

CW178 Series

Ceiling Mounted & Wall Mounted

Microwave Adjustable Sensor Options













37 Chelmsford Street Williamstown North VIC 3016 Australia enquiries@greenlux.com.au WWW.greenlux.com.au

info@greenlux.com.au

T 1300 650 625

Commercial Lighting











Technical Data Sheet

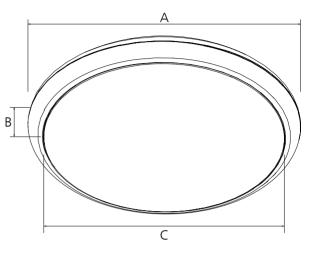
Code No.			CW178-10-12W	CW178-12-18	CW178-12-25	CW178-16-25	CW178-16-30W	
Dimension(mm)			Ø250*70	Ø30	0*70	Ø400*79		
Cutout (mm)					-	1		
Watt(W)			12W	18W	25W	25W	30W	
Rated Input Vol	tage(V)				AC220-240V	1	1	
Input Voltage(V)				AC230V			
LED Module Inp	out				-			
Light Source					SMD2835			
SDCM					≤6			
CCT(K)				1-CCT:3000K/4000K	/5000K/5700K 3-CCT	3000K/4000K/5700K		
CCT Selection D	IP Switch				YES			
	Non-DIM	1-CCT	1210-1320	1830-2020	2470-2650	2480-2650	2900-3160	
Luminous Flux	DIM	- I-CCI	1190-1300	1820-1980	-	2380-2620	2830-3140	
(lm) ±5%	Non-DIM	- 3-CCT	1220-1350	1850-2030	2450-2670	2400-2750	2950-3350	
	DIM	- 3-CCI	1190-1330	1840-2020	-	2380-2700	2850-3300	
CRI			80, 90					
Beam Angle (°)			120°					
UGR			-					
LED Driver			Built-in					
Dimming Optic	on		Triac Triac / DALI DALI Triac / DALI					
Sensor			YES(Daylight & Microwave Sensor)					
Emergency Kits			NO					
Electrical Class			Class II					
Ingress Protectio	on (IP Rating)		IP65					
Impact Resistan	ce (IK Rating)		ІКОб					
Product Finishin	g(Base)		White RAL 9016					
Materials of Op	tics		PC					
Materials of Ho	using		PC					
Lifetime (hr)			50,000hr					
Glow wire test ((°C)				750°C			
Operating Temp	o. (°C)				-20°C~45°C			
Storage Temp. (°C)				-20°C ~60°C			
Installation			Surface mount / Wall Mount					

Measurement

Code	Dime	Size(mm)		
Code	А	В	С	Size(mm)
CW178-10-12W	Ø250	70	Ø213	Ø250*70
CW178-12-25W	Ø300	70	Ø267.7	Ø300*70
CW178-16-30W	Ø400	79	Ø362.2	Ø400*79

Driver Datasheet(Non-dimmable)

Τά	otal load wattage	12W	18W	25W	30W		
	Output Voltage range	DC60-75V					
	Rated output current	160mA	240mA	320mA	390mA		
Dutput	Line Regulation		±5	%			
	Setup, Rise Time		<0.55(@230V			
	Flickering Index		<3% (N	O RISK)			
	Input Voltage		AC200	-240V			
	Rated Input Voltage(V)		AC2	30V			
	Frequency	50/60HZ					
	Input Current	0.07A	0.1A	0.14A	0.17A		
nput	Rated Input Current	0.06A	0.09A	0.13A	0.15A		
	Power Factor	0.9					
	THD		-	<20% @230V			
	Efficiency	≥85%					
	No load wattage	<0.5W					
	Short circuit protection	PASS					
rotection	Over voltage protection	PASS					
	Over temperature protection	PASS					
	Withstand voltage						
	Isolation Resistance						
afety &EMC	Surge	IEC/EN61000-4-5(P<25W; L-N:500V)	IEC/EN61000-4-5(P<25W; L-N:1000V)			
	EMC Emission		EN55015, EN	N61000-3-2			
	EMC Immunity		EN61000-4-2,3,4,5	5,6,8,11; EN61547			



Driver Datasheet(Triac Dimmable)

т	otal load wattage	12W	18W	25W	30W		
	Output Voltage range	65-75V					
	Rated output current	140mA	230mA	320mA	370mA		
Output	Line Regulation		±5	5%			
o a tp a t	Setup, Rise Time		<0.55(D230V			
	Flickering Index		<5% (LC	OW RISK)			
	Input Voltage		AC200	-240V			
	Rated Input Voltage(V)		AC2	30V			
	Frequency	50HZ					
	Input Current	≤0.07A	≤0.1A	≤0.14A	≤0.17A		
Input	Rated Input Current	≤0.06A	≤0.09A	≤0.13A	≤0.15A		
mput	Power Factor	0.9					
	THD	-		<20% @230V			
	Efficiency	≥81%		≥84%			
	No load wattage		≤1	W			
	Short circuit protection	PASS					
Protection	Over voltage protection	PASS					
	Over temperature protection	PASS					
	Withstand voltage		-	-			
	Isolation Resistance						
Safety &EMC	Surge	L-N:C).5KV	L-N:1KV			
	EMC Emission		EN55015, E	N61000-3-2			
	EMC Immunity		EN61000-4-2,3,4,5	5,6,8,11; EN61547			

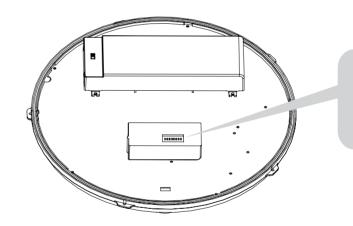
Driver Datasheet (Sensor)

Sensor datasheet							
Operating Voltage	220-240VAC 50/60Hz						
Power consumption	1.5W±0.5W						
Microwave frequency	5.8GHz±75MHz, ISM wave band						
Transmission power	<0.5mW						
Detection angle	140°						
Detection Area	4-6M 100%/75%/50%/25%						
Hold time	5S/30S/90S/5Min/20Min/30Min						
Daylight sensor	2lux/10lux/30lux/50lux/Disable						
Stand-by DIM Level	-						
Stand-by Period	-						
Dimming Range	-						
Microwave ON/OFF function	-						
Installation Height	Recommended Installation Height: Wall mounted height 1.8m. Ceiling mounted height 3m.						
Operating temperature(°C)	recommended mounting distance should be more than 3m						
	-20°C~60°C						

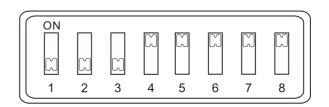
Daylight & Microwave Sensor

Driver Datasheet(DALI Dimmable)

Te	otal load wattage	18W	25W	30W			
	Output Voltage range		30-40V				
	Rated output current	450mA	650mA	750mA			
Output	Line Regulation		±5%				
	Setup, Rise Time		<1S@230V				
	Flickering Index		<1% (NO RISK)				
	Input Voltage		180-264V				
	Rated Input Voltage(V)	200-240V					
	Frequency		50/60HZ				
	Input Current	≤0.12A	≤0.16A	≤0.19A			
Input	Rated Input Current	≤0.11A	≤0.14A	≤0.17A			
	Power Factor	0.9					
	THD		<20% @230V				
	Efficiency	85%					
	No load wattage	<0.5W					
	Short circuit protection	PASS					
Protection	Over voltage protection	PASS					
	Over temperature protection	PASS					
	Withstand voltage	l/P-O/P:3.75KVac, <5mA 60S					
	Isolation Resistance		I/P-O/P: 500VDC, \geq 4M Ω				
Safety &EMC	Surge	IEC/EN61000-4-5(P<25W; L-N: 500V)	IEC/EN61000-4-5	(P≥25w L-N:1KV)			
	EMC Emission		EN55015, EN61000-3-2				
	EMC Immunity	EN61000-4-2,3,4,5,6,8,11; EN61547					



Factory setting



ON DIP ☐ ☐ ☐ ☐ ☐ ☐ ☐ 1 2 3 4 5 6 78 **— 1** 2 3 **— 1** 2

	۵)ayligi	ht Sen	sor		Hold Time			Detection Area		
ON	1	2	3		4	5	6		7	8	
ā	ON	ON	ON	2Lux	ON	ON	ON	5S	ON	ON	100%
ш	ON	ON	-	10Lux	-	ON	ON	30S	-	ON	75%
	-	ON	-	30Lux	ON	-	ON	90S	ON	-	50%
	ON	-	-	50Lux	-	-	ON	5min	-	-	25%
	-	-	-	Disable	ON	ON	-	20min			
					-	-	-	30min			

Factory settings							
Daylight Sensor	Hold Time	Detection Area					
Disable	55	100%					

Sensor Setting

	Daylight Sensor								
	1	2	3						
Ι	ON	ON	ON	2Lux					
II	ON	ON	-	10Lux					
111	-	ON	-	30Lux					
IV	ON	-	-	50Lux					
V	-	-	-	Disable*					

	Hold Time								
	4	5	6						
Ι	ON	ON	ON	5S					
II	-	ON	ON	30S					
III	ON	-	ON	90S					
IV	-	-	ON	5min					
V	ON	ON	-	20min					
VI	-	-	-	30min					

·							
Detection Area							
7 8							
Ι	ON	ON	100%				
II	II -		75%				
III	ON	-	50%				
IV	-	-	25%				

Daylight sensor:

Notice 1: The light threshold can be selected through the slide switch, it may cause a large deviation in different lamps.

Hold time:

Notice 1: The hold time can be selected by the slide switch.

The hold time counting should be started after the sensor is powered on and initialized.

Detection area:

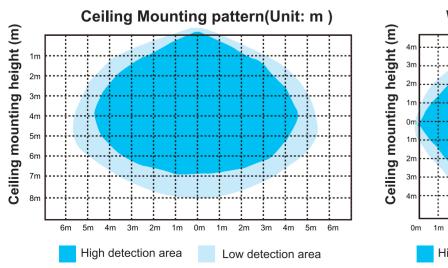
Sensor test condition: The test is based on 3m height, the detect distance radius is based on ground, the detect distance can be adjusted through the slide switch.

Sensor test environment and reference: The detective range is measured by human body whose stature is around 1.6-1.7M with medium size and traveling speed is around 1.0-1.5M per second. If the stature, bodily form and traveling speed are changed, then the detective range will be changed accordingly.

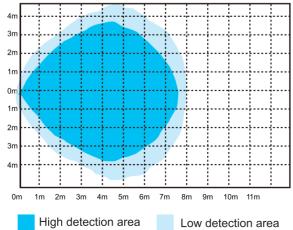
Sensor lamp's reaction under open/narrow environment: Test result will be highly influenced by test environment, the more open environment, the closer detect distance; the narrower environment, the longer detect distance. The detector may do self-excitation in a narrow environment.

Sensor Setting based on environmental disturbance: Some environmental disturbances will cause abnormal induction, such as the lamp can not automatically turn off for a long time or the sensor function is invalid, then users can adjust sensor distance to reach the ideal effect. It is recommended to adjust the sensing distance to 50% for the environment where near the heavy equipment, metal sheets and metal pipes, concretewall(<30cm thickness)etc.Recommend to keep 100%sensordistance in open environment. For environment where near the routers, telecommunications base stations, electrical machinery etc, it is recommended to keep the installation distance of more than 5 meters and adjust to 50% sensor distance.

Induction Range



Wall Mounting pattern(Unit: m)



Function Table

Function Table	CW178-10-12	CW178-12-18	CW178-12-25	CW178-16-25	CW178-16-30W
Non-dim			\checkmark		
Non-dim +CCT Switchable			\checkmark		\checkmark
Triac Dim					\checkmark
Triac Dim + CCT Switchable	\checkmark				\checkmark
Sensor			\checkmark		
Sensor + CCT Switchable			\checkmark		\checkmark
DALI Dim	-		\checkmark		\checkmark
DALI + CCT Switchable	-	\checkmark	\checkmark		\checkmark



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