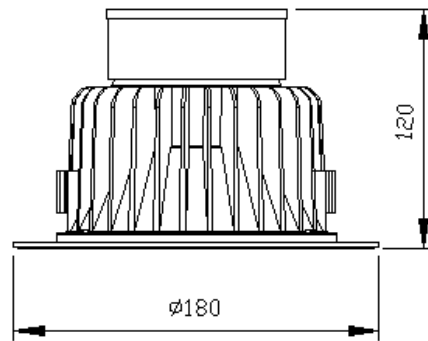
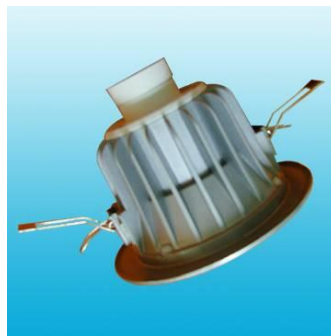




LED DOWN LIGHT SERIES

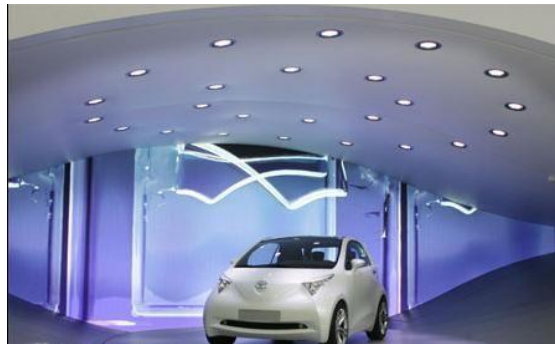
www.lukasled.com



The NDL series LED down light is designed to replace the current mostly used lighting luminaries, such as florescent light, incandescent lights, halogen lights and metal halogen lights. The Luminous can reach 90-100LM/W. Environmental friendly; longevity and energy efficient are the common features of LED down light.

Application

Shopping mall, office, hotel, household, meeting room, exhibition and advertising lighting



Main Features

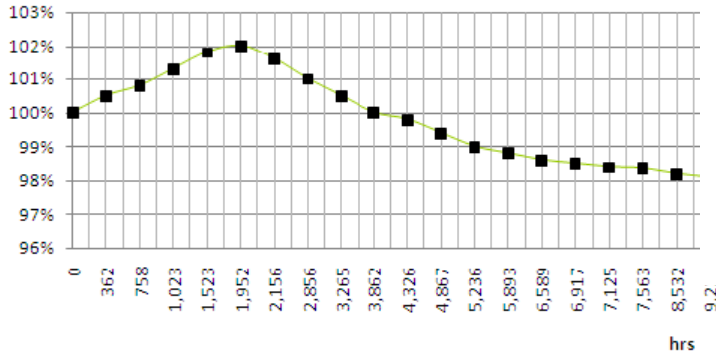
- Unique optical design leading to uniform and comfortable light rays
- High luminarie efficiency over 90%
- Power efficiency over 85%
- Power factor over 0.9
- Superior color rendering index up to 90 near daylight quality
- Wide color of temperature tuning range from 3000K to 7000K
- Patented appearance and mechanical structure; Being compact and lightweight
- Constant current and low-voltage drive mode leading to high safety and no glares
- Green and environment-friendly: lead-free, no-mercury, no fragile glass
- No environment-harmful materials
- No light pollution: No IR, no UV, Anti-vibration and shock-proof
- Tremendous energy saving: more than 90% electricity saving over conventional incandescent lamps and more than 70% electricity saving over conventional fluorescent energy-saving lamps
- Long lifetime over 20 years (6 hours a day)

Product catalogue and working parameter

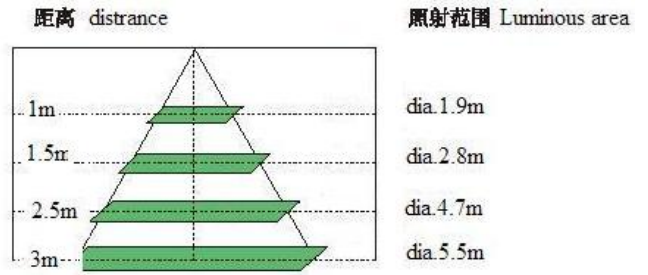
Part No.	NDL-02	NDL-04	NDL-06	NDL-08	NDL-10	NDL-12
Supply Voltage(V)	AC 220/110	AC 220/110	AC 220/110	AC 220/110	AC 220/110	AC 220/110
Light Power	2W	4W	6W	8W	10W	12W
Replacement Halogen	10W	20W	30W	40W	50W	60W
Chip	CREE	CREE	CREE	CREE	CREE	CREE
Effeciency(LM/W)	90-100	90-100	90-100	90-100	90-100	90-100
Luminous(LM)	200	400	600	800	1000	1200
Luminous Angel(°)	90	90	90	90	90	90
Power factor	0.95	0.95	0.95	0.95	0.95	0.95
working temperature°C	-45~+85	-45~+85	-45~+85	-45~+85	-45~+85	-45~+85
Humidity Rating	≤ 95%	≤ 95%	≤ 95%	≤ 95%	≤ 95%	≤ 95%
IP rating	65	65	65	65	65	65
Installation Height(m)	1.0~2.5	1.0~2.5	2.0~3.5	3.0~4.5	4.0~6.0	4.0~6.0

Luminous Curve diagram:

筒灯光衰曲线图



不同高度照度分布图 Luminous at different Areas



Economic contrast between the LED down light with halogen lamp

Comparing Item	Original Lighting system		Latest Lighting system	
Lighting Source	40w halogen	Quantity:2000pcs	10w LED down light	Quantity:2000pcs
Maintenance Cost	Halogen life is 1year,change 2pcs in 3years		LED long life don't need change in 3 years	
Power Consumption	16 hours per day, operating 3 years, the electricity charge is RMB0.8/KWH(reference price)			
	936,426.67Kwh/year		147,114.24Kwh/year	
	2,809,280wh/3years		441,342.72Kwh/3years	
Electricity charge	RMB749,141.33 /year		117,691.40RMB /year	
	RMB 2,247,424/3years		353,074.184RMB /3years	
Electricity charge saved	2,367,937.28Kwh/3years			
	RMB1,894,349.82/3years			
Conclusion	In 3 years, compare with the metal halide lamp, the can save RMB1,894,349.82			

From the above data, we know:

1. The added cost to adopt LED down light can pay back within 1.5 years, all the invest of the LED down light can be pay back in 2 years, have remarkable economic benefits.
2. Meanwhile, in 3 years, it can save 2,367,937.28KWH, have remarkable social benefits.