



# Wir sind heller®

# LED Licht für Profis

## LED Röhren T8



## Lichtstarkes LED Röhrensystem

### In der Fassung drehbar!

Zertifizierte LED Röhren für den Einsatz in Bürogebäuden, Industriehallen, Schulen, Parkhäusern usw.

Verschiedene Größen (60cm, 90cm, 120cm, 150 cm und 180cm) und Lichtfarben (Warmweiß, Neutralweiß und Tageslichtweiß) machen dieses System zu einem idealen Ersatz für herkömmliche Leuchtstoffröhren. Da LED Röhren - im Gegensatz zur herkömmlichen Technologie - einseitig abstrahlen, wurden hier die Anschlüsse drehbar gestaltet. Dadurch lässt sich die Röhre in der Fassung drehen und so gezielt ausrichten.

#### Lichtdaten

Farbwiedergabe [Ra]: CRI > 80  
Lichtfarbe [Kelvin]: 3250K, 4250K, 6000K  
Abstrahlwinkel [°]: 120°

Betriebstemperatur: -20°C bis 50°C  
(VDE -20°C bis 30°C)  
Lagertemperatur: -20°C bis 75°C

Abdeckung: Polycarbonat  
Abdeckungsfarbe: opal, klar (siehe Variationen)

Normen und Standards  
Sockel/Fassung: G13  
Schutzart: IP20  
Zertifikate Leuchte: CE (TÜV), VDE, RohS  
Maße (Ø) [mm]: Ø 26 mm

#### Elektrische Daten

Betriebsspannung [Volt]: 220-240 V AC / 50 Hz  
Dimmbar: Nein  
Energieeffizienzklasse: A  
Lebensdauer: ca. 50.000h  
Schaltzyklen: > 25.000  
Aufwärmzeit (60%) [s]: < 0,50 s  
Dimmbar: Nein  
Leistungsfaktor: > 0,95

#### LED Daten:

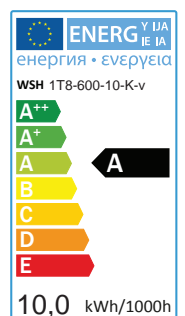
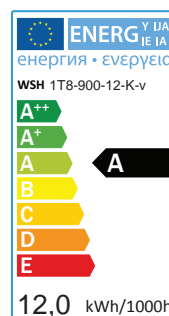
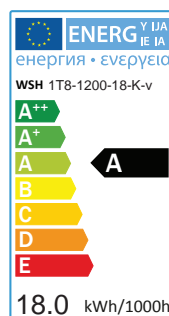
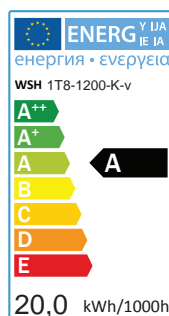
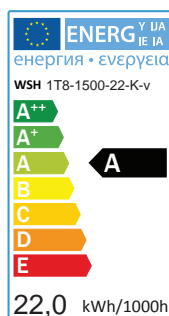
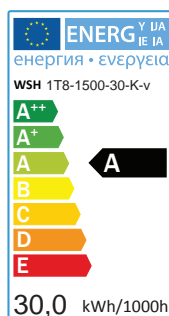
LED: SMD 2835 Epistar

#### Gerätespezifikationen

Ausrichtung: drehbar  
Material: Aluminium  
Gehäuse: Aluminium  
Gehäusefarbe: Silber, Aluminium  
Kühlkörper: Aluminium  
Kühlkörperfarbe: Silber, Aluminium

Lieferumfang  
Leuchtmittel: 1  
LED-Starter: 1  
Garantie: 5 Jahre

	1500 mm		1200 mm		900 mm	600 mm (550mm)
Wattage	30W	22W	20W	18W	12W	10W
Anzahl LED	216	180	168	144	84	72
Lumen klar	3000lm	2350lm	2050lm	2000lm	1250lm	1050lm
Lumen opal	2750lm	2100lm	1950lm	1800lm	1100lm	950lm



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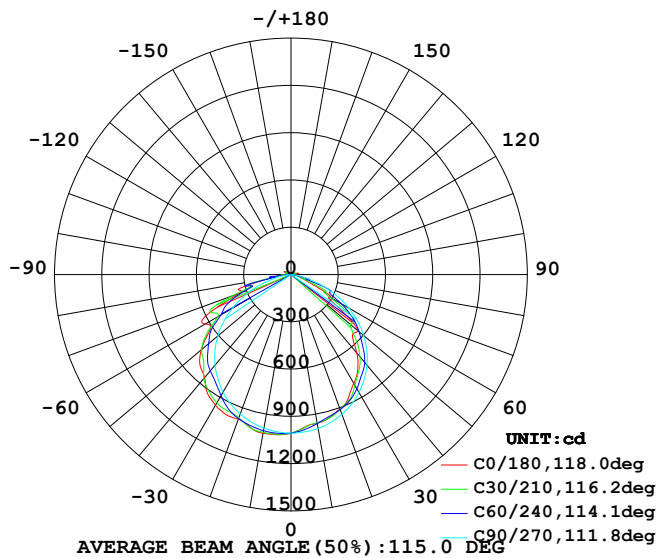


LED Röhren T8 1500mm 30 W Messprotokoll

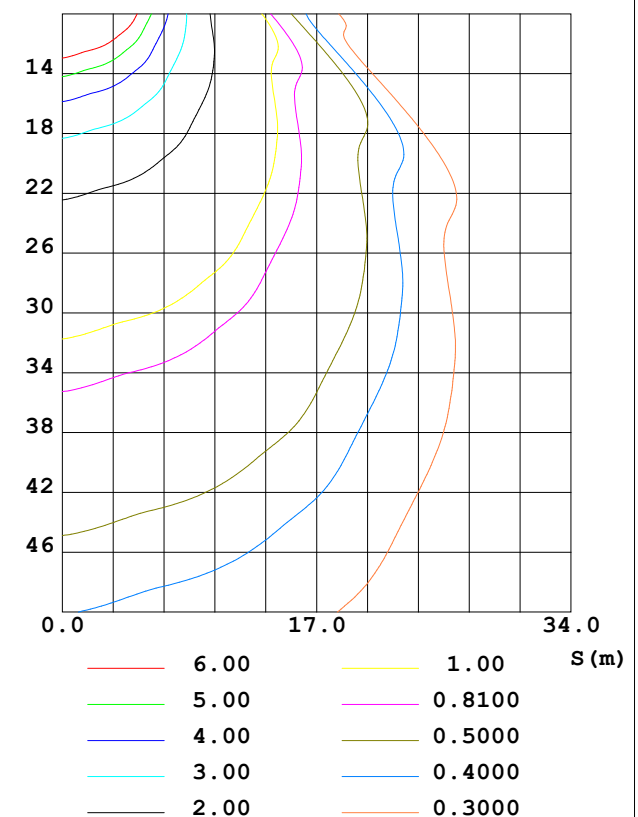
Test:U:220.1V I:0.1400A P:30.10W PF:0.9720 Lamp Flux:2972.66x1 lm		
NAME: T8	TYPE:U	WEIGHT:
DIM.:	SPEC.:1.5M	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	1500mm 5510K	Imax (cd)	1023	S/MH (C0/180)	1.19
NOMINAL POWER (W)	30	LOR (%)	100.0	S/MH (C90/270)	1.27
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	2972.7	η UP, DN (C0-180)	1.4, 46.6
NOMINAL FLUX (lm)	2972.66	CIE CLASS	DIRECT	η UP, DN (C180-360)	1.5, 50.5
LAMPS INSIDE	1	η up (%)	2.9	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	220.1	η down (%)	97.1	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



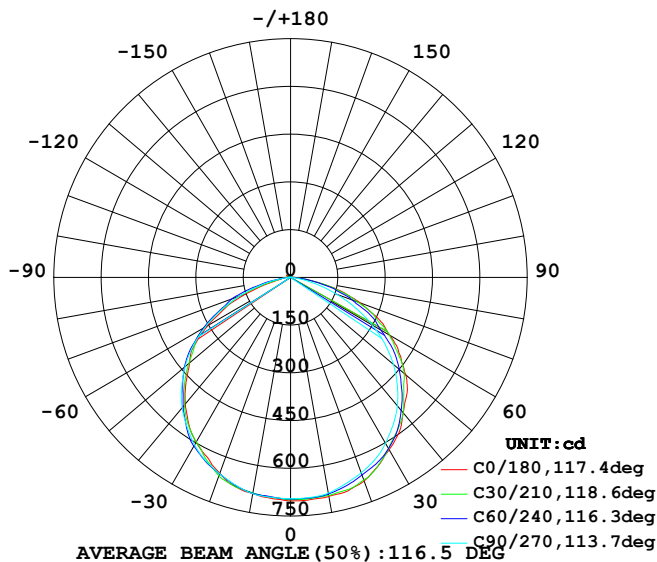


LED Röhren T8 1200mm 20 W Messprotokoll

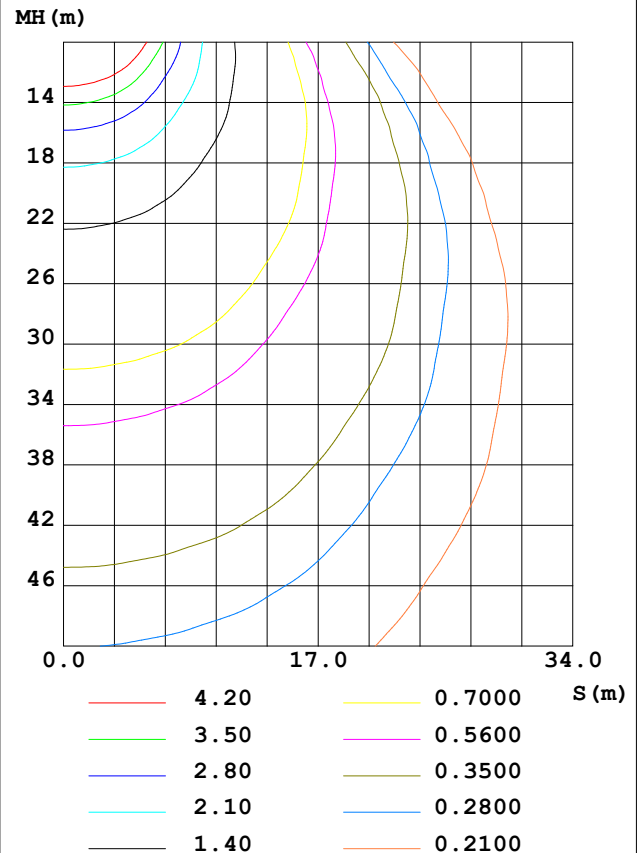
Test:U:219.9V I:0.0950A P:20.20W PF:0.9620 Lamp Flux:2084.89x1 lm		
NAME: T8	TYPE:D	WEIGHT:
DIM.:	SPEC.:1.2M	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 103.21 lm/W			
MODEL	1200mm	I <sub>max</sub> (cd)	702.6	S/MH (C0/180)	1.33
NOMINAL POWER (W)	20	LOR (%)	100.0	S/MH (C90/270)	1.28
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	2084.9	η UP, DN (C0-180)	0.8, 49.4
NOMINAL FLUX (lm)	2084.89	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.8, 49.0
LAMPS INSIDE	1	η up (%)	1.6	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	219.9	η down (%)	98.4	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT: lx)



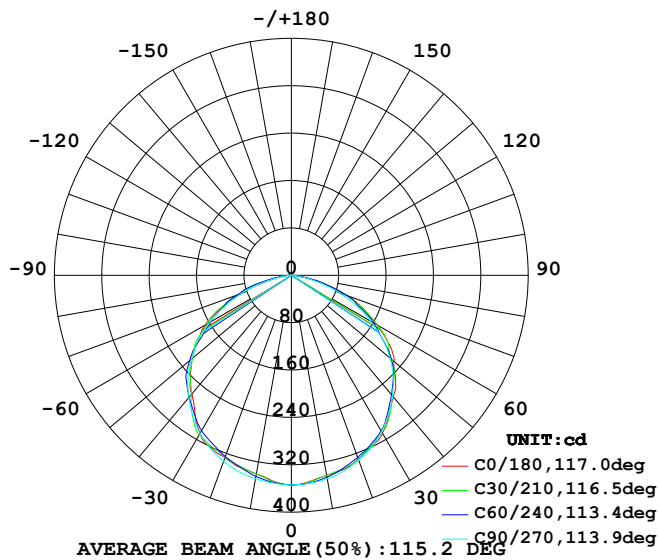


LED Röhren T8 900mm 12 W Messprotokoll

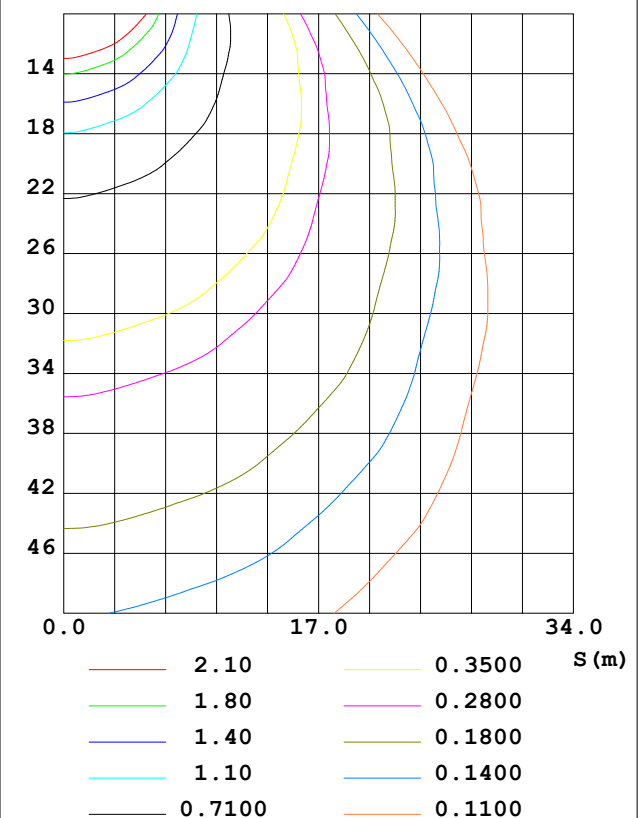
NAME: T8	TYPE:D	WEIGHT:
DIM.:	SPEC.:0.9M	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	900mm	Imax (cd)	353.9	S/MH (C0/180)	1.29
NOMINAL POWER (W)	11	LOR (%)	49.1	S/MH (C90/270)	1.28
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	1034.6	η UP, DN (C0-180)	0.4, 24.0
NOMINAL FLUX (lm)	11.7153	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.4, 24.3
LAMPS INSIDE	84	η up (%)	0.7	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	220.1	η down (%)	48.3	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



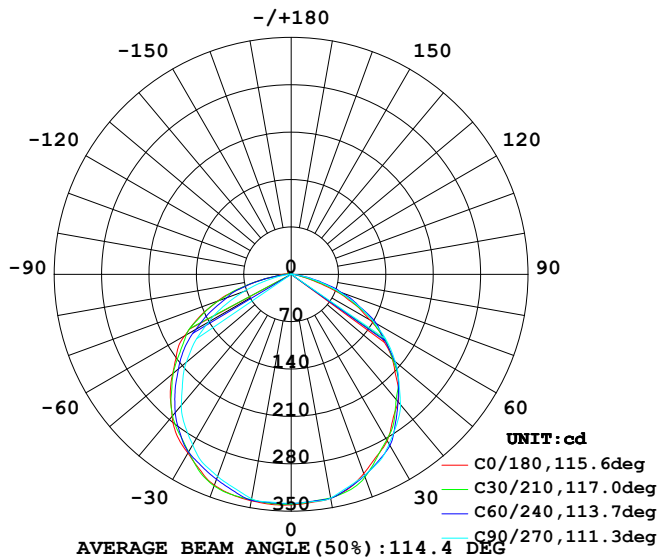


LED Röhren T8 600mm 10 W Messprotokoll

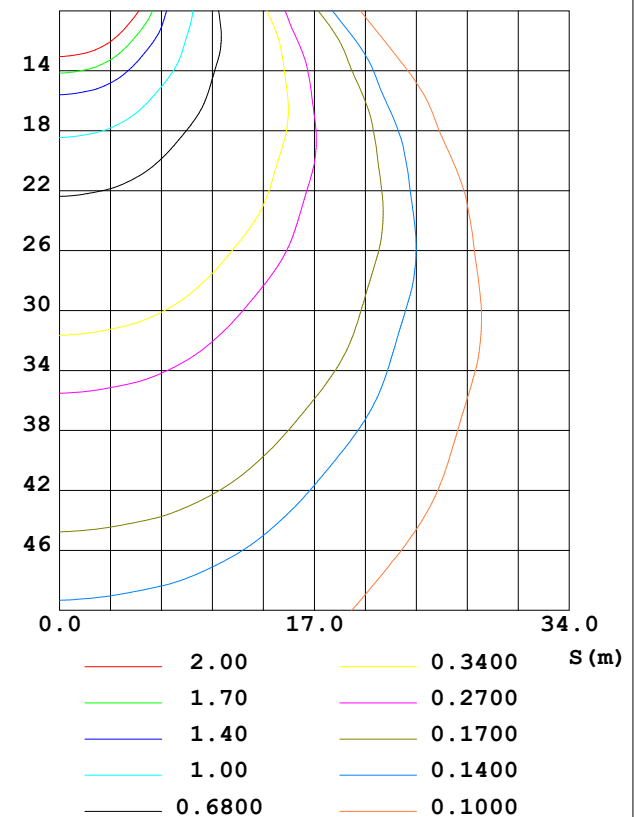
Test:U:220.1V I:0.1050A P:10.50W PF:0.9390 Lamp Flux:11.4664x156 lm		
NAME: T8	TYPE:D	WEIGHT:
DIM.:	SPEC.:0.6M	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	600mm CT5448K	Imax (cd)	341.2	S/MH (C0/180)	1.24
NOMINAL POWER (W)	10	LOR (%)	55.4	S/MH (C90/270)	1.27
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	990.39	η UP, DN (C0-180)	0.4, 26.7
NOMINAL FLUX (lm)	11.4664	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.5, 27.7
LAMPS INSIDE	72	η up (%)	0.9	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	220.1	η down (%)	54.5	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



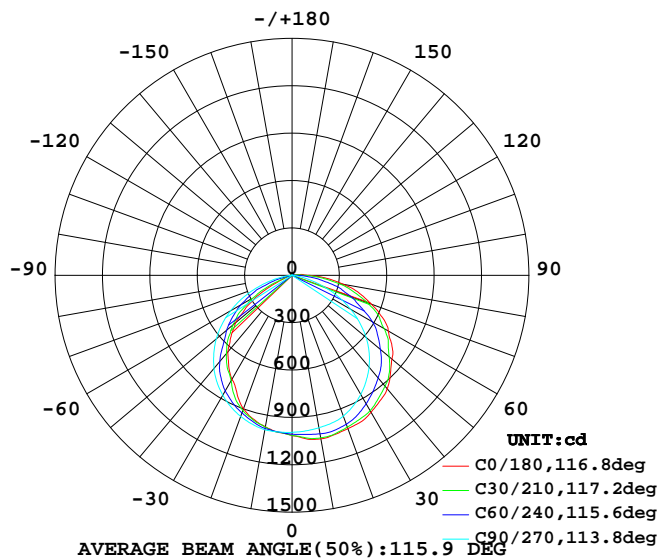


LED Röhren T8 1800mm 32 W Messprotokoll

NAME: T8	TYPE:D	WEIGHT:
DIM.:	SPEC.:1.8M	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA			
CT5969K		Imax(cd)	1052	S/MH(C0/180)	1.46
NOMINAL POWER(W)	32	LOR(%)	188.6	S/MH(C90/270)	1.30
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	3086.8	η UP, DN(C0-180)	1.9, 96.9
NOMINAL FLUX(lm)	3.49657	CIE CLASS	DIRECT	η UP, DN(C180-360)	1.7, 88.2
LAMPS INSIDE	468	η up(%)	3.6	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	220.2	η down(%)	185.0	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)

