5 V
- Serial communication control: RS-232C
- Ethernet communication control: TCP/IP and UDP/IP protocols

We have various materials.

PDF Drawings

DXF Drawings

3D CAD

Instruction Guides

Product Files

Imaging Samples

Data Sheets

Examples of Custom Ordered Products

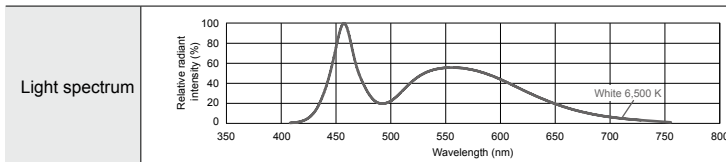
Download here.

<http://www.ccs-grp.com/dl/>

Lineup

Model name	LED color	Power consumption	Correlated color temperature	Options	Weight
PFBR-150SW-MN	White	200 VA	6,500 K	<div style="border: 1px solid black; padding: 2px; display: inline-block;">Light guide adapter</div> <div style="border: 1px solid black; padding: 2px; display: inline-block;">External control cable</div>	3,900 g

LED properties



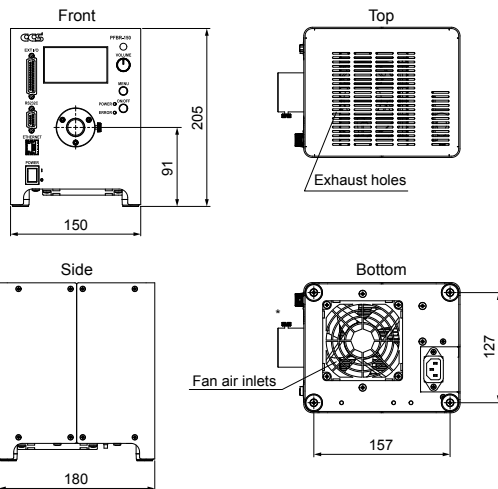
* Inquire with your light guide manufacturer for details about the light guide.
* Installation method: Do not place anything within 100 mm of the top of the PFBR unit.

CCS will provide custom order products. Please feel free to consult with us.

- Change to wavelength (Red, blue, and green)
- Change to light distribution angle, etc.

Be sure to read the "Instruction Guide" included with the product before use and observe cautionary information. The data included is for reference only and does not guarantee the quality of this product.

Dimensions (mm)



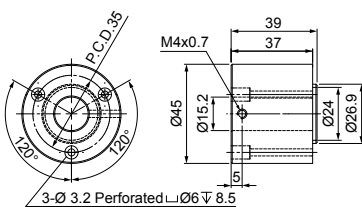
* The shape of the light guide adapter depends on the details of the order.

Specifications

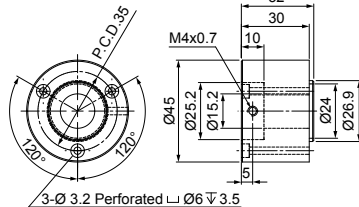
Applicable fiber bundle diameter	Ø8 to Ø14 mm
Light distribution angle	Total angle of 30°
Drive method	Constant-current system
Intensity control method	Variable-current control
No. of channels	1 channel
Input power supply	100 to 240 VAC (±10%), 50/60 Hz
Power consumption (typ.)	200 VA
Inrush current (typ.)	15 A at 100 VAC, 30 A at 200 VAC * From a cold start
Ground leakage current	3.5 mA max. (264 VAC, 60 Hz, with no load)
Insulation withstand voltage (Input-FG)	1,500 VAC 1-min. cutoff current 10 mA 500 VDC 20 MΩ
Operating environment	Temperature: 5 to 40°C, Humidity: 20% to 80%RH (with no condensation) Altitude: 2,000 m max., Transient overcurrent: Category II, Pollution level: 2
Storage environment	Temperature: -15 to 60°C Humidity: 20% to 85%RH (with no condensation)
Cooling method	Forced air cooling
CE marking	Safety standard: EN61010-1 compliant, EMC standard: Complies with EN61000-6-2 and EN61000-6-4
Environmental regulations	RoHS compliant
Material, coating, surface processing	Aluminum alloy (black alumite)
Accessories	Instruction Guide x 1, 3-prong AC cord with ground terminal (2 m) x 1

Options

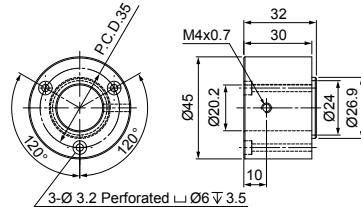
Light guide adapter: AD-PFBR-150-MO



Light guide adapter: AD-PFBR-150-HY



Light guide adapter: AD-PFBR-150-SU

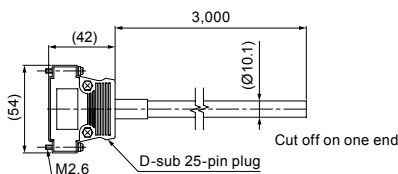


Caution

- Be careful as plastic fiber cannot be used.
- Please be aware that the light guide adapter must be installed after purchase by the customer. Inquire with your CCS sales representative regarding sizes not listed here.

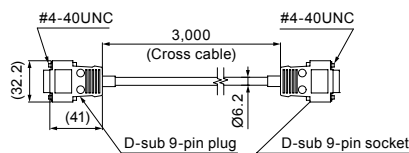
External control cable: EXCB2-25M-3

Parallel communication cable (Compatible with digital and analog intensity)



External control cable: EXCB2-9M-9F-3-CR

Serial communication cable (RS-232C)



You can inquire using our website.

Requests for
Light Unit
Selection

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Loan
Products

Requests for
Estimates

Requests for
a Catalog

Product
Inquiries

Other
Inquiries

Inquire on our website here.

<http://www.ccs-grp.com/contact/>

Direct Lighting
LDR2
LDR2-LA
LDR-LA1
SQR
SQR-TP

Convergent
Lighting
HLDR-IP

Diffused Lighting
HPR2
HPR
LFR
LKR
FPR
FPQ2

Direct
Lighting
LDL2
LDLB
HLDL2

TH
LFL
HPD2

Diffused Lighting
HPD
LDM2
LAV
PDM
LFX2
LFX3
LFV2

Collimated
Lighting
MSU
MFU

Ultraviolet
Lighting
UV2
UV
LNSP-UV-FN

Infrared
Lighting
IR2

Spot Lighting, Etc.
HLV2
LV
LSP
HFS/HFR
HLV2-NR
HLV2-3M-RGB-3W
PFB2
PFB3

Convergent
Lighting
LNSP
CU-LNSP
LNSP-FN
LN/LN-HK

Diffused
Lighting
LNSD
LND2
HLND
LT
LNV/HLDN

Oblique
Angled
Lighting
LNIS
LNIS-FN

Lenses
Telecentric Lens
Macro Lens