... inspired by you

heda®

LED
Technology of saving

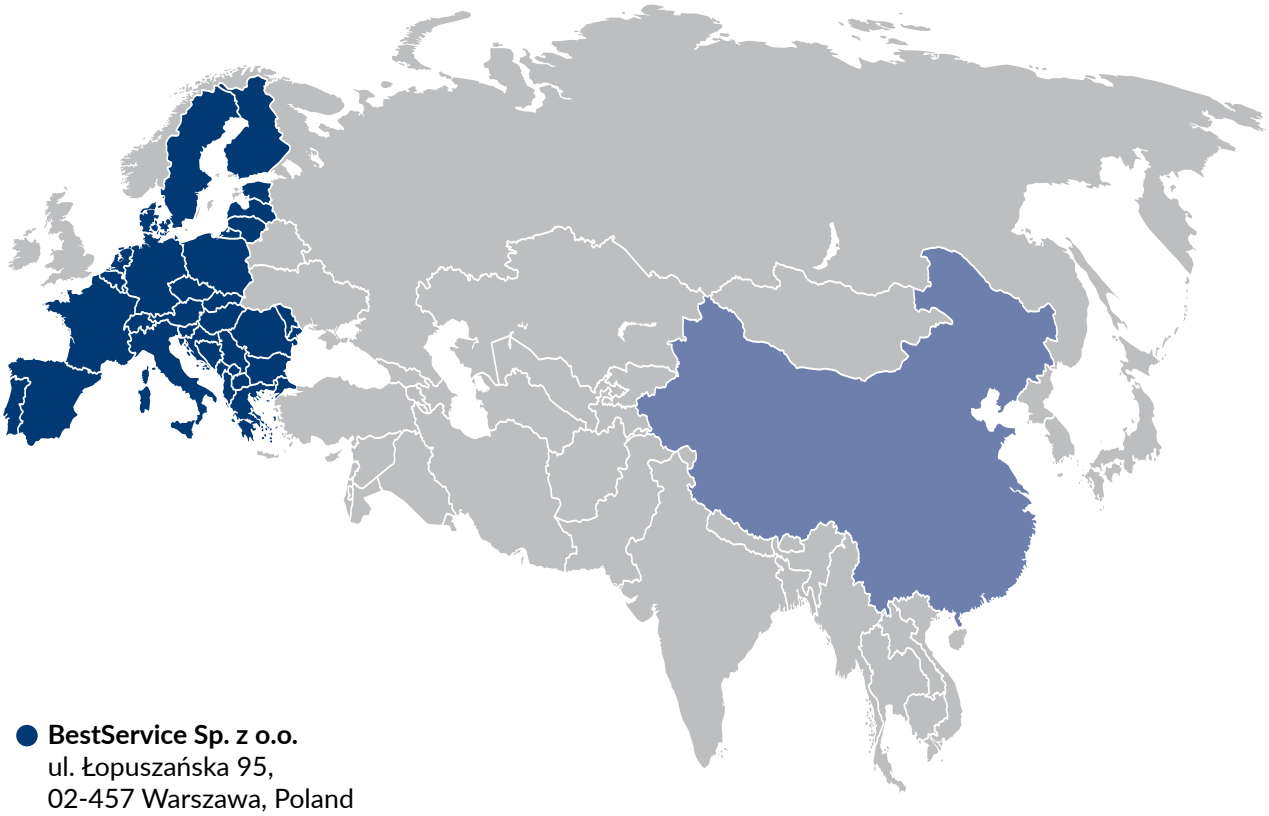
ISO 9001:2015 Quality Management

ISO 14001:2015 Quality Management

Catalogue 2021-2022

www.hedalighting.eu

Heda is a thriving European brand of LED lighting. From the very beginning we have been putting an great emphasis on the quality of the products sold. Our products contain chips made only by the world's leading LED manufacturers. All products meet the strict quality requirements in accordance with the directives of the European Union, which guarantees an opportunity of our product usage for many years. We are inspired by changes in the lighting industry and that is why not only do we catch the wave but also we are moving beyond. Our goal is to meet the most demanding clients' needs as also the environment protection. Our products are available from warehouses in Poland, Greece and China.



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High Bay LED

heda®

LED Bulbs

Smooth light without flickering

C37 flame

3W

C37

3W
6W
8W

C37

6W

G45

6W
8W

G45

6W

3000 K 4000 K 6500 K

LED Bulbs - candels and small bulbs

Index	Type	Power	Base	Lumen	Voltage	CRI	Lighting angle	Tempera-ture	Lifetime	ON/OFF	Lamp size
HD021	C37flame	**3W**=>25W	E14	250	175-250V	>80	200°	3000 K	25 000 H	>15 000	37x130mm
HD020	C37	**3W**=>25W	E14	250	175-250V	>80	200°	3000 K	25 000 H	>15 000	37x98mm
HD053	C37	**6W**=>40W	E14	470	175-250V	>80	200°	3000 K	25 000 H	>15 000	37x99mm
HD058	C37	**6W**=>40W	E14	475	175-250V	>80	200°	4000 K	25 000 H	>15 000	37x110mm
HD060	C37	**6W**=>40W	E14	475	175-250V	>80	200°	6500 K	25 000 H	>15 000	37x99mm
HD054	C37	**6W**=>40W	E27	470	175-250V	>80	200°	3000 K	25 000 H	>15 000	37x99mm
HD055	C37	**8W**=>50W	E14	640	175-250V	>80	200°	3000 K	25 000 H	>15 000	37x107mm
HD077	C37	**8W**=>51W	E14	660	175-250V	>80	200°	4000 K	25 000 H	>15 000	37x110mm
HD066	C37	**8W**=>51W	E14	660	175-250V	>80	200°	6500 K	25 000 H	>15 000	37x107mm
HD050	G45	**6W**=>40W	E14	470	175-250V	>80	200°	3000 K	25 000 H	>15 000	45x78mm
HD051	G45	**6W**=>40W	E14	475	175-250V	>80	200°	4000 K	25 000 H	>15 000	45x79mm
HD063	G45	**6W**=>40W	E14	475	175-250V	>80	200°	6500 K	25 000 H	>15 000	45x78mm
HD052	G45	**6W**=>40W	E27	470	175-250V	>80	200°	3000 K	25 000 H	>15 000	45x78mm
HD062	G45	**6W**=>40W	E27	475	175-250V	>80	200°	6500 K	25 000 H	>15 000	45x78mm
HD056	G45	**8W**=>50W	E14	640	175-250V	>80	200°	3000 K	25 000 H	>15 000	45x89mm
HD057	G45	**8W**=>51W	E14	660	175-250V	>80	200°	4000 K	25 000 H	>15 000	45x90mm
HD065	G45	**8W**=>51W	E14	660	175-250V	>80	200°	6500 K	25 000 H	>15 000	45x89mm

Housing - thermally conductive plastic + aluminum radiator
Obudowa - plastik termoprzewodzący + aluminiowy radiator

CRI(RA) >80 | 200° | 175-250V 50-60 Hz | 25.000 h | on/off >15.000

2 years Guarantee

Power – Moc / Base – Trzonek / Lumen – Strumień świetlny / Temperature – Temperatura barwowa / Voltage – Napięcie / Lighting angle – Kąt rozsyłu / Lifetime - Trwałość / Lamp size – Wymiary lampy

LED Technology of saving

Stabilne światło bez migotania

~85% Energy Save

3000 K 4000 K 6500 K

LED Bulbs - standard A55, A60 and A65

Index	Type	Power	Base	Lumen	Voltage	CRI	Lighting angle	Tempera-ture	Lifetime	ON/OFF	Lamp size
HD100	A55	**7W**=>40W	E27	470	175-250V	>80	200°	3000 K	25 000 H	>15 000	55x100mm
HD120	A55	**7W**=>40W	E27	475	175-250V	>80	200°	4000 K	25 000 H	>15 000	55x100mm
HD110	A55	**7W**=>40W	E27	475	175-250V	>80	200°	6500 K	25 000 H	>15 000	55x100mm
HD101	A60	**10W**=>60W	E27	806	175-250V	>80	200°	3000 K	25 000 H	>15 000	60x109mm
HD121	A60	**10W**=>61W	E27	815	175-250V	>80	200°	4000 K	25 000 H	>15 000	60x109mm
HD111	A60	**10W**=>61W	E27	815	175-250V	>80	200°	6500 K	25 000 H	>15 000	60x109mm
HD102	A60	**12W**=>75W	E27	1050	175-250V	>80	200°	3000 K	25 000 H	>15 000	60x109mm
HD122	A60	**12W**=>77W	E27	1100	175-250V	>80	200°	4000 K	25 000 H	>15 000	60x109mm
HD112	A60	**12W**=>77W	E27	1100	175-250V	>80	200°	6500 K	25 000 H	>15 000	60x109mm
HD103	A60	**15W**=>88W	E27	1300	175-250V	>80	200°	3000 K	25 000 H	>15 000	60x121mm
HD123	A60	**15W**=>91W	E27	1350	175-250V	>80	200°	4000 K	25 000 H	>15 000	60x121mm
HD113	A60	**15W**=>91W	E27	1350	175-250V	>80	200°	6500 K	25 000 H	>15 000	60x121mm
HD105	A65	**17W**=>100W	E27	1520	175-250V	>80	200°	3000 K	25 000 H	>15 000	65x125mm
HD125	A65	**17W**=>100W	E27	1520	175-250V	>80	200°	4000 K	25 000 H	>15 000	65x125mm
HD115	A65	**17W**=>100W	E27	1520	175-250V	>80	200°	6500 K	25 000 H	>15 000	65x125mm

Housing - thermally conductive plastic + aluminum radiator
Obudowa - plastik termoprzewodzący + aluminiowy radiator

CRI(RA) >80 | 200° | 175-250V 50-60 Hz | 25.000 h | on/off >15.000

CE EuP compliant RoHS COMPLIANT

*CRI (RA) >80

* współczynnik oddawania barw (ang. color rendering index). Zgodnie z dyrektywami Unii Europejskiej na jej terenie nie można używać źródeł światła o CRI mniejszym niż 80 w pomieszczeniach gdzie dłużej przebywa człowiek. Zbyt niskie CRI powoduje szybsze zmęczenie wzroku i ma negatywny wpływ na zdrowie.

heda®

LED Bulbs

Smooth light without flickering

~85% Energy Save

MR16

G A→G

F A→G

1,9W
4W
6W
8W

3000 K 4000 K 6500 K

LED Bulbs - reflector MR16

Index	Type	Power	Base	Lumen	Voltage	CRI	Lighting angle	Tempera-ture	Lifetime	ON/OFF	Lamp size
HD210	MR16	**1,9W**=>15W	GU10	130	175-265V	>80	120°	3000 K	25 000 H	>15 000	50x55mm
HD211	MR16	**1,9W**=>15W	GU10	135	175-265V	>80	120°	6000 K	25 000 H	>15 000	50x55mm
HD220	MR16	**4W**=>28W	GU10	300	175-265V	>80	120°	3000 K	25 000 H	>15 000	50x55mm
HD221	MR16	**4W**=>30W	GU10	310	175-265V	>80	120°	6500 K	25 000 H	>15 000	50x55mm
HD230	MR16	**6W**=>40W	GU10	470	175-265V	>80	120°	3000 K	25 000 H	>15 000	50x55mm
HD232	MR16	**6W**=>40W	GU10	475	175-265V	>80	120°	4000 K	25 000 H	>15 000	50x55mm
HD231	MR16	**6W**=>40W	GU10	475	175-265V	>80	120°	6500 K	25 000 H	>15 000	50x55mm
HD243	MR16	**8W**=>50W	GU10	630	175-265V	>80	120°	3000 K	25 000 H	>15 000	50x55mm
HD245	MR16	**8W**=>51W	GU10	650	175-265V	>80	120°	4000 K	25 000 H	>15 000	50x55mm
HD244	MR16	**8W**=>51W	GU10	650	175-265V	>80	120°	6500 K	25 000 H	>15 000	50x55mm

G A→G

F A→G

Housing - thermally conductive plastic + aluminum radiator
Obudowa - plastik termoprzewodzący + aluminiowy radiator

CRI(RA) >80 | 120° | 175-250V 50-60 Hz | GU10 | 25.000 h | on/off >15.000

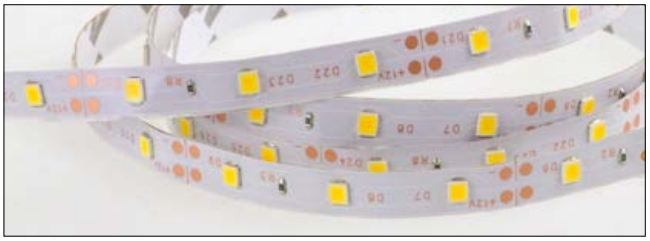
2 years Guarantee

Power – Moc / Base – Trzonek / Lumen – Strumień świetlny / Temperature – Temperatura barwowa / Voltage – Napięcie / Lighting angle – Kąt rozsyłu / Lifetime - Trwałość / Lamp size – Wymiary lampy

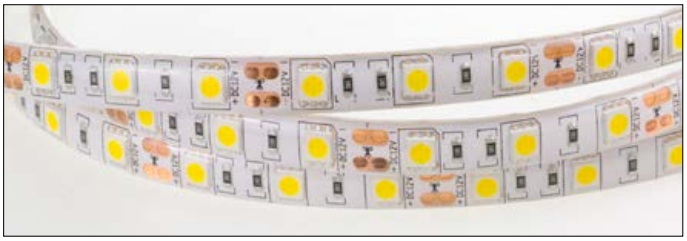
Hg

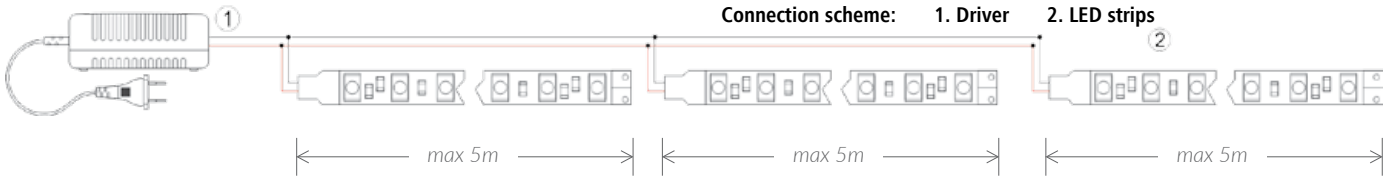
Taśmy LED DC 12V

LED size 2835 | 60 SMD/m | IP20/IP65 | 5mx8mm



LED size 5050 | 60 SMD/m | IP20/IP65 | 5mx10mm





The maximum length of the LED strip connected to one power supply can not exceed 5m. In the case of longer installations, the strips should be connected in parallel, see scheme above.

Maksymalna długość taśmy LED podłączonej do jednego zasilacza nie może przekraczać 5m. W wypadku dłuższych instalacji, taśmy należy podłączyć równolegle, jak na schemacie powżej.

	3000 K warm light	cold light 6500 K	3000 K warm light	cold light 6500 K	RGB
LED size	2835	2835	5050	5050	5050
Power / m	< 4.8W	< 4.8W	<14,4W/m	<14,4W/m	< 14.4W
Lumen / m	250	250	360	360	300
SMD / m	60	60	60	60	60
Voltage	12V DC	12V DC	12V DC	12V DC	12V DC
CRI	>70	>70	>70	>70	>70
Lighting angle	120°	120°	120°	120°	120°
Temperature	3000 K	6500 K	3000 K	6500 K	RGB
IP	20	20	20	20	20
Cut-cut lenght	5 cm	5 cm	5 cm	5 cm	5 cm
Lenght / width	5m / 8mm	5m / 8mm	5m / 10mm	5m / 10mm	5m / 10mm
	HS010	HS012	HS050	HS052	HS059

~85% Energy Save

IP 20

A G

	3000 K warm light	cold light 6500 K	3000 K warm light	cold light 6500 K	RGB
LED size	2835	2835	5050	5050	5050
Power / m	< 4.8W	< 4.8W	< 14.4W	< 14.4W	< 14.4W
Lumen / m	250	250	360	360	360
SMD / m	60	60	60	60	60
Voltage	12V DC	12V DC	12V DC	12V DC	12V DC
CRI	>70	>70	>70	>70	>70
Lighting angle	120°	120°	120°	120°	120°
Temperature	3000 K	6500 K	3000 K	6500 K	RGB
IP	65	65	65	65	65
Cut-cut lenght	5 cm	5 cm	5 cm	5 cm	5 cm
Lenght / width	5m / 8mm	5m / 8mm	5m / 10mm	5m / 10mm	5m / 10mm
	HS020	HS022	HS060	HS062	HS069

~85% Energy Save

IP 65

A G

*CRI (RA) >80

* współczynnik oddawania barw (ang. color rendering index). Zgodnie z dyrektywami Unii Europejskiej na jej terenie nie można używać źródeł światła o CRI mniejszym niż 80 w pomieszczeniach gdzie dłużej przebywa człowiek. Zbyt niskie CRI powoduje szybsze zmęczenie wzroku i ma negatywny wpływ na zdrowie.

LED T5 Batten with on/off switch

Listwa LED T5 z przełącznikiem on/off

~50% Energy Save

8W | IP 20 / IK 02 | 680 lumen | 180° | 180-256V 50Hz | CRI(RA) >80 | PF >0.5 | 25.000 h | on/off >15.000 | F A↑G

10W | IP 20 / IK 02 | 850 lumen | 180° | 180-256V 50Hz | CRI(RA) >80 | PF >0.5 | 25.000 h | on/off >15.000 | F A↑G

14W | IP 20 / IK 02 | 1180 lumen | 180° | 180-256V 50Hz | CRI(RA) >80 | PF >0.5 | 25.000 h | on/off >15.000 | F A↑G

	natural light 4000 K	cold light 6500 K	natural light 4000 K	cold light 6500 K	natural light 4000 K	cold light 6500 K
Power	8W	8W	10W	10W	14W	14W
Lumen	680	680	850	850	1180	1180
Voltage	180-256V	180-256V	180-256V	180-256V	180-256V	180-256V
CRI	>80	>80	>80	>80	>80	>80
Lighting angle	180°	180°	180°	180°	180°	180°
Temperature	4000 K	6500 K	4000 K	6500 K	4000 K	6500 K
Lifetime	25 000 H	25 000 H	25 000 H	25 000 H	25 000 H	25 000 H
ON/OFF	> 15000	> 15000	> 15000	> 15000	> 15000	> 15000
Lamp size	600 mm	600 mm	900 mm	900 mm	1200 mm	1200 mm
	HDT508N	HDT508C	HDT510N	HDT510C	HDT514N	HDT514C

Included accessories

2 years Guarantee

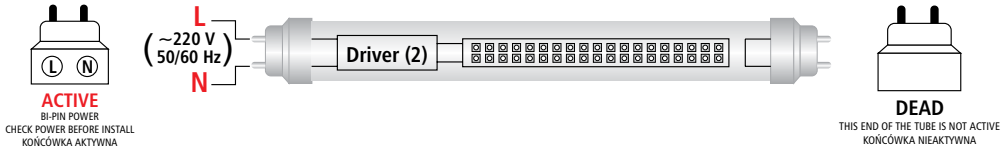
Power – Moc / Base – Trzonek / Lumen – Strumień świetlny / Temperature – Temperatura barwowa / Voltage – Napięcie / Lighting angle – Kąt rozsyłu / Lifetime - Trwałość / Lamp size – Wymiary lampy

Hg

SMD glass T8 LED tube

Tuby szklane LED T8

Fireproof V1
Ognioodporne końcówki V1



A F G

T8 | PF >0.5 | CRI(RA) >80 | 180° | 220-240V 50-60 Hz | G13 | 20.000 h | on/off >15.000 | STARTER included

	4100 K natural light	cold light 6500 K	4100 K natural light	cold light 6500 K	4100 K natural light	cold light 6500 K
Power	10W	10W	18W	18W	24W	24W
Lumen	900	900	1620	1620	2160	2160
Voltage	220-240V	220-240V	220-240V	220-240V	220-240V	220-240V
CRI	>80	>80	>80	>80	>80	>80
Lighting angle	180°	180°	180°	180°	180°	180°
Temperature	4100 K	6500 K	4100 K	6500 K	4100 K	6500 K
Lifetime	20 000 H	20 000 H	20 000 H	20 000 H	20 000 H	20 000 H
ON/OFF	> 15 000	> 15 000	> 15 000	> 15 000	> 15 000	> 15 000
Lamp size	600 mm	600 mm	1200 mm	1200 mm	1500 mm	1500 mm
	HDT10NGL	HDT10CGL	HDT18NGL	HDT18CGL	HDT24NGL	HDT24CGL

~50% Energy Save

*CRI (RA) >80

Power – Moc / Lumen – Strumień świetlny / Voltage – Napięcie / Lighting angle – Kąt rozsyłu / Temperature – Temperatura barwowa / Lifetime – Trwałość / Lamp size – Wymiary lampy

arw (ang. color rendering index). Zgodnie z dyrektywami nie można używać źródeł światła o CRI mniejszym niż 80 żej przebywa człowiek. Zbyt niskie CRI powoduje szybsze wny wpływ na zdrowie.

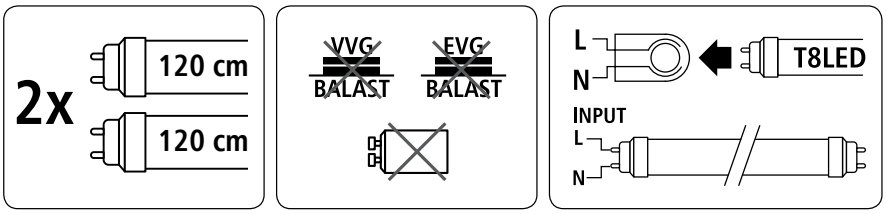
Dustproof lighting fitting for T8 LED tubes

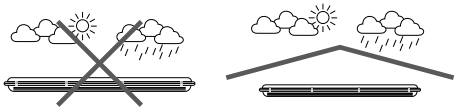
Oprawa hermetyczna na tuby LED T8

Tube type	T8 LED	T8 LED
Tube size	120 cm	120 cm
Tube number	2	2
Base	G13	G13
IP	65	65
Lamp size	1260x107x61mm	1260x107x61mm
Net weight	0,98 kg	0,98 kg
	HDL236	**HDL236RF**

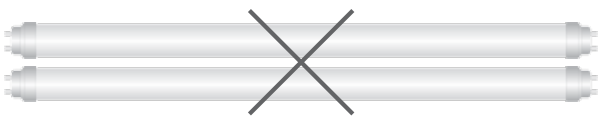
+REFLECTOR
Zwiększony strumień świetlny
Increases luminous flux

ABS+PS





Oprawa nie zawiera tub LED
Fixture doesn't contain LED tubes



2 years Guarantee

Power – Moc / Base – barwowa / Voltage – N size – Wymiary lampy

Max. power - Maksymalna moc / Base - Trzonek / Voltage - Napięcie / Lamp type - Typ źródła / Lamp size - Wymiary źródła

Oprawy sufitowe

4500 K natural light

~50% Energy Save

Power	18W
Lumen	1440
Voltage	195 - 265 V
CRI	>80
Lighting angle	120°
Temperature	4500 K
Lifetime	20 000 H
ON/OFF	> 50 000
Lamp size	592x75x26mm

Indeks **HDS1802**

A↑G F

18W | 2x18W | IP20

1440 lumen | 120° | 195-265V 50-60 Hz | CRI(RA) >80

PF >0.5 | 20.000 h | on/off >50.000 | 100% w<1s

4500 K natural light | cold light 6500 K | cold light 6500 K

~50% Energy Save

Power	36W	36W	36W
Lumen	2880	2880	2880
Voltage	195 - 265 V	195 - 265 V	195 - 265 V
CRI	>80	>80	>80
Lighting angle	120°	120°	120°
Temperature	4500 K	6500 K	6500 K
Lifetime	20 000 H	20 000 H	20 000 H
ON/OFF	> 50 000	> 50 000	> 50 000
Lamp size	1192x75x26mm	1192x75x26mm	1192x75x26mm
	HDS3602	**HDS3603**	**HDS3603S**

PIR Sensor

A↑G F

36W | 2x36W | IP20

2880 lumen | 120° | 195-265V 50-60 Hz | CRI(RA) >80

PF >0.9 | 20.000 h | on/off >50.000 | 100% w<1s

*CRI (RA) >80

* współczynnik oddawania barw (ang. color rendering index). Zgodnie z dyrektywami Unii Europejskiej na jej terenie nie można używać źródeł światła o CRI mniejszym niż 80 w pomieszczeniach gdzie dłużej przebywa człowiek. Zbyt niskie CRI powoduje szybsze zmęczenie wzroku i ma negatywny wpływ na zdrowie.

LED Waterproof lamp

Oprawy hermetyczne

F A↑G

4000 K natural light | 4000 K natural light

~50% Energy Save

Power	18W	36W
Lumen	1500	3000
Voltage	170 - 265 V	170 - 265 V
CRI	>80	>80
Lighting angle	120°	120°
Temperature	4000 K	4000 K
Lifetime	30 000 H	30 000 H
ON/OFF	> 15 000	> 15 000
Lamp size	600x53x29mm	1175x53x29mm
	Indeks **HTP018N**	Indeks **HTP036N**

18W | 2x18W | IP 65 | IK 08 | 1500 lumen

36W | 2x36W | IP 65 | IK 08 | 3000 lumen

120° | 170-265V 50-60 Hz | CRI(RA) >80 | PF >0.9 | 30.000 h | on/off >15.000 | 100% w<1s

F A↑G

4500 K natural light | cold light 6500 K

~50% Energy Save

Power	36W	36W
Lumen	2880	2880
Voltage	195 - 265 V	195 - 265 V
CRI	>80	>80
Lighting angle	120°	120°
Temperature	4500 K	6500 K
Lifetime	20 000 H	20 000 H
ON/OFF	> 50 000	> 50 000
Lamp size	1170x60x55 mm	1170x60x55mm
	Indeks **HDS102**	Indeks **HDS103**

36W | 2x36W | IP 65 | IK 08

2880 lumen | 120° | 195-265V 50-60 Hz | CRI(RA) >80 | PF >0.9 | 20.000 h | on/off >50.000 | 100% w<1s

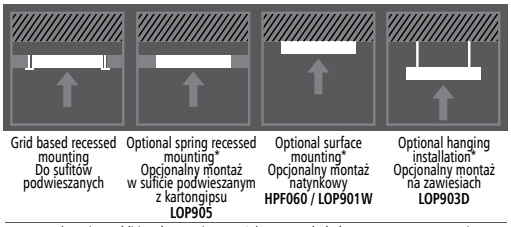
2 years Guarantee

Power – Moc / Base – Trzonek / Lumen – Strumień świetlny / Temperature – Temperatura barwowa / Voltage – Napięcie / Lighting angle – Kąt rozsyłu / Lifetime - Trwałość / Lamp size – Wymiary lampy

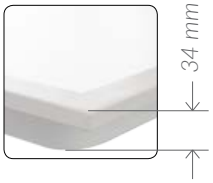
Hg

LED Panel Backlite 60x60

Panel LED Backlite 60x60

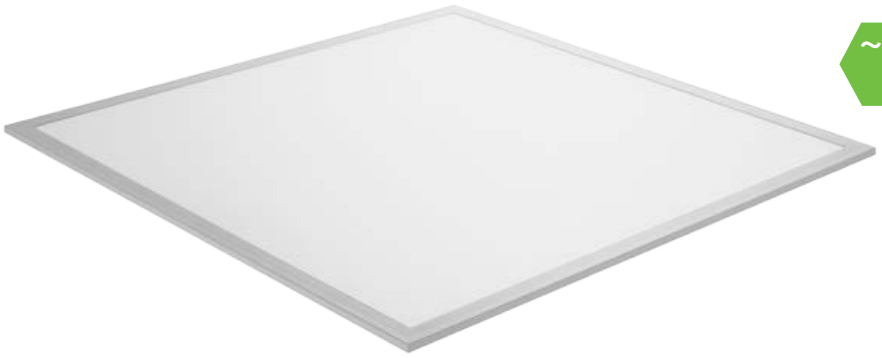


*requires additional mounting set / *wymaga dodatkowego zestawu montażowego



Zasilacz znajduje się wewnątrz oprawy.
Driver is mounted inside.

4000 K natural light



~50% Energy Save

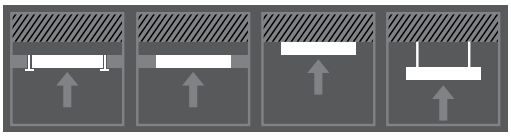
Power	40W
Lumen	4000
Voltage	185-265V
CRI	>80
Lighting angle	120°
Temperature	4000 K
Lifetime	35 000 H
ON/OFF	> 20 000
Lamp size	595x595x34mm

HPB4060

Ramka natynkowa do paneli LED 595x595 mm.
Surface - mounted frame for LED panels 595x595 mm.

HPF060

Panel LED 60x60 / 30x120



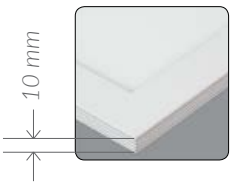
Grid based recessed mounting
Do sufitów podwieszanych

Optional spring recessed mounting*
Opcjonalny montaż w suficie podwieszanym z kartongipsu
LOP905

Optional surface mounting*
Opcjonalny montaż natynkowy
HPF060 / LOP901W

Optional hanging installation*
Opcjonalny montaż na zawiesiach
LOP903D

*requires additional mounting set / *wymaga dodatkowego zestawu montażowego



A E G

4000 K natural light cold light 6000 K

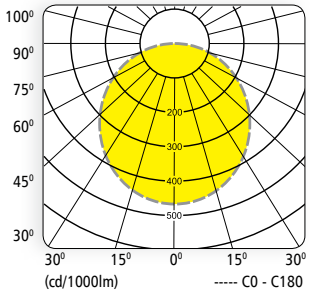
~50% Energy Save

Power	40W	40W
Lumen	4000	4000
Voltage	175-265V	175-265V
CRI	>80	>80
Lighting angle	120°	120°
Temperature	4000 K	6000 K
Lifetime	20 000 H	20 000 H
ON/OFF	> 15 000	> 15 000
Lamp size	595x595x10mm	595x595x10mm
	HPL4060E	HPL4060EC

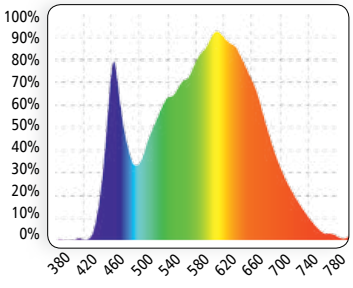
IC Driver No Flickering | 40W | 4x18W | IP 20 | IK 04 | 4000 lumen | 120° | 175-265V 50-60 Hz | CRI(RA) >80 | PF >0.9 | 20.000 h | on off >15.000 | 100% <1s

A E G

Photometric solid



Spectrum 4000K



4000 K natural light cold light 6000 K

~50% Energy Save

Power	40W	40W
Lumen	4000	4000
Voltage	175-265V	175-265V
CRI	>80	>80
Lighting angle	120°	120°
Temperature	4000 K	6000 K
Lifetime	20 000 H	20 000 H
ON/OFF	> 15 000	> 15 000
Lamp size	295x1195x10mm	295x1195x10mm
	HPL40120E	HPL40120EC

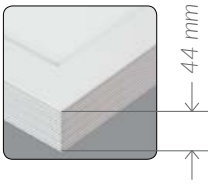
IC Driver No Flickering | 40W | 2x36W | IP 20 | IK 04 | 4000 lumen | 120° | 175-265V 50-60 Hz | CRI(RA) >80 | PF >0.9 | 20.000 h | on off >15.000 | 100% <1s

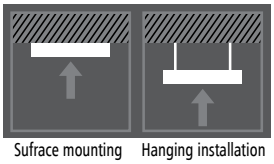
Power – Moc / Base – Trzonek / Lumen – Strumień świetlny / Temperature – Temperatura barwowa / Voltage – Napięcie / Lighting angle – Kąt rozsyłu / Lifetime - Trwałość / Lamp size – Wymiary lampy

Hg

LED Panel 60x60 / 30x120 surface mounting

Panel LED 60x60 / 30x120 natynkowy





A↑G E

4000 K natural light

~50% Energy Save

Power	40W
Lumen	4000
Voltage	175-265V
CRI	>80
Lighting angle	120°
Temperature	4000 K
Lifetime	20 000 H
ON/OFF	> 15 000
Lamp size	595x595x34mm

HPL4060ESM

IC Driver No Flickering | 40W | 4x18W | IP 20 / IK 04 | 4000 lumen | 120° | 175-265V 50-60 Hz | CRI(RA) >80 | PF >0.9 | 20.000 h | on/off >15.000 | 100% <1s

4000 K natural light

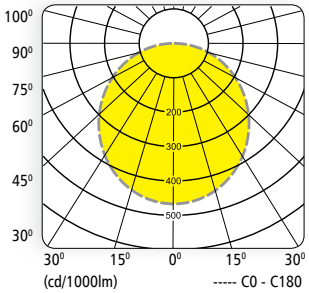
A↑G E

~50% Energy Save

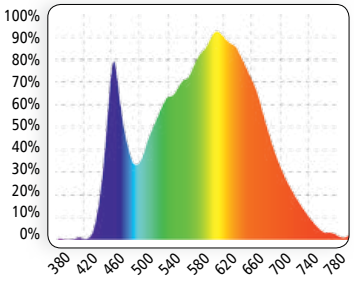
Power	40W
Lumen	4000
Voltage	175-265V
CRI	>80
Lighting angle	120°
Temperature	4000 K
Lifetime	20 000 H
ON/OFF	> 15 000
Lamp size	295x1195x34mm

HPL40120ESM

Photometric solid



Spectrum 4000K



IC Driver No Flickering | 40W | 2x36W | IP 20 / IK 04 | 4000 lumen | 120° | 175-265V 50-60 Hz | CRI(RA) >80 | PF >0.9 | 20.000 h | on/off >15.000 | 100% <1s

IP 20 | 12W | 90W 30W

840 lumen | 120° | 220-240V 50-60 Hz | CRI(RA) >80 | PF >0.5 | 20.000 h | on/off >15.000 | 100% w<1s

4000 K natural light

~85% Energy Save

G (A↑G)

Power	12W
Lumen	840
Voltage	220-240 V
CRI	>80
Lighting angle	120°
Temperature	4000 K
Lifetime	20 000 H
ON/OFF	> 15 000
Lamp size	ø255 x 55 mm

HCL1202

IP 44 | 18W | 125W 45W

1260 lumen | 120° | 220-240V 50-60 Hz | CRI(RA) >80 | PF >0.5 | 20.000 h | on/off >15.000 | 100% w<1s

4000 K natural light

~85% Energy Save

G (A↑G)

Power	18W
Lumen	1260
Voltage	220-240 V
CRI	>80
Lighting angle	120°
Temperature	4000 K
Lifetime	20 000 H
ON/OFF	> 15 000
Lamp size	ø310 x 55 mm

HCL1804

IP 44 | 24W | 180W 60W

1680 lumen | 120° | 220-240V 50-60 Hz | CRI(RA) >80 | PF >0.5 | 20.000 h | on/off >15.000 | 100% w<1s

4000 K natural light

~85% Energy Save

G (A↑G)

Power	24W
Lumen	1680
Voltage	220-240 V
CRI	>80
Lighting angle	120°
Temperature	4000 K
Lifetime	20 000 H
ON/OFF	> 15 000
Lamp size	ø350 x 55 mm

HCL2404

2 years Guarantee

Power – Moc / Base – Trzonek / Lumen – Strumień świetlny / Temperature – Temperatura barwowa / Voltage – Napięcie / Lighting angle – Kąt rozsyłu / Lifetime - Trwałość / Lamp size – Wymiary lampy

Hg

z czujką ruchu / with microwave sensor

4000 K natural light

Microwave Sensor

IP 44

12W → 90W / 30W

840 lumen | 120° | 220-240V 50-60 Hz | CRI(RA) >80 | PF >0.5 | 20.000 h | on/off >15.000 | 100% w<1s

~85% Energy Save

G → A↑G

Power	12W
Lumen	840
Voltage	220-240 V
CRI	>80
Lighting angle	120°
Temperature	4000 K
Lifetime	20 000 H
ON/OFF	> 15 000
Lamp size	ø330 x 70 mm

HCL1204S

4000 K natural light

Microwave Sensor

IP 44

18W → 125W / 45W

1260 lumen | 120° | 220-240V 50-60 Hz | CRI(RA) >80 | PF >0.5 | 20.000 h | on/off >15.000 | 100% w<1s

~85% Energy Save

G → A↑G

Power	18W
Lumen	1260
Voltage	220-240 V
CRI	>80
Lighting angle	120°
Temperature	4000 K
Lifetime	20 000 H
ON/OFF	> 15 000
Lamp size	ø330 x 70 mm

HCL1804S

IP54

4000 K natural light

Microwave Sensor

IP 54

18W → 125W / 45W

1260 lumen | 120° | 220-240V 50-60 Hz | CRI(RA) >80 | PF >0.5 | 20.000 h | on/off >15.000 | 100% w<1s

~85% Energy Save

G → A↑G

Power	18W
Lumen	1260
Voltage	220-240 V
CRI	>80
Lighting angle	120°
Temperature	4000 K
Lifetime	20 000 H
ON/OFF	> 15 000
Lamp size	ø300 x 62 mm

HCL1802IP

*CRI (RA) >80

* współczynnik oddawania barw (ang. color rendering index). Zgodnie z dyrektywami Unii Europejskiej na jej terenie nie można używać źródeł światła o CRI mniejszym niż 80 w pomieszczeniach gdzie dłużej przebywa człowiek. Zbyt niskie CRI powoduje szybsze zmęczenie wzroku i ma negatywny wpływ na zdrowie.

E A↑G

4000 K natural light | cold light 6000 K

~85% Energy Save

Power	30W	30W
Lumen	3200	3200
Voltage	180-260 V	180-260 V
CRI	>80	>80
Lighting angle	100°	100°
Temperature	4000 K	6000 K
Lifetime	25 000 H	25 000 H
ON/OFF	> 12 500	> 12 500
Lamp size	ø330 x 53 mm	ø330 x 53 mm
	HCP3004N	HCP3004C

30W | 375W 98W | IP20 | 3200 lumen | 100° | 180-260V 50-60 Hz | CRI(RA) >80 | PF >0.9 | 25.000 h | on/off >12.500 | 100% w<1s

E A↑G

4000 K natural light | cold light 6000 K

~85% Energy Save

Power	30W	30W
Lumen	3200	3200
Voltage	180-260 V	180-260 V
CRI	>80	>80
Lighting angle	100°	100°
Temperature	4000 K	6000 K
Lifetime	25 000 H	25 000 H
ON/OFF	> 12 500	> 12 500
Lamp size	330x330x53 mm	330x330x53 mm
	HCP3014N	HCP3014C

30W | 375W 98W | IP20 | 3200 lumen | 100° | 180-260V 50-60 Hz | CRI(RA) >80 | PF >0.9 | 25.000 h | on/off >12.500 | 100% w<1s

Natynkowe oprawy zewnętrzne

IP65

3000 K warm light

~85% Energy Save

Power	15W
Lumen	1200
Voltage	220 - 240 V
CRI	>80
Lighting angle	120°
Temperature	3000 K
Lifetime	25 000 H
ON/OFF	> 12 500
Lamp size	ø167 x 62 mm

F A↑G

HBL1501

15W | 150W 39W | IP 65 | IK 08 | 1200 lumen | 120° | 220-240V 50-60 Hz | CRI(RA) >80 | PF >0.5 | 25.000 h | on/off >12.500 | 100% w<1s

IP65

3000 K warm light

~85% Energy Save

Power	15W
Lumen	1200
Voltage	220 - 240 V
CRI	>80
Lighting angle	120°
Temperature	3000 K
Lifetime	25 000 H
ON/OFF	> 12 500
Lamp size	220x120x65mm

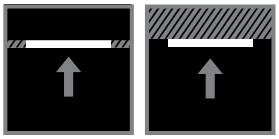
F A↑G

HBL1502

15W | 150W 39W | IP 65 | IK 08 | 1200 lumen | 120° | 220-240V 50-60 Hz | CRI(RA) >80 | PF >0.5 | 25.000 h | on/off >12.500 | 100% w<1s

*CRI (RA) >80

* współczynnik oddawania barw (ang. color rendering index). Zgodnie z dyrektywami Unii Europejskiej na jej terenie nie można używać źródeł światła o CRI mniejszym niż 80 w pomieszczeniach gdzie dłużej przebywa człowiek. Zbyt niskie CRI powoduje szybsze zmęczenie wzroku i ma negatywny wpływ na zdrowie.



Montaż w suficie podwieszanym

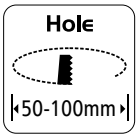
Montaż natynkowy

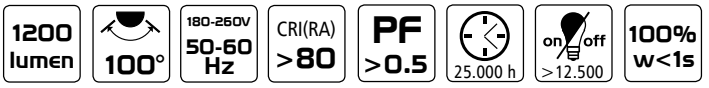
4000 K natural light cold light 6000 K

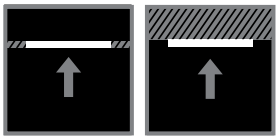
50-100mm

~85% Energy Save

Power	12W	12W
Lumen	1200	1200
Voltage	180-260 V	180-260 V
CRI	>80	>80
Lighting angle	100°	100°
Temperature	4000 K	6000 K
Lifetime	25 000 H	25 000 H
ON/OFF	> 12 500	> 12 500
Lamp size	ø166 x 18 mm	ø166 x 18 mm
	HDC12RN	HDC12RC







Montaż w suficie podwieszanym

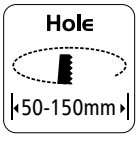
Montaż natynkowy

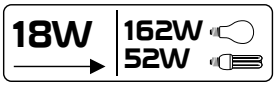
4000 K natural light cold light 6000 K

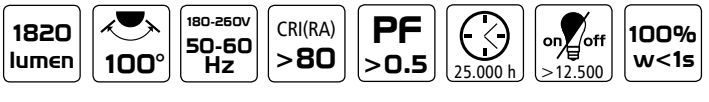
50-150mm

~85% Energy Save

Power	18W	18W
Lumen	1820	1820
Voltage	180-260 V	180-260 V
CRI	>80	>80
Lighting angle	100°	100°
Temperature	4000 K	6000 K
Lifetime	25 000 H	25 000 H
ON/OFF	> 12 500	> 12 500
Lamp size	ø220 x 18 mm	ø220 x 18 mm
	HDC18RN	HDC18RC







Oprawy wpuszczane

2700 K warm light

~85% Energy Save

Power	25W
Lumen	1800
Voltage	230 V
CRI	>80
Lighting angle	100°
Temperature	2700 K
Lifetime	25 000 H
ON/OFF	> 15 000
Lamp size	ø230 x 60 mm

HDW025

25W | 225W / 72W | IP 20 | IK 04

1800 lumen | 100° | 230V 50-60 Hz | CRI(RA) >80

PF >0.9 | 25.000 h | on/off >15.000 | 100% w<1s

Hole ø200mm

G (A↑G)

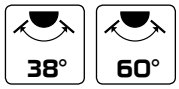
*CRI (RA) >80

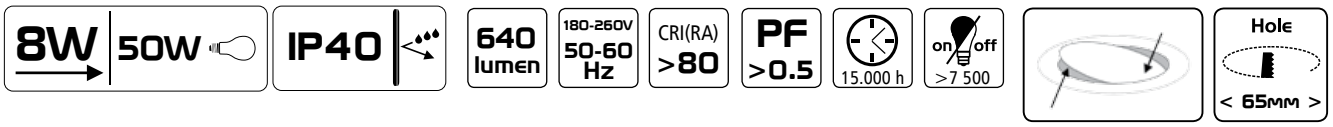
* współczynnik oddawania barw (ang. color rendering index). Zgodnie z dyrektywami Unii Europejskiej na jej terenie nie można używać źródeł światła o CRI mniejszym niż 80 w pomieszczeniach gdzie dłużej przebywa człowiek. Zbyt niskie CRI powoduje szybsze zmęczenie wzroku i ma negatywny wpływ na zdrowie.

~85% Energy Save

Power	8W => 50W
Voltage	180-260V
CRI	>80
Lifetime	15 000 H
ON/OFF	> 7 500
Lamp size	ø78x52 mm

	HDW083NN	HDW083MC
Lumen	640	640
Lighting angle	38°	60°
Temperature	4000 K	6500 K

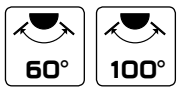


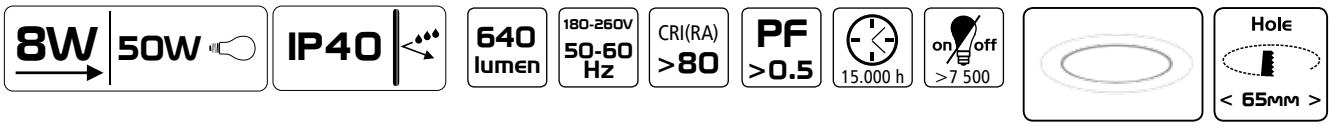


~85% Energy Save

Power	8W => 50W
Voltage	180-260V
CRI	>80
Lifetime	15 000 H
ON/OFF	> 7 500
Lamp size	ø78x52 mm

	HDW081MN	HDW081WN	HDW081MC	HDW081WC
Lumen	640	640	640	640
Lighting angle	60°	100°	60°	100°
Temperature	4000 K	4000 K	6500 K	6500 K





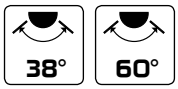
2 years Guarantee

Power – Moc / Base – Trzonek / Lumen – Strumień świetlny / Temperature – Temperatura barwowa / Voltage – Napięcie / Lighting angle – Kąt rozsyłu / Lifetime - Trwałość / Lamp size – Wymiary lampy

Power	8W => 50W
Voltage	180-260V
CRI	>80
Lifetime	15 000 H
ON/OFF	> 7 500
Lamp size	ø74x52 mm

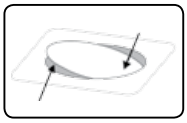
~85% Energy Save

	HDW084NN	HDW084MC
Lumen	640	640
Lighting angle	38°	60°
Temperature	4000 K	6500 K



F A↑G

8W 50W | IP40 | 640 lumen | 180-260V 50-60 Hz | CRI(RA) >80 | PF >0.5 | 15.000 h | on/off >7 500 | Hole < 65mm >

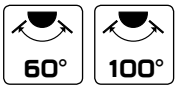


4000 K natural light

cold light 6000 K

Power	8W => 50W
Voltage	180-260V
CRI	>80
Lifetime	15 000 H
ON/OFF	> 7 500
Lamp size	ø74x52 mm

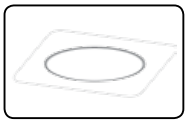
~85% Energy Save



	HDW082MN	HDW082WN	HDW082MC	HDW082WC
Lumen	640	640	640	640
Lighting angle	60°	100°	60°	100°
Temperature	4000 K	4000 K	6500 K	6500 K

F A↑G

8W 50W | IP40 | 640 lumen | 180-260V 50-60 Hz | CRI(RA) >80 | PF >0.5 | 15.000 h | on/off >7 500 | Hole < 65mm >



	warm light	natural light	cold light
Power	9W	9W	9W
Lumen	600	620	650
Voltage	180-260	180-260	180-260
CRI	>80	>80	>80
Lighting angle	120°	120°	120°
Temperature	3000 K	4000 K	6500 K
Lifetime	15 000 H	15 000 H	15 000 H
ON/OFF	> 7 500	> 7 500	> 7 500
Lamp size	ø146x25,5mm	ø146x25,5mm	ø146x25,5mm
Indeks	HDW09RW	HDW09RN	HDW09RC

9W | 81W 26W | IP40 | SURFACE MOUNTING FRAME HDWF15R | Hole < 130mm > | 600 LM HDW09RW | 620 LM HDW09RN | 650 LM HDW09RC | 180-260V 50-60 Hz | CRI(RA) >80 | PF >0.5 | 15.000 h | on/off >7 500

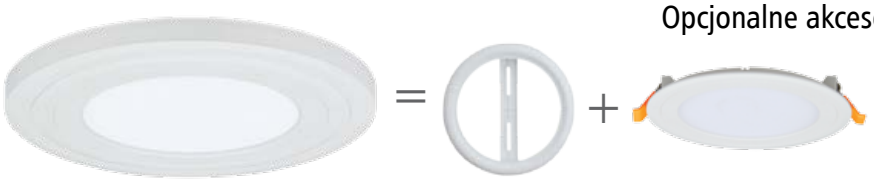
Power	12W	12W	12W
Lumen	800	850	900
Voltage	180-260	180-260	180-260
CRI	>80	>80	>80
Lighting angle	120°	120°	120°
Temperature	3000 K	4000 K	6500 K
Lifetime	15 000 H	15 000 H	15 000 H
ON/OFF	> 7 500	> 7 500	> 7 500
Lamp size	ø170x25,5mm	ø170x25,5mm	ø170x25,5mm
Indeks	HDW12RW	HDW12RN	HDW12RC

12W | 112W 36W | IP40 | SURFACE MOUNTING FRAME HDWF17R | Hole < 155mm > | 800 LM HDW12RW | 850 LM HDW12RN | 900 LM HDW12RC | 180-260V 50-60 Hz | CRI(RA) >80 | PF >0.5 | 15.000 h | on/off >7 500

Power	18W	18W	18W
Lumen	1260	1300	1350
Voltage	180-260	180-260	180-260
CRI	>80	>80	>80
Lighting angle	120°	120°	120°
Temperature	3000 K	4000 K	6500 K
Lifetime	15 000 H	15 000 H	15 000 H
ON/OFF	> 7 500	> 7 500	> 7 500
Lamp size	ø224x25,5mm	ø224x25,5mm	ø224x25,5mm
Indeks	HDW18RW	HDW18RN	HDW18RC

18W | 168W 54W | IP40 | SURFACE MOUNTING FRAME HDWF22R | Hole < 210mm > | 1260 LM HDW18RW | 1300 LM HDW18RN | 1350 LM HDW18RC | 180-260V 50-60 Hz | CRI(RA) >80 | PF >0.5 | 15.000 h | on/off >7 500

Optional accessories: surface mounting frames
Opcjonalne akcesoria: ramki do montażu natynkowego



HDWF15R 9W
HDWF17R 12W
HDWF22R 18W

LED Technology of saving

~85% Energy Save

	warm light	natural light	cold light
Power	9W	9W	9W
Lumen	600	620	650
Voltage	180-260	180-260	180-260
CRI	>80	>80	>80
Lighting angle	120°	120°	120°
Temperature	3000 K	4000 K	6500 K
Lifetime	15 000 H	15 000 H	15 000 H
ON/OFF	> 7 500	> 7 500	> 7 500
Lamp size	147x147x25.5mm	147x147x25.5mm	147x147x25.5mm
Indeks	HDW09SW	HDW09SN	HDW09SC

A↑G G

600 LM HDW09SW | 620 LM HDW09SN | 650 LM HDW09SC | 180-260V 50-60 Hz | CRI(RA) >80 | PF >0.5 | 15.000 h | on/off >7 500 | Hole < 130MM > | SURFACE MOUNTING FRAME HDWF15S | 9W → 81W 26W | IP40

Power	12W	12W	12W
Lumen	800	850	900
Voltage	180-260	180-260	180-260
CRI	>80	>80	>80
Lighting angle	120°	120°	120°
Temperature	3000 K	4000 K	6500 K
Lifetime	15 000 H	15 000 H	15 000 H
ON/OFF	> 7 500	> 7 500	> 7 500
Lamp size	201.5x201.5x25.5mm	201.5x201.5x25.5mm	201.5x201.5x25.5mm
Indeks	HDW12SW	HDW12SN	HDW12SC

A↑G G

800 LM HDW12SW | 850 LM HDW12SN | 900 LM HDW12SC | 180-260V 50-60 Hz | CRI(RA) >80 | PF >0.5 | 15.000 h | on/off >7 500 | Hole < 185MM > | SURFACE MOUNTING FRAME HDWF20S | 12W → 112W 36W | IP40

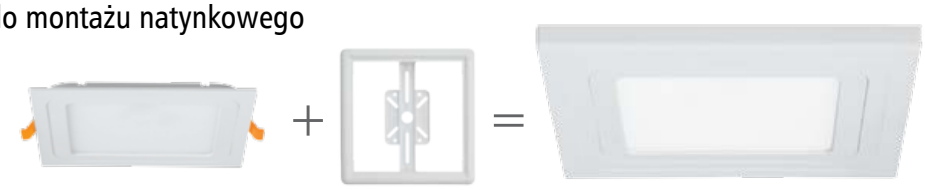
Power	18W	18W	18W
Lumen	1260	1300	1350
Voltage	180-260	180-260	180-260
CRI	>80	>80	>80
Lighting angle	120°	120°	120°
Temperature	3000 K	4000 K	6500 K
Lifetime	15 000 H	15 000 H	15 000 H
ON/OFF	> 7 500	> 7 500	> 7 500
Lamp size	201.5x201.5x25.5mm	201.5x201.5x25.5mm	201.5x201.5x25.5mm
Indeks	HDW18SW	HDW18SN	HDW18SC

A↑G G

1260 LM HDW18SW | 1300 LM HDW18SN | 1350 LM HDW18SC | 180-260V 50-60 Hz | CRI(RA) >80 | PF >0.5 | 15.000 h | on/off >7 500 | Hole < 185MM > | SURFACE MOUNTING FRAME HDWF20S | 18W → 168W 54W | IP40

Optional accessories: surface mounting frames
Opcjonalne akcesoria: ramki do montażu natynkowego

HDWF15S 9W
HDWF20S 12W 18W



*CRI (RA) >80

* współczynnik oddawania barw (ang. color rendering index). Zgodnie z dyrektywami Unii Europejskiej na jej terenie nie można używać źródeł światła o CRI mniejszym niż 80 w pomieszczeniach gdzie dłużej przebywa człowiek. Zbyt niskie CRI powoduje szybsze zmęczenie wzroku i ma negatywny wpływ na zdrowie.

4000 K natural light | cold light 6000 K

~85% Energy Save

F A↑G

10W | 60W | IP 65 | IK 08 | PF >0.9

10 kWh/1000h

Power	10W	10W
Lumen	800	800
Voltage	220 - 240 V	220 - 240 V
CRI	>70	>70
Lighting angle	120°	120°
Temperature	4000 K	6000 K
Lifetime	25 000 H	25 000 H
ON/OFF	> 15 000	> 15 000
Lamp size	78x60x42,9mm	78x60x42,9mm
	Indeks HFL110N	Indeks HFL110C

~85% Energy Save

F A↑G

20W | 120W | IP 65 | IK 08 | PF >0.9

Power	20W	20W
Lumen	1600	1600
Voltage	220 - 240 V	220 - 240 V
CRI	>70	>70
Lighting angle	120°	120°
Temperature	4000 K	6000 K
Lifetime	25 000 H	25 000 H
ON/OFF	> 15 000	> 15 000
Lamp size	112x76x43mm	112x76x43mm
	Indeks HFL120N	Indeks HFL120C

~85% Energy Save

F A↑G

30W | 180W | IP 65 | IK 08 | PF >0.9

30 kWh/1000h

Power	30W	30W
Lumen	2400	2400
Voltage	220 - 240 V	220 - 240 V
CRI	>70	>70
Lighting angle	120°	120°
Temperature	4000 K	6000 K
Lifetime	25 000 H	25 000 H
ON/OFF	> 15 000	> 15 000
Lamp size	143x95x43mm	143x95x43mm
	Indeks HFL130N	Indeks HFL130C

~85% Energy Save

F A↑G

50W | 300W | IP 65 | IK 08 | PF >0.9

50 kWh/1000h

Power	50W	50W
Lumen	4000	4000
Voltage	220 - 240 V	220 - 240 V
CRI	>70	>70
Lighting angle	120°	120°
Temperature	4000 K	6000 K
Lifetime	25 000 H	25 000 H
ON/OFF	> 15 000	> 15 000
Lamp size	185x140x43mm	185x140x43mm
	Indeks HFL150N	Indeks HFL150C

4000 K natural light | cold light 6000 K

~85% Energy Save

F A↑G

100W | 600W | IP 65 | IK 08 | PF >0.9

100 kWh/1000h

Power	100W	100W
Lumen	8000	8000
Voltage	220 - 240 V	220 - 240 V
CRI	>70	>70
Lighting angle	120°	120°
Temperature	4000 K	6000 K
Lifetime	25 000 H	25 000 H
ON/OFF	> 15 000	> 15 000
Lamp size	255x213x33mm	255x213x33mm
	Indeks **HFL910N**	Indeks **HFL910C**

PIR Sensor

~85% Energy Save

F A↑G

20W | 120W | IP 44 | IK 08 | PF >0.9

20 kWh/1000h

Power	20W	20W
Lumen	1600	1600
Voltage	220 - 240 V	220 - 240 V
CRI	>70	>70
Lighting angle	120°	120°
Temperature	4000 K	6000 K
Lifetime	25 000 H	25 000 H
ON/OFF	> 15 000	> 15 000
Lamp size	134x61x163mm	134x61x163mm
	Indeks **HFL120NS**	Indeks **HFL120CS**

PIR Sensor

~85% Energy Save

F A↑G

50W | 300W | IP 44 | IK 08 | PF >0.9

50 kWh/1000h

Power	50W	50W
Lumen	4000	4000
Voltage	220 - 240 V	220 - 240 V
CRI	>70	>70
Lighting angle	120°	120°
Temperature	4000 K	6000 K
Lifetime	25 000 H	25 000 H
ON/OFF	> 15 000	> 15 000
Lamp size	196x61x216mm	196x61x216mm
	Indeks **HFL150NS**	Indeks **HFL150CS**

IP65

3000 K warm light

~85% Energy Save

Power	20W
Lumen	1600
Voltage	180-260V
CRI	>80
Lighting angle	120°
Temperature	3000 K
Lifetime	15 000 H
ON/OFF	> 7 500
Lamp size	296x146x76 mm

HBL020S

20W | 200W / 52W | IP 65 | IK 08

PIR Sensor

1600 lumen | 120° | 180-260V 50-60 Hz | CRI(RA) >80

PF >0.5 | 15.000 h | on/off >7.500 | 100% <1s

F A↑G

IP65

3000 K warm light

~85% Energy Save

Power	20W
Lumen	1600
Voltage	180-260V
CRI	>80
Lighting angle	120°
Temperature	3000 K
Lifetime	15 000 H
ON/OFF	> 7 500
Lamp size	296x146x76 mm

HBL020

Zawiera zestaw liter i cyfr.
Contains set of letters and numbers.

20W | 200W / 52W | IP 65 | IK 08

1600 lumen | 120° | 180-260V 50-60 Hz | CRI(RA) >80 | PF >0.5 | 15.000 h | on/off >7.500 | 100% <1s

F A↑G

High Bay LED

cold light 5700 K

~50% Energy Save

Power	100W
Lumen	12 000
Voltage	175-265 V
CRI	>70
Lighting angle	120°
Temperature	5700 K
Lifetime	50 000 H
ON/OFF	> 25 000
Lamp size	ø 230 x 88 mm

HHB100

D (A↑G)

100W | IP 65 | IK 08

12000 lumen | 120° | 175-265V 50-60 Hz | CRI(RA) >70 | PF >0.9 | 50.000 h | on/off >25000 | 100% w<1s

cold light 5700 K

~50% Energy Save

Power	150W
Lumen	18 000
Voltage	175-265 V
CRI	>70
Lighting angle	120°
Temperature	5700 K
Lifetime	50 000 H
ON/OFF	> 25 000
Lamp size	ø 260 x 88 mm

HHB150

D (A↑G)

150W | IP 65 | IK 08 | 18000 lumen | 120° | 175-265V 50-60 Hz | CRI(RA) >70 | PF >0.9 | 50.000 h | on/off >25000 | 100% w<1s

*CRI (RA) >80

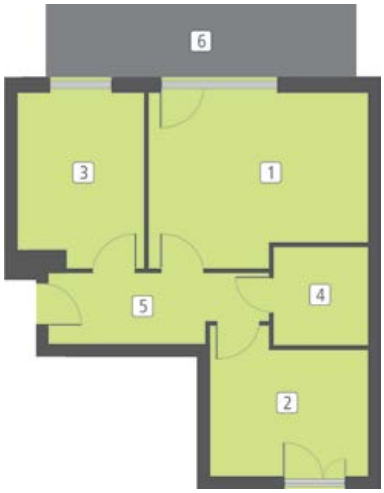
* współczynnik oddawania barw (ang. color rendering index). Zgodnie z dyrektywami Unii Europejskiej na jej terenie nie można używać źródeł światła o CRI mniejszym niż 80 w pomieszczeniach gdzie dłużej przebywa człowiek. Zbyt niskie CRI powoduje szybsze zmęczenie wzroku i ma negatywny wpływ na zdrowie.

LED Bulbs are pure profit

Źródła LED to czysty zysk

Return of investment after 3 months.
Saves at least 85% energy.
Several dozens times longer lifetime.

Koszt zakupu zwraca się po około 3 miesiącach.
Zużycie energii na oświetlenie zmniejsza się o około 85%.
Pracują kilkadziesiąt razy dłużej niż zwykła żarówka.



Example: Savings calculation for standard flat after replacing incandescent bulbs with LED bulbs.
Przykład: wyliczenie oszczędności dla standardowego mieszkania po zastosowaniu źródeł LED zamiast tradycyjnych żarówek.

1 Living room / Salon
2 Bedroom / Sypialnia
3 Kitchen / Kuchnia
4 Bathroom / Łazienka
5 Corridor / Hol
6 Balcony / Balkon

Lifetime of standard bulb: 1000h
Lifetime of LED bulb: 25 000h
Return of investment in the LED: 3 months.

Trwałość źródła żarowego: 1000h
Trwałość źródła LED: 25 000h
Czas zwrotu inwestycji związanej z wymianą źródeł tradycyjnych na LED: 3 miesiące.

LED light sources features 25 times longer lifetime compared with standard incandescent bulbs.
Długość życia źródła LED jest około 30 razy dłuższa niż źródła żarowego.

	Standard incadescent bulbs Standardowe źródło żarowe				Average turn-on time (h/day) Średnie zużycie energii (h/dobę)		LED Bulbs Źródła LED			
	100W E27	75W E27	60W E27	40W E14			15W E27	12W E27	10W E27	6W E14
Living room / Salon				6	8					6
Bedroom / Sypialnia			3	2	5				3	2
Kitchen / Kuchnia	1			5	7		1			5
Bathroom / Łazienka			2	2	4				2	2
Corridor / Hol		1		5	7			1		5
Balcony / Balkon				1	2					1
Bulbs quantity / Ilość źródeł	1	1	5	21	Power summary (W) / Suma mocy (W)		1	1	5	21
Power consumption / Pobór mocy	100	75	300	840	1350	200	15	12	50	126

Present energy consumption per year		Obecne roczne zużycie energii:	**2640 kWh**
Future energy consumption		Przyszłe zużycie energii w roku:	**402**
Saved energy		Oszczędność na zużyciu energii:	**2238 kWh**

85% Energy save !

85% Procentowy zysk na oszczędności energii !

Light sources comparison

Tabela porównawcza źródeł światła

Traditional bulb
Żarówka tradycyjna

Halogen bulb
Żarówka halogenowa

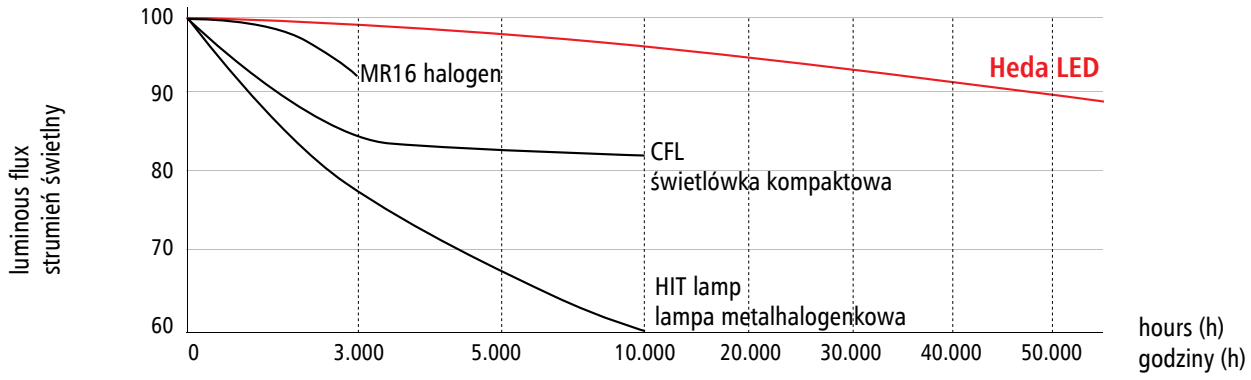
Compact fluorescent lamp
Świetlówka kompaktowa

LED bulb HEDA HD101
Źródło światła LED np. HEDA HD101

Power consumption	60W	50W -> 60W	14W -> 60W	**10W -> 60W**
Luminous flux	800lm	800lm	800lm	**806lm**
Reduction of power consumption	0%	17%	77%	**85%**
Lifetime	1 000h	2 000h	10 000h	**25 000h**
Contains mercury	no	no	yes	**no**
Shock resistance	very low	low	low	**high**
Reduction of costs	none	low	high	**very high**

Pobór mocy	60W	50W -> 60W	14W -> 60W	**10W -> 60W**
Strumień świetlny	800lm	800lm	800lm	**806lm**
Redukcja zużycia energii	0%	17%	77%	**85%**
Trwałość	1 000h	2 000h	10 000h	**25 000h**
Zawiera rtęć	nie	nie	tak	**nie**
Odporność na wstrząsy	bardzo niska	niska	niska	**wysoka**
Redukcja kosztów użytkowania	brak	mała	duża	**bardzo duża**

Luminous flux maintenance during lifetime
Dane porównawcze dotyczące utrzymania strumienia świetlnego w czasie



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