

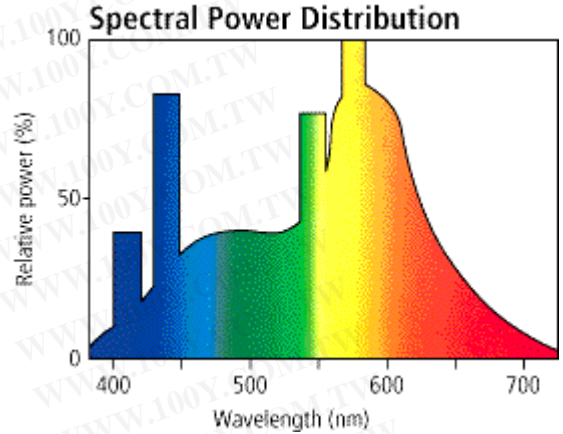
Standard Fluorescent Lamps

勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-54151736
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)



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			
Pre-heat Start Tubular Lamps									
FL4CW	I	4	4	15.5	-	134.5	110	6,000	Med. bipin (G5)
FL6CW	I	6	6	15.5	-	210.5	240	6,000	
FL8CW	I	8	8	15.5	-	287	400	6,000	
FL10CW	I	10	10	25.5	-	330	490	7,500	(G13)
FL13CW	I	13	13	15.5	-	515.5	850	7,500	(G5)
FL15CW	I	15	15	25.5	-	436	860	7,500	Med. bipin (G13)
FL20SSCW/18	I	20	18	27.5	-	588.5	1,230	9,000	
FL20SCW	I	20	20	32.5	-	588.5	1,230	9,000	
FL30SSCW	I	30	30	25.5	-	893	2,100	9,000	
FL40SSCW/18	I	40	37	27.5	-	1,198	3,100	20,000	
FL40SCW	I	40	40	32.5	-	1,198	3,100	20,000	
FL65SSCW/58	I	65	58	25.5	-	1,498.5	4,800	20,000	
Rapid Start Tubular Lamps									
FLR40SCW/M	S	40	40	32.5	-	1,198	3,000	12,000	(G13)
FLR40SCW/A	S	40	40	32.5	-	1,198	3,000	12,000	RDC

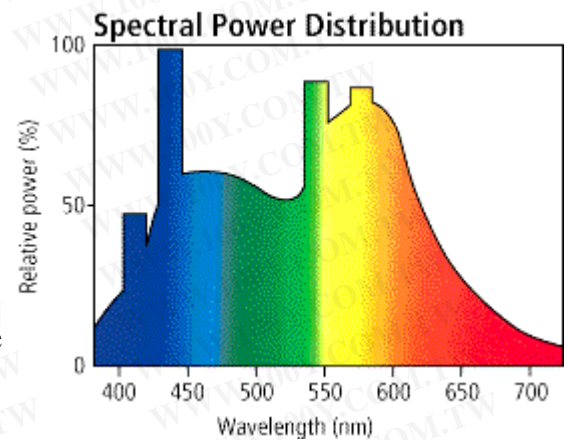
									(R17D)
Pre-heat Start Circular Lamps									
FCL20CW	S	20	18	29	206	-	1,180	9,000	G10q
FCL22CW	I	22	22	29	210	-	1,250	9,000	
FCL30CW	S	30	28	29	226	-	1,770	9,000	
FCL32CW	I	32	30	29	300	-	2,150	9,000	
FCL40CW-16	I	40	38	29	402	-	2,840	9,000	

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



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.



Model	Category	Size Classification (W)	Nominal Lamp Watts (W)	Dimension (mm)			Total Luminous Flux (lm)	Average Life (Hrs)	Base
				Diameter	Outer Diameter	Length			
Pre-heat Start Tubular Lamps									
FL4D	I	4	4	15.5	-	134.5	95	6,000	Med.
FL6D	I	6	6	15.5	-	210.5	210	6,000	bipin
FL8D	I	8	8	15.5	-	287	350	6,000	(G5)
FL10D	I	10	10	25.5	-	330	420	7,500	(G13)
FL13D	I	13	13	15.5	-	515.5	740	7,500	(G5)
FL15D	I	15	15	25.5	-	436	750	7,500	Med.
FL20SSD/18	I	20	18	27.5	-	588.5	1,070	9,000	bipin
FL20SD	S	20	20	32.5	-	588.5	1,070	9,000	(G13)
FL30SSD	I	30	30	25.5	-	893	1,800	9,000	
FL40SSD/18	I	40	37	27.5	-	1,198	2,700	20,000	

FL40SD	S	40	40	32.5	-	1,198	2,700	20,000	
FL65SSD/58	I	65	58	25.5	-	1,498.5	4,180	20,000	
Rapid Start Tubular Lamps									
FLR40SD/M	J	40	40	32.5	-	1,198	2,610	12,000	(G13)
FLR110HD/A	J	110	110	38	-	2,367	7,800	12,000	RDC (R17D)
Pre-heat Start Circular Lamps									
FCL20D	I	20	18	29	206	-	1,020	9,000	G10q
FCL22D	I	22	22	29	210	-	1,080	9,000	
FCL30D	I	30	28	29	226	-	1,550	9,000	
FCL32D	I	32	30	29	300	-	1,890	9,000	
FCL40D-16	I	40	38	29	402	-	2,470	9,000	

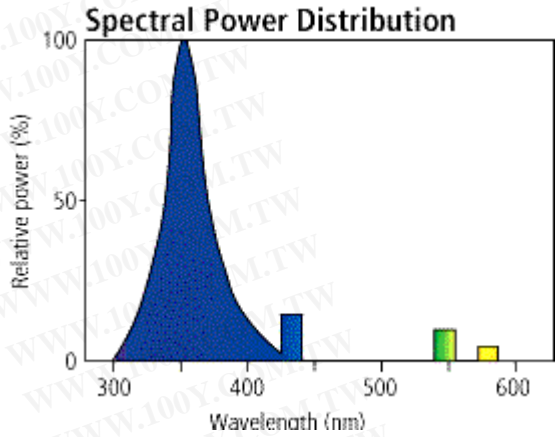
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**NEC offers a wide range of special application fluorescent lamps
to suit your specific application.**



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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	Cate- gory	Size Classi- fication (W)	Nominal Lamp Watts (W)	Dimension (mm)			Ultraviolet Ray Output (W)	Average Life (Hrs)	Base
				Diameter	Outer Diameter	Length			
Pre-heat Start Tubular Lamps									
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	
Pre-heat Start Circular Lamps									
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	

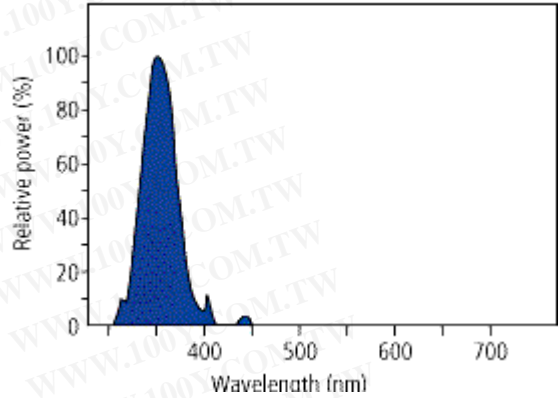
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BLACK LIGHT BLUE FLUORESCENT LAMPS **BL-B**

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Spectral Power Distribution



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 Lamp Watts (W)	Dimension (mm)		Ultraviolet Ray Output (W)	Average Life (Hrs)	Base
				Diameter	Length			
Pre-heat Start Tubular Lamps								
FL4BL-B	J	4	4	15.5	134.5	0.25	2,000	Med. bipin (G5) (G13)
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	
FL40SBL-B	J	40	40	32.5	1,198	7.4	5,000	

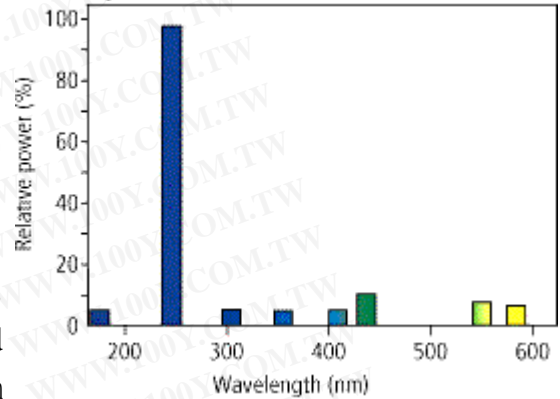
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GERMICIDAL GL



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.

Spectral Power Distribution



Model	Category	Size Classification (W)	Dimension (mm)		UV-C Output (W)	Average Life (Hrs)	Base
			Diameter	Length			
Pre-heat Start Tubular Lamps							
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	

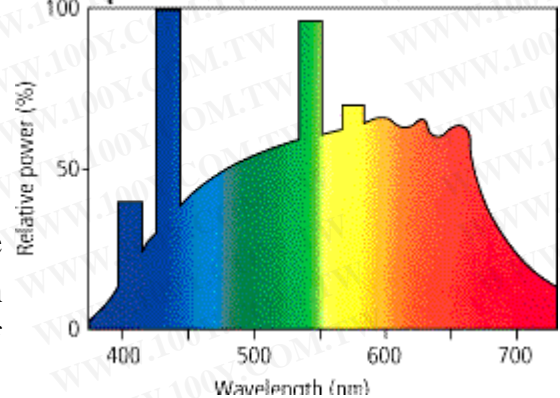
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HIGH-COLOR RENDERING FLUORESCENT LAMPS N-SDL



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.

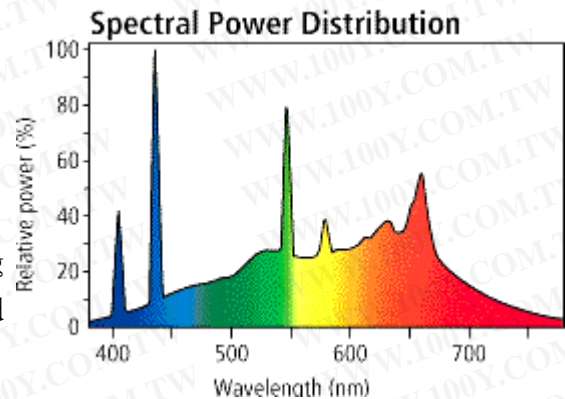
Spectral Power Distribution



Model	Category	Size Classification (W)	Nominal Lamp Watts (W)	Dimension (mm)		Total Luminous Flux (lm)	Average Life (Hrs)	Base
				Diameter	Length			
Pre-heat Start Tubular Lamps								
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	

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

CW-SDL
HIGH-COLOR RENDERING FLUORESCENT LAMPS



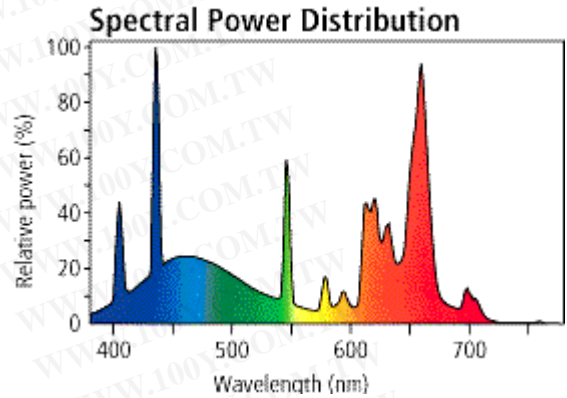
Developed with the emphasis on color rendering rather than brightness, the CW-SDL lamp is rated at a color temperature of 4,200K and has an average color rendering index value (Ra) of 92. This lamp is ideal in places where a fresh, natural look is required, and can also be used in hospital examination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

Model	Category	Size Classification (W)	Nominal Lamp Watts (W)	Dimension (mm)		Total Luminous Flux (lm)	Average Life (Hrs)	Base
				Diameter	Length			
Pre-heat Start Tubular Lamps								
FL20SSCW-SDL-24	I	20	18	27.5	588.5	960	8500	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	

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

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BR-B
FLUORESCENT LAMPS 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 Lamp Watts (W)	Dimension (mm)		Total Luminous Flux (lm)	Average Life (Hrs)	Base
				Diameter	Length			
Pre-heat Start Tubular Lamps								
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	

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Fluorescent Lamps for **Tropical Fish and Plant Displays**



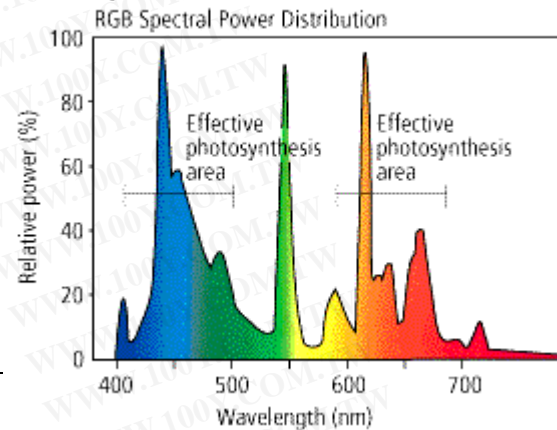
BR-HG and BR have been designed to produce the ideal brightness for viewing tropical fish and plant displays.



BR-HG



Spectral Power Distribution



Brightness That Vividly Renders Colors

Tri-phosphor is used to show tropical plants and plant displays vividly.

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 infrared rays for promoting photosynthesis.

Twice the brightness of conventional BR-HG lamps

BR-HG (FL20SBR-HG) Light output 800 lm

BR (FL20SBR) Light output 400 lm

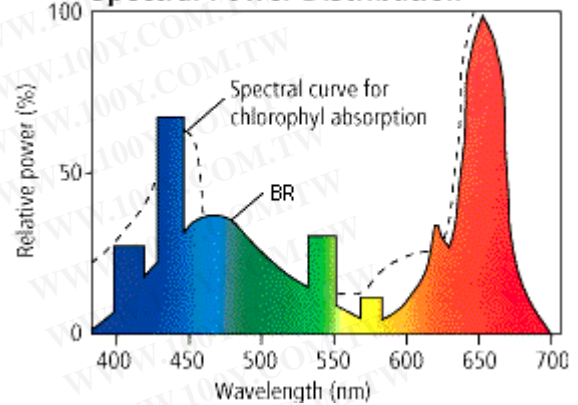
Model	Cate- gory	Size Classi- fication (W)	Nominal Wattage (W)	Dimension (mm)		Total Luminous Flux (lm)	Average Life (Hrs)	Base
				Diameter	Length			
Pre-heat Start Tubular Lamps								
FL8BR-HG	J	8	8	15.5	287	320	6,000	Med. bipin (G5)
FL10BR-HG	J	10	10	25.5	330	384	7,500	
FL15BR-HG	J	15	15	25.5	436	580	7,500	
FL20SSBR/18-HG-24	I	20	18	27.5	588.5	800	9,000	Med. bipin (G13)
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	

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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 and the Spectral Curve for Chlorophyll Absorption
Spectral Power Distribution



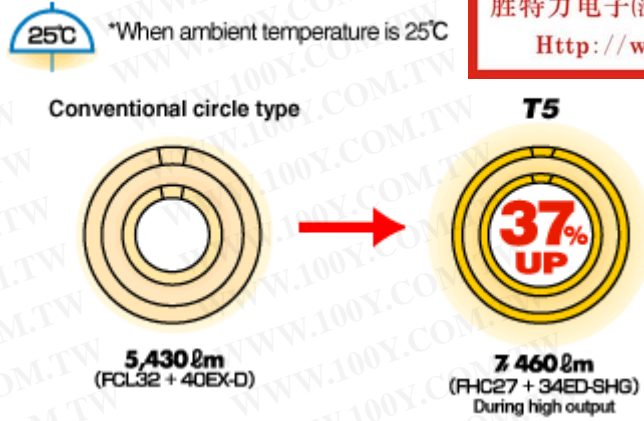
Model	Category	Size Classification (W)	Nominal Wattage (W)	Dimension (mm)			Total Luminous Flux (lm)	Average Life (Hrs)	Base
				Diameter	Outer Diameter	Length			
Pre-heat Start Tubular Lamps									
FL8BR	I	8	8	15.5	-	287	170	6,000	Med. bipin (G13)
FL10BR	I	10	10	25.5	-	330	192	7,500	
FL14BR	I	14	14	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	
Pre-heat Start Circular Lamps									
FCL32BR	I	32	30	29	300	-	800	9,000	G10q

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T5 High-frequency electronic ballast Fluorescent Lamps

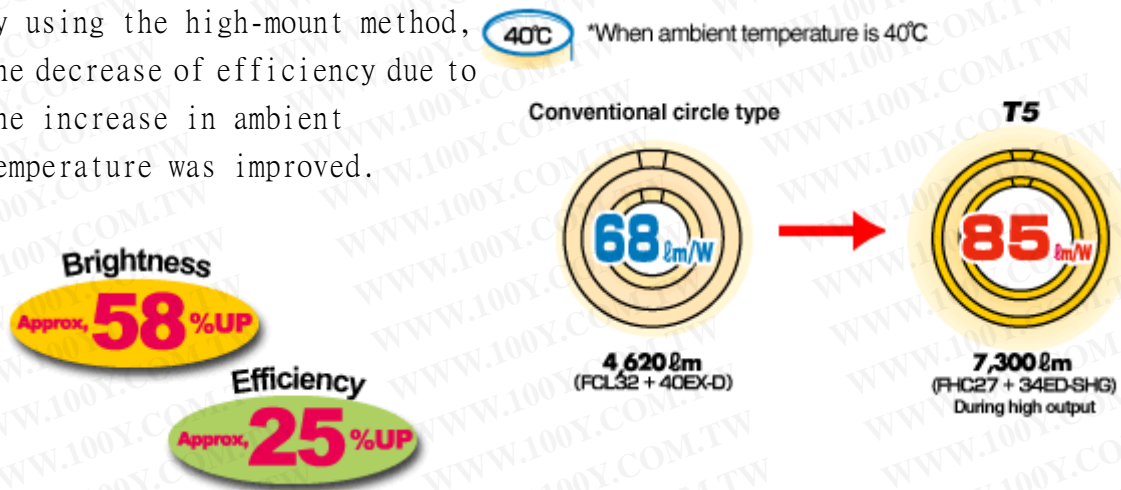
FEATURE 1 Brighter

By combining a special inverter, the <product name here> is approximately 37% brighter than conventional environment fluorescent lamps.



FEATURE2 More Efficient

By using the high-mount method, the decrease of efficiency due to the increase in ambient temperature was improved.



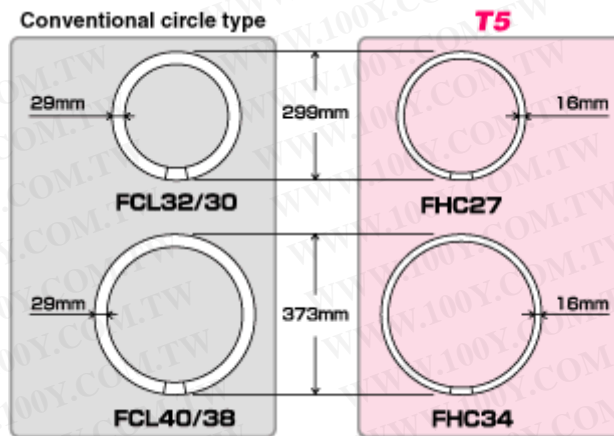
FEATURE3 Longer Life

The rated service life is 12,000 hours (*fhc13: 9,000hours), 2.0 times that of past environment fluorescent lamps (in-company comparison)

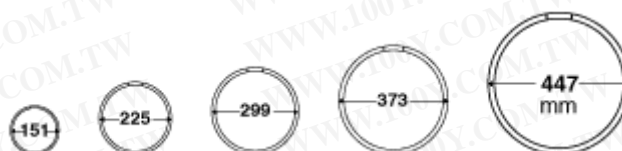


FEATURE4 Slimmer

The lamp tube diameter is 16mm, allowing little space to be used as well as thinner fixings.



After Glow



TYPE				
FHC13	FHC20	FHC27	FHC34	FHC41
Nominal Lamp Watts (W)				
18	28	38	48	58

*During high output

Model	Category	Size Classification (W)	Nominal Lamp Watts (W)	Dimension (mm)		Lamp Current (A)	Total Luminous Flux (lm)		Average Life (Hrs)
				Diameter	Outer Diameter		25°C	35°C	
Pre-Heat Circular Lamp									
FCH13ED-SHG	J	6,700	13(Rated output)	16	151	0.215	920	-	9,000
			18(High output)			0.380	1,240	-	
FCH20ED-SHG	J	6,700	20(Rated output)	16	225	0.215	1,600	1,680	12,000
			28(High output)			0.380	2,170	2,180	
FCH27ED-SHG	J	6,700	27(Rated output)	16	299	0.215	2,340	2,460	12,000
			38(High output)			0.380	3,240	3,260	
FCH34ED-SHG	J	6,700	34(Rated output)	16	373	0.215	3,050	3,200	12,000
			48(High output)			0.380	4,220	4,250	

FCH41ED-SHG	J	6,700	41(Rated output)	16	447	0.215	3,310	3,680	12,000
			58(High output)			0.350	4,600	4,920	
FCH13EN-SHG	J	5,000	13(Rated output)	16	151	0.215	980	-	9,000
			18(High output)			0.380	1,320	-	
FCH20EN-SHG	J	5,000	20(Rated output)	16	225	0.215	1,700	1,790	12,000
			28(High output)			0.380	2,310	2,320	
FCH27EN-SHG	J	5,000	27(Rated output)	16	229	0.215	2,490	2,610	12,000
			38(High output)			0.380	3,430	3,450	
FCH34EN-SHG	J	5,000	34(Rated output)	16	373	0.215	3,240	3,400	12,000
			48(High output)			0.380	4,480	4,510	
FCH41EN-SHG	J	5,000	41(Rated output)	16	447	0.215	3,510	3,900	12,000
			58(High output)			0.350	4,870	5,220	
FCH13EL-SHG	J	3,000	13(Rated output)	16	151	0.215	980	-	9,000
			18(High output)			0.380	1,320	-	
FCH20EL-SHG	J	3,000	20(Rated output)	16	225	0.215	1,700	1,790	12,000
			28(High output)			0.380	2,310	2,320	
FCH27EL-SHG	J	3,000	27(Rated output)	16	299	0.215	2,490	2,610	12,000
			38(High output)			0.380	3,430	3,450	
FCH34EL-SHG	J	3,000	34(Rated output)	16	373	0.215	3,240	3,400	12,000
			48(High output)			0.380	4,480	4,510	
FCH41EL-SHG	J	3,000	41(Rated output)	16	447	0.215	3,510	3,900	12,000
			58(High output)			0.350	4,870	5,220	

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



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.

Comparison with Standard Lamps

Type		Model	Nominal Wattage (W)	Total Luminous Flux (lm)	Efficiency (lm/W)	Diameter (mm)
Straight Lamps	High-frequency type	FHF32EX-N-HX	32 Rated output	3,200	110	25.5
			45 High output	4,500	110	
	Standard type	FL40SN	40 Rated output 40	2,950	74	32.5
Circular Lamps	High-frequency type	FHC27EN-SHG	27 Rated output	2,510	97	16
			38 High output	3,250	91	
	Standard type	FCL-32N/30	30 Rated output	1,960	65	29



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.

Model	Category	Size Classification (W)	Nominal Wattage (W)	Dimension (mm)		Lamp Current (A)	Total Luminous Flux (lm)	Average Life (Hrs)	Base	
				Diameter	Length					
Pre-heat Start Tubular Lamps										
FHF32EX-N-HX	J	5,000	32(Rated output)	25.5	1,198	0.255	3,520	20,000	Med. bipin (G13)	
			45(High output)			0.425	4,950			
FHF32EX-D-HX	J	6,700	32(Rated output)	25.5	1,198	0.255	3,310			
			45(High output)			0.425	4,650			
FHF32EX-W-HX	J	4,200	32(Rated output)	25.5	1,198	0.255	3,520			
			45(High output)			0.425	4,950			
FHF32EX-WW-HX	J	3,500	32(Rated output)	25.5	1,198	0.255	3,520			
			45(High output)			0.425	4,950			
Model				Dimension (mm)						Base

				Diameter	Outer Diameter				
Pre-heat Start Circular Lamps									
FHC13ED-SHG	J	6,700	13(Rated output)	16	151	0.215	920	9,000	G10q
			18(High output)			0.380	1,240		
FHC20ED-SHG	J	6,700	20(Rated output)	16	225	0.215	1,600	12,000	
			28(High output)			0.380	2,170		
FHC27ED-SHG	J	6,700	27(Rated output)	16	299	0.215	2,340	12,000	
			38(High output)			0.380	3,240		
FHC34ED-SHG	J	6,700	34(Rated output)	16	373	0.215	3,050	12,000	
			48(High output)			0.380	4,220		
FHC41ED-SHG	J	6,700	41(Rated output)	16	447	0.215	3,310	12,000	
			58(High output)			0.350	4,600		
FHC13EN-SHG	J	5,000	13(Rated output)	16	151	0.215	980	9,000	
			18(High output)			0.380	1,320		
FHC20EN-SHG	J	5,000	20(Rated output)	16	225	0.215	1,700	12,000	
			28(High output)			0.380	2,310		
FHC27EN-SHG	J	5,000	27(Rated output)	16	299	0.215	2,490	12,000	
			38(High output)			0.380	3,430		
FHC34EN-SHG	J	5,000	34(Rated output)	16	373	0.215	3,240	12,000	
			48(High output)			0.380	4,480		
FHC41EN-SHG	J	5,000	41(Rated output)	16	447	0.215	3,510	12,000	
			58(High output)			0.350	4,870		
FHC13EL-SHG	J	3,000	13(Rated output)	16	151	0.215	980	9,000	
			18(High output)			0.380	1,320		
FHC20EL-SHG	J	3,000	20(Rated output)	16	225	0.215	1,700	12,000	
			28(High output)			0.380	2,310		
FHC27EL-SHG	J	3,000	27(Rated output)	16	299	0.215	2,490	12,000	
			38(High output)			0.380	3,430		
FHC34EL-SHG	J	3,000	34(Rated output)	16	373	0.215	3,240	12,000	
			48(High output)			0.380	4,480		
FHC41EL-SHG	J	3,000	41(Rated output)	16	447	0.215	3,510	12,000	
			58(High output)			0.350	4,870		

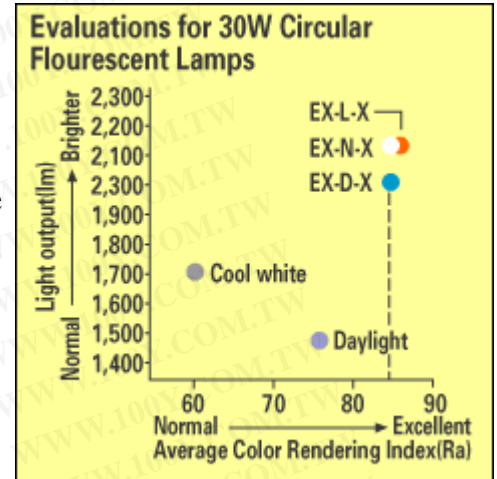
HG X 3-band Fluorescent Lamps

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.

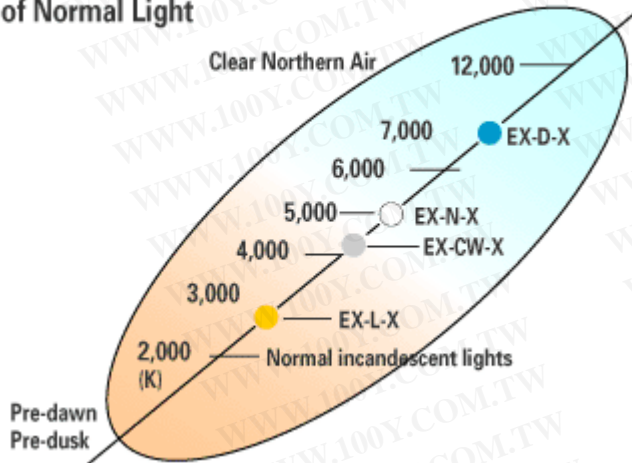
Brighter

17 to 38% brighter than standard lamps.



Comparison of Lamp Brightness and Color Rendering.

Comparison with Color Temperature of Normal Light



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 Lamps

(in case of "FL40SS")

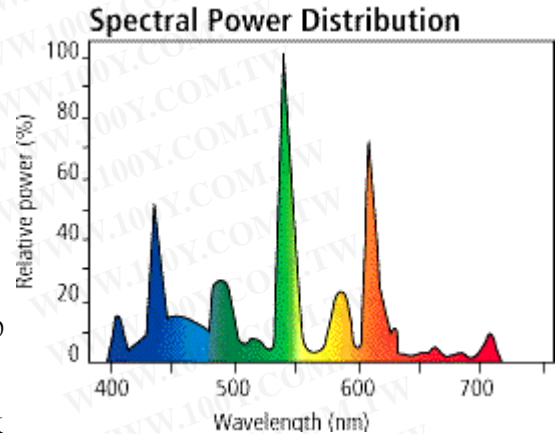
Type	Sign	Lumen ratio (%)	Average Color rendering index (Ra)	color temperature (K)
Cool white	CW	115	61	4,200

Daylight	D	100	74	6,500
Tri-phospor	EX-L-X	139	84	3,000
	EX-N-X	139		5,000
	EX-D-X	129		6,700

EX-N-X



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.



Model	Category	Size Classification (W)	Nominal Wattage (W)	Dimension (mm)			Total Luminous Flux (lm)	Average Life (Hrs)	Base
				Diameter	Outer Diameter	Length			
Pre-heat Start Tubular Lamps									
FL10EX-N-X	J	10	10	25.5	-	330	580	7,500	Med. bipin (G13)
FL15EX-N-X	I	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	
Pre-heat Start Circular Lamps									
FCL22EX-N-X	I	22	22	29	210	-	1,360	9,000	G10q
FCL30EX-N/28-X	J	30	28	29	226	-	2,100	9,000	
FCL32EX-N-X	I	32	30	29	300	-	2,510	9,000	
FCL40EX-N-X-16	I	40	38	29	402	-	3,270	9,000	

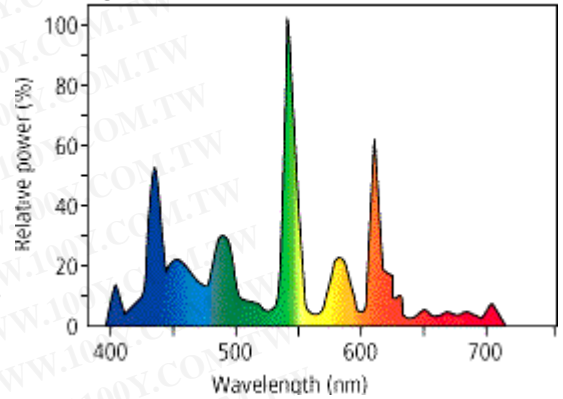
Category Indication / I: Standard product, J: For Japan, S: Custom product

EX-D-X



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.

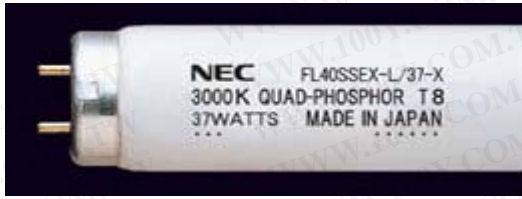
Spectral Power Distribution



Model	Category	Size Classification (W)	Nominal Wattage (W)	Dimension (mm)			Total Luminous Flux (lm)	Average Life (Hrs)	Base
				Diameter	Outer Diameter	Length			
Pre-heat Start Tubular Lamps									
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	
Pre-heat Start Circular Lamps									
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	I	40	38	29	402	-	3,320	9,000	

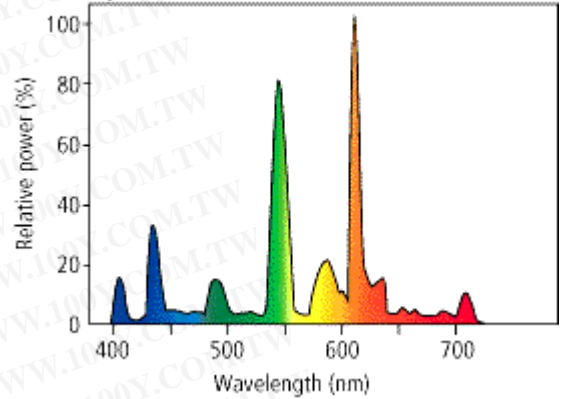
Category Indication / I: Standard product, J: For Japan, S: Custom product

EX-L-X



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.

Spectral Power Distribution



Model	Category	Size Classification (W)	Nominal Wattage (W)	Dimension (mm)			Total Luminous Flux (lm)	Average Life (Hrs)	Base
				Diameter	Outer Diameter	Length			
Pre-heat Start Tubular Lamps									
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	
Pre-heat Start Circular Lamps									
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	

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

After Glow, 3-band Fluorescent Lamps

勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-54151736
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)



Immediately after lighting is turned off

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.

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 dark

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.

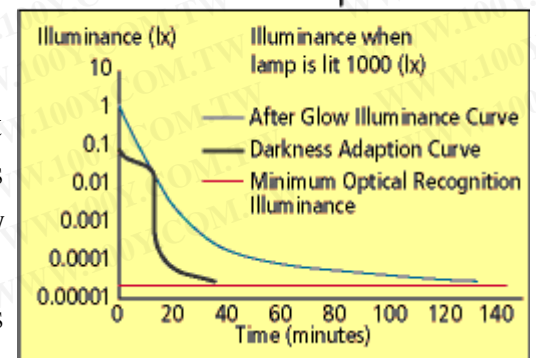


An after glow is maintained for approximately 60 minutes that allow you to recognize objects in dark places.

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

After Glow Illuminance Decaying Characteristics and Darkness Adaption Curve



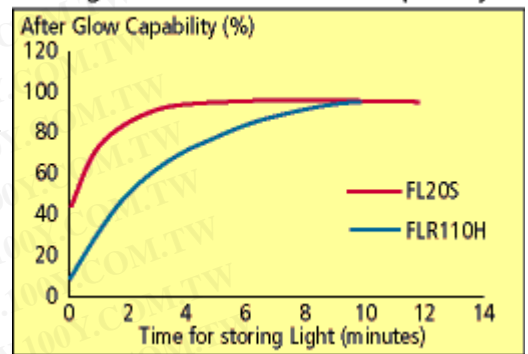
illuminance) and the after glow illuminance of EX-D-SHG.

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



EX-D-SHG

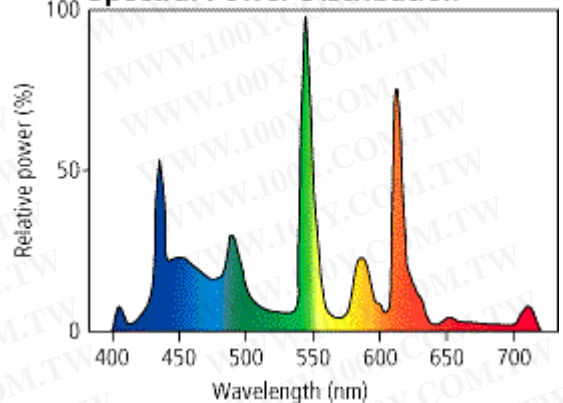


3-band Type Daylight Color

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)

Spectral Power Distribution

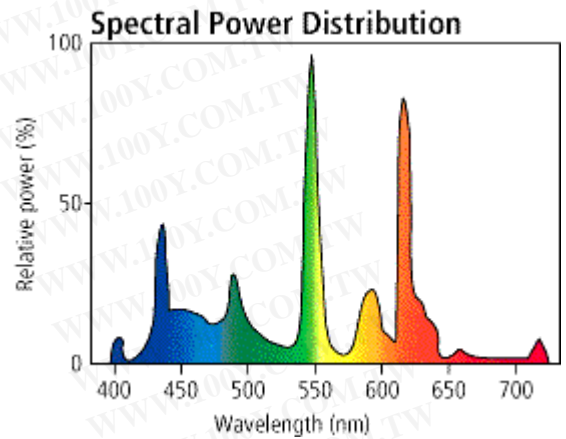


Model	Category	Size Classification (W)	Nominal Wattage (W)	Dimension (mm)			Total Luminous Flux (lm)	Average Life (Hrs)	Base
				Diameter	Outer Diameter	Length			
Pre-heat Start Tubular Lamps									
FL10EDF-SHG	J	10	10	25.5	-	330	520	7,500	Med. bipin (G13)
FL15EDF-SHG	J	15	15	25.5	-	436	910	7,500	
FL20SSEDF/18-SHG	J	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	
Pre-heat Start Circular Lamps									

FCL30EDF/28-SHG	J	30	28	29	226	-	2,000	9,000	G10q
FCL32EDF/30-SHG	J	32	30	29	300	-	2,360	9,000	

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

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	Length			
Pre-heat Start Tubular Lamps								
FL10ENM-SHG	J	10	10	25.5	330	555	7,500	Med. bipin (G13)
FL15ENM-SHG	J	15	15	25.5	436	970	7,500	
FL20SSEN/18-SHG	J	20	18	27.5	588.5	1,470	9,000	
FL40SSEX-N/37-SHG	S	40	37	27.5	1,198	3,560	20,000	

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

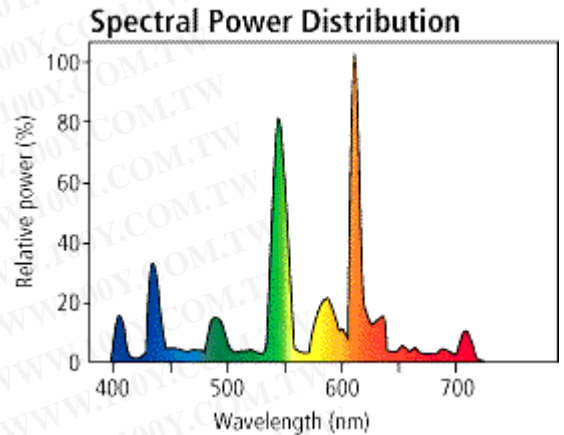
EX-L-SHG

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3-band Type Warm Color

With a warm color temperature of 2,700K ELR-SHG* lamp produces calm and restfull 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	Cate-gory	Size Classi-fication (W)	Nominal Wattage (W)	Dimension (mm)		Total Luminous Flux (lm)	Average Life (Hrs)	Base
				Diameter	Length			
Pre-heat Start Tubular Lamps								
FL10ELR-SHG	J	10	10	25.5	330	555	7,500	Med. bipin (G13)
FL15ELR-SHG	J	15	15	25.5	436	970	7,500	
FL20SSELR/18-SHG	J	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	

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

Cold Cathode Fluorescent Lamps

Point 1 Smaller diameter and higher luminance

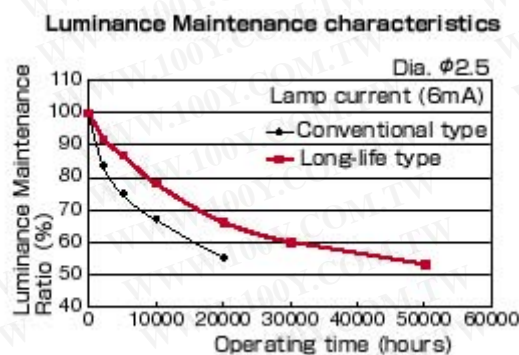
NEC cold cathode fluorescent lamps are manufactured from hard glass that provides smaller tube diameter and high-dimensional accuracy with more than enough strength. In addition, the combination of a high-efficiency, tri-phosphor with NEC's high-level production knowledge know how provides higher luminance, and are ideal for compact installations where light weight is required.

Comparison at light-on (lamp current: 5mA)	
High-luminance type $\phi 2$ mm	Conventional type $\phi 3$ mm

Point2 Long life cold cathode fluorescent lamps

We have developed these long life cold cathode fluorescent lamps for use as back lights for large LCD monitors and televisions, and have achieved an operating life of 50,000 hours (at 6mA).

In addition, using our new electrode, we have been able to reduce energy consumption by 10% and reduce temperature rise when compared to conventional types.



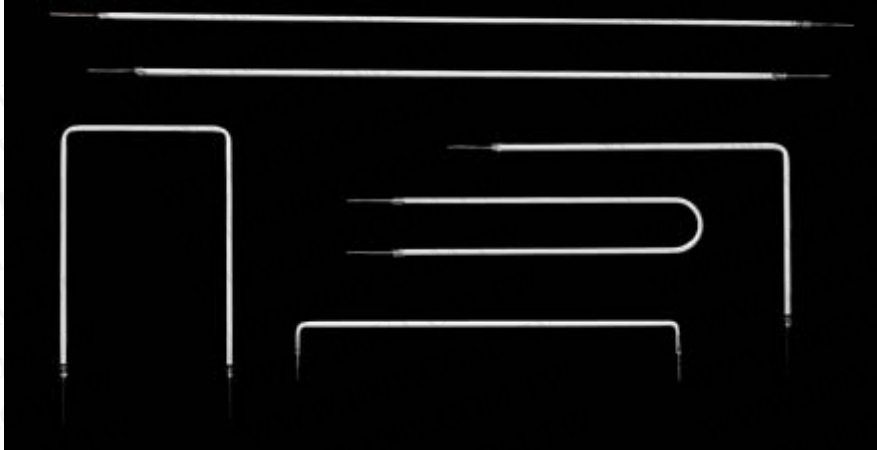
Point3 Select from a variety of shapes

Select from a variety of shapes including "L" and "U" shapes to suit your application.

By bending just the ends of the tube it is possible to obtain the longest effective light emitting length.

This makes these lamps ideal for applications such as document illumination sources in photocopiers and scanners.

Cold cathode fluorescent lamps for LCD back lighting



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Long life, cold cathode fluorescent lamps



•Features

Long life (50% rated life) is 50,000 hours

By improving the fluorescent coating on the lamp we have been able to reduce the luminance decay over the life of the lamp and have achieved a rated operating life of 50,000 hours (rated operating life: time until lamp luminance drops by 50%).

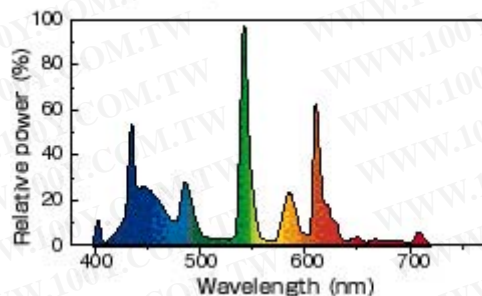
The new electrode design also provides a 10% decrease in energy consumption (internal company comparison).

•Applications

Large LCD monitors and televisions

The long operating life of these lamps makes them an ideal choice for back lighting for large liquid-crystal displays.

Spectral power distribution



Dia. (mm)	Type	Length (straight) (mm)	Type Name	Lamp current (mA)	Lamp voltage (V)	Center luminance (cd/sq.m)	Rated life (hrs.)
2.5	Straight	65~400	CFL9EX**H/**T2.5	6	200~650	35,000	50,000
3.0	Straight	65~500	CFL9EX**H/**T3.0	5	200~730	33,000	50,000

Cold cathode fluorescent lamps for originals illumination



•Features

Long effective light emitting length is ideal for compact office equipment

The ends of the lamp are bent to form a "square bracket" shape which allows a long effective light emitting length in the main scanning direction for copiers and scanners, and contributes to more compact office equipment designs.

Fast start-up after switch off

We have modified the enclosed gas in the tube and have achieved a reduction in start-up time after switch on.

Reduction in start-up time after switch on could be achieved of enclosed glass modification.

There is also a type that uses a large starting current to speed up starting.

•Applications

Ideal for use in scanners and photocopiers

Suitable for a wide range of office equipment document illumination applications including illumination for originals in color image scanners (white) and photocopiers (green).

Dia. (mm)	Type	Length (straight) (mm)	Type Name	Lamp current (mA)	Lamp voltage (V)	Center luminance (cd/sq.m)	Rated life (hrs.)
2.5	Straight	65~350	CFL9EX**/**T2.5	5	230~650	32,000	15,000
2.5	[type	150~350	CFLC9YG**/**T2.5	5	400~650	65,000	15,000
2.5	[type	150~350	CFLC9EX**/**T2.5	5	400~650	32,000	15,000
3.0	Straight	65~450	CFL9EX**/**T3.0	5	220~730	30,000	15,000

Cold cathode fluorescent lamps for LCD back lighting




·Features

Optimized design for LCD back lighting

Smaller diameter and higher luminance of these lamps make them an ideal choice for slim-type and light weight back lighting applications.

These lamps are designed to produce maximum luminance when installed into LCD back light.

Dia. (mm)	Type	Length (straight) (mm)	Type Name	Lamp current (mA)	Lamp voltage (V)	Center luminance (cd/sq.m)	Rated life (hrs.)
2.0	Straight	65~300	CFL2EX**/**T2.0	5	280~650	40,000	10,000
2.5	Straight	65~350	CFL2EX**/**T2.3	5	250~600	34,000	10,000
2.5	Straight	65~350	CFL2EX**/**T2.5	5	230~650	32,000	15,000
2.5	[type	150~350	CFLC2EX**/**T2.5	5	300~650	32,000	15,000
3.0	L type	65~450	CFL2EX**/**T2.5	5	300~730	32,000	15,000

Correct use of cold cathode fluorescent lamps	
WARNING 	Care during use
Switch the power off before touching the lamp during removal or installation. High voltages are used and there is risk of electric shock.	•These lamps are made from glass and can easily be broken if handled roughly. Never pull, twist, or bend the leads from a lamp using excessive force as this can cause

•Fluorescent lamps are made from glass and break easily. Avoid dropping, striking, scratching or applying unreasonable loads.

Broken glass can cause injury.

•Fluorescent lamps are hot when lit and for a period after they are switched off. To avoid risk of burns to the skin, do not touch lamps when they are hot.

•Store used lamps for disposal without breaking them. When fluorescent lamps break, glass can fly off and cause injury.

sufficient care with regard to the withstanding voltage of the wire material of the wiring harness.

•Keep the wire harness as short as possible as a countermeasure against high-frequency noise and leakage current.

•The leads from the lamp should not be bent within 2mm of the end of the tube. Bending the leads close to the lamp can cause cracks and result in lamp failure.

•The leads from the lamp and wire harness should not be soldered within 2mm of the end of the tube. Before soldering, attach a heat sink to the lead to prevent excessive heat being added to glass sealing portion. Failure to do this can cause cracks and result in lamp failure.

NECの蛍光ランプ

～ 飛散防止形蛍光ランプ・純黄色蛍光ランプ ～

● 飛散防止形蛍光ランプ ●

ランプが破損しても・・・ ガラス破片が飛び散りにくい！

ランプ外面全面に透明の熱収縮性プラスチックフィルムを密着加工した蛍光ランプです。ランプに強い衝撃があった時や落下した場合にガラス片が飛散しにくくなっています。

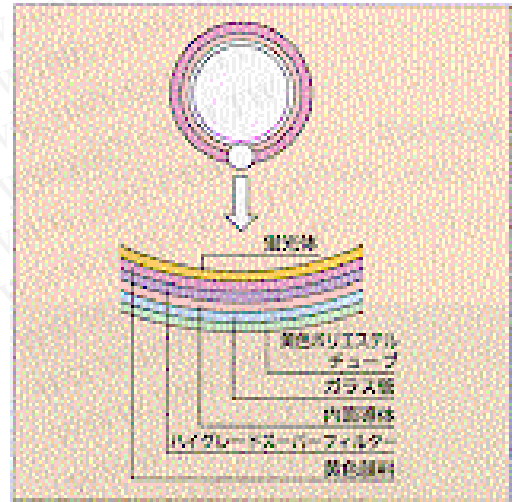
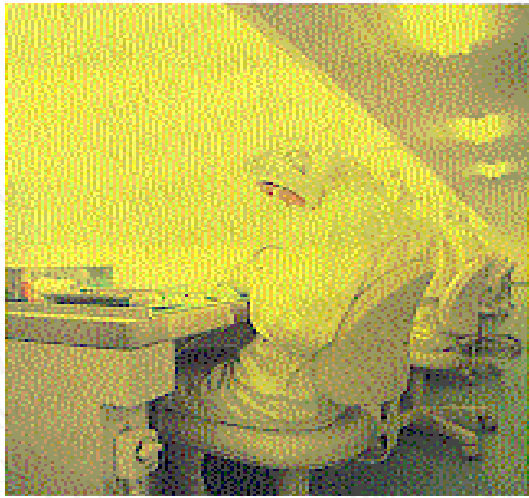
電車、食品加工、電算室、機械工場、学校などに適しています。



飛散防止形蛍光ランプ

一般形蛍光ランプ

● 飛散防止形蛍光ランプ (P) ●



大きさ	電力(W)	品名	商品コード
◇直管ラピッドスタート形			
40形	40	F L R 4 0 S W / M ボウヒ	611-3320
	36	F L R 4 0 S N / M / 3 6 ボウヒ	611-3341
110形	110	F L R 1 1 0 H W / A ボウヒ	611-3531

● 純黄色蛍光ランプ ●

半導体工業におけるウエハーへのパターン焼付にはフォトレジストを使用します。このパターン焼付作業室の照明光は、500nm以下の波長成分の無いものが要求されております。純黄色蛍光ランプはこのような用途に最適な蛍光ランプで、ガラス内面に500nm以下の波長成分をほぼ完全にカットする黄色フィルタ層を設けその上に蛍光体を塗布した構造となっています。

また最近の半導体工業の発展はめざましく、より集積度の高いLSI、VLSIなどへ製品の中心が移っております。このような集積度の高いより微細なパターン焼付に際しては500nm以下の波長成分のより完全でより確実なカットが要望されてきました。また半導体パターン焼付作業はクリーンルーム内で実施されていますがランプが破損するというアクシデントに際してもクリーンルーム内に飛散しない飛散防止形が要望されています。

このようなご要望を満足させるニュータイプとして高信頼性・LSI用純黄色蛍光ランプをラインアップしました。この蛍光ランプの構造図は左図のように純黄色蛍光ランプのガラス外面全面に黄色ポリエステルチューブを熱収縮加工により密着させたものです。また、虫の好む波長域である450nm以下の光を、ほぼ完全にカットしてありますので、虫の集まりが少なくなります。

<用途>

- 果樹園、マンション、公衆電話
- 吸収夜蛾などの忌避光源
- 印刷製版室用照明
- プリント版パターン焼付室用照明

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■ 純黄色蛍光ランプ シリーズ 紹介 ■

● 純黄色蛍光ランプ (半導体工業用) ●

大きさ	電力(W)	品 名	商品コード
◇直管ラピッドスタート形			
20形	20	FLR20SY-F/M/LSI	611-3155
40形	40	FLR40SY-F/M/LSI	611-3346
◇高周波点灯専用形 (Hf専用)			
32形	32	FHF32Y-F/LSI	611-7655

※全品種紫外線カットタイプ

● 純黄色蛍光ランプ (一般用、低誘虫) ●

大きさ	電力(W)	品 名	商品コード
◇直管スタータ形			
6形	6	FL6Y-F	611-1252
10形	10	FL10Y-F	611-1492

20形	20	FL20SY-F	611-2636	
40形	40	FL40SY-F	611-2339	
◇直管ラピッドスタート形				
40形	40	FLR40SY-F/M	611-3344	

※全品種紫外線カットタイプ

NECの蛍光ランプ

～ 看板用蛍光ランプ ・ カラー蛍光
ランプ ～

■看板用蛍光ランプ **めだっ輝**

看板用だから・・・

アクリルパネルに映える！

目立つ、差がつく、うれし
い！



めだっ輝は、看板や広告灯がひと際明るく感じ、くっきりと目立たせることのできる看板用蛍光ランプです。色温度7,800K、平均演色評価数Ra80、美しくさわやかな光色です。

●特長1・看板や広告灯がひと際明るく感じ、くっきりと目立ちます。（当社比）

街中で見かける看板はどれも昼光色蛍光ランプによる照明です。どれも同じ色なので、他の看板との差別化がしにくく、せつかくの看板も台無しです。看板をより美しく目立たせたいとおっしゃる方に「めだっ輝」はうれしい蛍光ランプです。

● 特長 2 ・ 長寿命で経済的な設計

32ワット、40ワットはもちろん20ワットにも長寿命設計の電極を採用しているため低コストでひと際明るい看板が作れます。
 従来の器具にそのまま使える、うれしい蛍光ランプです。

● 看板用蛍光ランプ めだっ輝 ●

大きさ	電力(W)	品 名	商品コード
◇直管スタータ形			
20形	20	FL20SKD	611-2789
30形	30	FL30SKD	611-1966
32形	32	FL32SKD	611-6403
40形	40	FL40SKD	611-2455

■ カラー蛍光ランプ (B , G , P k)



※左記3点はイメージです

ジです

カラー蛍光ランプには、青色 (B)、緑色 (G)、桃色 (P k) の3種類があります。イベント照明用として、幅広くご利用いただけます。

■適用場所：装飾用、看板用、アイキャッチ照明用

● カラー蛍光ランプ (B , G , P k) ●

色	大きさ	電力(W)	品 名	商品コード
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◇直管スタータ形					
青	10形	10	FL10B	611-1411	
	15形	15	FL15B	611-1626	
	20形	20	FL20SB	611-1754	
	40形	40	FL40SB	611-2278	
緑	10形	10	FL10G	611-1410	
	15形	15	FL15G	611-1625	
	20形	20	FL20SG	611-1758	
	40形	40	FL40SG	611-2277	
桃	10形	10	FL10Pk	611-1408	
	15形	15	FL15Pk	611-1623	
	20形	20	FL20SPk	611-1768	
	40形	40	FL40SPk	611-2275	

NECの蛍光ランプ



～ビオルックス（熱帯魚鑑賞 植物育成用）～

植物の育成や熱帯魚などの鑑賞には、それに適したあかりを選ぶ必要があります。ビオルックスHG・ビオルックスは、熱帯魚の鑑賞や植物の育成に欠かせない光を科学し、最適なあかりが得られるように設計されています。

外見だけではわからない、優れた技術をお試しください。



特長1・明るい！

従来のビオルックスに比べ同じ電気代で約2倍の明るさなので、さらに美しくイキイキ！



特長2・経済的！

熱帯魚の水槽など、今まで2本使用していたところが1本で充分。電気代の節約はもちろん、新設時もローコストですみます。同じ電気消費量で明るさ2倍のうれしさです。

さらに、ハイグレードスーパーフィルターが光量を増やし明るさ長もちを実現させました。



ビオルックス 使い方の目安

ビオルックスHG・ビオルックスを使って植物を育成するときの目安は、おおむね次の通りです。

<果菜類の発芽・育苗>

面積1㎡あたり、40Wで2～3灯のランプを土壌から20～40cm上で点灯します。

ランプの点灯時間は昼間の日照時間とあわせ、1日12～16時間が適当です。

<人工光源での植物の育成>

温室植物の低照度で成長する植物には、40Wで4～5灯のランプを植物の先端から30～40cmで点灯します。

菊、カーネーション、野菜類等の高照度で育成する植物には、ビオルックス-A・40W5～6灯を植物の先端から30～40cmで点灯するのが適当です。

<花卉類の日長処理>

電照菊など、花卉類の日長処理をして開花時間を早めたり、遅らせたりすることを目的とするときは、育苗時の1～2割程度の照度で十分な効果が得られます。

●以上の目安はあくまで参考であり、植物の種類や目的により異なります。ご使用に当たっては、実際の環境などにあわせてお客様ご自身で確認してくださいませうお願いいたします。

●ビオルックスHG (BR-HG) ●

熱帯魚などをお部屋のインテリアとして楽しまれている方が増えてい
ます。

従来のビオルックスが持つ植物の育成効果の特長を生かし、より鑑賞に適
した明るさを得られる熱帯魚鑑賞・植物育成用蛍光ランプが、ビオルク
スHGです。

明るさと色の見え方を両立した優れた蛍光ランプ「ライフルックHG」の
設計技術を惜しみなく投入した、NECの自信作です。

熱帯魚などの水槽や水草の育成に、また、観葉植物の照明にも適してい
ます。

大きさ	電力(W)	品名	商品コード
◇直管スタータ形			
6形	6	FL6BR-HG	611-1258
8形	8	FL8BR-HG	611-1349
10形	10	FL10BR-HG	611-1516
15形	15	FL15BR-HG	611-2560
20形	20	FL20SBR-HG	611-2757
	18	FL20SBR/18-HG	611-2758
30形	30	FL30SBR-HG	611-1962
40形	40	FL40SBR-HG	611-2430

●ビオルックス (BR) ●

ビオルックスは、植物の光合成に必要な光の吸収特性に合わせて設計され
た蛍光ランプです。青色光(400~500nm)および赤色光(700~
800nm)の放射に、特別の考慮が払われています。

花や観葉植物の照明用光源として、また、熱帯魚などの鑑賞用光源にもお
使いいただけます。

大きさ	電力(W)	品名	商品コード
◇直管スタータ形			
10形	10	FL10BR	611-1433
15形	15	FL15BR	611-1634
20形	20	FL20SBR	611-1723
	18	FL20SBR/18	611-2625
30形	30	FL30SBR	611-1930
40形	40	FL40SBR	611-2228

●ビオルックスーA (BR-A) ●

ビオルックスーAは、エマーソン効果に基づいて、ビオルックスを改良した植物育成用蛍光ランプです。青色光、赤色光に加えて近赤外線（700～800nm）を放射するように設計されています。

果菜類の育苗、稲やタバコの多段育苗、苺苗の低温処理の際の補光照明、花卉植物の栽培などに適しています。

大きさ	電力(W)	品名	商品コード
◇直管スタータ形			
20形	20	FL20SBR-A	611-1795
40形	40	FL40SBR-A	611-2268