



## After Glow, 3-band Fluorescent Lamps

These lamps emit a faint glow even after the power supply has been switched off. So, rooms will not be left in complete darkness immediately after lights are turned off or in the event of a power interruption.



Immediately after lighting is turned off

### After Glow is useful in these situations.

**After you turn your bedroom light off**

You can see objects in the dark, so you can walk without any fear of tripping over.

**Sudden power interruptions and you have no battery nearby**

You can see in total darkness which prevents panic.

**Emergency escapes in the darkness**

You can clearly see stairways and doors.

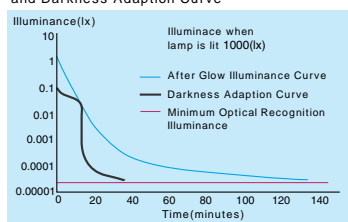
**Lamp breaks in a disaster**

The lamp glows in the dark even if it breaks, so there's no fear of treading on broken fragments.

An after glow is maintained for approximately 60 minutes that allow you to recognize objects in dark places.

Human eyes can gradually recognize objects as they adapt to the darkness when a person comes into the darkness. This is referred to as "darkness adaption" which is shown by the darkness adaption curve. This graph shows the minimum illuminance at which objects can be recognized (minimum optical recognition illuminance) and the after glow illuminance of EX-D-SHG.

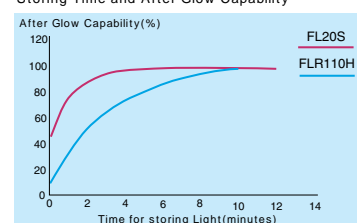
After Glow Illuminance Decaying Characteristics and Darkness Adaption Curve



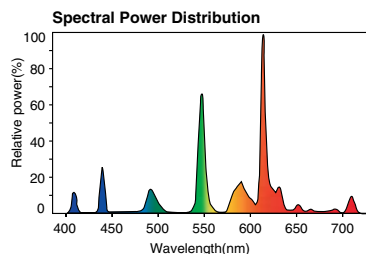
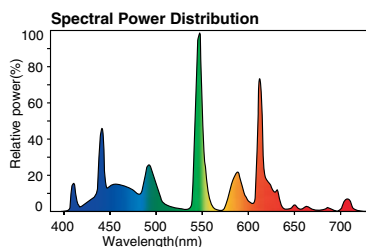
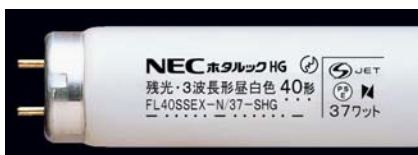
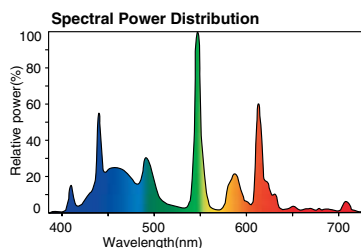
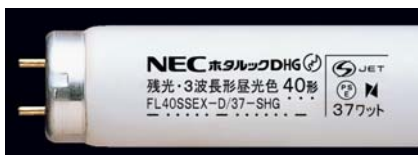
After glow effect is available after lamp has been in operation for approximately 10 minutes.

This graph shows the lighting time required for EX-D-SHG to demonstrate its after glow capability. You can see from this graph that its after glow capability reaches peak and stabilizes after the lamp is lit for about 10 minutes or more.

Storing Time and After Glow Capability



# After Glow, 3-band Fluorescent Lamps



## EX-D-SHG

### 3-band Type Daylight Color

With a color temperature of 8,000K EDF-SHG\* lamp emits light that emphasizes white colors and creates a cool, refreshing and clean-looking ambiance. This lamp is better suited to situations such as living rooms, bedrooms, corridors and kitchens where lights are turned off last of all.

(\*FL40SSEX-D/37-SHG : 6,700K)

Model	Category	Size Classification (W)	Nominal Wattage (W)	Dimension (mm)			Total Luminous Flux (lm)	Average Life (Hrs)	Base
				Diameter	Outer Diameter	Length			
<b>Pre-heat Start Tubular Lamps</b>									
FL10EDF-SHG	J	10	10	25.5	—	330	520	7,500	Med. bipin (G13)
FL15EDF-SHG	J	15	15	25.5	—	436	910	7,500	
FL20SSEDF/18-SHG	I	20	18	27.5	—	588.5	1,380	9,000	
FL40SSEX-D/37-SHG	J	40	37	27.5	—	1,198	3,350	20,000	
<b>Pre-heat Start Circular Lamps</b>									
FCL30EDF/28-SHG	J	30	28	29.0	226	—	2,000	9,000	G10q
FCL32EDF/30-SHG	J	32	30	29.0	300	—	2,360	9,000	

## EX-N-SHG

### 3-band Type Neutral White Color

With a gentle color temperature of 5,300K ENM-SHG\* lamp produces natural and relaxed spaces. This lamp is better suited to shops, promenades and reception rooms.

(\*FL40SSEX-N/37-SHG : 5,000K)

Model	Category	Size Classification (W)	Nominal Wattage (W)	Dimension (mm)			Total Luminous Flux (lm)	Average Life (Hrs)	Base
				Diameter	Outer Diameter	Length			
<b>Pre-heat Start Tubular Lamps</b>									
FL10ENM-SHG	J	10	10	25.5	—	330	550	7,500	Med. bipin (G13)
FL15ENM-SHG	J	15	15	25.5	—	436	970	7,500	
FL20SSEN/18-SHG	I	20	18	27.5	—	588.5	1,470	9,000	
FL40SSEX-N/37-SHG	J	40	37	27.5	—	1,198	3,560	20,000	

## EX-L-SHG

With a warm color temperature of 2,700K ELR-SHG\* lamp produces calm and restful spaces. This lamp has the dual features of the economy of fluorescent lamps and the gentleness of incandescent lamps.

(\*FL40SSEX-L/37-SHG : 3,000K)

Model	Category	Size Classification (W)	Nominal Wattage (W)	Dimension (mm)			Total Luminous Flux (lm)	Average Life (Hrs)	Base
				Diameter	Outer Diameter	Length			
<b>Pre-heat Start Tubular Lamps</b>									
FL10ELR-SHG	J	10	15	25.5	—	330	555	7,500	Med. bipin (G13)
FL15ELR-SHG	J	10	15	25.5	—	436	970	7,500	
FL20SSELR/18-SHG	I	20	18	27.5	—	588.5	1,470	9,000	
FL40SSEX-L/37-SHG	S	40	37	27.5	—	1,198	3,560	20,000	

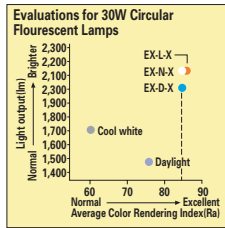
# HG X 3-band Fluorescent Lamps

## Colors Appear More Natural

New phosphor elements have been added to EX-N-X to improve color rendering. Natural colors such as skin or vegetables look more beautiful.

## Brighter

17 to 38% brighter than standard lamps.



Comparison of Lamp Brightness and Color Rendering.

## Even Closer to the Vividness of Natural Light

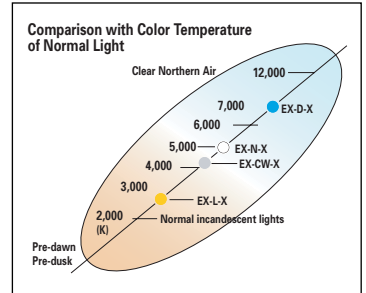
EX-N-X emits vivid light that is even closer to sunlight to brighten up your life. Select from four color temperatures best matched to your specific application.

Note: Consult for details on EX-CW-X.

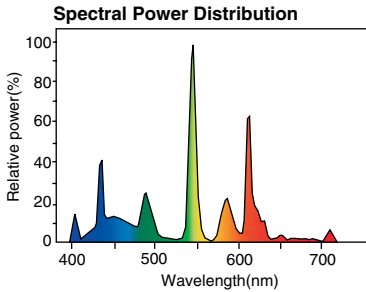
## Performance of Typical Fluorescent Lamp

Type	Sign	Lumen ratio (%)	Average Color rendering index (Ra)	color temperature (K)
Cool white	CW	115	61	4,200
	Daylight	100	74	6,500
Tri-phospor	EX-L-X	139	84	3,000
	EX-N-X	139		5,000
	EX-D-X	130		6,700

(in case of "FL40SS")



With a gentle color temperature of 5,000K EX-N-X lamp produces a natural light to produce a calm atmosphere. This lamp makes vegetables and fruit look fresher.

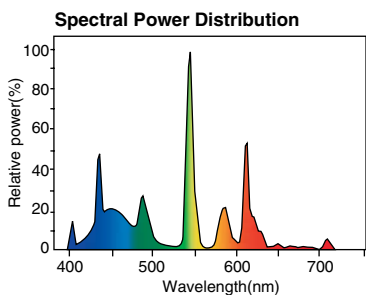


# EX-N-X

Model	Category	Size Classification (W)	Nominal Wattage (W)	Dimension (mm)			Total Luminous Flux (lm)	Average Life (Hrs)	Base
				Diameter	Outer Diameter	Length			
<b>Pre-heat Start Tubular Lamps</b>									
FL10EX-N-X	J	10	10	25.5	—	330	580	7,500	Med. bipin (G13)
FL15EX-N-X	J	15	15	25.5	—	436	1,020	7,500	
FL20SSEX-N-X-24	I	20	18	27.5	—	588.5	1,550	9,000	
FL30SSEX-N-X-36	I	30	30	25.5	—	893	2,000	9,000	
FL40SSEX-N/37-X	I	40	37	27.5	—	1,198	3,740	20,000	
FL65SSEX-N/58-HG	I	65	58	25.5	—	1,498.5	5,000	20,000	
<b>Pre-heat Start Circular Lamps</b>									
FCL22EX-N-X	I	22	22	29	210	—	1,400	9,000	G10q
FCL30EX-N/28-X	J	30	28	29	226	—	2,270	9,000	
FCL32EX-N-X	I	32	30	29	300	—	2,710	9,000	
FCL40EX-N-X-16	I	40	38	29	402	—	3,530	9,000	



With a color temperature of 6,700K EX-D-X lamp gives higher clarity to produce a refreshing atmosphere. White colors are emphasized to render invigorating spaces.

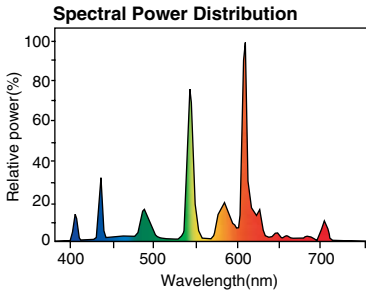


# EX-D-X

Model	Category	Size Classification (W)	Nominal Wattage (W)	Dimension (mm)			Total Luminous Flux (lm)	Average Life (Hrs)	Base
				Diameter	Outer Diameter	Length			
<b>Pre-heat Start Tubular Lamps</b>									
FL10EX-D-X	J	10	10	25.5	—	330	550	7,500	Med. bipin (G13)
FL15EX-D-X	J	15	15	25.5	—	436	960	7,500	
FL20SSEX-D-X-24	I	20	18	27.5	—	588.5	1,450	9,000	
FL30SSEX-D-X-36	I	30	30	25.5	—	893	1,880	9,000	
FL40SSEX-D/37-X	I	40	37	27.5	—	1,198	3,520	20,000	
FL65SSEX-D/58-HG	I	65	58	25.5	—	1,498.5	4,700	20,000	
<b>Pre-heat Start Circular Lamps</b>									
FCL22EX-D-X	S	22	22	29	210	—	1,320	9,000	G10q
FCL30EX-D/28-X	J	30	28	29	226	—	2,160	9,000	
FCL32EX-D/30-X	J	32	30	29	300	—	2,550	9,000	
FCL40EX-D-X-16	S	40	38	29	402	—	3,320	9,000	



With a warm color temperature of 3,000K EX-L-X lamp produces calm and restful spaces. This lamp has the dual features of the economy of fluorescent lamps and the gentleness of incandescent lamps.



# EX-L-X

Model	Category	Size Classification (W)	Nominal Wattage (W)	Dimension (mm)			Total Luminous Flux (lm)	Average Life (Hrs)	Base
				Diameter	Outer Diameter	Length			
<b>Pre-heat Start Tubular Lamps</b>									
FL10EX-L-X	J	10	10	25.5	—	330	580	7,500	Med. bipin (G13)
FL15EX-L-X	J	15	15	25.5	—	436	1,020	7,500	
FL20SSEX-L-X-24	I	20	18	27.5	—	588.5	1,550	9,000	
FL30SSEX-L-X-36	I	30	30	25.5	—	893	2,000	9,000	
FL40SSEX-L/37-X	I	40	37	27.5	—	1,198	3,740	20,000	
FL65SSEX-L/58-HG	S	65	58	25.5	—	1,498.5	5,000	20,000	
<b>Pre-heat Start Circular Lamps</b>									
FCL22EX-L-X	S	22	22	29	210	—	1,370	9,000	G10q
FCL30EX-L/28-X	J	30	28	29	226	—	2,210	9,000	
FCL32EX-L/30-X	J	32	30	29	300	—	2,640	9,000	
FCL40EX-L-X-16	I	40	38	29	402	—	3,320	9,000	

## High-frequency electronic ballast Fluorescent Lamps

Ideal for High-efficiency and Energy-saving Applications

These highly economic lamps are operated by an exclusive high-frequency electronic ballast to enable high luminous efficiency. They use high-grade tri-phosphor to produce bright and high color rendition light.



Note: These lamps must be used together with the special fitting (high-frequency electronic ballast), and cannot be used with standard fittings. Use with the standard fitting (copper-iron ballast) may result in lighting failure, abnormal electrical discharge or shorter lamp life.

### Comparison with Standard Lamps

Type		Model	Nominal Wattage (W)	Total Luminous Flux (lm)	Efficacy (lm/W)	Diameter (mm)
Straight Lamps	High-frequency type	FHF32EX-N-HX	32 Rated output	3,520	110	25.5
		FHF32EX-D-HX	45 High output	4,950	110	
	Standard type	FL40SN	40 Rated output	2,950	74	32.5
Circular Lamps	High-frequency type	FHC27EN-SHG	27 Rated output	2,610	97	16
		FHC34EN-SHG	38 High output	3,450	91	
	Standard type	FCL-32N/30	30 Rated output	1,960	65	29

Model	Category	Color Temperature (K)	Nominal Wattage (W)	Dimension (mm)			Lamp Current (A)	Total Luminous Flux (lm)	Average Life (Hrs)	Base	
				Diameter	Outer Diameter	Length					
<b>Pre-heat Start Tubular Lamps</b>											
FHF32EX-N-HX	J	5,000	32 (Rated output) 45 (High output)	25.5	—	1,198	0.255 0.425	3,520 4,950	20,000	Med. bipin (G13)	
FHF32EX-D-HX	J	6,700	32 (Rated output) 45 (High output)	25.5	—	1,198	0.255 0.425	3,310 4,650	20,000		
FHF32EX-W-HX	J	4,200	32 (Rated output) 45 (High output)	25.5	—	1,198	0.255 0.425	3,520 4,950	20,000		
FHF32EX-WW-HX	J	3,500	32 (Rated output) 45 (High output)	25.5	—	1,198	0.255 0.425	3,520 4,950	20,000		
<b>Pre-heat Start Circular Lamps</b>											
FHC13ED-SHG	J	6,700	13 (Rated output) 18 (High output)	16	151	—	0.215 0.380	920 1,240	—	9,000	G10q
FHC20ED-SHG			20 (Rated output) 28 (High output)	16	225	—	0.215 0.380	1,600 2,170	1,680 2,180	12,000	
FHC27ED-SHG			27 (Rated output) 38 (High output)	16	299	—	0.215 0.380	2,340 3,240	2,460 3,260	12,000	
FHC34ED-SHG			34 (Rated output) 48 (High output)	16	373	—	0.215 0.380	3,050 4,220	3,200 4,250	12,000	
FHC41ED-SHG			41 (Rated output) 58 (High output)	16	447	—	0.215 0.350	3,310 4,600	3,680 4,920	12,000	
FHC13EN-SHG	J	5,000	13 (Rated output) 18 (High output)	16	151	—	0.215 0.380	980 1,320	—	9,000	
FHC20EN-SHG			20 (Rated output) 28 (High output)	16	225	—	0.215 0.380	1,700 2,310	1,790 2,320	12,000	
FHC27EN-SHG			27 (Rated output) 38 (High output)	16	299	—	0.215 0.380	2,490 3,430	2,610 3,450	12,000	
FHC34EN-SHG			34 (Rated output) 48 (High output)	16	373	—	0.215 0.380	3,240 4,480	3,400 4,510	12,000	
FHC41EN-SHG			41 (Rated output) 58 (High output)	16	447	—	0.215 0.350	3,510 4,870	3,900 5,220	12,000	
FHC13EL-SHG	J	3,000	13 (Rated output) 18 (High output)	16	151	—	0.215 0.380	980 1,320	—	9,000	
FHC20EL-SHG			20 (Rated output) 28 (High output)	16	225	—	0.215 0.380	1,700 2,310	1,790 2,320	12,000	
FHC27EL-SHG			27 (Rated output) 38 (High output)	16	299	—	0.215 0.380	2,490 3,430	2,610 3,450	12,000	
FHC34EL-SHG			34 (Rated output) 48 (High output)	16	373	—	0.215 0.380	3,240 4,480	3,400 4,510	12,000	
FHC41EL-SHG			41 (Rated output) 58 (High output)	16	447	—	0.215 0.350	3,510 4,870	3,900 5,220	12,000	



FHC20ED-SHG



FHC20EN-SHG



FHC20EL-SHG

# Fluorescent Lamps for Tropical Fish and Plant Displays



BR-HG and BR have been designed to produce the ideal brightness for viewing tropical fish and plant displays.

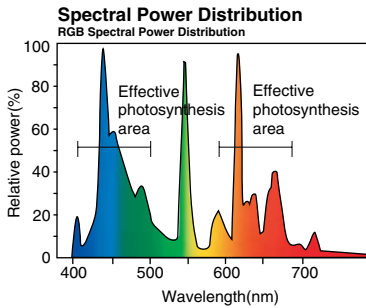


Brightness That Vividly Renders Colors  
Tri-phosphor is used to show tropical plants and plant displays vividly.

## BR-HG

Emits Light Needed for Growth of Aquatic Plants and Foliage Plants  
BR-HG emit light energy of wavelengths 400 to 500 nm and 600 to 700 nm required for photosynthesis, and infra-red rays for promoting photosynthesis.

Twice the brightness of conventional Biolux lamps  
BR-HG (FL20SSBR-HG) Light output 800 lm  
BR (FL20SSBR) Light output 400 lm

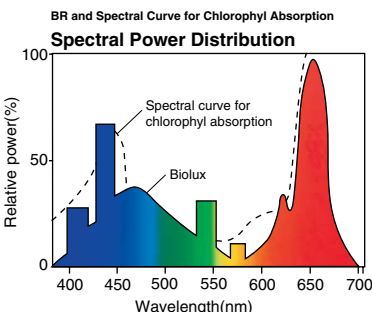


Model	Category	Size Classification (W)	Nominal Wattage (W)	Dimension (mm)		Total Luminous Flux (lm)	Average Life (Hrs)	Base
				Diameter	Length			
<b>Pre-heat Start Tubular Lamps</b>								
FL8BR-HG	J	8	8	15.5	287	320	6,000	(G5)
FL10BR-HG	J	10	10	25.5	330	384	7,500	Med. bipin (G13)
FL15BR-HG	J	15	15	25.5	436	580	7,500	
FL20SSBR/18-HG-24	I	20	18	27.5	588.5	800	9,000	
FL25SSBR-30-HG	I	25	25	25.5	741	1,160	9,000	
FL30SSBR-HG-36	I	30	30	25.5	893	1,240	9,000	
FL40SSBR/37-HG	I	40	37	27.5	1,198	1,920	20,000	
FL65SSBR/58-HG	I	65	58	25.5	1,498.5	2,690	20,000	



BR emits light ideal for tropical fish and plant displays. It emits light energy of wavelengths 400 to 500 nm and 600 to 700 nm needed for growing aquatic plants and foliage plants.

## BR



Model	Category	Size Classification (W)	Nominal Wattage (W)	Dimension (mm)			Total Luminous Flux (lm)	Average Life (Hrs)	Base
				Diameter	Outer Diameter	Length			
<b>Pre-heat Start Tubular Lamps</b>									
FL8BR	I	8	8	15.5	—	287	170	6,000	(G5)
FL10BR	I	10	10	25.5	—	330	192	7,500	Med. bipin (G13)
FL14BR	I	14	14	25.5	—	360	280	7,500	
FL15BR	I	15	15	25.5	—	436	290	7,500	
FL20SSBR-24	I	20	18	27.5	—	588.5	400	9,000	
FL25SSBR-30	I	25	25	25.5	—	741	650	9,000	
FL30SSBR-36	I	30	30	25.5	—	893	800	9,000	
FL40SSBR/37	I	40	37	27.5	—	1,198	960	20,000	
FL65SSBR/58	I	65	58	25.5	—	1,498.5	1,950	20,000	
<b>Pre-heat Start Circular Lamps</b>									
FCL32BR	I	32	30	29	300	—	800	9,000	G10q

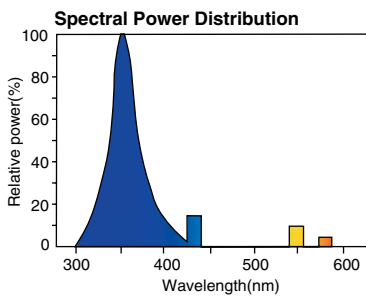
# Special Application Fluorescent Lamps

NEC offers a wide range of special application fluorescent lamps to suit your specific application.



## BLACK LIGHT **BL**

Black light and black light blue fluorescent lamps use phosphor that emits mainly near ultraviolet (300 to 400 nm) light. This allows users to take advantage of the photochemical and fluorescent action unique to ultraviolet rays. The BL is also used in electrical insect control units to attract insects.

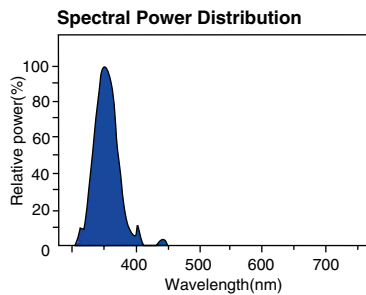


Model	Category	Size Classification (W)	Nominal Wattage (W)	Dimension (mm)			Ultraviolet Radiation Output (W)	Average Life (Hrs)	Base
				Diameter	Outer Diameter	Length			
<b>Pre-heat Start Tubular Lamps</b>									
FL4BL	I	4	4	15.5	—	134.5	0.3	2,000	Med. bipin (G5)
FL6BL	I	6	6	15.5	—	210.5	0.7	2,000	
FL8BL	I	8	8	15.5	—	287	1.2	2,000	
FL10BL	J	10	10	25.5	—	330	1.8	3,500	Med. bipin (G13)
FL15BL	I	15	15	25.5	—	436	2.1	3,500	
FL20SBL-24	I	20	20	32.5	—	588.5	3.2	5,000	
FL30SSBL-36	I	30	30	25.5	—	893	5.0	5,000	
FL40SBL	I	40	40	32.5	—	1,198	8.0	7,500	
<b>Pre-heat Start Circular Lamps</b>									
FCL22BL	I	22	22	29	210	—	3.1	5,000	G10q
FCL32BL	I	32	30	29	300	—	6.5	5,000	
FCL40BL-16	I	40	38	29	402	—	7.7	5,000	



## BLACK LIGHT BLUE FLUORESCENT LAMPS **BL-B**

Designed to emit only near ultraviolet rays, black light blue fluorescent lamps are made of special glass tubes that do not allow visible light to pass through.

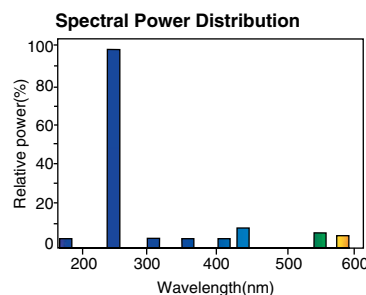


Model	Category	Size Classification (W)	Nominal Wattage (W)	Dimension (mm)			Ultraviolet Radiation Output (W)	Average Life (Hrs)	Base
				Diameter	Outer Diameter	Length			
FL4BL-B	J	4	4	15.5	—	134.5	0.25	2,000	Med. bipin (G5)
FL6BL-B	J	6	6	15.5	—	210.5	0.6	2,000	
FL8BL-B	J	8	8	15.5	—	287	1.0	2,000	
FL15BL-B	J	15	15	25.5	—	436	2.1	3,500	(G13)
FL40SBL-B	J	40	40	32.5	—	1,198	7.4	5,000	

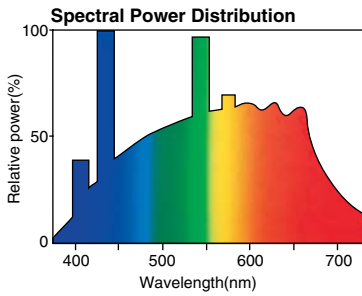


## GERMICIDAL **GL**

NEC sterilization lamps are made of special glass that allows ultraviolet rays to pass through, and are designed to emit large amounts of 253.7 nm ultraviolet rays that are close to the maximum effective sterilization point.



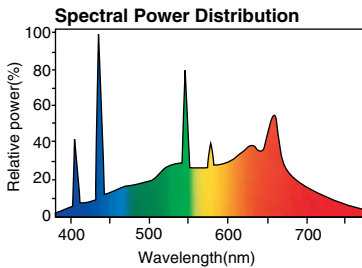
Model	Category	Size Classification (W)	Dimension (mm)			UV-C Output (W)	Average Life (Hrs)	Base
			Diameter	Outer Diameter	Length			
GL4	J	4	15.5	—	134.5	0.5	3,000	Med. bipin (G5)
GL6	J	6	15.5	—	210.5	1.0	3,000	
GL8	J	8	15.5	—	287	1.6	3,000	
GL15	J	15	25.5	—	436	3.0	4,000	(G13)



## HIGH-COLOR RENDERING **N-SDL** FLUORESCENT LAMPS

With high-color rendering fluorescent lamps, the emphasis is placed on color rendering rather than brightness. N-SDL lamps are rated at a color of temperature 5,000K and have an average color rendering index value (Ra) of 92. This makes them ideal for fresh food showcases.

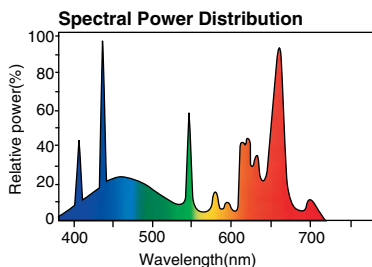
Model	Category	Size Classification (W)	Nominal Wattage (W)	Dimension (mm)		Total Luminous Flux (lm)	Average Life (Hrs)	Base
				Diameter	Length			
FL10N-SDL	J	10	10	25.5	330	350	6,000	Med. bipin
FL15N-SDL	J	15	15	25.5	436	600	6,000	
FL20SSN-SDL-24	I	20	18	27.5	588.5	900	8,500	
FL40SN-SDL	J	40	40	32.5	1,198	2,170	12,000	
FL65SSN-SDL/58	I	65	58	25.5	1,498.5	3,300	12,000	



## HIGH-COLOR RENDERING **CW-SDL** FLUORESCENT LAMPS

Developed with the emphasis on color rendering rather than brightness, the CW-SDL lamp is rated at a color temperature of 4,200K and has an average color rendering index value (Ra) of 92. This lamp is ideal in places where a fresh, natural look is required, and can also be used in hospital examination rooms.

Model	Category	Size Classification (W)	Nominal Wattage (W)	Dimension (mm)		Total Luminous Flux (lm)	Average Life (Hrs)	Base
				Diameter	Length			
FL20SSCW-SDL-24	I	20	18	27.5	588.5	960	8,500	Med. bipin (G13)
FL40SSCW-SDL/37	I	40	37	27.5	1,198	2,240	12,000	
FL65SSCW-SDL/58	I	65	58	25.5	1,498.5	3,360	12,000	



## FLUORESCENT LAMPS **BR-B** FOR MEAT SHOWCASES

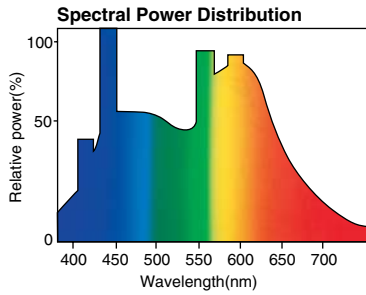
These lamps enhance reds and are popularly used in butcher shops to make meat displays highly attractive.

Model	Category	Size Classification (W)	Nominal Wattage (W)	Dimension (mm)		Total Luminous Flux (lm)	Average Life (Hrs)	Base
				Diameter	Length			
FL20SSBR-B-24	I	20	18	27.5	588.5	500	7,500	Med. bipin (G13)
FL30SSBR-B-36	I	30	30	25.5	893	800	7,500	
FL40SSBR-B/37	I	40	37	27.5	1,198	1,120	10,000	
FL65SSBR-B/58	I	65	58	25.5	1,498.5	1,760	10,000	

# Standard Fluorescent Lamps

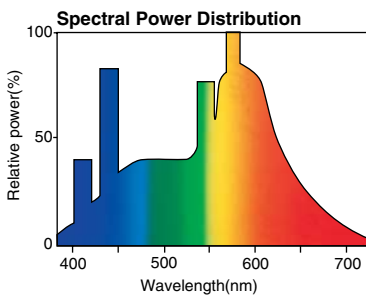
## Daylight D:

D fluorescent lamps emit light with a slight blue tinge to it. These lamps produce a cool-looking atmosphere, and are ideal for general offices, factories and signboards.



## Cool white CW:

CW fluorescent lamps emit warm light with a slight yellow tinge to it. These lamps give spaces a calm impression, and are ideal for general offices, factories and households.



Model	Category	Size Classification (W)	Nominal Wattage (W)	Dimension (mm)			Total Luminous Flux (lm)	Average Life (Hrs)	Base	
				Diameter	Outer Diameter	Length				
<b>Pre-heat Start Tubular Lamps</b>										
FL4	D CW	I	4	4	15.5	—	134.5	95 110	6,000	Med. bipin (G5)
FL6	D CW	I	6	6	15.5	—	210.5	210 240	6,000	
FL8	D CW	I	8	8	15.5	—	287	350 400	6,000	
FL10	D CW	I	10	10	25.5	—	330	420 490	7,500	(G13)
FL13	D CW	I	13	13	15.5	—	515.5	740 850	7,500	(G5)
FL15	D CW	I	15	15	25.5	—	436	750 860	7,500	Med. bipin (G13)
FL20SS	D CW /18	I	20	18	27.5	—	588.5	1,070 1,230	9,000	
FL20S	D CW	S I	20	20	32.5	—	588.5	1,070 1,230	9,000	
FL30SS	D CW	I	30	30	25.5	—	893	1,800 2,100	9,000	
FL40SS	D CW /18	I	40	37	27.5	—	1,198	2,700 3,100	20,000	
FL40S	D CW	S I	40	40	32.5	—	1,198	2,700 3,100	20,000	
FL65SS	D CW /58	S	65	58	25.5	—	1,498.5	4,180 4,800	20,000	

## Pre-heat Start Tubular Lamps

FLR40S	D CW /M	J S	40	40	32.5	—	1,198	2,610 3,000	12,000	(G13)
FLR110H	D CW /A	J S	110	110	38	—	2,367	7,800 8,960	12,000	RDC (R17D)

## Pre-heat Start Circular Lamps

FCL20	D CW	I S	20	18	29	206	—	1,020 1,180	9,000	G10q
FCL22	D CW	I	22	22	29	210	—	1,080 1,250	9,000	
FCL30	D CW	I S	30	28	29	226	—	1,550 1,770	9,000	
FCL32	D CW	I	32	30	29	300	—	1,890 2,150	9,000	
FCL40-16	D CW	I	40	38	29	402	—	2,470 2,840	9,000	

Category Indication / I: Standard product, J: For Japan, S: Custom product

## NEC Lighting, Ltd.

All specifications subject to change without notice

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