

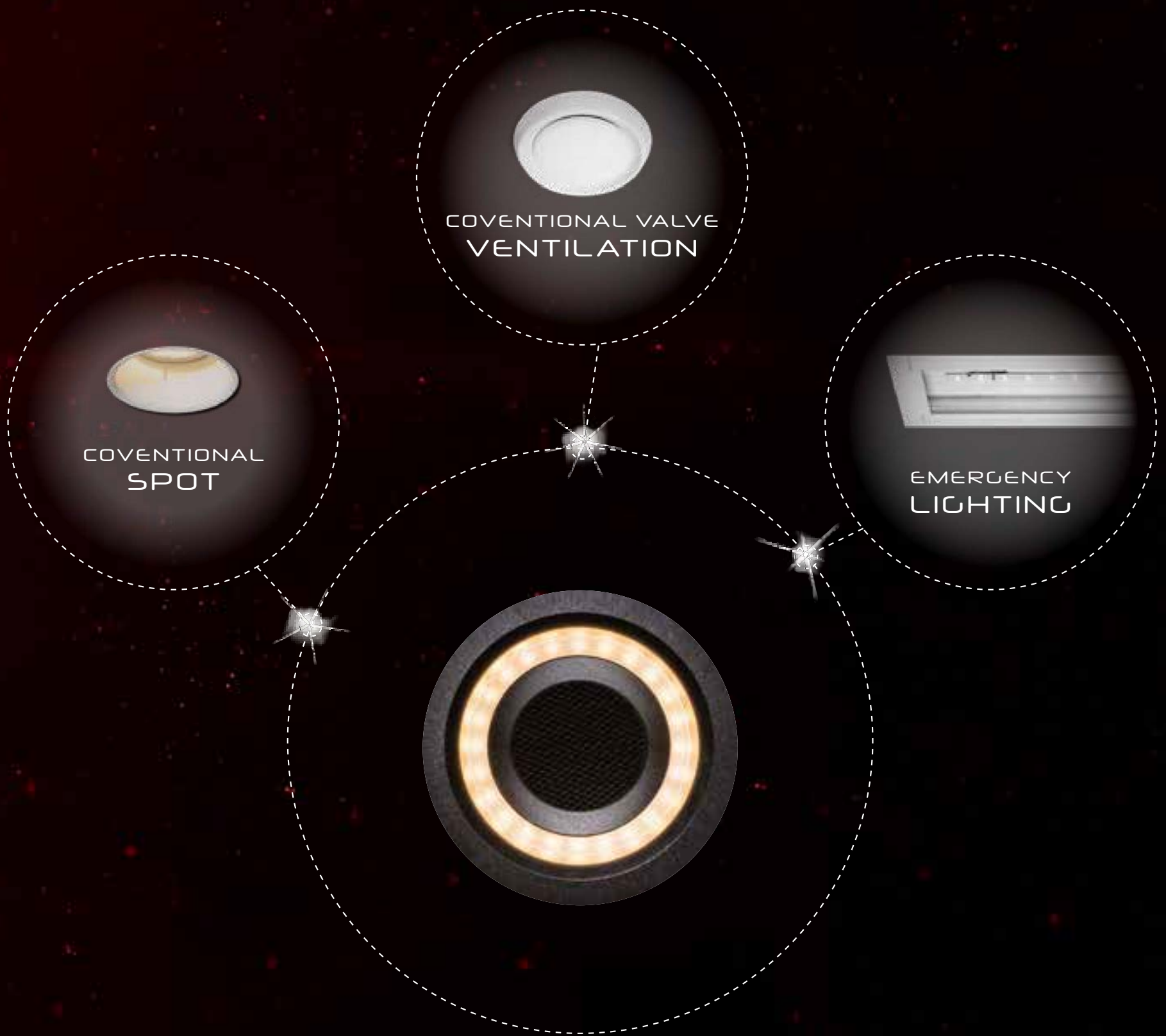
ORBITAL

BE THE FIRST



One futuristic lighting
fixture has it all.

ORBITAL THREE IN ONE



Orbital is the perfect tool for any project and suits a great variety of applications. High-end lighting merged with ventilation, as well as sound, smoke and motion detection. General light can turn into an extensive toolbox, to which you can simply add your desired features. Its smooth curves blend into the architecture for optimal visual comfort.

The Orbital is available in trimless version for an ultimate symbiosis with the building. Installation depth ranges from 65mm to 145mm in compliance with the application. Available in white or black powder coated finish.

The basic light is a single, orientable spotlight with a balanced beam angle of 9°, 38° or 60° and/or wide-area lighting coming from the outer circle of the luminaire. The orientable LED module in the center produces 755 lumens in 2700K and 810 lumens in 3000K colour temperature. The outer circle provides a profitable efficacy of 158,7 lumens per watt, which leads to 1000 lumens at 350mA both in 2700K and 3000K.

The innovative Orbital with integrated ventilation turns your home or office into a healthy environment. Choose between the troughflow or flow control system to create movement of purified air, beneficial to your indoor climate and extends the lifespan of the general light. A smooth designed union of lighting with high quality ventilation in aluminum casing leads to a cost effective and durable product.

ORBITAL

THIS TIME WE WENT THE DISTANCE

VENTILATION
THROUGH FLOW

VENTILATION
FLOW CONTROL

SMOKE

GENERAL
LIGHT

SPOTLIGHT

SOUND

the collection

Configure the Orbital conform your wishes.

TRIMLESS

By using the trimless frame, a seamless effect is being created after plastering and painting. Orbital trimless merges with the ceiling.



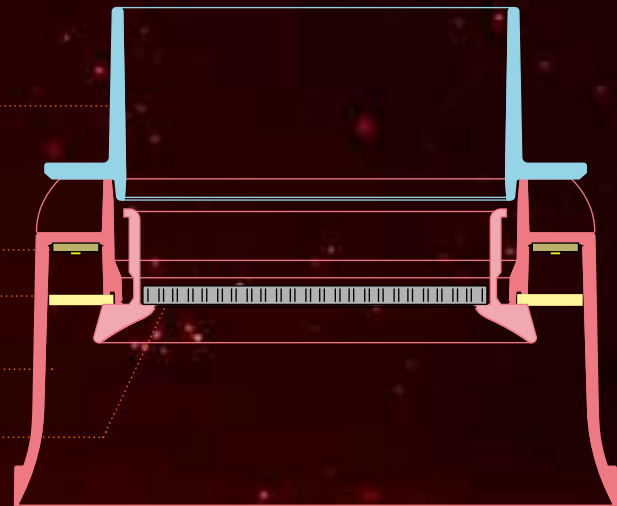
VENTILATION SLEEVE

LEDBOARD

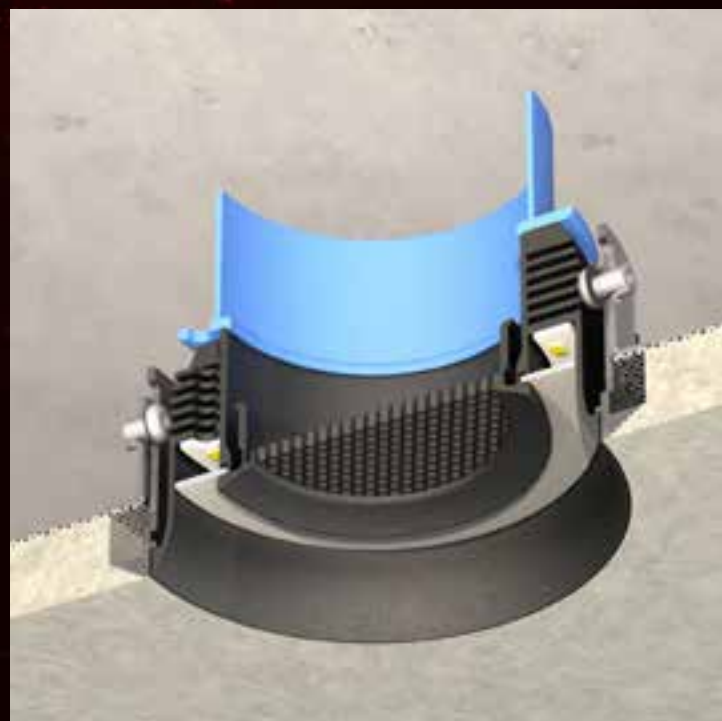
PRISMATIC DIFFUSER

TRIMLESS HOUSING

INNER RING + HONEYCOMB



140mm for use trimless frame



STANDARD

Orbital standard comes with leaf springs to fix the spot into the ceiling.
A small black or white trim makes sure that there is a perfect fit against the ceiling.



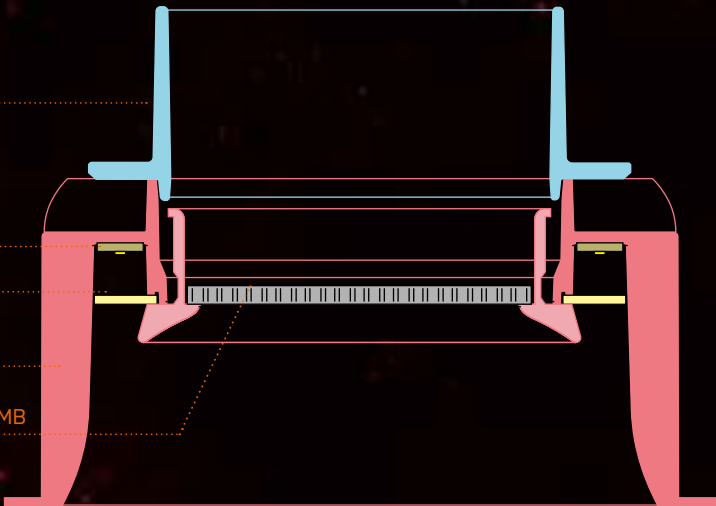
VENTILATION SLEEVE

LEDBOARD

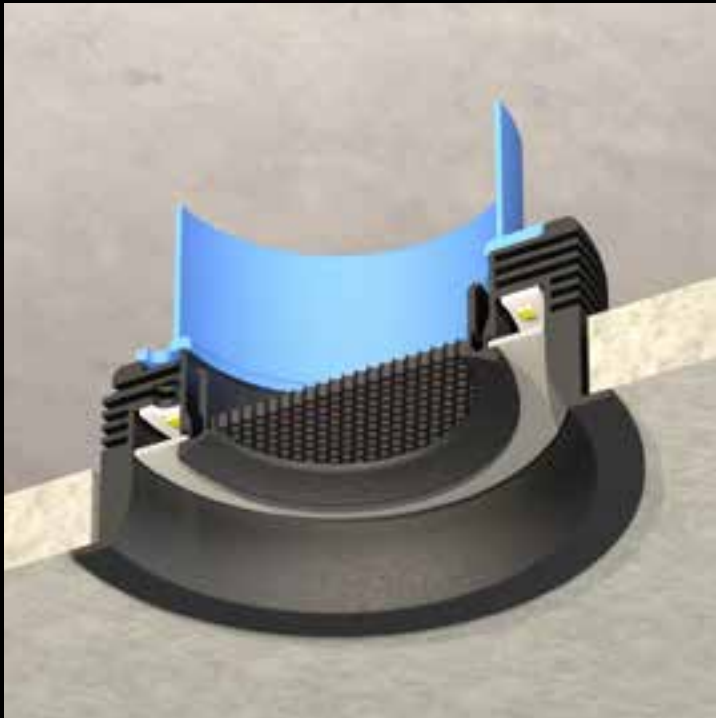
PRISMATIC DIFFUSER

HOUSING

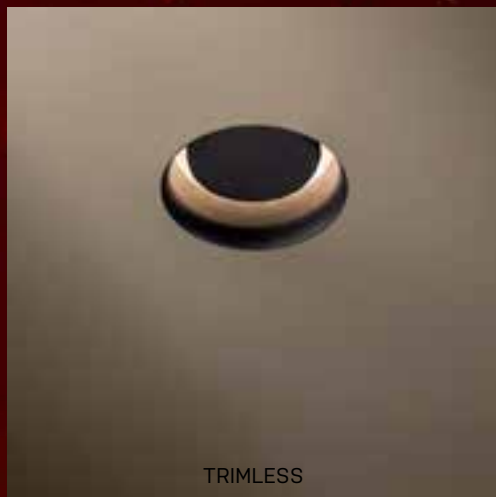
INNER RING + HONEYCOMB



125mm



#01 ORBITAL LIGHT + FLOW CONTROL



TRIMLESS

FLOW CONTROL = VENTILATION VALVE

- SUPPLY VALVE / EXTRACT VALVE

INCORPORATED ADJUSTABLE FLOW REGULATOR

MAX FLOW (THEORETICAL)

- @V = 1,0M/S: 47M³/S

- @V = 2,0M/S: 94M³/S

- @V = 3,0M/S: 141M³/S



LEAF SPRINGS



140mm for use trimless frame

Installation height 180mm



125mm

Installation height 180mm



ORBITAL TRIMLESS LIGHT + FLOW CONTROL (ventilation + adjuster)

ORBITAL LEAF LIGHT + FLOW CONTROL (ventilation + adjuster)



2700K 3000K HALOSPHERE

TEXT WHITE 650247 650267 650287

TEXT BLACK 650246 650266 650286



2700K 3000K HALOSPHERE

TEXT WHITE 650747 650767 650787

TEXT BLACK 650746 650766 650786

ORBITAL FRAME 70112



#02 ORBITAL LIGHT + THROUGH FLOW



THROUGH FLOW = VENTILATION VALVE

- SUPPLY VALVE / EXTRACT VALVE
- FLOW REGULATOR MUST BE PROVIDED IN AIR DUCTS

MAX FLOW (THEORETICAL)

- @V = 1,0M/S: 42M³/S
- @V = 2,0M/S: 84M³/S
- @V = 3,0M/S: 126M³/S



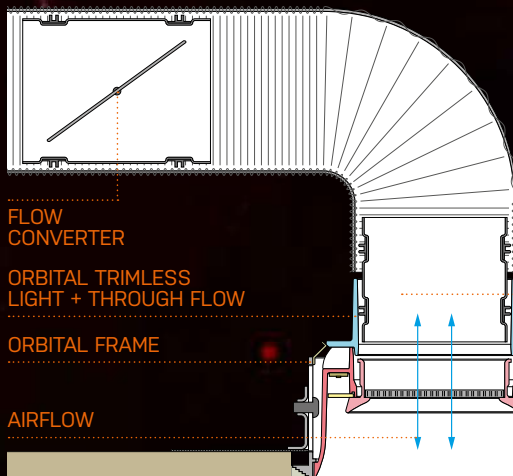
140mm for use trimless frame

Installation height 180mm



125mm

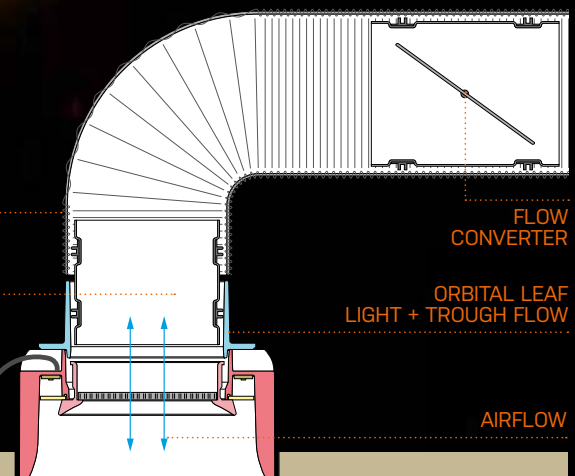
Installation height 180mm



VENTILATION DUCT, DIA 80 MM

VENTILATION MUFF, DIA 80 MM

LED CONVERTER



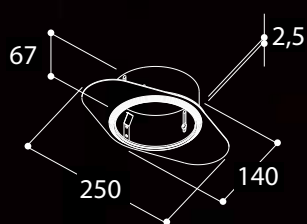
ORBITAL TRIMLESS LIGHT + THROUGH FLOW (ventilation + honeycomb)

ORBITAL LEAF LIGHT + THROUGH FLOW (ventilation + honeycomb)

	CE	IP 20	F	0.2
	2700K	3000K	HALOSPHERE	
TEXT WHITE + BLACK INNER RING	650147	650167	650187	
TEXT BLACK + BLACK INNER RING	650146	650166	650186	

	CE	IP 20	F	0.2
	2700K	3000K	HALOSPHERE	
TEXT WHITE + BLACK INNER RING	650647	650667	650687	
TEXT BLACK + BLACK INNER RING	650646	650666	650686	

ORBITAL FRAME 701112







*"Eliminate all redundant in view
of retaining only the essential."*

#03 ORBITAL LIGHT + SOUND



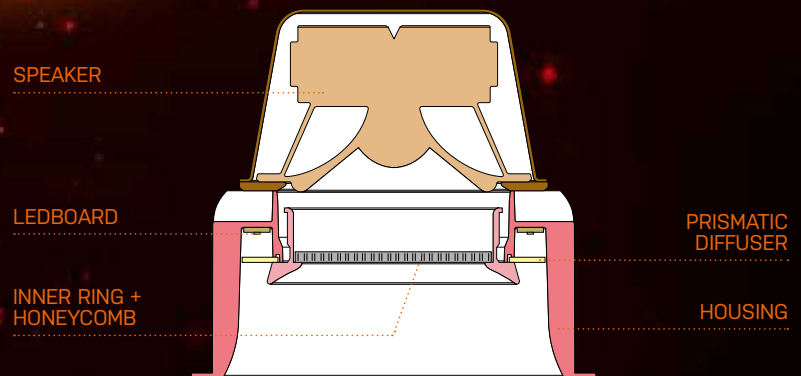
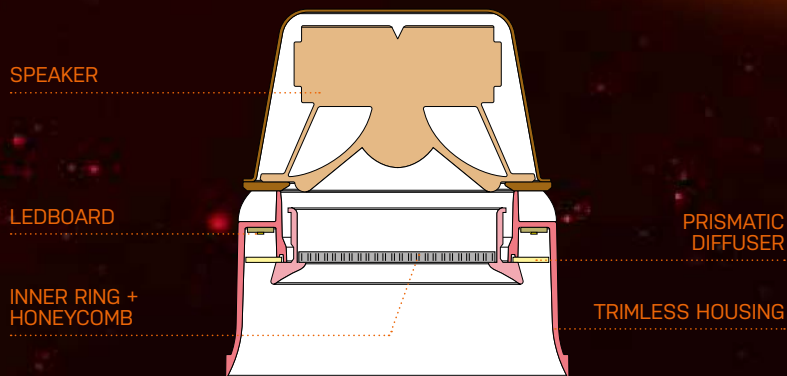
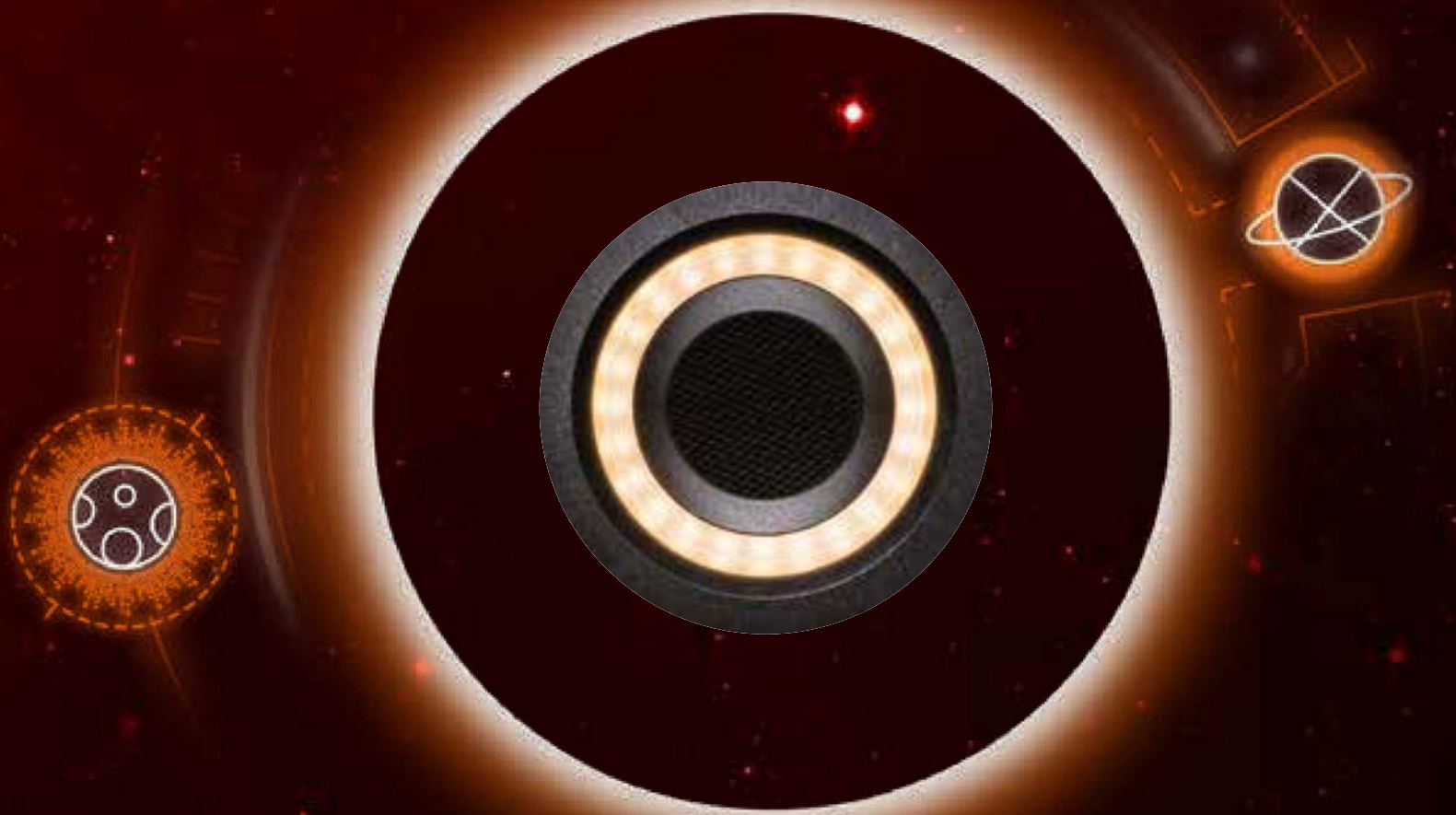
- SOUND = 3" FULL RANGE SPEAKER**
- MAX. POWER = 30W
 - RATED POWER INPUT = 15W
 - NOMINAL IMPEDANCE = 80HM
 - DCR IMPEDANCE = 6,60HM
 - SENSITIVITY 1W/1M = 88DB
 - FREQUENCY RESPONSE = 75HZ-20KHZ



140mm for use trimless frame
Installation height 130mm



125mm
Installation height 130mm



ORBITAL TRIMLESS LIGHT + SOUND

	2700K	3000K	HALOSPHERE
TEXT WHITE + BLACK INNER RING	650347	650367	650387
TEXT BLACK + BLACK INNER RING	650346	650366	650386

ORBITAL LEAF LIGHT + SOUND

	2700K	3000K	HALOSPHERE
TEXT WHITE + BLACK INNER RING	650847	650867	650887
TEXT BLACK + BLACK INNER RING	650846	650866	650886

ORBITAL FRAME 701112



#04 ORBITAL LIGHT + SMOKE



TRIMLESS

SMOKE = OPTICAL SMOKE ALARM DEVICE

- INTEGRATED WIRELESS INTERLINK (MAX. 32 DEVICES) - RF: 868MHZ
- REPLACABLE 3V CR123A LITHIUM BATTERY 1600MAH
- MIN. 5 YEAR BATTERY LIFE
- LOW BATTERY INDICATION
- 100M OPEN FIELD RANGE
- VISIBLE INDICATOR



LEAF SPRINGS



140mm for use trimless frame

Installation height 130mm



125mm

Installation height 130mm



ORBITAL TRIMLESS LIGHT + SMOKE



2700K 3000K HALOSPHERE

TEXT WHITE + BLACK INNER RING 650447 650467 650487

TEXT BLACK + BLACK INNER RING 650446 650466 650486

ORBITAL LEAF LIGHT + SMOKE

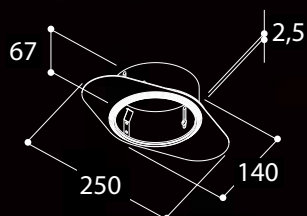


2700K 3000K HALOSPHERE

TEXT WHITE + BLACK INNER RING 650947 650967 650987

TEXT BLACK + BLACK INNER RING 650646 650966 650986

ORBITAL FRAME 701112



#05 ORBITAL BASICS LIGHT



TRIMLESS



ORBITAL TRIMLESS LIGHT ONLY	2700K	3000K	HALOSPHERE
TEXT WHITE	650047	650067	650087
TEXT BLACK	650046	650066	650086

ORBITAL FRAME 701112



LEAF SPRINGS



140mm for use trimless frame

Installation height 130mm

ORBITAL LEAF LIGHT ONLY	2700K	3000K	HALOSPHERE
TEXT WHITE	650547	650567	650587
TEXT BLACK	650546	650566	650586



125mm

Installation height 65mm

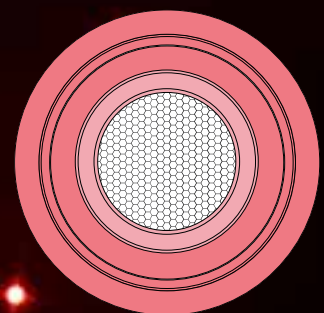
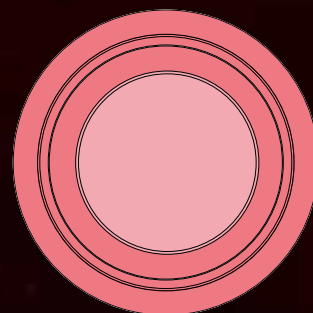
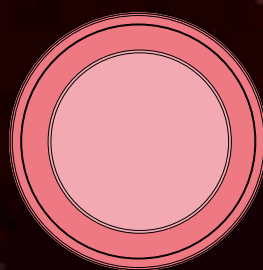
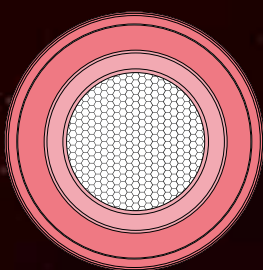
2700K = ORBITAL LEDBOARD
- MAX OUTPUT = 1000LM
- CURRENT DRIVEN @500MA
- U = 19,25V
- P = 9,62W
- 104LM/W
- DIMMABILITY = DEPENDING ON DRIVER
- CRI92
- SDCM3
- 2700K

3000K = ORBITAL LEDBOARD
- MAX OUTPUT = 1000LM
- CURRENT DRIVEN @500MA
- U = 19,25V
- P = 9,62W
- 104LM/W
- DIMMABILITY = DEPENDING ON DRIVER
- CRI92
- SDCM3
- 3000K

HALOSPHERE = ORBITAL WARM DIM LEDBOARD
- MAX OUTPUT = 1000LM
- VOLTAGE DRIVEN @24V
- P = 10,64W
- 94LM/W
- CRI92
- SDCM3
- 3000K @FULL POWER
- 2000K @10% POWER

TBU

#06 ORBITAL BASICS FLOW



ORBITAL BASIC TRIMLESS TROUGH FLOW (ventilation + honeycomb)	NO LIGHT
TEXT WHITE + BLACK INNER RING	650107
TEXT BLACK + BLACK INNER RING	650106

ORBITAL BASIC TRIMLESS FLOW CONTROL (ventilation + adjuster)	NO LIGHT
TEXT WHITE	650207
TEXT BLACK	650206

ORBITAL BASIC LEAF FLOW CONTROL (ventilation + adjuster)	NO LIGHT
TEXT WHITE	650707
TEXT BLACK	650706

ORBITAL BASIC LEAF TROUGH FLOW (ventilation + honeycomb)	NO LIGHT
TEXT WHITE + BLACK INNER RING	650607
TEXT BLACK + BLACK INNER RING	650606

ORBITAL FRAME 701112



140mm

Installation height 130mm



125mm

Installation height 65mm

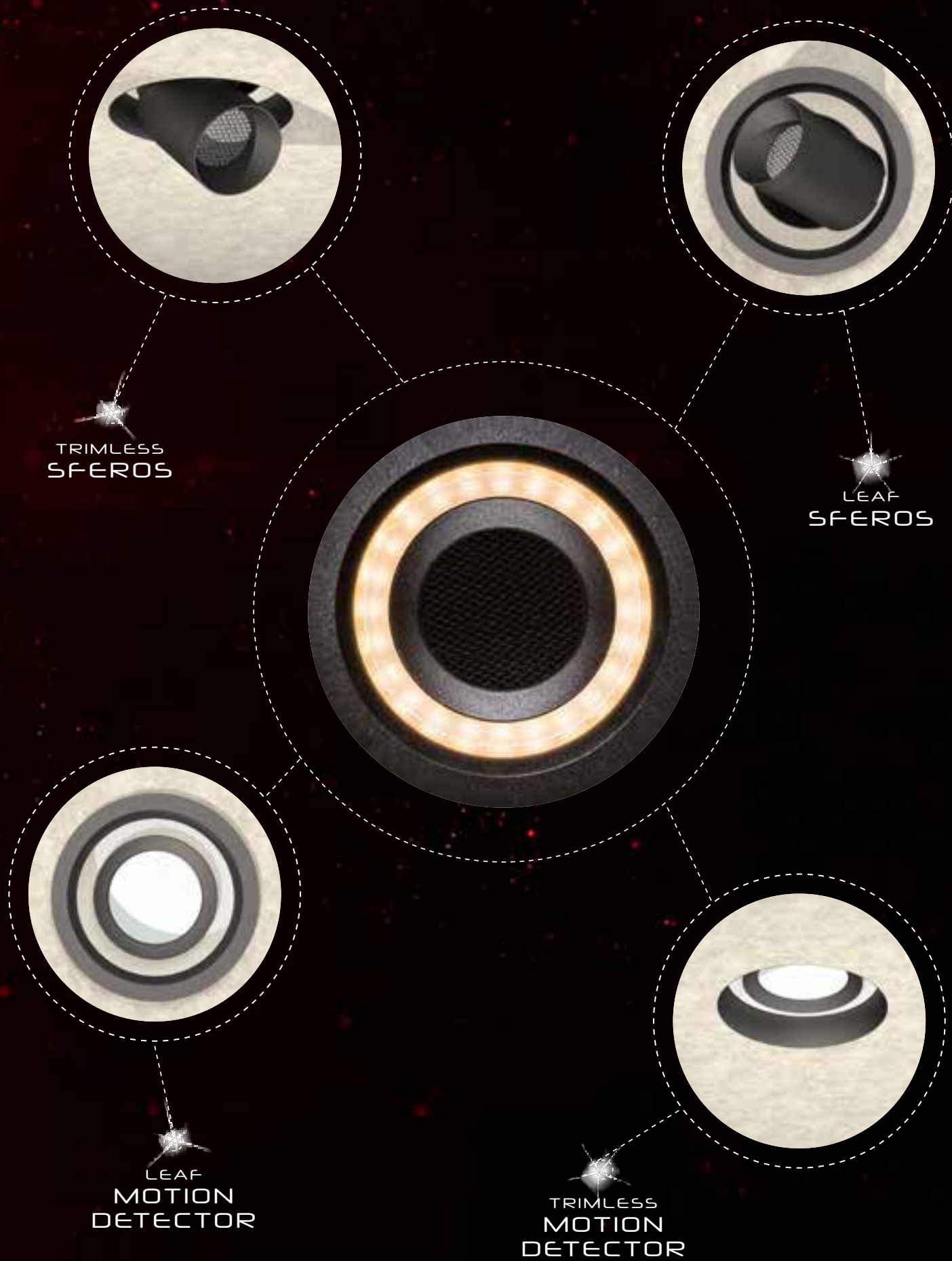
SYNERGY

TAL ARCHITECTURAL LIGHTING & ELEK TRENDS PRODUCTIONS

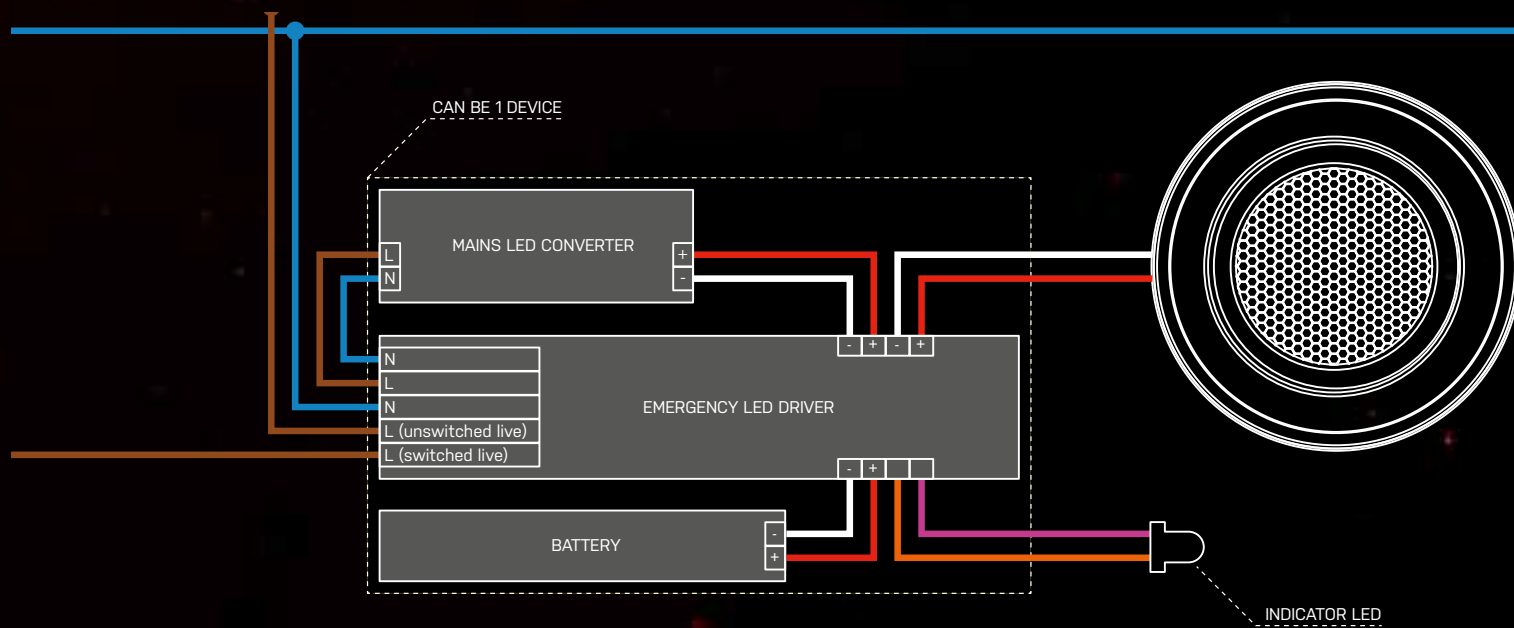
Orbital is the result of a collaboration between 2 different companies, each being a specialist in its domain. TAL as specialist in architectural lighting has taken care of the lighting concept, ETP as specialist in mechanical ventilation has taken care of the ventilation part. Orbital is the symbiosis of lighting and ventilation.



ORBITAL FUTURE OPTIONS



WIRING DIAGRAM ORBITAL + EMERGENCY



Modern Architecture is limitless. Throughout the process of designing a product – from the basic concept to determining the smallest detail – the ambition should remain the same: eliminate all redundant elements in view of retaining only the essential.

AABE

In its Brussels head quarters AABE, founded and led by architect Bruno Erpicum, gathers a team of passionate architects who realize multidisciplinary projects across the globe.

More than 30 years of experience have resulted in the realization of different types of projects including private dwellings set in an urban context, secluded villa's located on a remote hilltop yet also buildings with a more public function such as museums, office buildings, hotels, commercial real estate, etc.

The numerous publications and awards granted to AABE underpin the worldwide appreciation for the Ateliers' architectural philosophy.

The Atelier consists of 15 architects and is hence big enough to master multidisciplinary projects, yet small enough to function as a team collaborating to achieve a unique project - time and time again.

ABOUT THE DESIGNER

Bruno Erpicum



"Eliminate all redundant in view
of retaining only the essential."



ORBITAL

A ceiling represents the sky of a room. Almost never decorated nor 'littered' with furniture but instead often the only free surface in a room. And yet, very little attention is paid to the design of a ceiling. Lighting, aeration, music, AC, movement detectors, etc. The panoply of techniques required in today's rooms, leads to the fact that 'designing' the ceiling in a uniform color is often the highest achievable goal.

The architects at the Brussels' based studio Bruno Erpicum, have been dreaming for many years about a uniform and standard object that integrates all of the abovementioned techniques and has found the perfect partner in lightning company TAL to realize this objective. The ambition was clear from the start: designing a basic object that hides all of these techniques from the eye.

The Orbital was created: a minimalistic cylinder integrating a wide array of techniques in an ingenious manner. The result: a pristine ceiling whereby merely a few vacant cut-aways cluster the techniques.
Ratio? There is more in less.



TAL
TECHNICAL
ARCHITECTURAL
LIGHTING



www.tal.be/orbital - www.elektrends.be/orbital