

# LED

## Flat panel lighting and accessories



5 Sizes (mm) – (295x295) (295x595) (295x1195) (595x595) (595x1195)

6 Power options – (10W) (20W) (40W) (45W) (50W) (80W)

Warm white (3000K) / Natural white (4000K) / Cool white (6000K)

Dimming (1-10V) + Non dimming drivers

Plug in emergency kits – Standard, Self test and Dali

Single bin LED Technology – Guaranteed colour consistency



- Latest technology
- Energy saving
- Ultra long life
- No lamps
- No Mercury

- Ultra efficient
- Clean design
- Excellent light distribution
- No UV light
- Ultra low heat

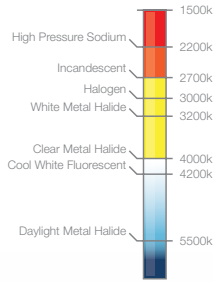


- ✓ Full photometric reports
- ✓ Full colour reports
- ✓ Full technical data sheets

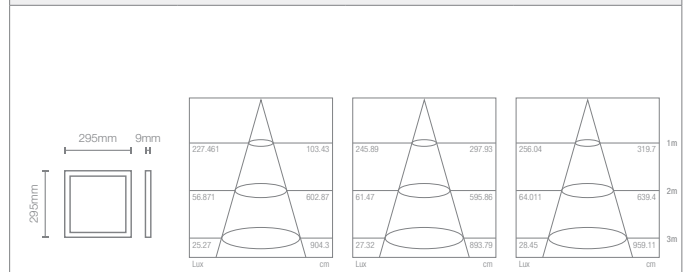
- ✓ IES files
- ✓ Superior colour consistency
- ✓ Independently tested

# Why Choose Optoma LED Panels.

- Established for over 15 years.
- True Colour Consistency.  
Products with the same colour temperature will have the same light. Unlike other manufacturers who forget to tell you about variations in the colour between products, even with the same part number.
- Advanced edge lit technology allowing a product thickness of only 9mm.
- Stocked and supported from UK HQ and warehouse in Watford.
- Three year warranty on all parts.
- Modular design, with panels, drivers, emergency kits and accessories packed separately in fully recyclable packaging.



## Panels



MODEL NAME	FP3030W010-1	FP3030N010-1	FP3030C010-1
System Power rating	10 Watts	10 Watts	10 Watts
Typical Circuit Watts	10 Watts	10 Watts	10 Watts
Colour temp.	3000K - Warm	4000K - Natural	6000K - Cool
Typical Lumen output	640 lms	700 lms	800 lms
Lumens per Watt	65 lms/Watt	70 lms/Watt	74 lms/Watt
CRI	80 ±2	80 ±2	80 ±2
Uniformity	80% +	80% +	80% +
Power Factor with Driver	0.9 +	0.9 +	0.9 +
Panel IP Rating	IP20	IP20	IP20
Typical ambient operating temp.	25°C	25°C	25°C
Max operating temp.	50°C	50°C	50°C
Lifetime	40,000+ Hours	40,000+ Hours	40,000+ Hours
Panel - Volts	24-28V	24-28V	24-28V
Panel - Amps	DC 350mA	DC 350mA	DC 350mA
Driver (Non Dimming)	PCS010-035-1	PCS010-035-1	PCS010-035-1
Driver (Dimming)	PCM010-035-1	PCM010-035-1	PCM010-035-1

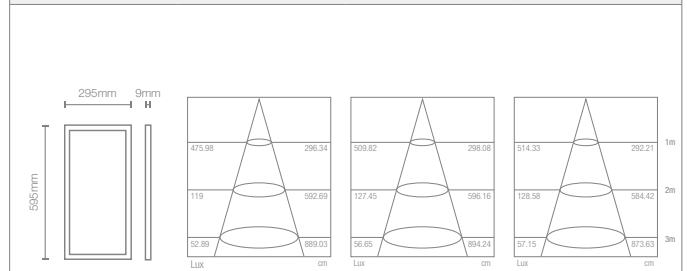
## Standard Drivers

MODEL NAME	PCS010-035-1	PCS020-060-1	PCS045-120-1	PCS055-150-1
Power	10 Watts	20 Watts	45 Watts	55 Watts
Type	Constant Current	Constant Current	Constant Current	Constant Current
Control	Switch	Switch	Switch	Switch
Input	100VAC~277VAC	100VAC~277VAC	100VAC~277VAC	100VAC~277VAC
Output	28V / 350mA	36V / 600mA	36V / 1200mA	36V / 1500mA
Connection	AC DC pre wired	AC DC pre wired	AC DC pre wired	AC DC pre wired
Power Factor	0.9+	0.9+	0.9+	0.9+
Efficiency	82%	82%	86%	88%

## Dimming Drivers

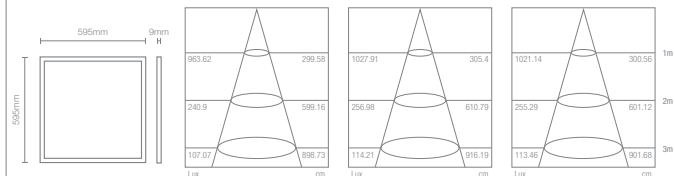
MODEL NAME	PCM010-035-1	PCM020-060-1	PCM045-120-1	PCM055-150-1
Power	10 Watts	20 Watts	45 Watts	55 Watts
Type	Constant Current	Constant Current	Constant Current	Constant Current
Control	1~10v Dimming	1~10v Dimming	1~10v Dimming	1~10v Dimming
Input	100VAC~277VAC	100VAC~277VAC	100VAC~277VAC	100VAC~277VAC
Output	28V / 350mA	36V / 600mA	36V / 1200mA	36V / 1500mA
Connection	AC DC pre wired	AC DC pre wired	AC DC pre wired	AC DC pre wired
Power Factor	0.9+	0.9+	0.9+	0.9+
Efficiency	82%	82%	88%	88%

## Panels



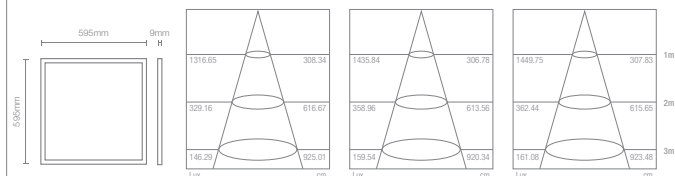
MODEL NAME	FP3060W020-1	FP3060N020-1	FP3060C020-1
System Power rating	20 Watts	20 Watts	20 Watts
Typical Circuit Watts	20Watts	20 Watts	20 Watts
Colour temp.	3000K - Warm	4000K - Natural	6000K - Cool
Typical Lumen output	1300 lms	1450 lms	1450 lms
Lumens per Watt	67 lms/Watt	72 lms/Watt	72 lms/Watt
CRI	80 ±2	80 ±2	80 ±2
Uniformity	80% +	80% +	80% +
Power Factor with Driver	0.9 +	0.9 +	0.9 +
Panel IP Rating	IP20	IP20	IP20
Typical ambient operating temp.	25°C	25°C	25°C
Max operating temp.	50°C	50°C	50°C
Lifetime	40,000+ Hours	40,000+ Hours	40,000+ Hours
Panel - Volts	24-36V	24-36V	24-36V
Panel - Amps	DC 600mA	DC 600mA	DC 600mA
Driver (Non Dimming)	PCS020-060-1	PCS020-060-1	PCS020-060-1
Driver (Dimming)	PCM020-060-1	PCM020-060-1	PCM020-060-1

Panels



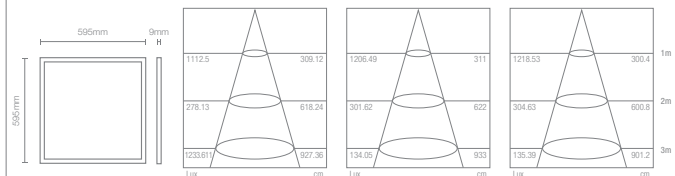
MODEL NAME	FP6060W040-1	FP6060N040-1	FP6060C040-1
System Power rating	40 Watts	40 Watts	40 Watts
Typical Circuit Watts	37 Watts	37 Watts	37 Watts
Colour temp.	3000K - Warm	4000K - Natural	6000K - Cool
Typical Lumen output	2700 lms	3000 lms	2900 lms
Lumens per Watt	74 lms/Watt	79 lms/Watt	78 lms/Watt
CRI	80 ±2	80 ±2	80 ±2
Uniformity	80% +	80% +	80% +
Power Factor with Driver	0.9 +	0.9 +	0.9 +
Panel IP Rating	IP20	IP20	IP20
Typical ambient operating temp.	25°C	25°C	25°C
Max operating temp.	50°C	50°C	50°C
Lifetime	40,000+ Hours	40,000+ Hours	40,000+ Hours
Panel - Volts	24-36V	24-36V	24-36V
Panel - Amps	DC 1200mA	DC 1200mA	DC 1200mA
Driver (Non Dimming)	PCS045-120-1	PCS045-120-1	PCS045-120-1
Driver (Dimming)	PCM045-120-1	PCM045-120-1	PCM045-120-1

Panels



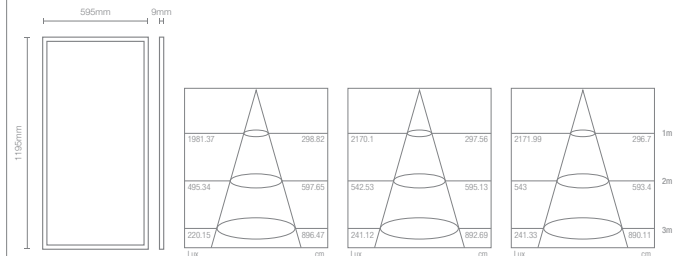
MODEL NAME	FP6060W055-1	FP6060N055-1	FP6060C055-1
System Power rating	55 Watts	55 Watts	55 Watts
Typical Circuit Watts	50 Watts	50 Watts	50 Watts
Colour temp.	3000K - Warm	4000K - Natural	6000K - Cool
Typical Lumen output	3800 lms	4100 lms	4100 lms
Lumens per Watt	76 lms/Watt	84 lms/Watt	84 lms/Watt
CRI	80 ±2	80 ±2	80 ±2
Uniformity	80% +	80% +	80% +
Power Factor with Driver	0.9 +	0.9 +	0.9 +
Panel IP Rating	IP20	IP20	IP20
Typical ambient operating temp.	25°C	25°C	25°C
Max operating temp.	50°C	50°C	50°C
Lifetime	40,000+ Hours	40,000+ Hours	40,000+ Hours
Panel - Volts	24-36V	24-36V /	24-36V /
Panel - Amps	DC 1500mA	DC 1500mA	DC 1500mA
Driver (Non Dimming)	PCS055-150-1	PCS055-150-1	PCS055-150-1
Driver (Dimming)	PCM055-150-1	PCM055-150-1	PCM055-150-1

Panels



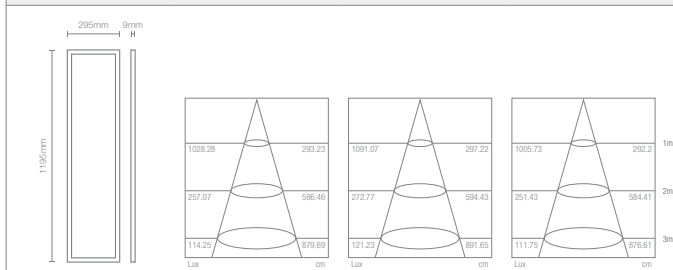
MODEL NAME	FP6060W045-1	FP6060N045-1	FP6060C045-1
System Power rating	45 Watts	45 Watts	45 Watts
Typical Circuit Watts	40 Watts	40 Watts	40 Watts
Colour temp.	3000K - Warm	4000K - Natural	6000K - Cool
Typical Lumen output	3200 lms	3500 lms	3500 lms
Lumens per Watt	81 lms/Watt	88 lms/Watt	86 lms/Watt
CRI	80 ±2	80 ±2	80 ±2
Uniformity	80% +	80% +	80% +
Power Factor with Driver	0.9 +	0.9 +	0.9 +
Panel IP Rating	IP20	IP20	IP20
Typical ambient operating temp.	25°C	25°C	25°C
Max operating temp.	50°C	50°C	50°C
Lifetime	40,000+ Hours	40,000+ Hours	40,000+ Hours
Panel - Volts	24-36V	24-36V	24-36V
Panel - Amps	DC 1200mA	DC 1200mA	DC 1200mA
Driver (Non Dimming)	PCS045-120-1	PCS045-120-1	PCS045-120-1
Driver (Dimming)	PCM045-120-1	PCM045-120-1	PCM045-120-1

Panels



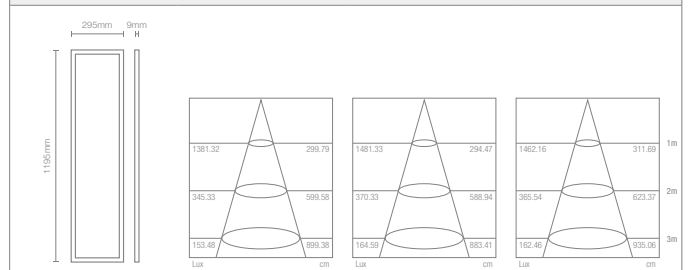
MODEL NAME	FP6012W080-1	FP6012N080-1	FP6012C080-1
System Power rating	80 Watts	80 Watts	80 Watts
Typical Circuit Watts	74 Watts	74 Watts	74 Watts
Colour temp.	3000K - Warm	4000K - Natural	6000K - Cool
Typical Lumen output	5600 lms	6100 lms	6100 lms
Lumens per Watt	76 lms/Watt	83 lms/Watt	83 lms/Watt
CRI	80 ±2	80 ±2	80 ±2
Uniformity	80% +	80% +	80% +
Power Factor with Driver	0.9 +	0.9 +	0.9 +
Panel IP Rating	IP20	IP20	IP20
Typical ambient operating temp.	25°C	25°C	25°C
Max operating temp.	50°C	50°C	50°C
Lifetime	40,000+ Hours	40,000+ Hours	40,000+ Hours
Panel - Volts	24-36V	24-36V	24-36V
Panel - Amps	DC 1200mA	DC 1200mA	DC 1200mA
Driver (Non Dimming)	PCS045-120-1 (x 2)	PCS045-120-1 (x 2)	PCS045-120-1 (x 2)
Driver (Dimming)	PCM045-120-1 (x 2)	PCM045-120-1 (x 2)	PCM045-120-1 (x 2)

### Panels



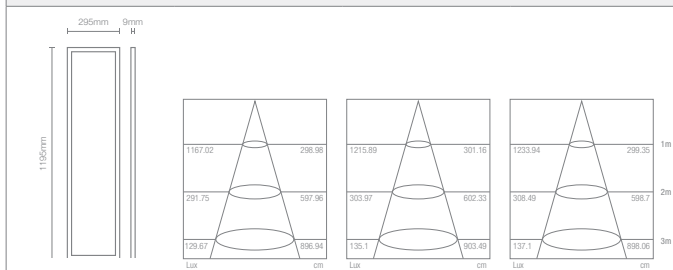
MODEL NAME	FP3012W040-1	FP3012N040-1	FP3012C040-1
<b>System Power rating</b>	40 Watts	40 Watts	40 Watts
<b>Typical Circuit Watts</b>	37 Watts	37 Watts	37 Watts
<b>Colour temp.</b>	3000K - Warm	4000K - Natural	6000K - Cool
<b>Typical Lumen output</b>	3000 lms	3000 lms	2800 lms
<b>Lumens per Watt</b>	78 lms/Watt	83 lms/Watt	76 lms/Watt
<b>CRI</b>	80 ±2	80 ±2	80 ±2
<b>Uniformity</b>	80% +	80% +	80% +
<b>Power Factor with Driver</b>	0.9 +	0.9 +	0.9 +
<b>Panel IP Rating</b>	IP20	IP20	IP20
<b>Typical ambient operating temp.</b>	25°C	25°C	25°C
<b>Max operating temp.</b>	50°C	50°C	50°C
<b>Lifetime</b>	40,000+ Hours	40,000+ Hours	40,000+ Hours
<b>Panel - Volts</b>	24-36V	24-36V	24-36V
<b>Panel - Amps</b>	DC 1200mA	DC 1200mA	DC 1200mA
<b>Driver (Non Dimming)</b>	PCS045-120-1	PCS045-120-1	PCS045-120-1
<b>Driver (Dimming)</b>	PCM045-120-1	PCM045-120-1	PCM045-120-1

### Panels






MODEL NAME	FP3012W055-1	FP3012N055-1	FP3012C055-1
<b>System Power rating</b>	55 Watts	55 Watts	55 Watts
<b>Typical Circuit Watts</b>	50 Watts	50 Watts	50 Watts
<b>Colour temp.</b>	3000K - Warm	4000K - Natural	6000K - Cool
<b>Typical Lumen output</b>	3900 lms	4100 lms	4200 lms
<b>Lumens per Watt</b>	78 lms/Watt	73 lms/Watt	85 lms/Watt
<b>CRI</b>	80 ±2	80 ±2	80 ±2
<b>Uniformity</b>	80% +	80% +	80% +
<b>Power Factor with Driver</b>	0.9 +	0.9 +	0.9 +
<b>Panel IP Rating</b>	IP20	IP20	IP20
<b>Typical ambient operating temp.</b>	25°C	25°C	25°C
<b>Max operating temp.</b>	50°C	50°C	50°C
<b>Lifetime</b>	40,000+ Hours	40,000+ Hours	40,000+ Hours
<b>Panel - Volts</b>	24-36V	24-36V /	24-36V /
<b>Panel - Amps</b>	DC 1500mA	DC 1500mA	DC 1500mA
<b>Driver (Non Dimming)</b>	PCS055-150-1	PCS055-150-1	PCS055-150-1
<b>Driver (Dimming)</b>	PCM055-150-1	PCM055-150-1	PCM055-150-1

### Panels



MODEL NAME	FP3012W045-1	FP3012N045-1	FP3012C045-1
<b>System Power rating</b>	45 Watts	45 Watts	45 Watts
<b>Typical Circuit Watts</b>	40 Watts	40 Watts	40 Watts
<b>Colour temp.</b>	3000K - Warm	4000K - Natural	6000K - Cool
<b>Typical Lumen output</b>	3200 lms	3400 lms	3400 lms
<b>Lumens per Watt</b>	82 lms/Watt	85 lms/Watt	86 lms/Watt
<b>CRI</b>	80 ±2	80 ±2	80 ±2
<b>Uniformity</b>	80% +	80% +	80% +
<b>Power Factor with Driver</b>	0.9 +	0.9 +	0.9 +
<b>Panel IP Rating</b>	IP20	IP20	IP20
<b>Typical ambient operating temp.</b>	25°C	25°C	25°C
<b>Max operating temp.</b>	50°C	50°C	50°C
<b>Lifetime</b>	40,000+ Hours	40,000+ Hours	40,000+ Hours
<b>Panel - Volts</b>	24-36V	24-36V	24-36V
<b>Panel - Amps</b>	DC 1200mA	DC 1200mA	DC 1200mA
<b>Driver (Non Dimming)</b>	PCS045-120-1	PCS045-120-1	PCS045-120-1
<b>Driver (Dimming)</b>	PCM045-120-1	PCM045-120-1	PCM045-120-1

### Emergency kits

			
<b>MODEL NAME</b>	EKN047-32-S	EKN047-32-T	EKN047-32-D
<b>For panel type</b>	All Panels	All Panels	All Panels
<b>Type</b>	3 Hour Emergency	3 Hour Emergency	3 Hour Emergency
<b>Control</b>	Standard	Self Test	Dali
<b>Input</b>	230VAC~240VAC	230VAC~240VAC	230VAC~240VAC
<b>Features</b>	Quick Connection	Quick Connection	Quick Connection
<b>Battery</b>	NiCd D Cell	NiCd D Cell	NiCd D Cell
<b>BLF 10 Watt Panel</b>	30%	30%	30%
<b>BLF 20 Watt Panel</b>	15%	15%	15%
<b>BLF 40 Watt Panel</b>	8%	8%	8%
<b>BLF 55 Watt Panel</b>	5.5%	5.5%	5.5%
<b>BLF 80 Watt Panel</b>	4% or 8%	4% or 8%	4% or 8%

### Accessories

					
<b>Part Number</b>	ACH002-CSC-1	ACM001-AAS-1	ACM002-AAS-1	ACW001-002-1	ACW002-001-1
<b>Accessory</b>	Hanging kit	Short Brackets	Long Brackets	DC Extension	DC Extension
<b>Function</b>	Pendant	Surface mount	Surface mount	Remote Driver	Remote Driver
<b>Details</b>	4 wires	Hidden Driver	Hidden Driver	2000mm	2000mm



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