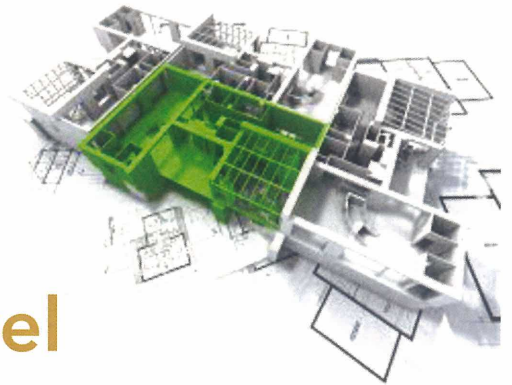


**award winning
energy efficient light fixture
to complement your
energy efficient lamps**



**improve power density performance
use fewer luminaires
lower operating expense
meet desired illuminance level**



Nanoflex[®]

Your Most Energy Efficient Lighting Fixture

Your Most Energy Efficient Lighting Fixture - Nanoflex®

Breakthrough in Sustainable Illumination for Built Environment

A quality light source, be it LED, fluorescent, induction or OLED technology, means nothing for lighting applications if you install inefficient lighting fixtures. Typical light fixtures are between 40% to 70% efficient, meaning light loss of 30% to 60% when installed.

Nanoflex® defines energy efficient illumination by incorporating **Lambertian optical technology** with design. The result - highly energy efficient luminaires that provide volumetric brightness by enhancing visual clarity and comfort. **Nanoflex®** minimize luminance wastage, a vital feature in today's sustainable workplace environment.

More Energy Efficient

Nanoflex® luminaires improve power density performance by allowing you to use fewer luminaires to achieve the desired illuminance level, meaning lower capital and operational expenses.

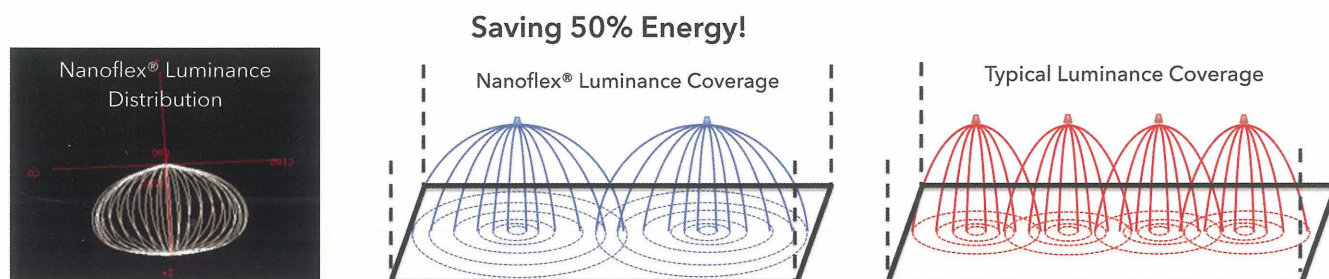
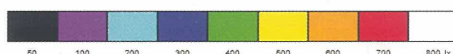
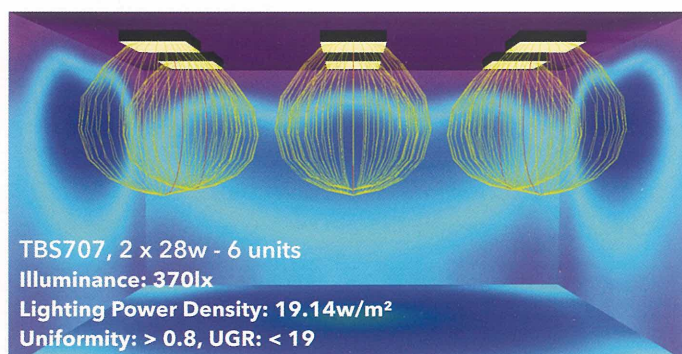
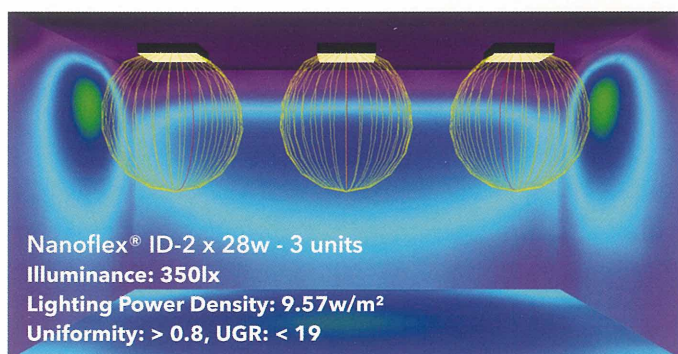


Illustration of luminance distribution of **Nanoflex®** Luminaire (centre, blue) as compared to typical luminaire (right, red) shows how **Nanoflex®** Luminaire can cover the same space with brightness more efficiently than typical luminaire. This is possible with the unique luminance distribution of **Nanoflex®** Luminaire (left, black).

Volumetric Quality Brightness with Less Fixtures Required

The luminance distribution from **Nanoflex®** luminaires allow wider distance between luminaires complying with illuminance, light uniformity and glare guidelines from **EN-12464-1** and well within energy performance standards of **ANSI/ASHRAE/IESNA**. **Dialux** simulation below with **IESNA** format data clearly shows the **Nanoflex®** advantage over a global brand name luminaire by lowering capital and operating expenses with fewer luminaires installed, less energy consumed, and giving you unequalled illumination.



DIAL
light building software

Nanoflex® achieve quality illuminance level with **50% LESS LIGHTING ENERGY!**

Visual Comfort Leading to Higher Workplace Productivity

The direct link between visual comfort and productivity is clear - 90% of our daily activities rely on the eyes.

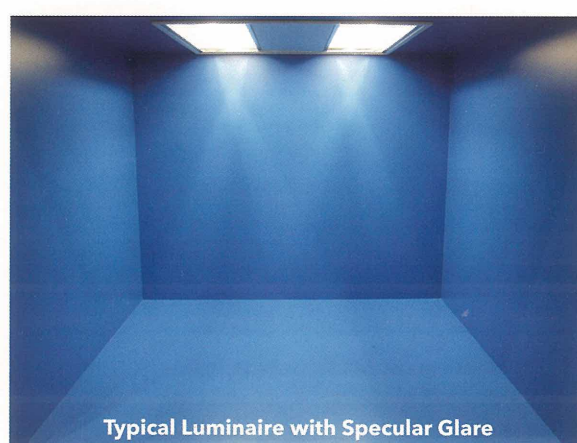
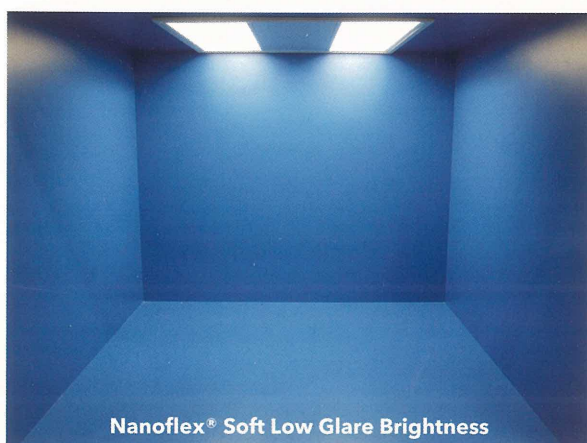
Recent study by **Rocky Mountain Institute** and **US**

Department of Energy conclude that quality illumination can raise productivity **up to 16%**. The benefits are substantial as human resources make up the biggest expense in any organization.

Nanoflex® luminaires minimize eye fatigue by giving:

- ✓ Better lighting uniformity which reduces glare
- ✓ Visual comfort that comes from soft, volumetric brightness

Prolonged activities requiring the use of the eyes become less of a strain, and productivity increases.



Safe, Durable, Green & Sustainable

All **Nanoflex®** luminaires are built to withstand the most stringent requirement for indoor and outdoor environment. It was engineered to meet **British Standard 476 Part 6 & 7** for fire safety and complies with **EU 2002/95** standard for **RoHS**.

To ensure compliance to construction industry requirements in most Asian countries, **Nanoflex®** was further tested under **Japan Industrial Standard** for Adhesion, Impact Resistance, Crazing Resistance and High-Low Temperature Resistance. Apart from its robust construction, the **Lambertian** optical material was also categorized as a Hong Kong Green Label product by **Green Council** of Hong Kong. **Nanoflex®** is also a member organization of **Hong Kong Green Purchasing Charter**.





**green
building
award 2012**
環保建築大獎

Merit Award 優異

Building Product Category
建築產品類別

Leader in Green Building Illumination

At the **Hong Kong Green Building Award 2012**, **The Nanoflex® Indirect Luminaire** was accorded Merit Award in the Products category, making it the **ONLY** lighting product to be accredited.

Nanoflex® was also recognized and presented at the **International Green Building Conference 2012** in Singapore, as well as **Cleantech San Francisco 2012** as a Hong Kong Innovation Showcase for energy efficient lighting.

Innovation through Partnership

Nanoflex® strive for innovation excellence through continued partnership with industry leaders. As a member organization of **Zhaga**, a global consortium of LED stakeholders, **Nanoflex®** is well positioned to ensure sustainable LED solution for the future.

PHILIPS
sense and simplicity

OSRAM

EcoSystem.
Compatible

CLTC
CALIFORNIA LIGHTING TECHNOLOGY CENTER

Partnering the prestiges **California Lighting Technology Centre**, **Nanoflex®** uses cutting edge lighting technology and continues to innovate, comply and possibly set future standards in sustainable illumination for the Built Environment.

For further information on **Nanoflex®**, please contact info@nanoflex.info or Skype [nanoflex.info](https://www.skype.com/name/nanoflex.info)

Authorized Distributor



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Guangzhou, China



Nanoflex® Direct-Indirect System
Hutchison Telecoms, Hong Kong



Nanoflex® Ceiling Lighting System
INERGI Group, Hong Kong

Block B, 3/F., East Sun Industrial Centre, 16 Shing Yip Street, Kwun Tong, Kowloon, Hong Kong. P: +852 3102 3192 F: +852 3101 9613

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NFX-ID Series

Indirect Recessed Luminaire

Nanoflex®

Features

The NFX-ID series combines the best of surface reflectance and design to deliver indirect and soft light for comfortable glare-free illumination with excellent color rendering qualities. It reflects lights off Nanoflex® Lambertian surface to minimize light loss while generating more than 60% efficiencies. This high efficient indirect fluorescent luminaire series is perfect for generating lighting in offices, schools, hospitals, reception areas, meeting rooms and corridors, while meeting ASHRAE/USGBC/IESNA and Beam Plus standards and guidelines in Green Building illumination.

Optics

Recessed reflector system combines with lined diffuser obscures the light source while delivering volumetric brightness. The luminaire render the interior space, objects and occupants in a soft, glare-free luminous environment with excellent light uniformity and color rendering qualities, while consuming minimal energy.

Electrical

The luminaire are designed to complement high efficient T-5 tubes with high frequency electronic ballast of power factor equal or greater than 0.95. Models for T-8 tubes, LED or other sizes are available upon requests.

Note:

Please refer to manufacturer's product catalogs for respective lamps and ballasts requirements.

Construction

Rugged polyester powder coated white steel housing with Nanoflex® reflective surfaces. Available in various sizes (please refer to specification overleaf). Luminaires may be recessed mounted or suspended individually or end-to-end continuously lined.

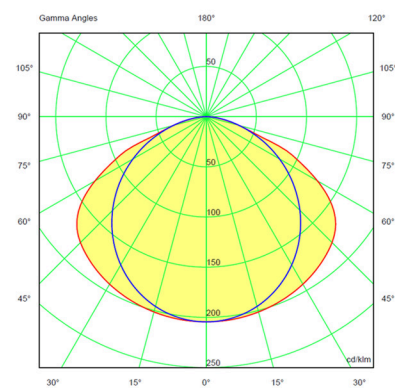
Accreditation

Optical Surface

- Certified Lambertian Reflectance
- Green Label Certified
- RoHS Compliant
- Compliant to JIS Standards for Construction Material Grade
- Compliant to British Standard 476 Part 6 and 7 for Fire Safety

Construction & Electrical Configuration

- Compliant to CCC, CE and CB Standards
- Compliant to **Zhaga** Interchangeable Design



NFX-ID 600 Polar Diagram



Render / Lighting Effect



Nanoflex Limited

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NFX-ID Series

Indirect Recessed Luminaire

Nanoflex®

General Specification (1)

	Light source (2)	Length (mm)	Width (mm)	Height (mm)	L.O.R.
NFX-ID-300 Series	T5 or LED (3)	585-600, 1185-1200	285-300	75-100	60% min.
NFX-ID-400 Series			385-400		
NFX-ID-600 Series			585-600		

- (1) Custom made version available upon request.
- (2) Light source and driver based on Philips or Osram specifications.
- (3) LED based on Zhaga compliant linear module.
- (4) Controls and sensor controls available.
- (5) Air slot version available.



Jing An Kerry Centre, Shanghai
 NFX-ID-412-2-AS
 Luminance: > 615 lux
 Uniform Glare Ratio: <19
 Light Uniformity: 0.85
 Light Power Density: 10.4W/M2



Nanoflex Limited

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General Specifications

Zhaga

Type : **NFX-LED-XXX**
 Light Source : Philips Fortimo LEDLine
 Driver : Xitanium Driver (Built-in)
 *** Zhaga compatible ***

Mains Voltage : AC 220-240 V~ ; 50/60 Hz
 Rated Power : 0.08A ; 0.16A (dependant on configuration)
 Power Consumption : 18W ; 35W (dependant on configuration)

Luminous Flux : 2150lm ; 4300lm (dependant on configuration)
 Luminaire Efficacy : over 65% (dependant on configuration)
 (light output ratio)
 Beam Angle : 100° to 130° (dependant on configuration)
 (Alpha = from 55° to 65° ; Beta = from 50° to 60°)
 Correlated Color : 3000k ; 4000k
 Color Rendering Index : > 80

Light Source Maintenance at 25°C:

Maintenance of lumen output L90 : 25000 hrs
 (Median useful life L90B50)

Maintenance of lumen output L70 : 50000 hrs
 (Median useful life L70B50)

Average ambient temperature : 25°C
 Operating temperature range : 10° to 40°C

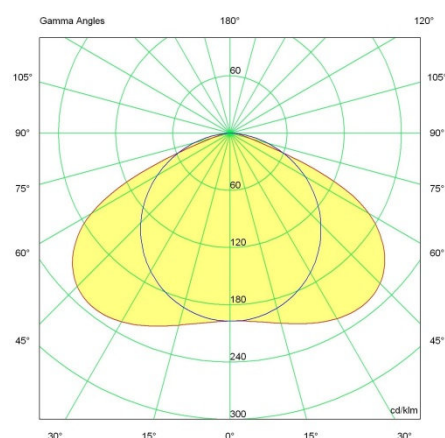
Safety complied : IEC 60598

Housing : metal-steel with white powder coating
 Typical ceiling width for recessed type : 300mm ; 400mm ; 600mm
 Typical ceiling length for recessed type : 600mm ; 1200mm

Standard Model List

Model	Typical size (w) x (l) x (h) mm	Light source flux intensity	Light output ratio	Available in		
				Suspended	Recessed	Air-Slot
NFX-LED-306 (18W)	300 x 600 x 100	2150 lm	> 65%	⊙	⊙	✗
NFX-LED-312 (35W)	300 x 1200 x 100	4300 lm	> 65%	⊙	⊙	✗
NFX-LED-406 (18W)	400 x 600 x 100	2150 lm	> 67%	⊙	⊙	⊙
NFX-LED-412 (35W)	400 x 1200 x 100	4300 lm	> 67%	⊙	⊙	⊙
NFX-LED-606 (18W)	600 x 600 x 100	2150 lm	> 70%	⊙	⊙	⊙
NFX-LED-612 (35W)	600 x 1200 x 100	4300 lm	> 70%	⊙	⊙	⊙

Other Options : Air-Slot version; Dimmable version ; Emergency lighting with battery-kit



High Intensity Model List

Model	Typical size (w) x (l) x (h) mm	Light source flux intensity	Light output ratio	Available in		
				Suspended	Recessed	Air-Slot
NFX-LED-306 (28W)	300 x 600 x 100	3440 <i>lm</i>	> 65%	⊙	⊙	✗
NFX-LED-312 (55W)	300 x 1200 x 100	6880 <i>lm</i>	> 65%	⊙	⊙	✗
NFX-LED-406 (28W)	400 x 600 x 100	3440 <i>lm</i>	> 67%	⊙	⊙	⊙
NFX-LED-412 (55W)	400 x 1200 x 100	6880 <i>lm</i>	> 67%	⊙	⊙	⊙
NFX-LED-606 (28W)	600 x 600 x 100	3440 <i>lm</i>	> 70%	⊙	⊙	⊙
NFX-LED-612 (55W)	600 x 1200 x 100	6880 <i>lm</i>	> 70%	⊙	⊙	⊙

*** The above models are applied with "Philips Fortimo LEDLine High Flux" as Light Source ***

Advance Control of Energy Saving

Dimming Type	Corresponding LED Driver	Energy Saving Index	Comfort Index	Other Advised Control Extension: (device or system)	
Non-Dimmable	Xitanium Driver (Fixed output)		N.A.	⊙	
1-10V Dimmable	Xitanium Driver (1-10V Dimmable)			⊙	
DALI Dimmable & programmable	Xitanium Driver (DALI Dimmable)			⊙	
Flicker-free Dimming Range from 1% to 100%	Lutron Driver (Hi-lume A-Series) 			⊙	

*** Please contact our sales for further enquiry ***

NFX-DR Series

Direct Recessed Luminaire

Nanoflex®

Features

The NFX-DR series combines the best of surface reflectance and design to deliver direct and soft light for comfortable glare-free illumination with excellent color rendering qualities. It reflects lights off Nanoflex® Lambertian surface to minimize light loss while generating more than 80% efficiencies. This high efficient direct fluorescent luminaire series is perfect for generating lighting in offices, schools, hospitals, reception areas, meeting rooms and corridors, while meeting ASHRAE/USGBC/IESNA and Beam Plus standards and guidelines in Green Building illumination.

Optics

Recessed reflector system delivers volumetric illumination from Lambertian surfaces with 95% total reflectance. The luminaire render the interior space, objects and occupants in a soft, glare-free luminous environment with excellent light uniformity and color rendering qualities, while consuming minimal energy.

Electrical

The luminaire are designed to complement high efficient T-5 tubes with high frequency electronic ballast of power factor equal or greater than 0.95. Models for T-8 tubes, LED or other sizes are available upon requests.

Note:

Please refer to manufacturer's product catalogs for respective lamps and ballasts requirements.

Construction

Rugged polyester powder coated white steel housing with Nanoflex® reflective surfaces. Available in various sizes (please refer to specification overleaf). Luminaires may be recessed mounted or suspended individually or end-to-end continuously lined.

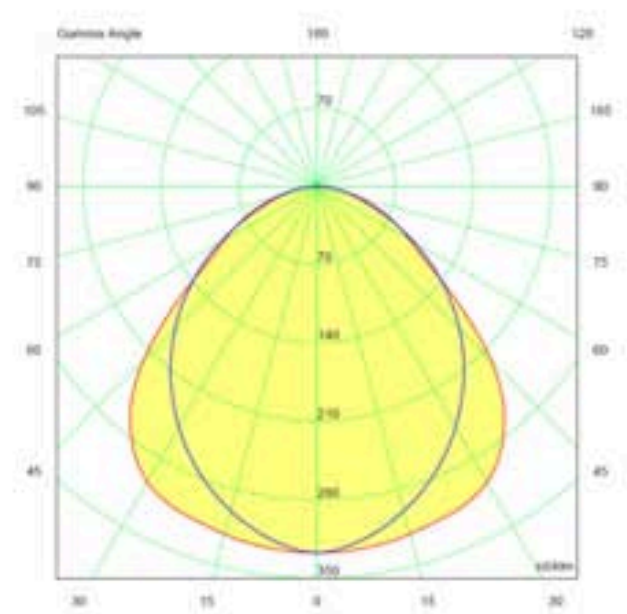
Accreditation

Optical Surface

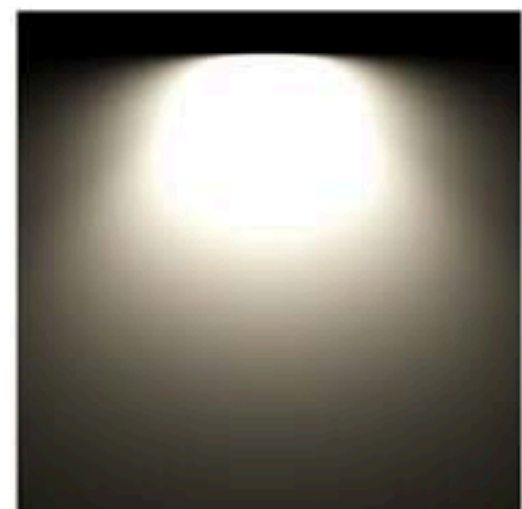
- Certified Lambertian Reflectance
- Green Label Certified
- RoHS Compliant
- Compliant to JIS Standards for Construction Material Grade
- Compliant to British Standard 476 Part 6 and 7 for Fire Safety

Construction & Electrical Configuration

- Compliant to CCC, CE and CB Standards



NFX-DR 600 Polar Diagram



Render / Lighting Effect

Nanoflex Limited

Block B, 3/F., East Sun Industrial Centre, 16 Shing Yip Street, Kwun Tong, Kowloon, Hong Kong
Tel: (852) 3102 3192 Fax: (852) 3101 9613 Website: www.nanoflex.info Email: info@nanoflex.info

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NFX-DR Series

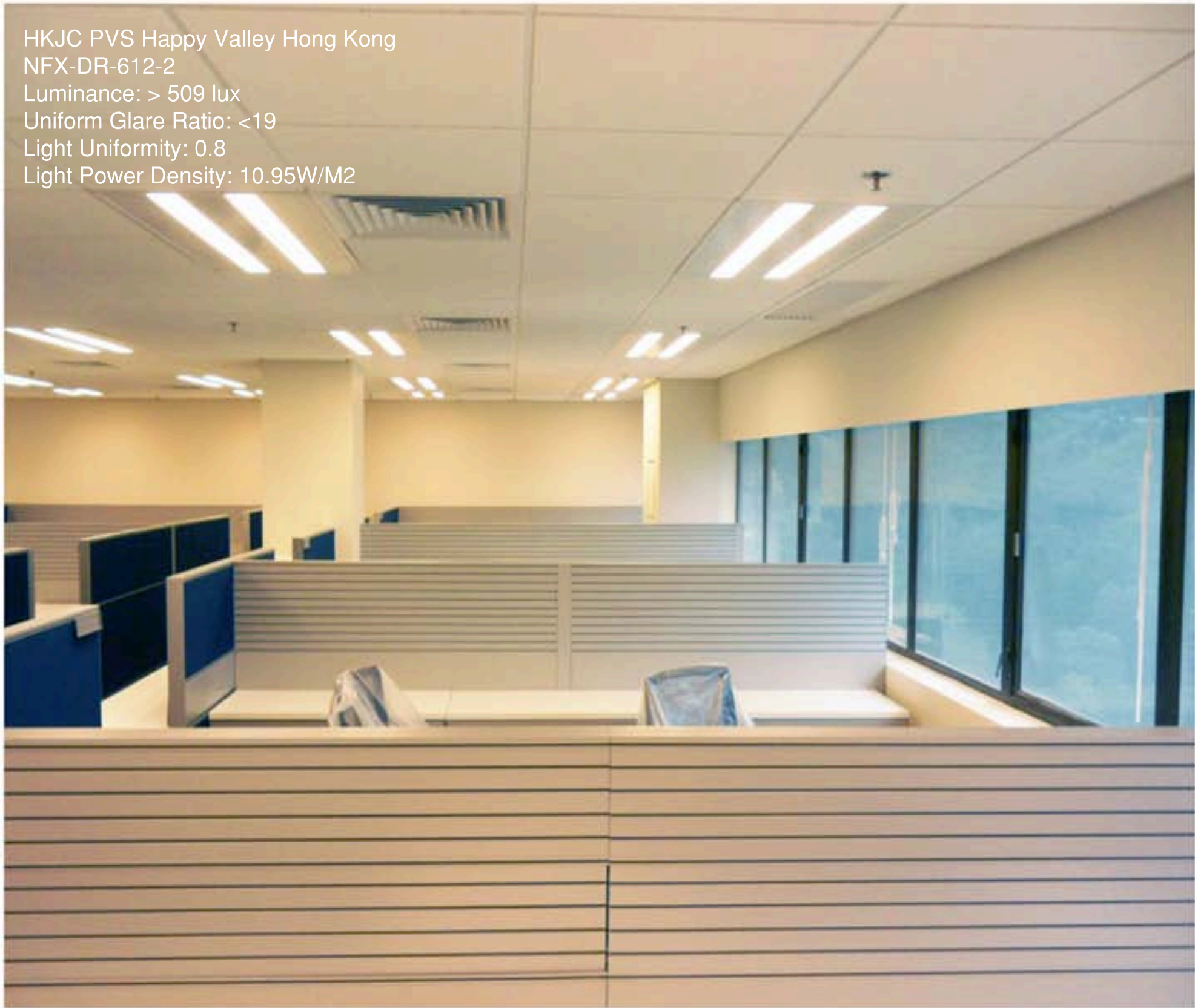
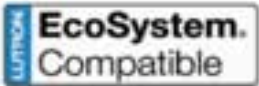
Direct Recessed Luminaire



General Specification (1)

	Light source (2)	Length (mm)	Width (mm)	Height (mm)	L.O.R.
NFX-DR-300 Series	T5	585-600, 1185-1200	285-300	60-100	80% min.
NFX-DR-400 Series			385-400		
NFX-DR-600 Series			585-600		

- (1) Custom made version available upon request.
- (2) Light source and driver based on Philips or Osram specifications.
- (3) Controls and sensor controls available.



HKJC PVS Happy Valley Hong Kong
NFX-DR-612-2
Luminance: > 509 lux
Uniform Glare Ratio: <19
Light Uniformity: 0.8
Light Power Density: 10.95W/M2



NFX-DN Series

Compact Fluorescent Downlight

Nanoflex®

Features

The NFX-DN series combines the best of surface reflectance and design to deliver direct and soft light for comfortable glare-free illumination with excellent color rendering qualities. It reflects lights off Nanoflex® Lambertian surface to minimize light loss while generating more than 70% efficiencies. This high efficient compact fluorescent downlight series is perfect for generating lighting in offices, schools, hospitals, reception areas, meeting rooms and corridors, while meeting ASHRAE/USGBC/IESNA and Beam Plus standards and guidelines in Green Building illumination.

Optics

Recessed reflector system delivers volumetric illumination from Lambertian surfaces with 95% total reflectance. The luminaire render the interior space, objects and occupants in a soft, glare-free luminous environment with excellent light uniformity and color rendering qualities, while consuming minimal energy.

Electrical

The downlight are designed to complement high efficient CFL 13W, 18W and 26W with high frequency electronic ballast of power factor equal or greater than 0.95. Models for other sizes are available upon requests.

Note:

Please refer to manufacturer's product catalogs for respective lamps and ballasts requirements.

Construction

Rugged polyester powder coated white steel housing with Nanoflex® reflective surfaces. Available in various sizes (please refer to specification overleaf). Luminaires are recessed mounted.

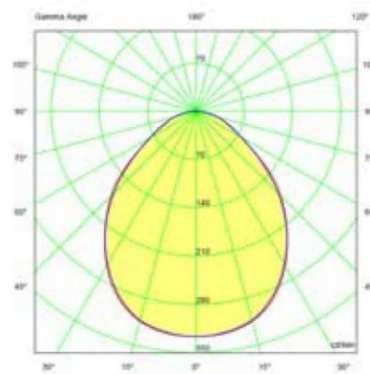
Accreditation

Optical Surface

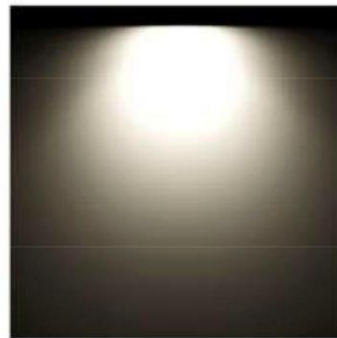
- Certified Lambertian Reflectance
- Green Label Certified
- RoHS Compliant
- Compliant to JIS Standards for Construction Material Grade
- Compliant to British Standard 476 Part 6 and 7 for Fire Safety

Construction & Electrical Configuration

- Compliant to CCC, CE and CB Standards



NFX-DN-8 Polar Diagram



Render / Lighting Effect

NFX-DN Series

Compact Fluorescent Downlight

Nanoflex®

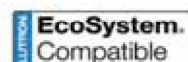
General Specification (1)

	Light source (2)	Ø (mm)	Length (mm)	Height (mm)	L.O.R.
NFX-DN-5	1 / 2 x 13W	Ø 175	328	100	70% min.
NFX-DN-6	1 / 2 x 13W, 1 / 2 x 18W	Ø 193	335	105	
NFX-DN-8	1 / 2 x 18W, 1 / 2 x 26W	Ø 227	408	126	

(1) Custom made version available upon request.

(2) Light source and driver based on Philips or Osram specifications.

(3) Controls and sensor controls available.



Metro Centre, Hong Kong

NFX-DN-8-2

Luminance: > 645 lux

Uniform Glare Ratio: <19

Light Uniformity: 0.82

Light Power Density: 10.15W/M2



NFX-DR Series (UD Version)

Direct Pendant Luminaire

Nanoflex®

Features

The NFX-DR series combines the best of surface reflectance and design to deliver direct and soft light for comfortable glare-free illumination with excellent color rendering qualities. It reflects lights off Nanoflex® Lambertian surface to minimize light loss while generating more than 85% efficiencies. This high efficient direct fluorescent luminaire series is perfect for generating lighting in offices, schools, hospitals, reception areas, meeting rooms and corridors, while meeting ASHRAE/USGBC/IESNA and Beam Plus standards and guidelines in Green Building illumination.

Optics

Recessed reflector system delivers volumetric illumination from Lambertian surfaces with 95% total reflectance. The luminaire render the interior space, objects and occupants in a soft, glare-free luminous environment with excellent light uniformity and color rendering qualities, while consuming minimal energy.

Electrical

The luminaire are designed to complement high efficient T-5 tubes with high frequency electronic ballast of power factor equal or greater than 0.95.

Note:

Please refer to manufacturer's product catalogs for respective lamps and ballasts requirements.

Construction

Rugged polyester powder coated white steel housing with Nanoflex® reflective surfaces.

Available in various sizes (please refer to specification overleaf). Luminaires may be recessed mounted or suspended individually or end-to-end continuously lined.

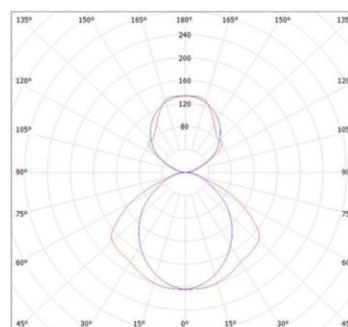
Accreditation

Optical Surface

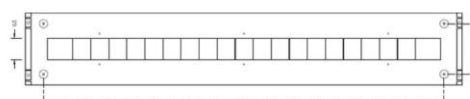
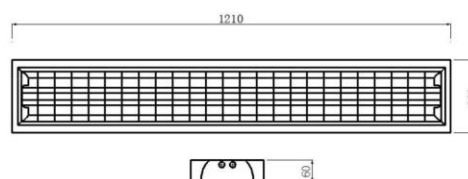
- Certified Lambertian Reflectance
- Green Label Certified
- RoHS Compliant
- Compliant to JIS Standards for Construction Material Grade
- Compliant to British Standard 476 Part 6 and 7 for Fire Safety

Construction & Electrical Configuration

- Compliant to CCC, CE and CB Standards



NFX-DR-212 Polar Diagram



Dimension

NFX-DR Series (UD Version)

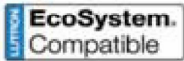
Direct Pendant Luminaire



General Specification (1)

	Light source (2)	Length (mm)	Width (mm)	Height (mm)	L.O.R.
NFX-DR-212 Series	T5	610 - 1210	200	60	85% min.

- (1) Custom made version available upon request.
- (2) Light source and driver based on Philips or Osram specifications.
- (3) Controls and sensor controls available.



NFX-HIF Series

High Intensity Fluorescent Luminaire

Nanoflex®
Lighting the Future

Features

The NFX-HIF series combines the best of reflectance and design to deliver direct and soft light for comfortable glare-free illumination with excellent color rendering qualities. It reflects lights off Nanoflex® Lambertian surface to minimize light loss while generating more than 85% efficiencies. This high efficient direct fluorescent luminaire series is perfect for generating lighting in industrial facilities, warehouses, schools gymnasium and utility area while meeting the highest standards in Green Building illumination.

Optics

Recessed reflector system delivers volumetric illumination from Lambertian surfaces with 95% total reflectance.

The luminaire render the interior space, objects and occupants in a soft, glare-free luminous environment with excellent light uniformity and color rendering qualities for better visual acuity, while consuming minimal energy.

Electrical

The luminaire are designed to complement high efficient T-5 tubes with high frequency electronic ballast of power factor equal or greater than 0.95. Models for T-5 tubes, LED or other sizes are available upon requests.

Note:

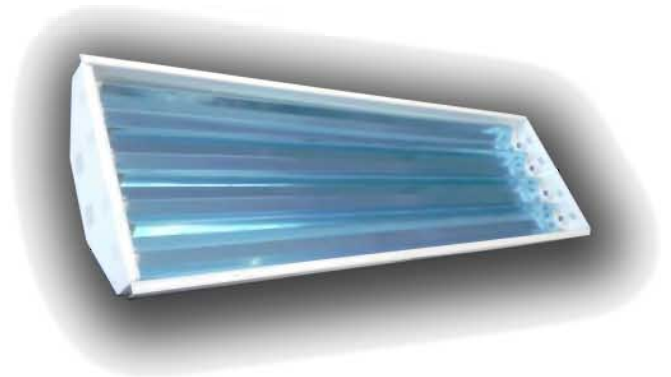
Please refer to manufacturers' product catalogs for respective lamps and ballasts requirements.

Construction

Rugged polyester powder coated steel housing with white Nanoflex® aluminum reflector and diffuser. Available in various sizes (please refer to specification overleaf). Luminaires may be recessed mounted or suspended individually or end-to-end continuously lined.

Accreditation

- Green Label Certified with compliance to EU RoHS directives
- Certified Lambertian Reflectance
- Compliant to JIS Standards for construction use material
- Compliant to British Standard 476 Part 6 and 7 for Fire Safety
- Compliant to CCC, CE and CB Standards



Before



After



Nanoflex Limited

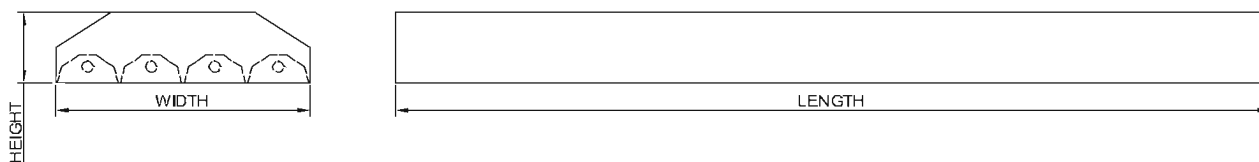
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NFX-HIF Series

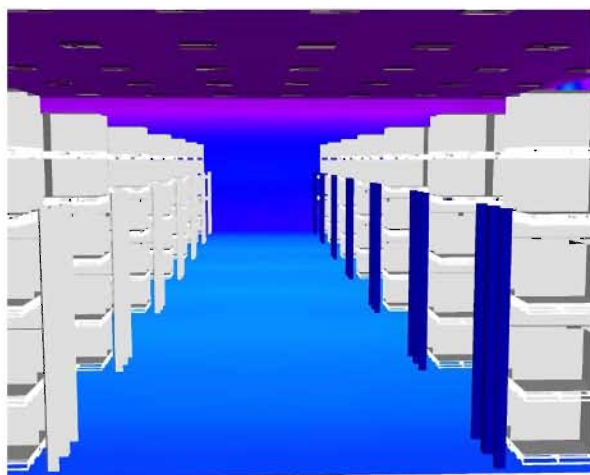
High Intensity Fluorescent Luminaire

Nanoflex®
Lighting the Future

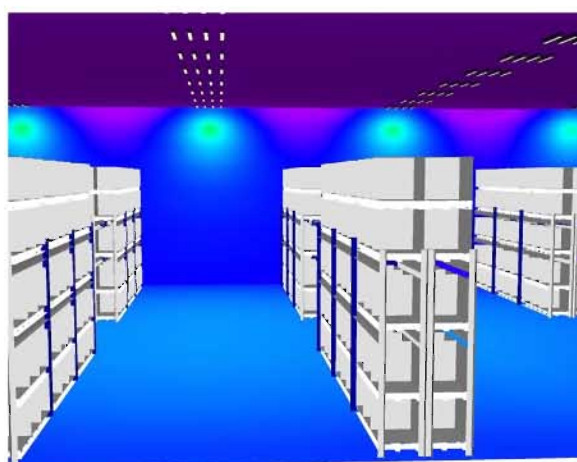


Reference Specification

SERIES	LIGHT SOURCE	LENGTH (MM)	WIDTH (MM)	HEIGHT	EFFICIENCY
NFX-HIF-4-4	T5 4 x 54W	1250	415	102	>85%
NFX-HIF-4-5	T5 5 x 54W	1250	415	102	>85%



False Color Rendering 1



False Color Rendering 2



Nanoflex Limited

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NFX-DR Series (PN Version)

Surface / Pendant Mounted Luminaire

Nanoflex®

Features

The NFX-DR series combines the best of surface reflectance and design to deliver direct and soft light for comfortable glare-free illumination with excellent color rendering qualities. It reflects lights off Nanoflex® Lambertian surface to minimize light loss while generating more than 80% efficiencies. This high efficient direct fluorescent luminaire series is perfect for generating lighting in offices, schools, hospitals, reception areas, meeting rooms and corridors, while meeting ASHRAE/USGBC/IESNA and Beam Plus standards and guidelines in Green Building illumination.

Optics

Recessed reflector system delivers volumetric illumination from Lambertian surfaces with 95% total reflectance. The luminaire render the interior space, objects and occupants in a soft, glare-free luminous environment with excellent light uniformity and color rendering qualities, while consuming minimal energy.

Electrical

The luminaire are designed to complement high efficient T-5 tubes with high frequency electronic ballast of power factor equal or greater than 0.95. Models for T-8 tubes, or other sizes are available upon requests.

Note:

Please refer to manufacturer's product catalogs for respective lamps and ballasts requirements.

Construction

Rugged polyester powder coated white steel housing with Nanoflex® reflective surfaces. Available in various sizes (please refer to specification overleaf). Luminaires may be suspended individually or end-to-end continuously lined.

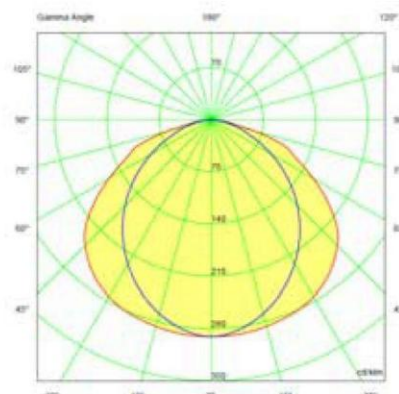
Accreditation

Optical Surface

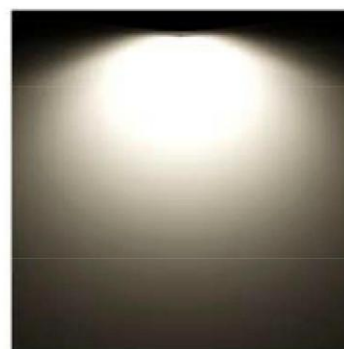
- Certified Lambertian Reflectance
- Green Label Certified
- RoHS Compliant
- Compliant to JIS Standards for Construction Material Grade
- Compliant to British Standard 476 Part 6 and 7 for Fire Safety

Construction & Electrical Configuration

- Compliant to CCC, CE and CB Standards



NFX-DR Polar Diagram



Render / Lighting Effect

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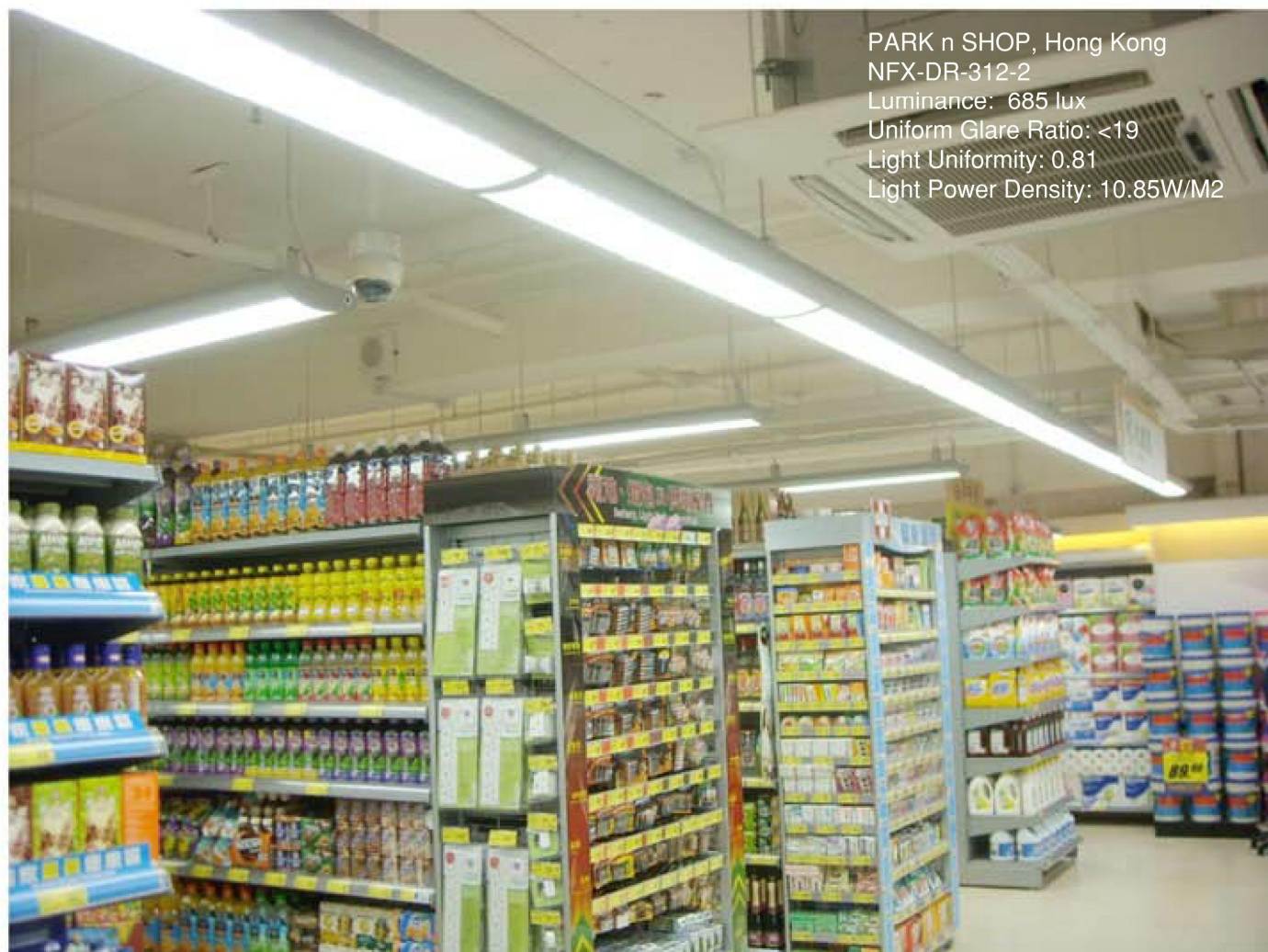
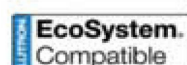
General Specification (1)

	Light source (2)	Length (mm)	Width (mm)	Height (mm)	L.O.R.
NFX-DR-306 Series	T5	593	253	60	80% min.
NFX-DR-309 Series		886			
NFX-DR-312 Series		1186			
NFX-DR-315 Series		1486			

(1) Custom made version available upon request.

(2) Light source and driver based on Philips or Osram specifications.

(3) Controls and sensor controls available.



PARK n SHOP, Hong Kong
NFX-DR-312-2
Luminance: 685 lux
Uniform Glare Ratio: <19
Light Uniformity: 0.81
Light Power Density: 10.85W/M2

