


# Waldmann **W**

ENGINEER OF LIGHT.

NORTH AMERICA

HYBRID




 TWIN-C

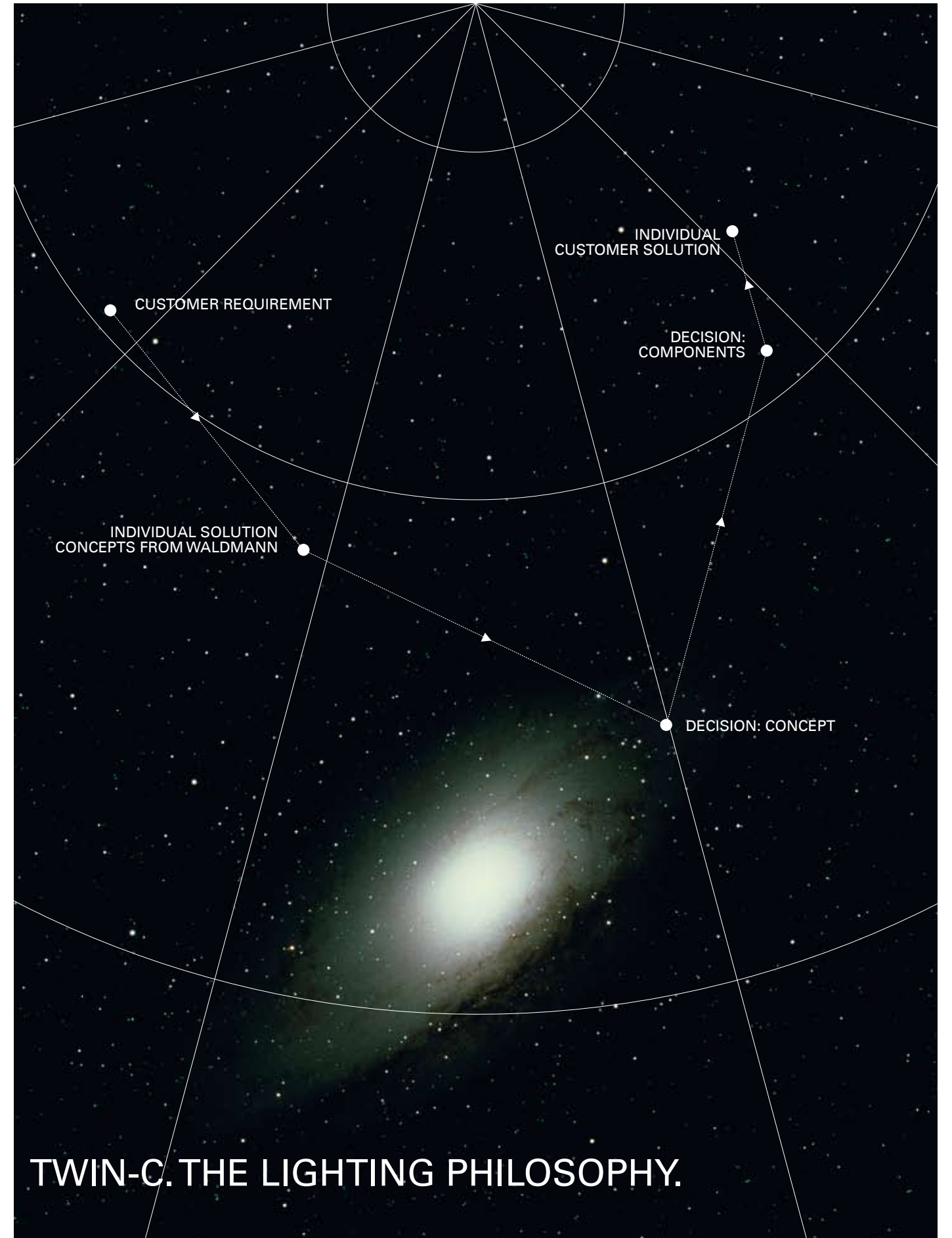
# TWIN-C. THE RIGHT LIGHTING COMBINATION.

Lighting is more than the difference between natural light and darkness. The right illumination at the workplace is a significant factor in maintaining personal well-being and positive job performance. Waldmann Lighting has brought years of innovation together with superior design experience to create a philosophy that offers practical and detailed solutions for every conceivable lighting task in the Architectural and Office environment: TWIN-C. Effective lighting starts with an intelligent lighting concept that considers and addresses the needs of a company's employees. The TWIN-C philosophy works by coordinating the ambient light with task lighting at each work station. Waldmann determines a customer's specific lighting requirements by considering the building environment, visual tasks to be done and varying amounts of natural light available throughout the workday.

Considering these factors is imperative in designing an efficient, cost effective, productive work environment. The PULSE lighting management system, using sensors to adjust light output to the amount of daylight available and automatically switching off the light in unoccupied offices, can achieve energy savings of up to 80%.

The TWIN-C philosophy provides the ability to customize your workplace while saving energy and offering better lighting quality.

-  FLEXIBILITY
- ENERGY EFFICIENCY
- LIGHTING QUALITY



## TWIN-C. THE LIGHTING PHILOSOPHY.

## THE FUTURE IS HYBRID.

As the world becomes more complex, we're always looking for ways to simplify our lives.

As a pioneer of functional lighting technology, Waldmann is spearheading future lighting development, presenting a new, completely innovative lighting system. Combining advanced LED light technology with proven T5 indirect illumination – realized in a high-quality, sleekly designed luminaire body – the hybrid challenges the previous notions of both design and function.

The hybrid pendant uplighter:  
a world first from Waldmann.

Its appearance alone is flawless. The hybrid pendant uplighter features a clear, cubic design with an anodized aluminum housing and 12 LED spots that lend the luminaire a modern, almost futuristic appearance. The hybrid is the first luminaire of its type in which LED technology is used as area light – made possible by Waldmann's specially designed optical system. Our unique design concentrates the spot light from individual LEDs and directs it evenly and glare-free onto the work area.

The indirect light of the hybrid also owes its high level of efficiency to cutting-edge reflector geometry: It projects the light of two light-intense and energy-efficient T5 fluorescent lamps evenly and widely onto the ceiling, thereby creating a congenial and harmonious underlying atmosphere.

Further design breakthroughs enable the LEDs and fluorescent lamps to be switched and dimmed separately, creating a myriad of possibilities for convenient and customized lighting. The fact that the hybrid pendant uplighter is also extremely energy-efficient bears out its uncompromising claim to cutting-edge high-tech design.



### HYBRID HIGHLIGHTS AT A GLANCE

- Combination of LEDs and fluorescent lamp sources
- Exclusive, slim panel design
- Energy-saving technology is environmentally friendly
- Technologically unique
- Individually adjustable lighting comfort, thanks to separate switching and dimming functions

# CUSTOMIZED LIGHTING MOODS – UNPRECEDENTED VARIETY.

The combination of LEDs and fluorescent lamps allows the hybrid pendant uplighters to offer unique possibilities for controlling light: While the direct light of the LEDs has a high proportion of blue light at approx. 6,500 Kelvin making it cool and motivating, the indirect light of the T5 fluorescent lamps (available in “Neutral White” at 4,000 Kelvin or as “Warm White” at 3,000 Kelvin) is perceived as being much warmer and especially harmonious. The individual adjustment of the two lighting media therefore

permits the creation of numerous lighting moods - based entirely on individual preferences and the task at hand. It is even possible to manually simulate the natural change in light during the course of the day: from clear and cool morning light to balanced and harmonious light at midday, to an evening mood with a high proportion of warm light. This increases not only well-being, but also the motivation and productivity of employees.



A cool light and motivating feeling, thanks to the high proportion of direct LED light.



Balanced, parallel lighting with an even distribution of direct light from LEDs and indirect light from T5 fluorescent lamps.

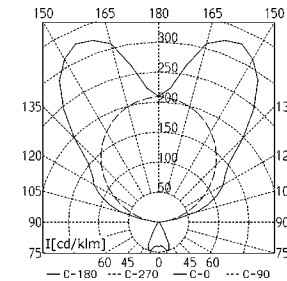
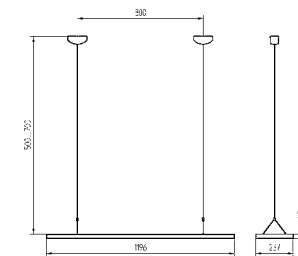


A warm, calming mood, thanks to the high proportion of indirect illumination from T5 fluorescent lamps.

## PENDANT UPLIGHTERS

### HYBRID

### TECHNICAL DATA



<b>RATINGS</b>	120V, 50/60 Hz
<b>FITTED WITH</b>	2 x fluorescent lamp T16 54W 12 x LED module 2.6W
<b>POWER CABLE</b>	approx. 40', with stranded ends
<b>HOUSING</b>	Aluminium, anodized
<b>WEIGHT</b>	approx. 11.25 lbs.
<b>FASTENING</b>	Steel cord 14"
<b>POWER CONSUMPTION</b>	approx. 154W
<b>OPERATION</b>	Without switch
<b>OPERATING DEVICE</b>	Varies according to variant
<b>LUMINAIRE EFFICIENCY</b>	Without cover, 90%
<b>GLARE SUPPRESSION</b>	Specially developed optical PMMA lenses
<b>LIGHT DISTRIBUTION</b>	Mainly indirect
<b>LAMP COVER</b>	Not included
<b>HOUSING COLOUR</b>	Natural anodized

### SPECIAL FEATURES

- Integrated LED technology
- LED direct area light
- Indirect light from fluorescent lamp T5

### SWITCHABLE VARIANT

<b>TYPE/MODEL</b>	DHPL 254-12/2
<b>TECHNOLOGY</b>	Separately switchable
<b>OPERATING DEVICES</b>	Electronic ballast, LED operating devices
<b>ORDER NO.</b>	121 468 008

### DIMMABLE VARIANT

<b>TYPE/MODEL</b>	DHPL 254-12/D
<b>TECHNOLOGY</b>	Separately continuously dimmable
<b>OPERATING DEVICES</b>	Digitally dimmable electronic ballast DALI, LED operating devices
<b>ORDER NO.</b>	121 470 008

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