THE NEW YORK FAMILY OF LIGHTING

Whether residential neighbourhoods, collector roads, main thoroughfares, pedestrian crossings, plazas or traffic circles, you’re certain to find exactly the right fit for your particular lighting situation in the NEW YORK family of LED luminaires.

NEW YORK comes with one or two LED modules, for pole top or bracket mounting and with single or twin bracket. And, since negative tilt adjustment is possible, NEW YORK is suitable for mounting on davit arm poles.

Designer: SVEN VON BOETTICHER
The RAP module embodies revolutionary LED technology and advanced lighting, making it the ideal choice when much is expected. Thanks to its modular design, streetlights in which it is housed retrofit at any time with the latest LED technology.

The LED module is a complete system, whose individual members perfectly interact with each other, in particular, the optical components, including the LEDs, reflector, optical control and the module’s undulated formed enclosure.

WORKMANSHIP

The PMMA enclosure is tightly bonded to the module’s mounting plate and provides reliable protection against moisture, insects and foreign particles for long-lasting, consistently high light quality.

GLARE-FREE LIGHTING

The precision-designed and -configured facetted reflectors economically and homogeneously distribute the light emitted from the high-power LEDs to the targeted, walkways, streets and open spaces. Their precise optical control protects motor vehicle drivers, pedestrians and individuals in adjacent buildings from disturbing glare.

UNDULATED ENCLOSURE

The RAP module’s unique undulated cover is specifically designed for the module’s specific beam angle and minimizes the loss of light due to reflection.

LOSS-FREE INSTANT START

Immediately upon start or restart, the RAP module reaches full lumen output.

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LED LIGHT HARNESSED TO PERFECTION BY OSRAM
NEW YORK 700
- For residential or collector roads and plazas, etc.
- Suitable for pole top or side mounting
- Mounting height: 4 – 6 m
- Light colours: Neutral white or warm white

NEW YORK 1000
- For collector roads, main through/feeder, plazas and traffic circles
- Suitable for pole top or side mounting
- Mounting height: 6 – 10 m
- Light colours: Neutral white or warm white

Product Information
www.hess.eu/1500

S OPTICAL SYSTEM
For narrow streets
Extra wide distribution
Pole height: 4 – 5 m

ME OPTICAL SYSTEM
For wide streets
Greater forward throw
Pole height: 6 – 10 m

FG OPTICAL SYSTEM
For pedestrian crossings
Asymmetric (left, right)
Pole height: 6 – 10 m

Lighting Classes
S1 S2 S3 S4 S5 S6 ME1 ME2 ME3 ME4a ME4b ME5 ME6
NEW YORK 700
- - - - - -

NEW YORK 1000
- - - - - -

THE FAMILY
THE 3-ZONE REFLECTOR

Homogeneous Light Distribution + Zero Glare = Safety
THE 3-ZONE REFLECTOR FOR GLARE-FREE LIGHTING

DISTANT
The V-shaped facetted centre reflector aims the light that illuminates the area furthest from the luminaire and keeps the LEDs out of sight, which is the most effective means of preventing glare.

MID-RANGE
The light illuminates the target area without optical control. Since the LEDs are hidden from sight, there is no direct glare for the viewer.

CLOSE-UP
An extra facetted reflector, positioned on the side, aims the light that illuminates the area directly under the luminaire, keeping the brightness there uniform and pleasant.

UNIQUE
NEW YORK’s facetted reflector ensures motor vehicle operators, pedestrians and people in adjacent buildings are not subject to glare. The reflector’s facets break the light of the individual diodes into multiple smaller beams, distributing the brightness across a larger reflector area. The benefits of this design are minimized glare and extremely homogeneous light that uniformly illuminates the target area.
Effective thermal management is vital to LED longevity and high efficacy. Hess employs a special design that enables the RAP module’s metal plate to have full-surface contact with the luminaire housing, which allows the heat generated by the LEDs to dissipate effectively. The cooling fins enlarge the surface area of the luminaire housing, increasing its heat-dissipating capacity.

**The Material**

The surface of the luminaire housing is smoothly finished and angular, making it easy for rain to wash away any dust and dirt that may have accumulated between the cooling fins.

**The Design**

The cooling fins were carefully designed with minimum space between the individual fins to prevent the collection of leaves.
**DIM FOR MAXIMUM EFFICIENCY**

**STANDARD DIM SYSTEMS FOR USE WITH THE STANDARD DRIVER**

**DAli**
The driver comes with a DAli interface and easily integrates into any DAli-operated lighting system.

**StepDIM**
The luminaires are factory-set to dim to a single stage (30%, 50% or 70%).

The control, which is integrated into the ballast, operates via an additional 230-V control lead.

**AstroDIM**
AstroDIM has an infinite range of 10-100%. The customer can specify a maximum of two stages (e.g., 80% and 40%), which Hess sets at the factory.

The ballast with the integral control also determines the hypothetical midnight time. This dimming system does not require an external control infrastructure.

**DIM PRO – INTELLIGENT DIMMING WITH SENSORS**

- **DIM pro**
The control system includes an auxiliary module, motion detector, and an antenna in the luminaire housing as well as an external GPS-capable master module. The master module communicates via radio and links to the other luminaires. Operations have an antenna system with a control center or a control module. The luminaire has a software package which allows the operator to programme the system as required.

<table>
<thead>
<tr>
<th>Time of Day</th>
<th>Power Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Evening (high traffic volume)</td>
<td>100% power</td>
</tr>
<tr>
<td>Night dimming (medium traffic)</td>
<td>e.g. 20% power</td>
</tr>
<tr>
<td>Event</td>
<td>e.g. 50% power, limited time</td>
</tr>
<tr>
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Evening (high traffic volume)

Night dimming (medium traffic)

E.g. 20% power

Event

E.g. 50% power, limited time

Early morning (low traffic volume)

20% power
Like with other light sources, LEDs’ light output degrades over time. To ensure the level of lighting remains code-compliant throughout the light source’s entire service life, many manufacturers overdrive their luminaires, increasing the output over the required level at the beginning of the lamp’s operating life. As a result, the lighting uses more electricity than is actually required.

In contrast to many other manufacturers, Hess employs a carefully designed system to regulate the use of electricity and keep the lumen level constant. As the lumen output drops over the years of use, the system raises the wattage, keeping the level of illumination constant and code-compliant for the entire service life of the LEDs.

The system uses only the exact amount of electricity that is required. Hess’ technology adds more efficiency to the high economy provided by LEDs, providing you with even greater savings.

**EFFICIENCY PAYS**

Minimum energy consumption with constant luminous flux thanks to the controlled adjustment of the wattage to compensate for the natural degradation of LED luminous output.
100% Anti Sky Glow

The luminaire Easily tilt adapts to the ideal position for the specific street or mounting height, ensuring that the light does not emit upwards, but remains in the lower half-plane, i.e. full cut-off.

Added Upgrade Versatility

Pole Top Mounting
0° to 10° in 5° increments

Side Mounting
-20° to +10° in 5° increments

Easy Maintenance

The luminaire simply retrofits with new technology during regular maintenance. Hess luminaires' high-quality design, workmanship and materials virtually guarantee that the LEDs will deliver all they're technically capable of — in terms of lighting and longevity.
NEW YORK Luminaire

Cast aluminium housing and PMMA luminous enclosure. Available with 60- or 76-mm spigot for pole top or side entry mounting. Finish is DB 295. Comes with RAP LED light module and choice of 5, 6C or FG 0 optical system. Available light colours are 3000 or 4700 K (only 4700 K with FG0). Orders without or with night economy feature (DALI, StepDI m, astroDI m).

Ingress protection IP66

Choice of S, m E or FGO optical system. Available light colours are 3000 or 4700 K (only 4700 K with FGO). Orders without or with night economy feature (DALI, StepDI m, astroDI m).

Options:
- Other finishes. Flange plate. DI mpro night economy feature.

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Order No.: article No.

Product Name | article No. | Length (mm) | Bracket Spigot (mm) | Pole Spigot (mm) | Bracket
--- | --- | --- | --- | --- | ---
NEW YORK 4500 Pole | 10.2201.4500 | 4500 | 76.1 | 76.1 | single
NEW YORK 6000 Pole | 10.2201.6000 | 6000 | 76.1 | 76.1 | single
NEW YORK 8000 Pole | 10.2201.8000 | 8000 | 76.1 | 89 | single
NEW YORK Bracket | 10.24201.4500 | 4500 | 60 | 60 | single
NEW YORK Bracket | 10.24201.6000 | 6000 | 60 | 60 | single
NEW YORK Bracket | 10.24201.8000 | 8000 | 60 | 60 | single
NEW YORK Bracket | 10.24201.0890 | 89 | 89 | 89 | single
NEW YORK Bracket | 10.24201.0600 | 60 | 60 | 60 | single
NEW YORK Bracket | 10.24201.0129 | 129 | 129 | 129 | single

Product Name | article No. | Spigot | Light Source
--- | --- | --- | ---
NEW YORK 250 | 10.24201.0 | ø76.1 | 
NEW YORK 700 Luminaire | 10.14200.0 | 60/76.1 | 
NEW YORK 8000 Pole | 10.24201.8000 | 8000 | 76.1/89
NEW YORK 6000 Pole | 10.24201.6000 | 6000 | 76.1