

Press release

## **PANOS LED Downlight Range – the future of Downlights is now**

**Lightweight, no housing, and with only half the installation time, the Zumtobel PANOS LED downlight family shines in innovation, functionality, and performance.**

*Highland, New York, April 2016*– PANOS was developed in collaboration with Sottsass Associati with the skylight of the Pantheon in mind. Natural light as inspiration requires a light source and a reflector that are able to match it. To achieve this, Zumtobel developed a unique combination of LED chip and reflector. The reflector designs are comprised of compound polycarbonate and a micro-thin, high-quality sputtered finish, which yields superior, high-performance optical solutions. The choice of this compound material was inspired by space technology, where it has proven itself to be a strong yet lightweight solution mostly used for space helmets. Additionally, the material allows for a vast range of reflector finishes.

There are four main key advantages to PANOS:

- **Up to 125+ Lumens per Watt Efficacy**  
Highly reflective surfaces in the mixing chamber are supplemented by a diffuser film with an extraordinary degree of emission. This highly efficient light chamber concept provides for mixing-chamber efficiencies close to 100%.
- **Efficient and Beautiful Reflector Technology**  
Precision-formed, high-quality compound polycarbonate reflectors ensure optimum light distribution and consistently repeatable efficiency levels due to a unique sputtering technique.
- **No Housing Required**  
The innovative design allows for installation times that are twice as fast as traditional downlights with housing. In addition, the driver module can be installed from below or simply placed into the corner of the ceiling “T”. The lighting module also uses a quick-connect for power and can be installed in a mounting ring without the use of tools.

- **Easy to Change and Maintain in the Field**

The tool-free concept of PANOS makes this luminaire adaptable to many different application needs. A vast array of reflector finishes is offered as well. In the rare case when maintenance is required, drivers, light engines, and reflectors can be changed with minimal effort.

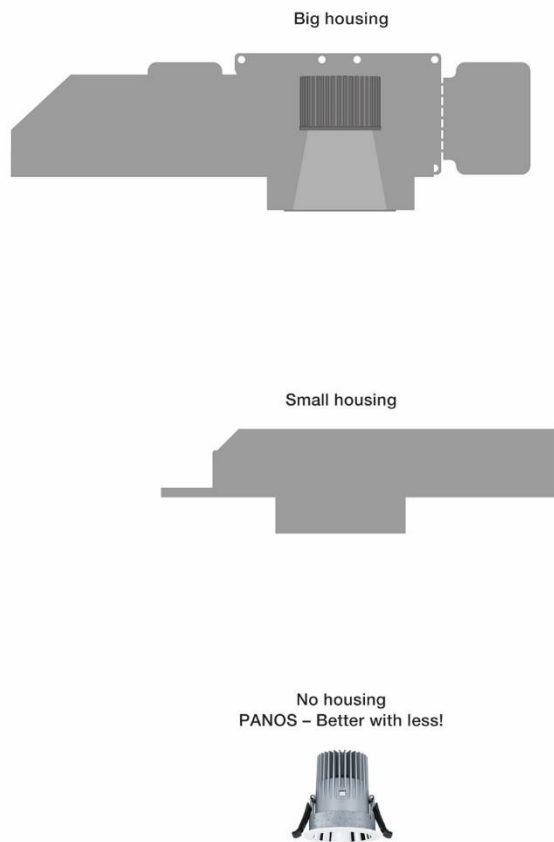
The propriety high-tech coating technology of sputtering—a unique, high-quality 4-chamber metalizing process in a high pressure vacuum—provides significant benefits to the user. The unique combination of the first two layers ensures perfect glare control and optimal light distribution. An additional nano layer protects against scratches and fingerprints. Fingerprints can now be easily removed after installation, which is not possible with most downlights. Not only does this compound material provide for extremely high efficacy levels, Zumtobel prides itself on this clean process. The sputtered PANOS reflectors are 100% recyclable!

PANOS downlights are powerful and efficient and combine a very broad range of features and functionality while blending perfectly into the architecture. Bulky, costly, and over-complex housings are a thing of the past. With PANOS, there is no need for a housing at all. Compared to standard downlights that require large housings, the minimal, compact design of PANOS installs with ease and in half the time.

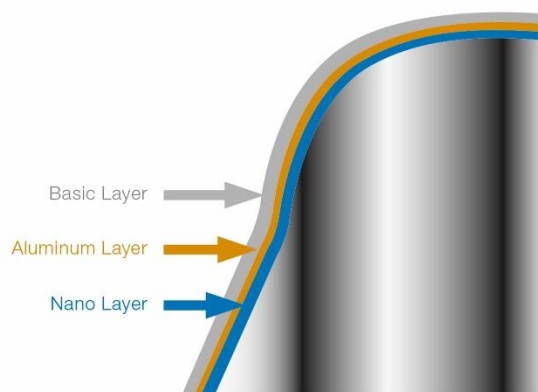
With a very efficient LED chip, a highly effective passive cooling system, and a shallow heat sink, PANOS downlights are truly sustainable luminaires in terms of installation and operation. This market-leading product from Europe, which is compliant with ANSI/UL product safety standards, is ready to install right out of the box in US ceilings. PANOS stands for unmatched light quality, reduced installation time, and no concern about above-ceiling space.

The strong design concepts and innovative technologies of the PANOS family make it one of the most comprehensive LED downlight ranges. The PANOS family includes round and square versions; diameters in 2.7" (68 mm), 3.9" (100 mm), 5.5" (140 mm), and 5.9" (150 mm); flanged or flangeless trim; reflector surfaces in clear specular, clear semi-specular, matte, white, gold, and faceted; color temperatures of 2700K, 3000K, 3500K, and 4000K; a luminaire efficacy of up to 125+ lm/W; and color rendering of Ra 80+ and Ra 90+. The number of iterations for the PANOS is nearly limitless.

Picture 1: Inefficient downlights that are bulky, heavy, and a nightmare to install and maintain are history.





Picture 2: Zumtobel advancedOptics Reflector – Sputtered Reflector Finish





Picture 3: PANOS 3.9" (100 mm)



<p><b>PANOS 2.7" (68 mm)</b> 2.25" aperture Round and Square</p>	
<p><b>Color Rendering Index</b></p>	<p>80+ 90+</p>
<p><b>Color Temperature</b></p>	<p>2700K 3000K 3500K 4000K</p>
<p><b>Luminaire Efficacy</b></p>	<p>Up to 84lm/W</p>
<p><b>Luminous Flux</b></p>	<p>Up to 840 lm</p>
<p><b>Versions</b></p>	<p>Spot 15 ° Beam (Clear Specular Finish Only) Flood 24° Beam Very Wide Flood 51° Beam</p>
<p><b>Dimming Options</b></p>	<p>0–10V Lutron DALI</p>

<p><b>PANOS 3.9" (100 mm)</b></p> <p>3.4" aperture Round and Square</p>	
<p><b>Color Rendering Index</b></p>	<p>80+ 90+</p>
<p><b>Color Temperature</b></p>	<p>2700K 3000K 3500K 4000K</p>
<p><b>Luminaire Efficacy</b></p>	<p>Up to 115 lm/W</p>
<p><b>Luminous Flux</b></p>	<p>Up to 2069 lm</p>
<p><b>Versions</b></p>	<p>Low: 60° Cut Off High: 45° Cut Off</p>
<p><b>Dimming Options</b></p>	<p>0–10V Lutron DALI</p>

<p><b>PANOS 5.5" (140 mm)</b></p> <p>4.75" aperture Square only</p>	
<p><b>Color Rendering Index</b></p>	<p>80+ 90+</p>
<p><b>Color Temperature</b></p>	<p>2700K 3000K 3500K 4000K</p>
<p><b>Luminaire Efficacy</b></p>	<p>Up to 123 lm/W</p>
<p><b>Luminous Flux</b></p>	<p>Up to 2208 lm</p>
<p><b>Versions</b></p>	<p>Low: 78° Cut Off High: 62° Cut Off</p>
<p><b>Dimming Options</b></p>	<p>0–10V Lutron DALI</p>

<b>PANOS</b>  5.9" (150 mm) 5.2" aperture Round only	
<b>Color Rendering Index</b>	80+ 90+
<b>Color Temperature</b>	2700K 3000K 3500K 4000K
<b>Luminaire Efficacy</b>	Up to 125+ lm/W
<b>Luminous Flux</b>	Up to 2328 lm
<b>Versions</b>	Low: 76° Cut Off High: 60° Cut Off
<b>Dimming Options</b>	0–10V Lutron DALI

#### About Zumtobel Lighting, Inc. (Americas Division)

Zumtobel Lighting, Inc. based in Highland, New York, is a subsidiary of Zumtobel Group AG. As an innovation leader in the North and South American markets, Zumtobel provides next-generation lighting solutions and luminaires. Designed in both the United States and Austria, Zumtobel luminaires are manufactured in Highland, New York. Zumtobel Lighting, Inc. strives to meet the evolving needs of its customers and ships its most popular product in 10 days or less and standard product offerings within 4 - 6 weeks with an industry leading 98% on-time delivery rate. [www.zumtobel.us](http://www.zumtobel.us)

#### About Zumtobel

Zumtobel, a leading international supplier of integral lighting solutions, enables people to experience the interplay of light and architecture. As a leader in innovation, Zumtobel provides a comprehensive range of high-quality luminaires and lighting management systems for professional interior lighting in the areas of offices, education, presentation & retail, hotel & wellness, health, art & culture as well as industry. . Zumtobel is a brand of Zumtobel Group AG with its head office in Dornbirn, Vorarlberg (Austria).

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**Zumtobel. The Light.**