Entry /ECO | Standard /STD | Professional/PRO | ODM & OEM | Intelligent/INT

PRO

Specifications



LED Ceiling Light

AL99 Series



BA LIGHTING

Introduction

AL99 ceiling light is a big size with up & down lighting design. It’s adopted high lumen SMD LED light source, larger lighting area and low glare design make a softer and uniform light output. AL6063 aluminum housing provides an excellent thermal management. Size options: 400mm, 600mm, 800mm, 1000mm. It can do CCT adjustable and wattage adjustable, multiple installation ways available which meets more application demands.

Features

- High lumen efficiency 110lm/W.
- Interchangeable CCT (3000+4000+5700K/3000+4000K) with slide switch.
- Interchangeable wattage available for all size.
- DALI dimmable available.
- Osram flicker free driver.
- Multiple installation ways: Recessed/Surface mounted/Pendant(With pendant rod suspension, with steel wire suspension, with wire harness suspension.)

Application Areas

It is designed for general lighting applications in office, supermarket, shop, school, hotel, etc.



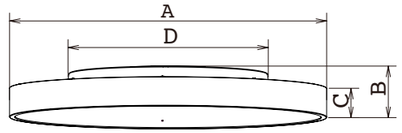




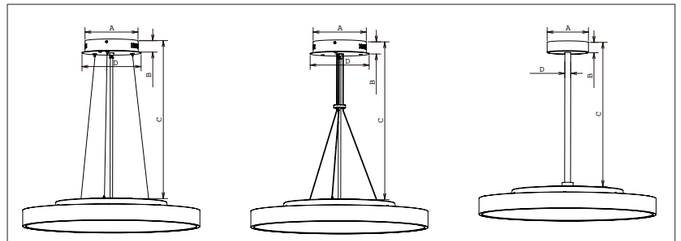




DALI Dimmable | CRI ≥80 | IP40 | PF 0.9 | HOURS 50000



Suspension accessories （Purchase as needed）



With steel wire suspension | With wire harness suspension | With pendant rod suspension

Technical Data Sheet

Code No.			AL99-16-40W	BA2004-AL99-60W	AL99-32-80W	AL99-40-100W
Dimension(mm)			Ø400*86	**Ø600*86**	Ø800*86	Ø1000*86
Cutout (mm)			Ø220～250	Ø385～415		
Watt(W)			40W @max (optional:35W / 37W / 38W / 40W)	**60W @max (optional:40W / 45W / 55W / 60W)**	80W @max (optional:60W / 65W / 76W / 80W)	adjustable power with resistance100W @max (optional:40W-100W)
Rated Input Voltage(V)			220-240V			
Input Voltage(V)			198-264V			
LED Module Input			–			
Light Source			SMD			
SDCM			<6 (@3000K 4000K 5000K)			
CCT(K)			1-CCT: 3000K/4000K/5000K/5700K || 3-CCT: 3000K + 4000K + 5700K			
CCT Selection DIP Switch			YES			
Luminous Flux (lm) ±5%	Non-DIM	1-CCT	@35W 3300-3900 @40W 3600-4200	**@40W 3700-4480** **@60W 5700-6660**	@60W 5200-6400 @80W 7000-8400	@80W 7200-8500 @100W 8800-10700
	DIM	1-CCT	@40W 3800-4300	**@60W 5700-6660**	@80W 7000-8400	@100W 8800-10700
	Non-DIM	3-CCT	@35W 3300-3900 @40W 3600-4200	**@40W 3700-4490** **@60W 5700-6700**	@60W 5200-6400 @80W 7000-8400	@80W 7200-8500 @100W 8800-10700
	DIM	3-CCT	@40W 3800-4300	**@60W 5700-6660**	@80W 7000-8400	@100W 8800-10700
CRI			≥80			
Beam Angle (°)			120°			
UGR			–			
LED Driver			Built-in			
Dimming Option			DALI			
Sensor			NO			
Emergency Kits			NO			
Electrical Class			Class I			
Ingress Protection (IP Rating)			IP40			
Impact Resistance (IK Rating)			–			
Product Finishing(Base)			White RAL 9016/Black RAL 9005			
Materials of Optics			PS			
Materials of Housing			Aluminum			
Lifetime (hr)			50,000h			
Glow wire test (˚C)			650˚C			
Operating Temp. (˚C)			-20˚C ～40˚C			
Storage Temp. (˚C)			-20˚C ～65˚C			
Installation			Surface mount / Pendant / Recessed			

Measurement

Code	Dimension(mm)				Size(mm)	Product Weight (Kg)		Package weight (Kg)		Carton Size(cm)	Qty/ CTN	20GP (pcs)	40HQ (pcs)
	A	B	C	D		N.W/PC	G.W/PC	N.W/CTN	G.W/CTN				
AL99-16-40W	400	86	55	219	Ø400*86	3.2	3.8	19.2	25	64.5*46.5*47.5	6PCS	1032	2208
AL99-24-60W	600	86	55	383	Ø600*86	6.9	7.93	13.8	18	68.5*23.5*68.5	2PCS	528	1206
AL99-32-80W	800	86	55	383	Ø800*86	11	13	11	13	85.5*11.5*90.5	1PC	308	672
AL99-40-100W	1000	86	55	383	Ø1000*86	16.2	18.8	16.2	18.8	105.5*11.5*112.5	1PC	210	474
steel wire suspension	180	41	800	200	Ø200*41	0.86	0.9	5.16	6.4	26.5*23*23	4PCS	7488	18700
wire harness suspension	180	41	800	200	Ø200*41	0.86	0.9	5.16	6.4	26.5*23*23	4PCS	7488	18700
pendant rod suspension	140	35	500	10	Ø140*35	0.78	0.9	4.68	6.4	55.5*41.5*44.5	18PCS	4860	11664

Driver Datasheet (Non-dimmable)

Total load wattage		40W	60W	80W	100W
Output	Output Voltage range	DC30-42V	DC70-217V		
	Rated output current	900mA@ max(optional:800mA / 850mA / 875mA / 900mA)	550mA@Max(optional:350mA / 400mA / 500mA / 550mA)		250-700mA
	Line Regulation	±7.5%	±5%		
	Setup, Rise Time	-			
	Flickering Index	<3% IEEE1789 NO RISK	<5% IEEE1789 NO RISK		
Input	Input Voltage	198-264V			
	Rated Input Voltage(V)	220-240V			
	Frequency	50/60Hz			
	Input Current	0.23A	0.34A	0.45A	0.56A
	Rated Input Current	0.184A	0.3A	0.36A	0.46A
	Power Factor	0.95	0.98		0.99
	THD	<10% @230V			
	Efficiency	90%	92%		95%
	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:3.75KVac,<5mA 60S	I/P-FG 1.6KV <5mA 60S		
	Isolation Resistance	I/P-O/P: 500VDC, ≥100MΩ	-		
	Surge	IEC/EN61000-4-5 (P≥25w L-N:1KV, L/N-PE: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		40W	60W	80W	100W
Output	Output Voltage range	DC15-54V	DC54-240V		
	Rated output current	900mA	500mA	550mA	700mA
	Line Regulation	±3%			
	Setup, Rise Time	-			
	Flickering Index	<2% IEEE1789 NO RISK	<1% IEEE1789 NO RISK		
Input	Input Voltage	198-264V			
	Rated Input Voltage(V)	220-240V			
	Frequency	50/60Hz			
	Input Current	0.28A	0.34A	0.45A	0.56A
	Rated Input Current	0.28A	0.3A	0.4A	0.47A
	Power Factor	>0.95			
	THD	<10% @220-240V			
	Efficiency	91%	92%		
	No load wattage	not permitted	<0.25W		
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;I/P-FG:1.6KVac,<5mA 60S;O/P-FG:0.5KVac,<5mA 60S	I/P-FG-1.6KV <5mA 60S		
	Isolation Resistance	I/P-O/P: 500VDC, ≥100MΩ	-		
	Surge	IEC/EN61000-4-5 (P≥25w L-N:1KV, L/N-PE:2KV)			
	EMC Emission	EN55015, EN61000-3-2			
	EMC Immunity	EN61000-4-2,3,4,5,6,8,11; EN61547			

Installation Procedure

WARNING

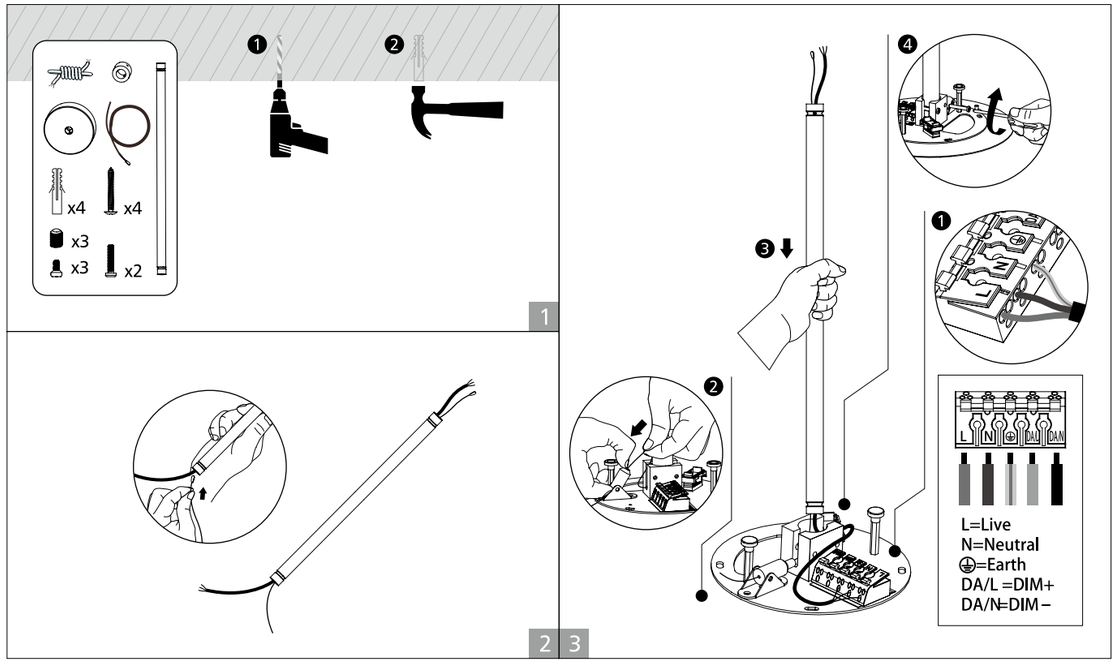
1.Switch off before installation / maintenance.
2.Switch on only after complete installation and examination of the circuit.
3.Professional electrician for installation and maintenance only.

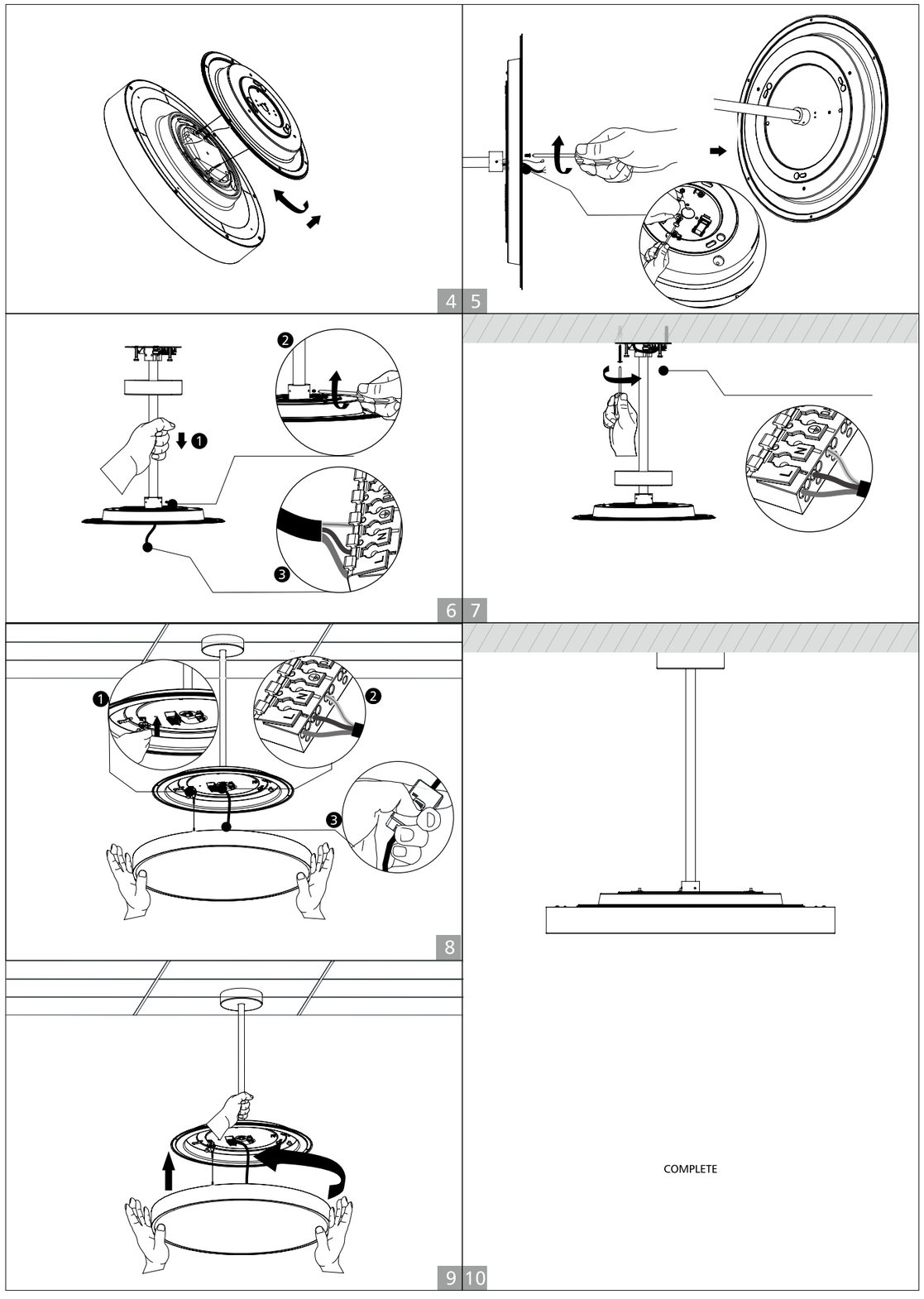




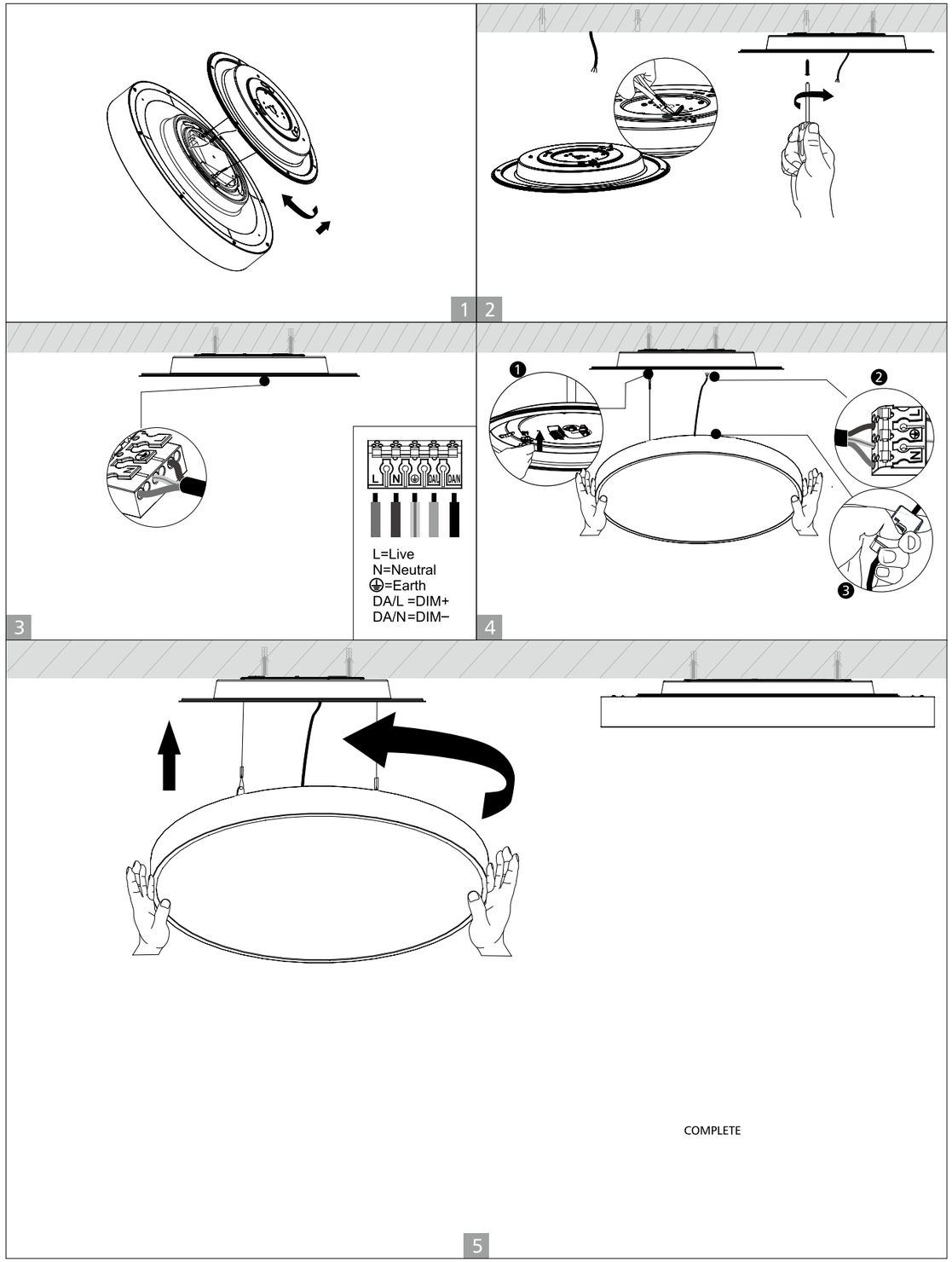
Turn Off power supply before starting any installation. Read instructions & check you have all the tools & accessories to complete the installation correctly.

With pendant rod suspension installation

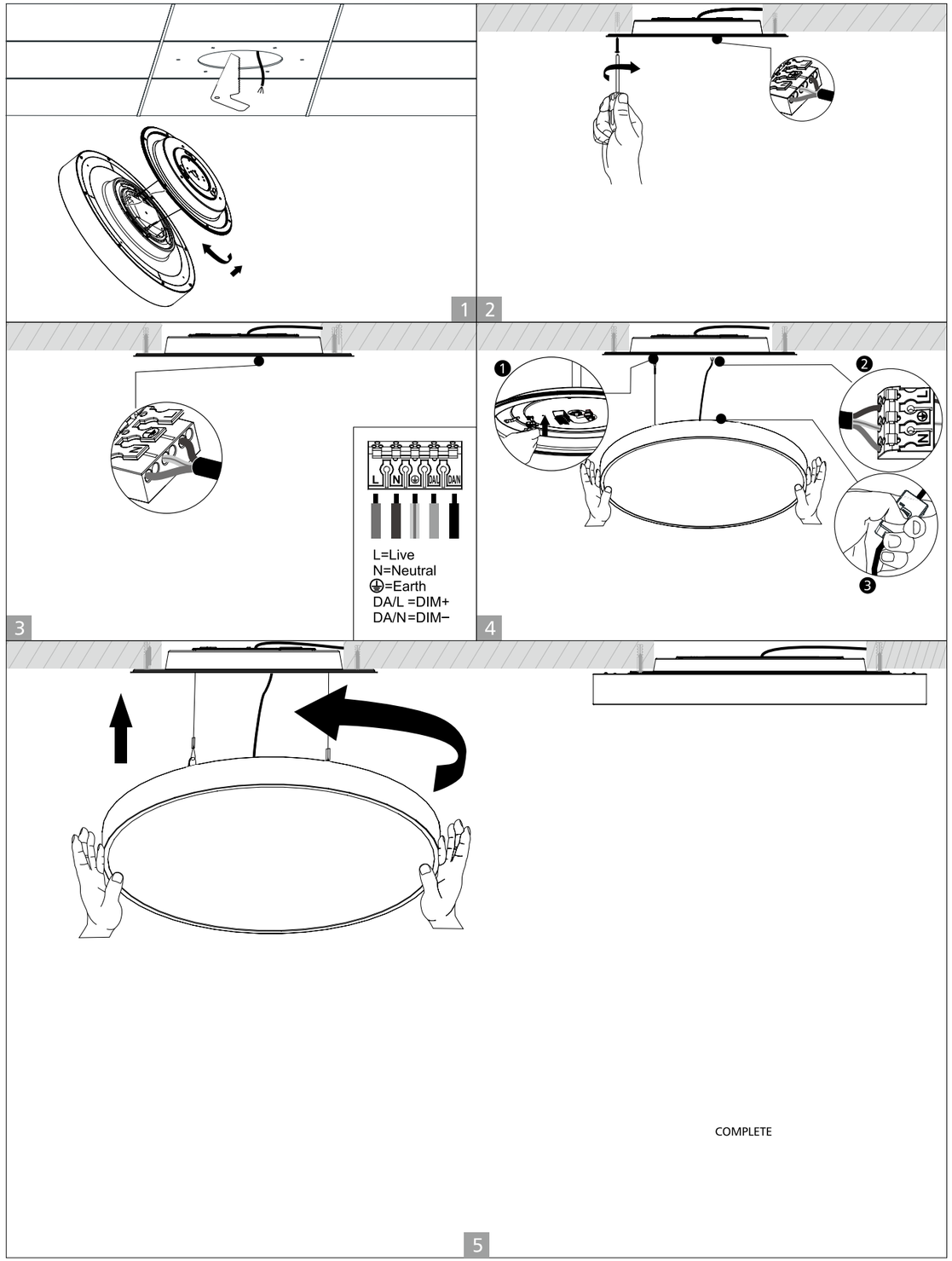




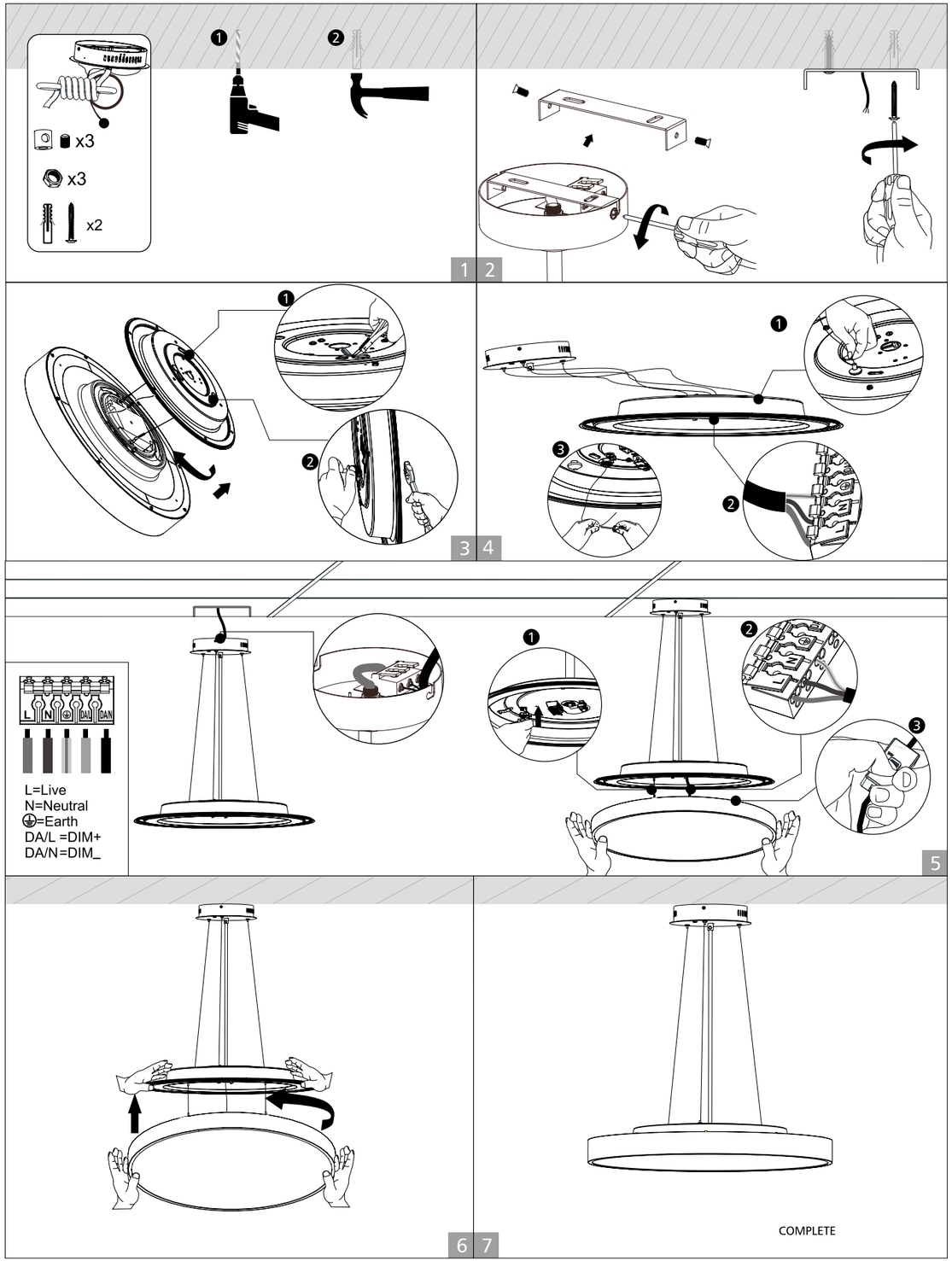
Surface Mount installation



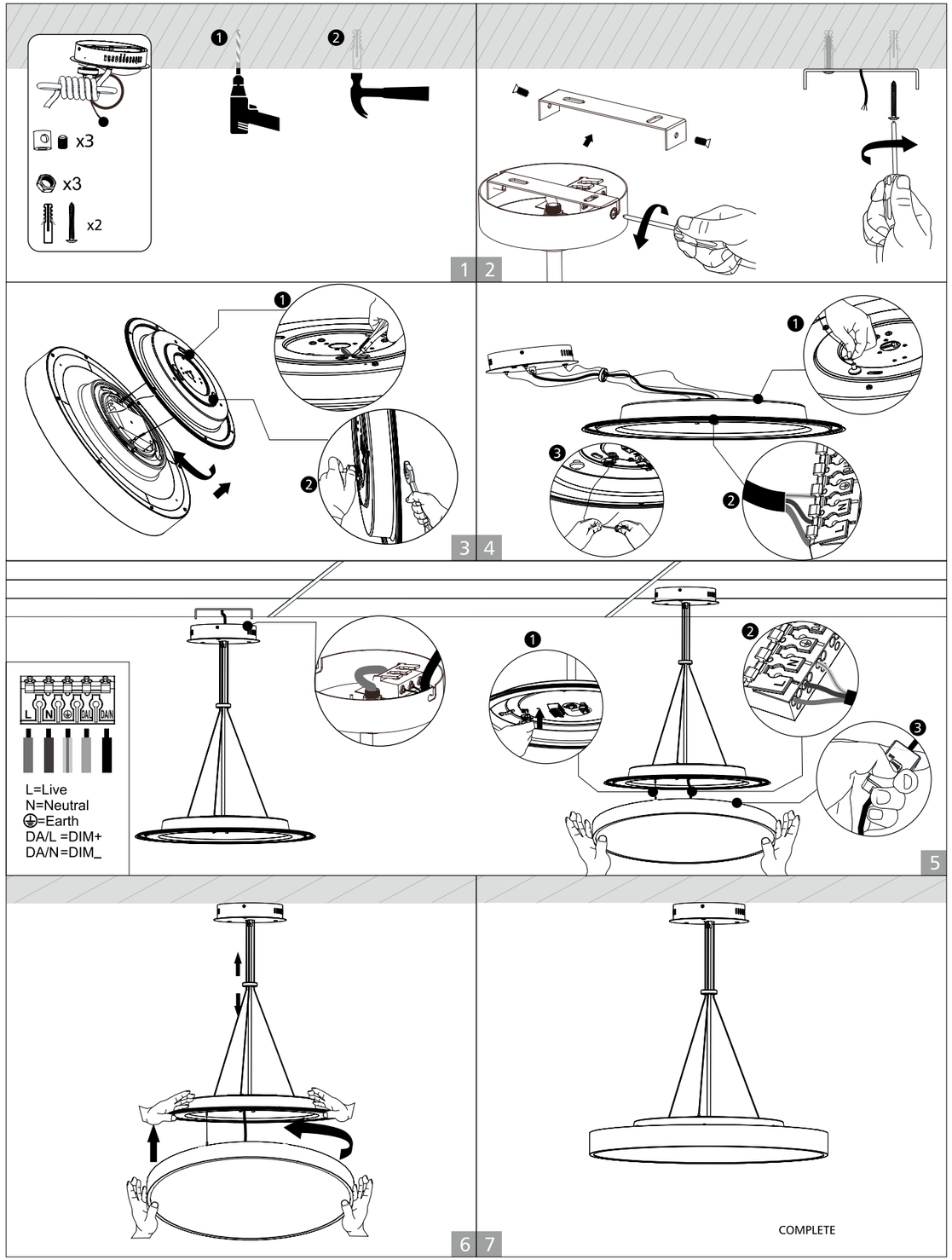
Recessed installation



With steel wire suspension installation



With wire harness suspension installation



ECO Specifications

STD Specifications

PRO Specifications

ODM Specifications

INT Intelligent

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