

Kupfer Comfort Series

Housing and Trim: Die-cast aluminium
 Mounting type: Recess , adjustable
 Heat Management: Die-cast aluminium heat sink
 Reflector: Aluminium
 Beam angle: 15/24/38
 Diffuser: PMMA

LED Modules
 GERMAN Technology
 Comfort COB - Up to 2100lm
 Long service life time : 50,000 hours (L80/B10)
 Ambient temperature - 40°C to +40°C

Drivers: 150mA / 250mA / 350mA / 400mA
 (optional: Dimmable available)
 Power factor at full load : 0.97
 SELV , Low Ripple current < 1% ,THD <15%
 Warranty: 5 years

Standards
 EN 620301: LED modules for general lighting - Safety specification
 EN 62471: Photobiological safety of lamps and systems
 EN 55015: Radio disturbance emissions
 EN 61000-3-2 Limited for harmonic emissions
 EN 61547: Immunity requirements



Powered by:



Application: Commercial Building, Lobby, Conventional Hall, Ballroom, Concourse

Model	Wattage	Voltage	Frequency	Power Factor	Colour	Colour Temperature	Module Luminous Flux (Lm)	Module Efficacy Lm/W	Typ. Beam Angle	Typ. CRI Ra	Energy Efficiency	Dimension (Dia x H) mm	Dimension (Cut out) mm
K311A-4W K311B-4W K311C-4W K311D-4W	4.2W	220-240	50/60Hz	0.95	Warm white	2700K	615	148	15°/24°/38°	>82	A+	90 x 110	75
		220-240	50/60Hz	0.95	Warm white	3000K	645	155	15°/24°/38°	>82	A+		
		220-240	50/60Hz	0.95	Neutral white	4000K	665	160	15°/24°/38°	>82	A+		
		220-240	50/60Hz	0.95	Cool white	5700K	670	161	15°/24°/38°	>82	A+		
K312A-8W K312B-8W K312C-8W K312D-8W	8.4W	220-240	50/60Hz	0.95	Warm white	2700K	1275	151	15°/24°/38°	>82	A+	110 x 120	100
		220-240	50/60Hz	0.95	Warm white	3000K	1345	159	15°/24°/38°	>82	A+		
		220-240	50/60Hz	0.95	Neutral white	4000K	1385	164	15°/24°/38°	>82	A+		
		220-240	50/60Hz	0.95	Cool white	5700K	1395	165	15°/24°/38°	>82	A+		
K312A-12W K312B-12W K312C-12W K312D-12W	12.2W	220-240	50/60Hz	0.95	Warm white	2700K	1720	141	15°/24°/38°	>82	A+	110 x 120	100
		220-240	50/60Hz	0.95	Warm white	3000K	1810	149	15°/24°/38°	>82	A+		
		220-240	50/60Hz	0.95	Neutral white	4000K	1865	153	15°/24°/38°	>82	A+		
		220-240	50/60Hz	0.95	Cool white	5700K	1885	155	15°/24°/38°	>82	A+		
K312A-14W K312B-14W K312C-14W K312D-14W	14.1W	220-240	50/60Hz	0.95	Warm white	2700K	1930	137	15°/24°/38°	>82	A+	110 x 120	100
		220-240	50/60Hz	0.95	Warm white	3000K	2030	144	15°/24°/38°	>82	A+		
		220-240	50/60Hz	0.95	Neutral white	4000K	2090	148	15°/24°/38°	>82	A+		
		220-240	50/60Hz	0.95	Cool white	5700K	2110	149	15°/24°/38°	>82	A+		

*Colour tolerance: 3 MacAdam **Production tolerance of luminous flux and efficiency: ±10% ***Min. CRI ±3% ****Power consumption: ±10%
 The values contained in this data sheet can change due to technical innovations without notifications, therefore kindly refer to us when during order.