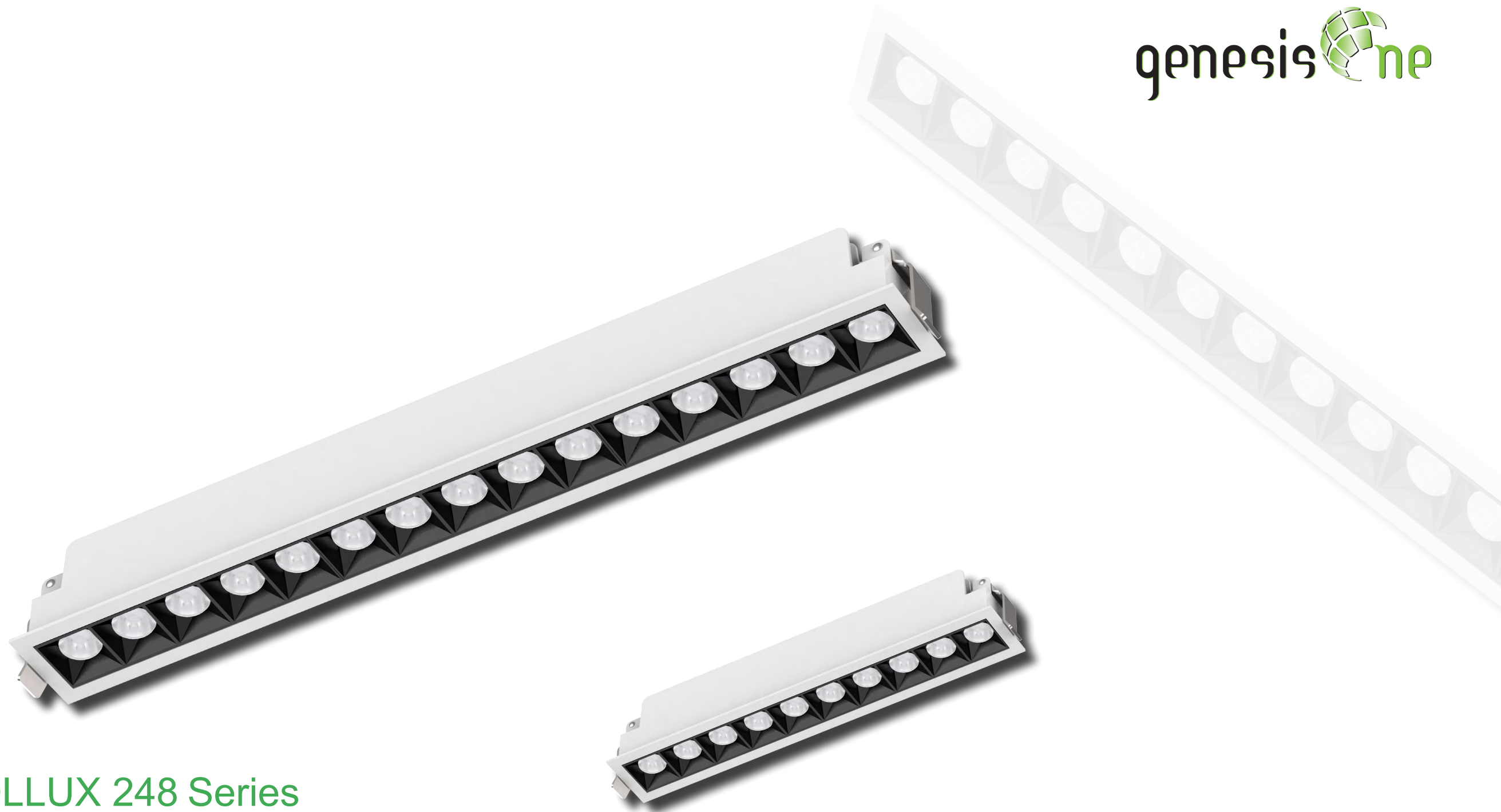
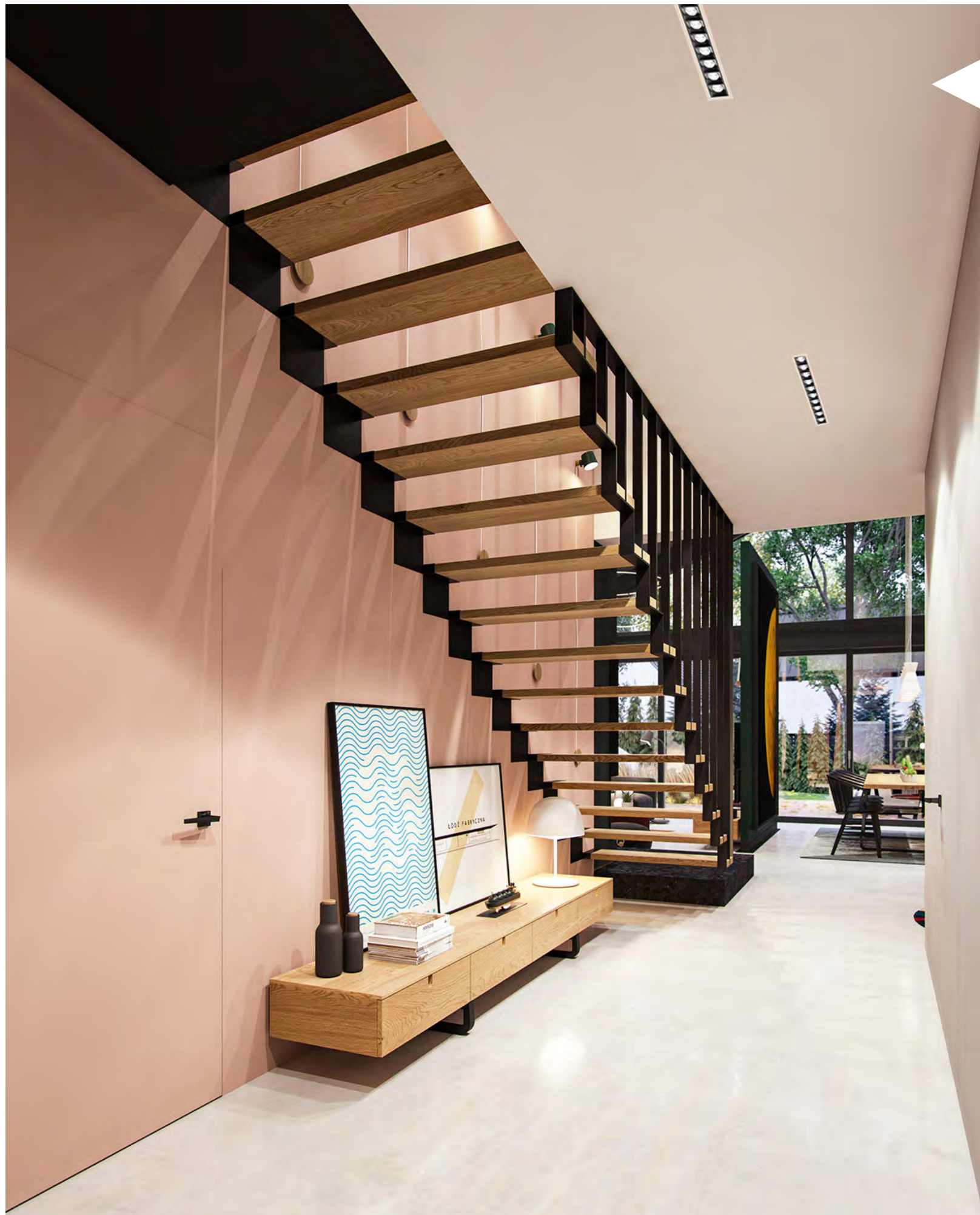




POLLUX 248 Series

Genesis One Lighting Pty LTD
2 Lancaster Place
Lanseria Corporate Estate
Lanseria
Johannesburg



Introduction

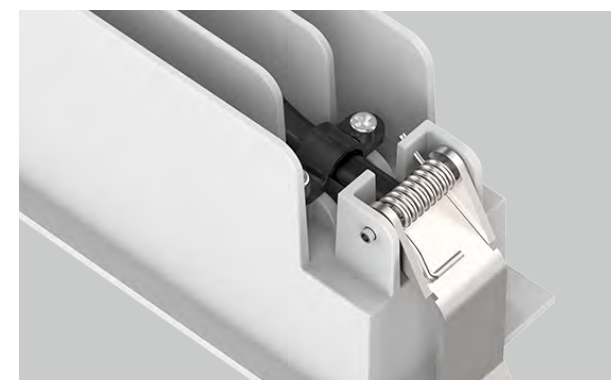
POLLUX 248 is a linear recessed downlight, with two beam designs: Symmetric Beam(Type A) and Asymmetric Beam(Type B). The aluminum die-casting frame with UV-proof white powder coating finishing provides excellent thermal management. POLLUX 248 is manufactured with CREE XP-G high power SMD light source, high lumen, high CRI, small SDCM. Modular lens and multi-louver reflectors design achieve anti-glare UGR<19

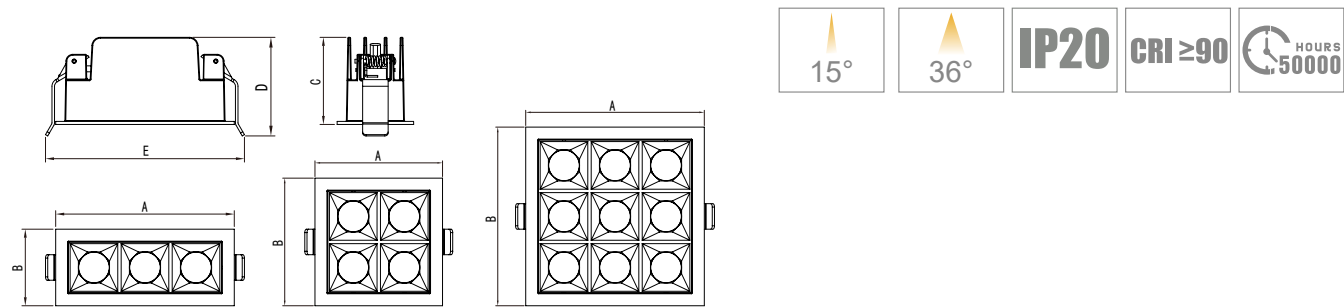
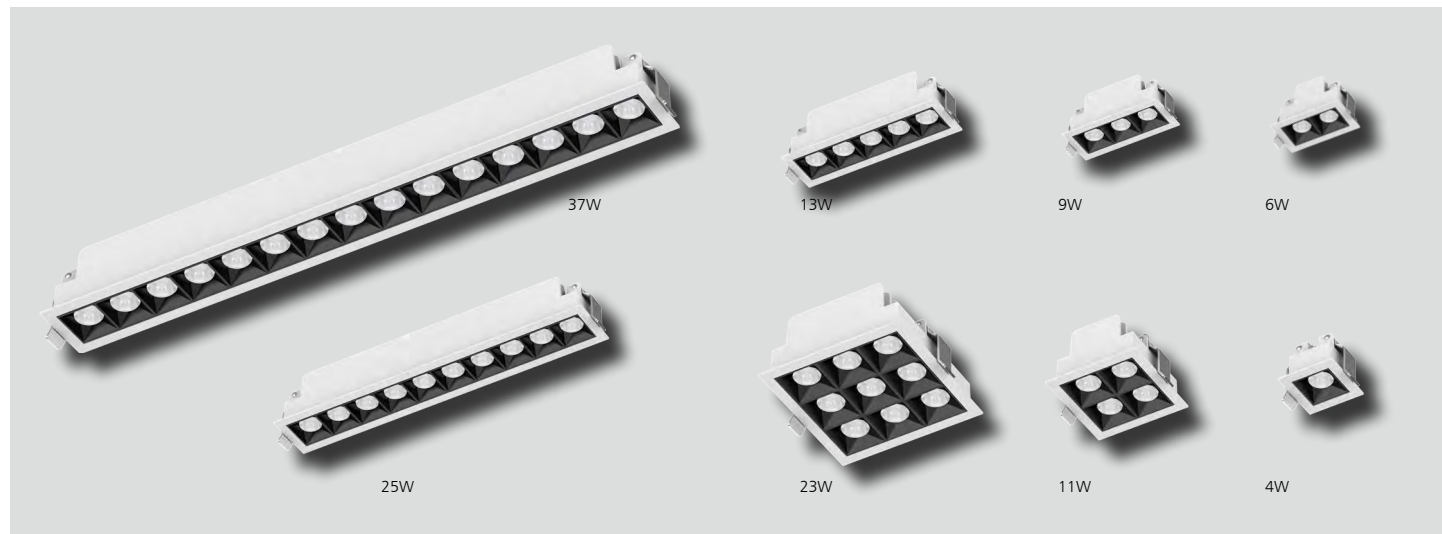
Features

- Special beam design: Symmetric beam(Type A) 15°/36°
- Lighting design: UGR<19, Ra>90, SDCM<6.
- Adopt CREE XP-G2 5W SMD light source, high lumen efficiency.
- Finished color: White/Black.
- External flicker free driver.
- Dimming options: Triac dimming / 0-10V dimming / DALI dimming

Application Areas

It is designed for general lighting applications in office, supermarket, shop, school, hotel, etc. It is also widely used for public areas, such as stairway, lobby, reception, corridors etc.





Technical Data Sheet

Code No.			IDC045N/0440248	IDC076N/0640248	IDC0105N/0940248	IDC075N/1140248	IDC147N/1340248	IDC105N/2340248	IDC280N/2540248	IDC280N/3740248
			4W	6W	9W	11W	13W	23W	25W	37W
Dimension(mm)			45×45×42	76×45×51	105×45×51	75×75×51	147×45×51	105×105×51	280×45×51	413×45×51
Cutout (mm)			37×37	68×37	97×37	67×67	139×37	97×97	272×37	405×37
Watt(W)			4W	6W	9W	11W	13W	23W	25W	37W
Rated Input Voltage(V)			AC220-240V							
Input Voltage(V)			AC220V							
LED Module Input			DC3V 700mA	DC6V 700mA	DC9V 700mA	DC12V 700mA	DC15V 700mA	DC27V 700mA	DC30V 700mA	DC45V 700mA
Light Source			SMD							
SDCM			<6							
CCT(K)			1-CCT: 2700K/3000K/4000K							
CCT Selection DIP Switch			NO							
Luminous Flux (lm) ±5%	Non-DIM	1-CCT	140-190LM	270-370LM	400-600LM	480-710LM	650-940LM	1160-1760LM	1220-1820LM	1990-2830LM
	DIM		-							
	Non-DIM	3-CCT	-							
	DIM		-							
CRI			Ra>90							
Beam Angle (°)			15°/36°							
UGR			<19							
LED Driver			Built-out							
Dimming Option			NO	NO	Triac/DALI/ 0-10V					
Sensor			-							
Emergency Kits			-							
Electrical Class			Class II							
Ingress Protection (IP Rating)			IP20(Inside Ceiling)							
Impact Resistance (IK Rating)			IK06							
Product Finishing(Base)			White 9003, Black 9005							
Materials of Optics			PC							
Materials of Housing			Aluminum							
Lifetime (hr)			50,000h							
Glow wire test (℃)			750℃							
Operating Temp. (℃)			-20℃ ～45℃							
Storage Temp. (℃)			-20℃ ～65℃							
Installation			Recessed							

Wattage	Dimension(mm)					Size(mm)	Product Weight (Kg)		Package weight (Kg)		Carton Size(cm)	Qty/ CTN	20GP (pcs)	40HQ (pcs)
	A	B	C	D	E		N.W/PC	G.W/PC	N.W/CTN	G.W/CTN				
4W	45	45	42	49	57	45x45x42	0.12	0.18	13.5	14.2	54x32x33.5	75	37800	88125
6W	76	45	51	58	87	76x45x51	0.16	0.22	16.5	17.2	54x32x33.5	75	37800	88125
9W	105	45	51	58	117	105x45x51	0.21	0.31	15.5	16.4	59.5x31.5x43	50	17100	40950
11W	75	75	51	58	87	75x75x51	0.22	0.31	18.6	19.8	63.5x42x43	60	13500	33600
13W	147	45	51	58	159	147x45x51	0.27	0.37	14.8	15.7	67x32.5x37	40	14160	34440
23W	105	105	51	58	117	105x105x51	0.43	0.55	16.5	17.4	54x30.5x43	30	11970	28800
25W	280	45	51	58	292	280x45x51	0.51	0.64	12.8	13.5	49x32.5x37	20	9720	23800
37W	413	45	51	58	425	413x45x51	0.71	0.91	18.2	19.1	62.5x32.5x37	20	7560	18620

Driver Datasheet (Non-dimmable)

Total load wattage		4W	6W	9W	11W	13W	23W	25W	37W	
Output	Output Voltage range	2-4V	5-9V	8-12V	9-16V	9-16V	25-34V	25-34V	36-51V	
	Rated output current	700mA								
	Line Regulation	±5%								
	Setup, Rise Time	0.5S								
	Flickering Index	1.5%								
Input	Input Voltage	AC 198-264V								
	Rated Input Voltage(V)	AC 220-240V								
	Frequency	50/60 Hz								
	Input Current	60mA	110mA	160mA	160mA	160mA	150mA	150mA	220mA	
	Rated Input Current	41mA	59mA	82mA	102mA	121mA	117mA	127mA	193mA	
	Power Factor	0.45	0.5	0.5	0.5	0.5	0.90	0.90	0.90	
	THD	-					≤15%(230V)			
	Efficiency	65%	71%	78%	78%	78%	88%	88%	89%	
	No load wattage	<0.5W								
Protection	Short circuit protection	Pass								
	Over voltage protection	Pass								
	Over temperature protection	Pass								
Safety &EMC	Withstand voltage	I/P-O/P:3KVac,<5mA 60S								
	Isolation Resistance	I/P-O/P: 500VDC, ≥100M Ω								
	Surge	IEC/EN61000-4-5(L-N:1KV)								
	EMC Emission	EN55015, EN61000-3-2								
	EMC Immunity	EN61000-4-2,3,4,5,6,8,11; EN61547								

Driver Datasheet (Triac Dimmable)

Total load wattage		9W	11W	13W	23W	25W	37W
Output	Output Voltage range	8-14V	8-14V	12-20V	26-42V	26-42V	30-52V
	Rated output current	700mA					
	Line Regulation	± 5%					
	Setup, Rise Time	≤0.5S (230VAC)					
	Flickering Index	1.5%					
Input	Input Voltage	AC 198-264V					
	Rated Input Voltage(V)	AC 220-240V					
	Frequency	50/60 Hz					
	Input Current	80mA	80mA	100mA	160mA	160mA	220mA
	Rated Input Current	46mA	56mA	66mA	117mA	127mA	187mA
	Power Factor	0.90					
	THD	-			≤20% (230VAC)		
	Efficiency	78%	78%	81%	86%	86%	87%
	No load wattage	≤0.5W @230VAC					
Protection	Short circuit protection	Pass					
	Over voltage protection	Pass					
	Over temperature protection	Pass					
Safety &EMC	Withstand voltage	I/P-O/P:3.75KVac, <5mA 60S					
	Isolation Resistance	I/P-O/P: 500VDC, ≥100M Ω					
	Surge	IEC/EN61000-4-5(L-N:1KV)					
	EMC Emission	EN55015, EN61000-3-2					
	EMC Immunity	EN61000-4-2,3,4,5,6,8,11; EN61547					

Driver Datasheet (0-10V Dimmable)

Total load wattage		9W	11W	13W	23W	25W	37W
Output	Output Voltage range	3-84V					
	Rated output current	700mA					
	Line Regulation	± 3%					
	Setup, Rise Time	≤0.5S (230VAC)					
	Flickering Index	1.5%					
Input	Input Voltage	AC 180-264V					
	Rated Input Voltage(V)	AC 200-240V					
	Frequency	47-63 Hz					
	Input Current	300mA					
	Rated Input Current	50mA	62mA	73mA	128mA	139mA	206mA
	Power Factor	0.90					
	THD	≤20% (230VAC)					
	Efficiency	89%					
	No load wattage	≤0.5W @230VAC					
Protection	Short circuit protection	Pass					
	Over voltage protection	Pass					
	Over temperature protection	Pass					
Safety &EMC	Withstand voltage	I/P-O/P:3.75KVac, <5mA 60S					
	Isolation Resistance	I/P-O/P: 500VDC, ≥100M Ω					
	Surge	IEC/EN61000-4-5(L-N:2KV)					
	EMC Emission	EN55015, EN61000-3-2					
	EMC Immunity	EN61000-4-2,3,4,5,6,8,11; EN61547					

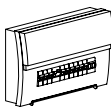
Driver Datasheet (DALI Dimmable)

Total load wattage		9W	11W	13W	23W	25W	37W
Output	Output Voltage range	3-84V					
	Rated output current	700mA					
	Line Regulation	± 3%					
	Setup, Rise Time	≤0.5S (230VAC)					
	Flickering Index	1.5%					
Input	Input Voltage	AC 180-264V					
	Rated Input Voltage(V)	AC 200-240V					
	Frequency	47-63 Hz					
	Input Current	300mA					
	Rated Input Current	50mA	62mA	73mA	128mA	139mA	206mA
	Power Factor	0.90					
	THD	≤20% (230VAC)					
	Efficiency	78%					
	No load wattage	≤0.5W @230VAC					
Protection	Short circuit protection	Pass					
	Over voltage protection	Pass					
	Over temperature protection	Pass					
Safety &EMC	Withstand voltage	I/P-O/P:3.75KVac, <5mA 60S					
	Isolation Resistance	I/P-O/P: 500VDC, ≥100M Ω					
	Surge	IEC/EN61000-4-5(L-N:2KV)					
	EMC Emission	EN55015, EN61000-3-2					
	EMC Immunity	EN61000-4-2,3,4,5,6,8,11; EN61547					

Installation Procedure

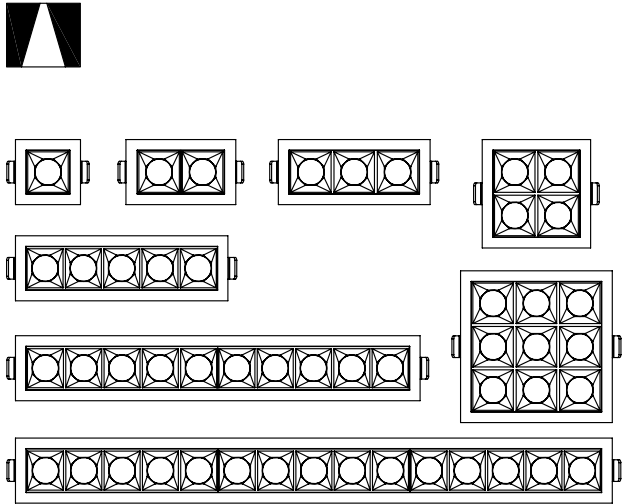
WARNING ⚡

- 1.Switch off before installation / maintenance.
- 2.Switch on only after complete installation and examination of the circuit.
- 3.Professional electrician for installation and maintenance only.



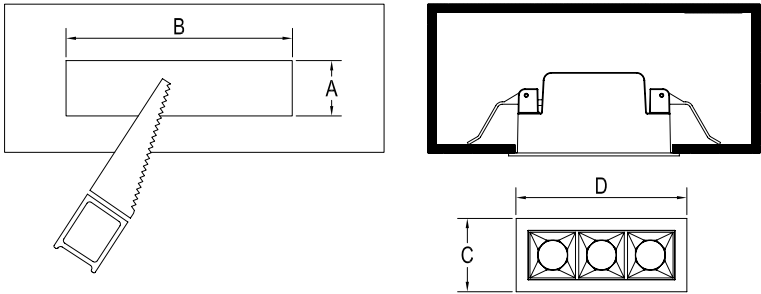
Turn Off power supply before starting any installation. Read instructions & check you have all the tools & accessories to complete the installation correctly.

Type A Symmetric light



Step 1

Open a hole according to the cutout size of the lamp.

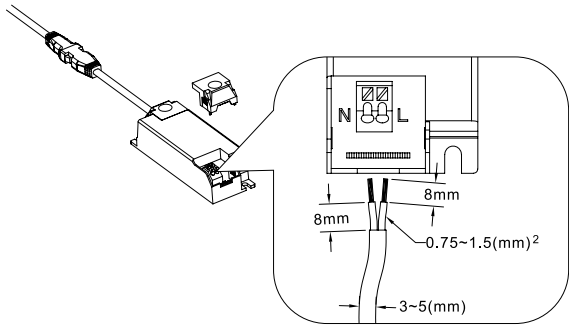


AxB mm	CxDmm
37x37	45x45
68x37	76x45
97x37	105x45
67x67	75x75
139x37	147x45
97x97	105x105
272x37	280x45
405x37	413x45

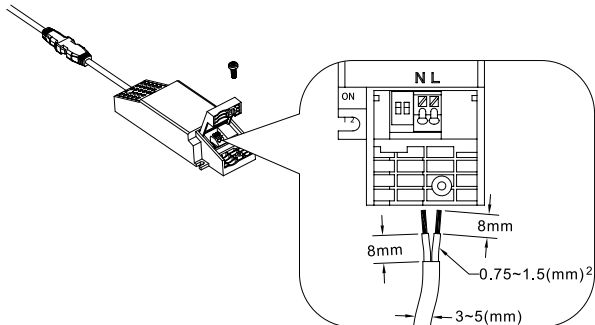
Step 2

Remove the driver cover, do wire connection accordingly, then fix the driver cover.

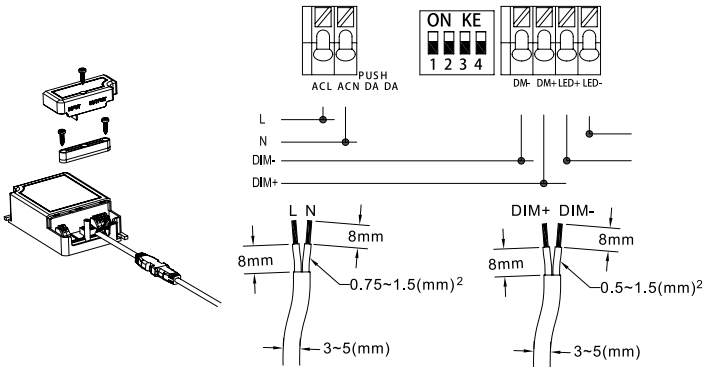
2.1 Non-dimmable driver



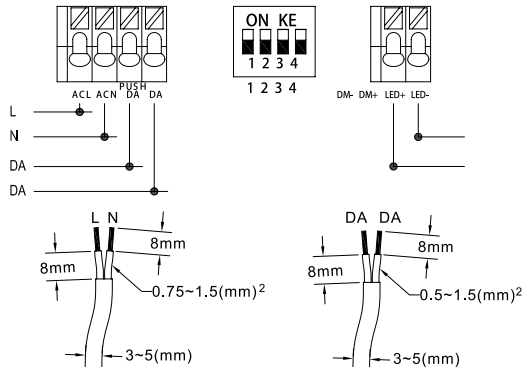
2.2 RPC triac dimmer(10%-100%)



2.3 0-10V dimmable driver

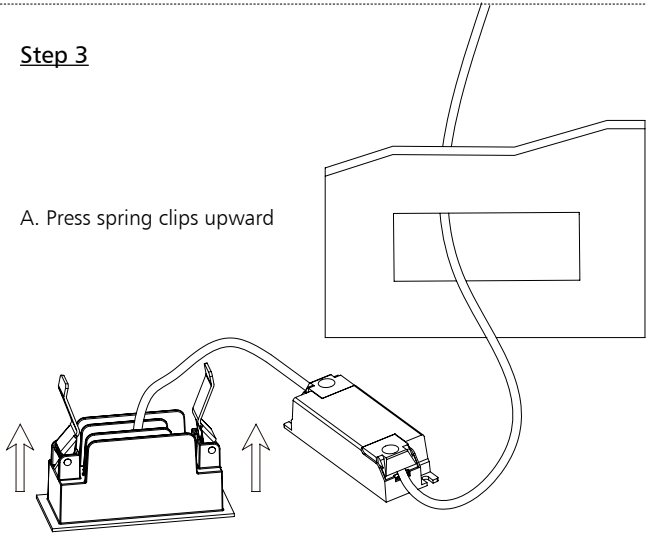


2.4 DALI dimmable driver



Step 3

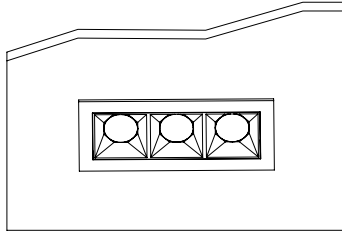
A. Press spring clips upward



B. Push downlight into position

Step 4

Release spring clips which will hold luminaire securely





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