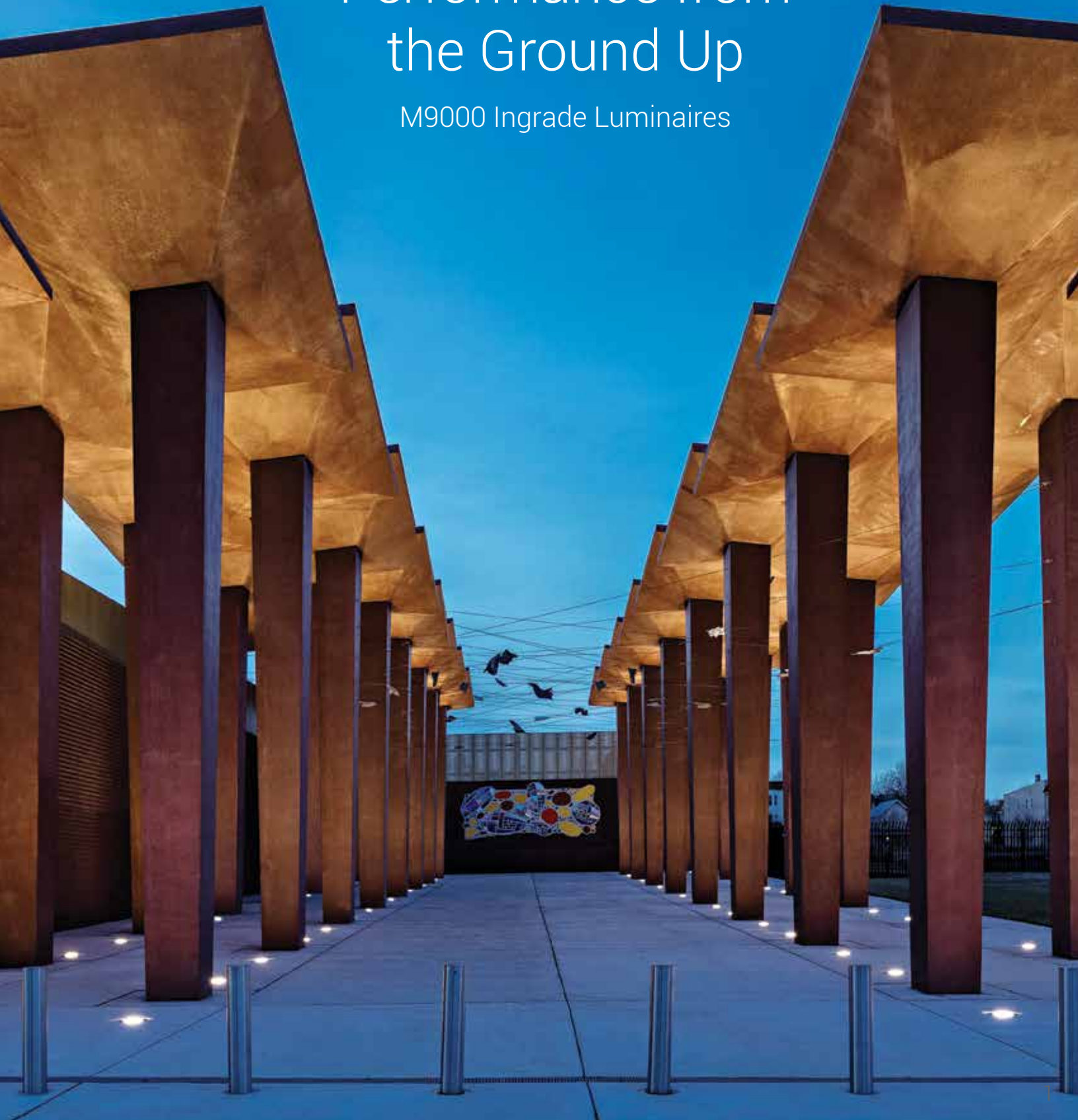




# Performance from the Ground Up

M9000 Ingrade Luminaires





Minneapolis Institute of Art, MN  
M9700C RGB

## Performance From the Ground Up

Built to withstand assaults from heavy foot traffic, flooding, and the challenges of heat management - Hydrel's architectural ingrades deliver consistent lighting performance designers count on. From the ground up.

### Quality

Hydrel luminaires incorporate innovative sealing capabilities, superior materials and long-lasting finishes, promising decades of use with minimal maintenance. Structural integrity that is unmatched in the industry.

### Performance

Hydrel is committed to lighting performance, featuring the most advanced light sources and optics to create a wide variety of lighting effects. Combining today's smaller, more efficient sources with precision optical platforms, Hydrel achieves photometric performance seldom experienced in outdoor lighting - a soft, uniform illumination that is noticeably superior.

### Design

You'll discover our outdoor architectural ingrades that offer more options, more lumens, and better technologies. Plus, architects and lighting designers are equipped with a high level of aesthetic continuity across all segments of their lighting design.



The M9000 Series



9"

M9400C

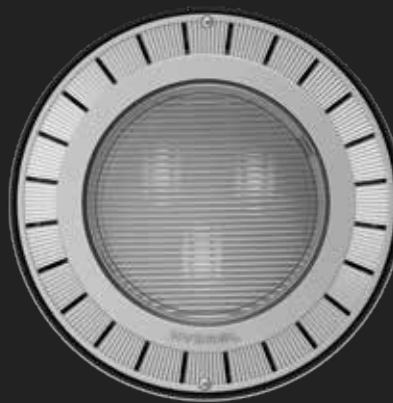
A powerful ingrade that delivers unmatched high-quality illumination.



18"

M9800

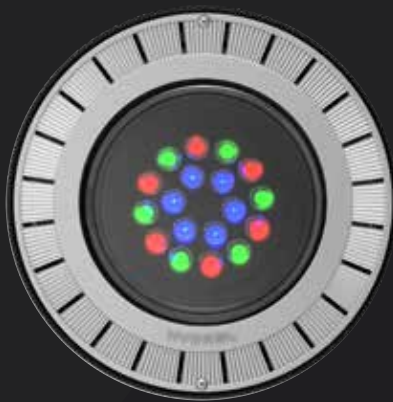
A luminaire with a tight spot pattern that can illuminate 15 stories high.



12"

M9700C

More lumen output, color temperatures and options than standard uplights.



12"

M9700 RGB

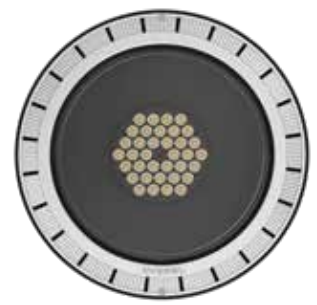
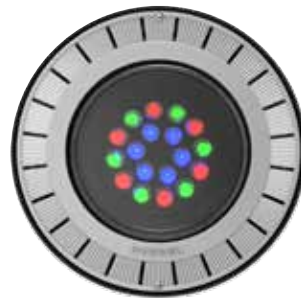
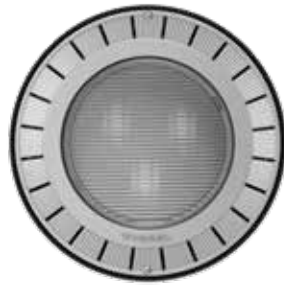
Create impressive façade lighting or bring outdoor art to life for extraordinary experiences.



12"

M9700 RGBW

Uplight architectural columns and landscape features with dynamic rich colors or soft whites.



OPTIONS

M9400C STATIC WHITE    M9700C STATIC WHITE    M9700 RGB    M9700 RGBW    M9800C MONOCHROMATIC COLOR

Delivered lumens	2,527	4,205	933	2,318	4,828
Door: Round or Square, Single or Dougle Lens	x	x	x	x	x
Factory sealed LED lamp module and encapsulated power module	x	x	x	x	x
Optical and mechanical aiming with an optional double lens	x	x	x	x	x
Single lensed fixture offering 10° and 20° optical tilt lens	x	x	x	x	x
Optimal efficiency through photometric improvements	x	x	x	x	x
Color temperatures	5	5		40K	7
Amber Limited Wavelength	x				
Color-mixing			x	x	
Distributions	6	7	6	6	7
Flow-Thru Technology	x	x	x	x	x
360° Aim-Lock Technology	x	x	x	x	x
IK10 Option available	x	x	x	x	
MVOLT	x	x	x	x	x
Internal and external accessories	x	x	x	x	x
IP68	x	x	x	x	x
10 different finishes	x	x	x	x	x
Zinc undercoat for harsh environments	x	x	x	x	x

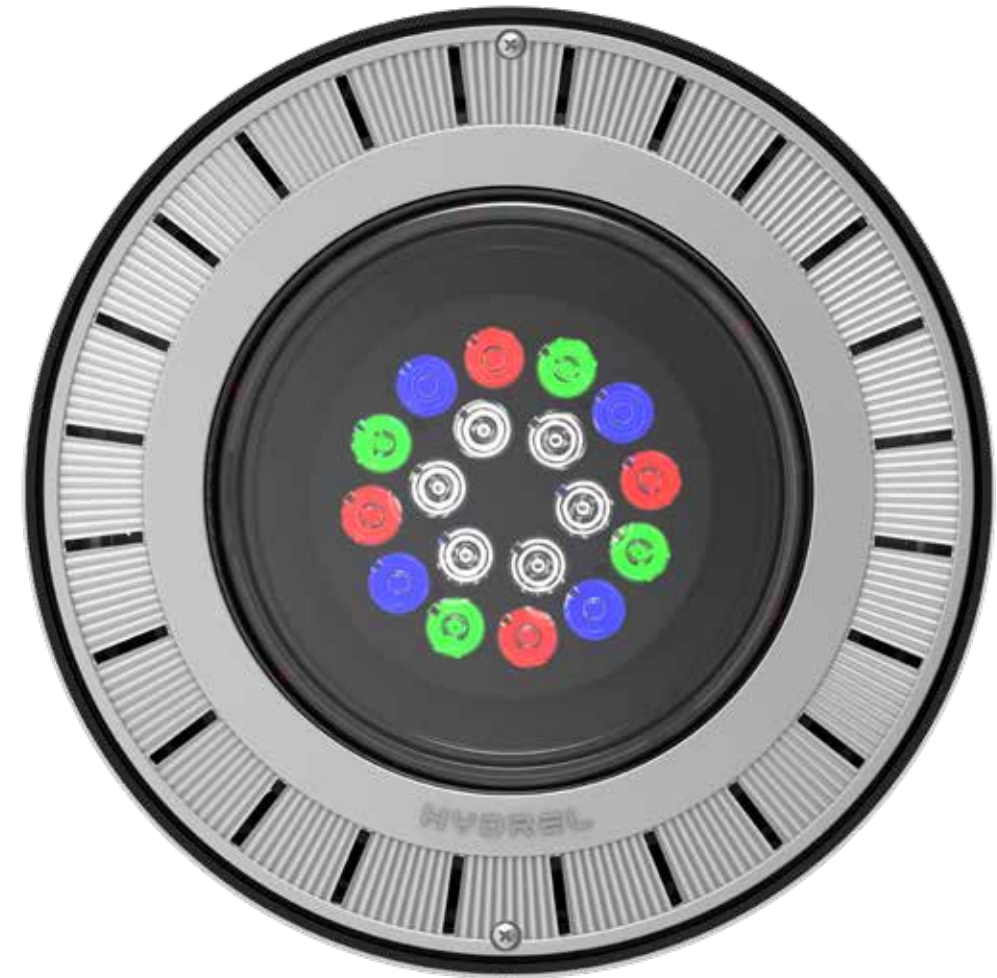
CONTROLS

In-line (Dims to Dark)	x	x			
0-10V Dimming (Dims to Dark)	x	x			x
DMX512			x	x	
DMX/RDM			x	x	

## SPOT ON

Design beautiful unobtrusive views of landscapes, add depth and dimension to trees and fill facades with color with M9700 RGBW. M9000 ingrade series adds RGBW to its inground LED family for endless design possibilities in architectural illumination.

- | Customize RGBW color combinations to suit any lighting design application
- | Optical and mechanical aiming with an optional double lens
- | Optimal efficiency through photometric improvements







Façade: M9700 RGBW, Round Door Double Lens, Wall Wash

Pathway: M9700C Static White, 3500K, Round Flat Lens Clear, 20° tilt, Slip Resistant, Linear Spread Filter, 0-10V Dimming

Tree: : M9700 RGB, Round Door Double Lens, Narrow Spot





Disney Concert Hall, LA, California  
M9400C Static White Ingrades





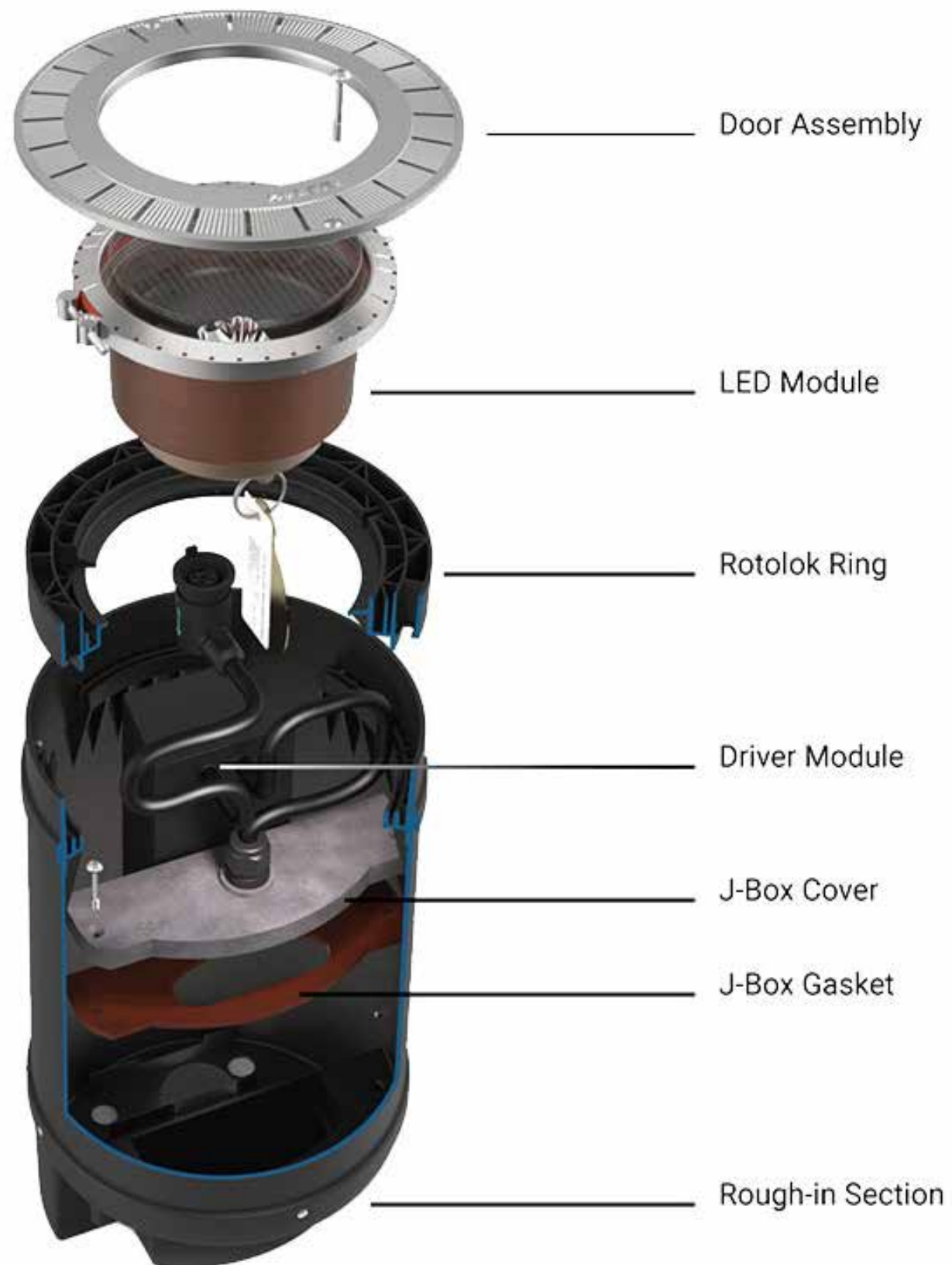
Disney Concert Hall, LA California  
M9400C Static White Ingrades





DTE Energy, Detroit, MI  
M9400C Static White





Modular Design

## BETTER TECHNOLOGY

### Strong, Robust Housing Construction

The M9000 ingrade series leads the industry with an IP68 rating, ensuring product longevity against moisture and condensation.

### Precise Heat Protection

Ingrade fixtures often have challenges with heat removal, leading to overheated internal components and high lens temperatures. And if there is the possibility for direct human contact, ingrade products need to be built with measures to protect humans from injury. The M9000 series double lens model creates an insulating layer of air to circulate between two lenses, reducing heat by up to 50%.

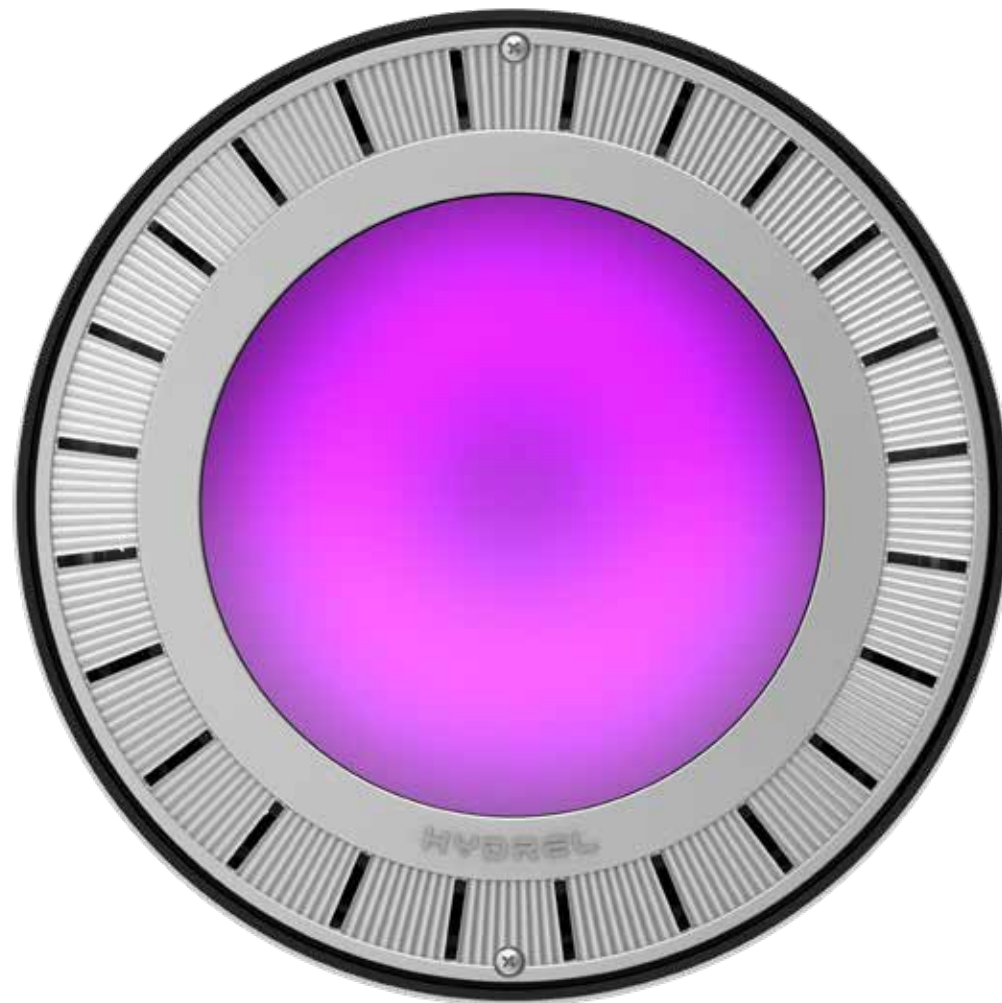
### Easy Aiming

The double lens supplied with the built-in tilt mechanism in M9000 ingrade luminaires can be aimed at a 15° tilt and rotated 360°. Use both mechanical and optical aiming techniques for aiming versatility. Aim-Lock technology features components indexed and locked to allow re-lamping and maintenance without re-aiming.

### Optimal Lighting Output

The M9000 LED ingrades deliver exceptional uniformity and on-target illumination, resulting in the right amount of light for your design. M9000 ingrades offer thermally optimized LED modules for a long LED life.





## COOL OPERATION

Convection cooling is made possible by air circulation within the container. The M9000 Series achieves a 30° - 40° cooler operation through improved convective cooling and the double lens option.

### Double Lens Technology

The M9000 Series double lens models provide an insulating layer of air for additional cooling. When the potential exists for direct human contact with lenses, care is required to protect pedestrians from injury. The M9000 Series Double Lens models ensure lower surface temperatures by using two separate lenses with cool air circulating between them.





Taco Bell HQ, California  
M9400C Static White Ingrades, Purple Filter





Taco Bell HQ, California  
M9400C Static White Ingrades, Purple Filter





Los Angeles Zoo  
M9400C Static White Ingrades









## FLOW-THRU TECHNOLOGY

### The Technology

M9000C series combines underwater lighting technology expertise and modular design to create the patented flow-thru technology. The modular design makes a water-tight module and junction box. This engineering technique ensures peak performance and improves the life of the internal components.

### The Modular Design

The flow-thru design starts at the rough in sections with a molded junction box and holes at the bottom. As a result, it creates a pathway for water to flow through the fixture.

### The Result

It's a maintenance-free design! Easily remove the sealed lamp modules - no need to depend on a water-tight shell to protect lighting components. These architectural ingrade fixtures are thermally optimized for long LED life and provide consistent lumen output from luminaire to luminaire.





M9400C

#### Performance Package

M9400C LED 40K MFL		
Performance Package	Watts	Lumens
P1	10W	1129
P2	20W	2154
P3	27W	2841
P4	33W	3364

M9700C LED 40K MFL		
Performance Package	Watts	Lumens
P1	29W	2766
P2	35W	3271
P3	46W	4309
P4	53W	4641

#### Setback

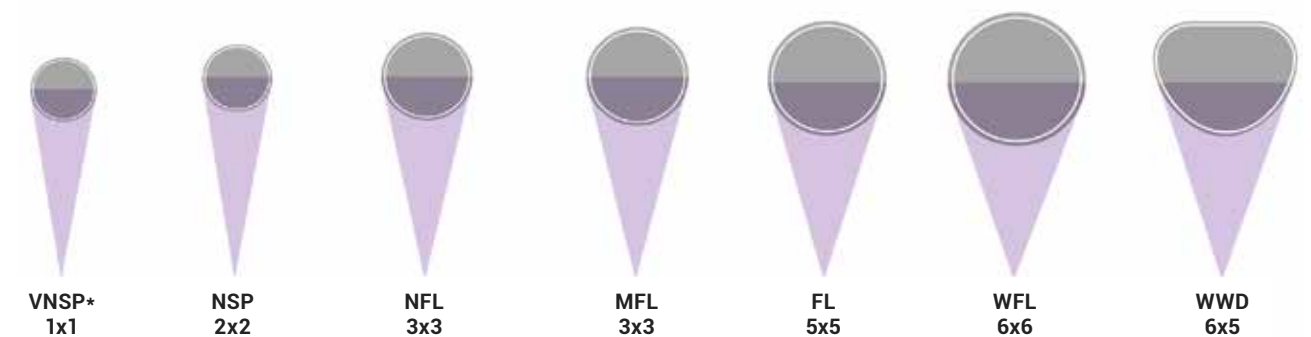
Example: M9410C P1 40K WWD FLF	
Setback	8 ft.
Wall Height	30 ft.
Wall Width	35 ft.
On Center Spacing	10 ft.
Fixture Quantity	3

## MORE OPTIONS

- Wide-range of performance packages
- Improved optical and mechanical aiming with an optional double lens
- In-line & 0-10V dimming controls
- Seven distributions
- Static White, Monochromatic, RGB and RGBW
- Expanded optional accessories such as honeycomb louver, glare shield and rock guard
- Selection of ten finishes with the additional option of a zinc undercoat

### Optics for any Application

The M9000C LED ingrades provide a full palette of optics to light any ingrade application including a true wall wash optic.











East Ontario, California  
M9700 LED Static White Ingrade





The Passing of the Buffalo, Muncie, IN  
M9700C LED Static White, 4000K





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