

Işık Kaynakları

Light Sources

Işık Kaynaklarının Karşılaştırılması

Comparison of Light Sources

	ENKANDESAN LAMBALAR INCANDESCENT BULBS	HALOJEN LAMBALAR HALOGEN LAMPS	KOMPAKT FLORESAN LAMBALAR COMPACT FLUORESCENT LAMPS	FLORESAN LAMBALAR FLUORESCENT LAMP	LED
Etkinlik Faktörü (lm/W) Efficacy (lm/W)	6-16	16-25	46-80	70-104	80-160
Renksel Geri Verim CRI (Ra)	100	100	75-90	70-95	65-99
Ömür (Saat) Lifetime (hours)	1000	1000-4000	6000-15000	10000-40000	50000
Renk Sıcaklığı (K) CCT (K)	2700	2700-3500	2700-7000	2700-12000	2700-8000
Elektronik Balast Electronic Ballast	Gerekli değil No	Genel Olarak Yok In General No	Gerekli veya Dahili Needed or Build-in	Gerekli Needed	Gerekli Needed
Kullanım Alanları Application	İç mekan-Dı mekan Indoor-Outdoor	İç mekan-Dı mekan Indoor-Outdoor	İç mekan Indoor	İç mekan Indoor	İç mekan-Dı mekan Indoor-Outdoor
Dim Edilme Dimmable	Var Yes	Var Yes	Var Yes	Var Yes	Var Yes
Stroboskopik Etki Stroboscopic Effects	Yok No	Yok No	Var * Yes *	Var * Yes *	Var Yes

* Elektronik balastlı kullanımda bu etki görünmez
* This effect is eliminated if an electronic ballast is used


	Y.B BUHARLI LAMBALAR MERCURY VAPOUR LAMPS	H.P METAL HALIDE LAMBALAR METAL HALIDE LAMPS	A.B SODYUM BUHARLI LAMBALAR L.P SODIUM VAPOUR LAMPS	Y.B SODYUM BUHARLI LAMBALAR H.P SODIUM VAPOUR LAMPS	LED
Etkinlik Faktörü (lm/W) Efficacy (lm/W)	40-60	72-110	100-192	88-130	80-160
Renksel Geri Verim CRI (Ra)	40-60	70-95	0-15	25-70	65-99
Ömür (saat) Lifetime (hours)	15000-24000	6000-20000	16000-20000	160000-32000	500000
Renk Sıcaklığı (K) CCT (K)	3200-4200	3000-7000	-	2000-3000	2700-8000
Elektronik Balast Electronic Ballast	Gerekli Needed	Gerekli Needed	Gerekli Needed	Gerekli Needed	Gerekli Needed
Kullanım Alanları Application	İç mekan-Dı mekan Indoor-Outdoor	İç mekan-Dı mekan Indoor-Outdoor	Dı mekan Outdoor	İç mekan-Dı mekan Indoor-Outdoor	İç mekan-Dı mekan Indoor-Outdoor
Dim Edilme Dimmable	Yok No	Var Yes	Yok No	Var Yes	Var Yes
Stroboskopik Etki Stroboscopic Effects	Var Yes	Yok No	Var Yes	Yok No	Yok No

Işık Kaynakları

Light Sources


Y.B Sodyum Buharlı SON-H Lambalar (Ateşleyicisiz Çalışırlar)

High pressure SON-H Sodium Vapour Lamps(Working Without Ignitor)

Lamba Tipi Type of Lamp	Şekil Shape	Watt (W)	Duy Lamp Holder	Işık Akısı Luminous Flux
SON-H 110		110	E27	8000 lm
SON-H 210		210	E40	18000 lm
SON-H 350		350	E40	34000 lm


Y.B Sodyum Buharlı Lambalar

High Pressure Sodium Vapour Lamps

Lamba Tipi Type of Lamp	Şekil Shape	Watt (W)	Duy Lamp Holder	Işık Akısı Luminous Flux
SON 35		35	E27	2300 lm
SON 50		50	E27	3500 lm
SON 70		70	E27	5500 lm
SON 100		100	E40	9500 lm
SON 150		150	E40	15500 lm
SON 250		250	E40	30000 lm
SON 400		400	E40	54000 lm
SON 1000		1000	E40	128000 lm


Y.B Sodyum Buharlı Lambalar

High Pressure Sodium Vapour Lamps

Lamba Tipi Type of Lamp	Şekil Shape	Watt (W)	Duy Lamp Holder	Işık Akısı Luminous Flux
SON-T 50		50	E27	4000 lm
SON-T 70		70	E27	6500 lm
SON-T 100		100	E40	10000 lm
SON-T 150		150	E40	14500 lm
SON-T 250		250	E40	27000 lm
SON-T 450		400	E40	48000 lm
SON-T 600		600	E40	90000 lm
SON-T 1000		1000	E40	130000 lm


A.B Sodyum Buharlı Lambalar

Low Pressure Sodium Vapour Lamps

Lamba Tipi Type of Lamp	Şekil Shape	Watt (W)	Duy Lamp Holder	Işık Akısı Luminous Flux
SOX 18		18	BY22d	1800 lm
SOX 35		35	BY22d	4600 lm
SOX 55		55	BY22d	8100 lm
SOX 90		90	BY22d	13500 lm
SOX 135		135	BY22d	22500 lm
SOX 180		180	BY22d	32000 lm


Y.B Metal Halide Lambalar

High Pressure Metal Halide Lamps

Lamba Tipi Type of Lamp	Şekil Shape	Watt (W)	Duy Lamp Holder	Işık Akısı Luminous Flux
HPI-BU 70		70	E27	4000 lm
HPI-BU 100		100	E27	7000 lm
HPI-BU 150		150	E27	10500 lm
HPI-BU 250		250	E40	19000 lm
HPI-BU 400		400	E40	32000 lm
HPI-BU 1000		1000	E40	90000 lm



Y.B Metal Halide Lambalar

High Pressure Metal Halide Lamps

Lamba Tipi Type of Lamp	Şekil Shape	Watt (W)	Duy Lamp Holder	Işık Akısı Luminous Flux
HPI-T 250		250	E40	20000 lm
HPI-T 400		400	E40	32000 lm
HPI-T 1000		1000	E40	80000 lm
HPI-T 2000		2000	E40	180000 lm
HPI-T 3500		3500	E40	320000 lm

Metal Halide Lambalar

Metal Halide Lamps








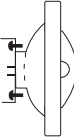
Lamba Tipi Type of Lamp	Şekil Shape	Watt (W)	Duy Lamp Holder	Işık Akısı Luminous Flux
CDM-T 70		70	G12	5500 lm NDL 5200 lm WDL
CDM-T 150		150	G12	12500 lm NDL 12000 lm WDL
CDM-TD 70		70	RX7s	5000 lm D 5500 lm NDL
MHN-TD 150		150	RX7s	5000 lm WDL 11000 lm D 11250 lm NDL
MHN-TD 250		250	FC2	11000 lm WDL 20000 lm D 20000 lm NDL

Işık Kaynakları

Light Sources




Halojen Lambalar

Halogen Lamps

Lamba Tipi Type of Lamp	Şekil Shape	Watt (W)	Duy Lamp Holder	Işık Akısı Luminous Flux	
Halojen Reflektör					
Halojen Çanak 12 V		20	GU5,3	3400 cd 10°	
Halojen Çanak 12 V		20	GU5,3	550 cd 38°	
Halojen Çanak 12 V		35	GU5,3	6000 cd 10°	
Halojen Çanak 12 V		35	GU5,3	1000 cd 38°	
Halojen Çanak 12 V		50	GU5,3	8800 cd 10°	
Halojen Çanak 12 V		50	GU5,3	1600 cd 38°	
Halojen Pin End					
Halojen İğne Ayak 12 V		10	G4	130 lm	
Halojen İğne Ayak 12 V		20	G4	320 lm	
Halojen İğne Ayak 12 V		35	GY6,35	600 lm	
Halojen İğne Ayak 12 V		50	GY6,35	930 lm	
Halojen Bar					
Halojen Çubuk 220 V		100	R7s	1650 lm	
Halojen Çubuk 220 V		150	R7s	2200 lm	
Halojen Çubuk 220 V		200	R7s	3000 lm	
Halojen Çubuk 220 V		300	R7s	5000 lm	
Halojen Çubuk 220 V		500	R7s	9500 lm	
Halojen Çubuk 220 V		1000	R7s	24200 lm	
Halojen Çubuk 220 V		1500	R7s	33000 lm	
Halojen Çubuk 220 V		2000	R7s	44000 lm	
Halojen Par					
Halojen 16 220 V			50	GU10	800 cd 40°
Halojen 16 220 V	50		E27	750 cd 40°	
Halojen 20 220 V		50	E27	3000 cd 10° 1000 cd 38°	
Halojen 30 220 V		75	E27	6900 cd 10° 2200 cd 30°	
Spotpar					
Spotpar 38 220 V		60	E27	3400 cd 12° 1200 cd 30°	
Spotpar 38 220 V		80	E27	5400 cd 12° 1800 cd 30°	
Spotpar 38 220 V		120	E27	9300 cd 12° 3100 cd 30°	
Halospot					
Halospot 111 12 V		35	G53	45000 cd 4°	
Halospot 111 12 V		35	G53	9000 cd 8°	
Halospot 111 12 V		35	G53	2500 cd 12°	
Halospot 111 12 V		50	G53	50000 cd 4°	
Halospot 111 12 V		50	G53	20000 cd 8°	
Halospot 111 12 V		50	G53	3500 cd 12°	
Halospot 111 12 V		75	G53	30000 cd 8°	
Halospot 111 12 V		75	G53	5300 cd 24°	
Halospot 111 12 V		75	G53	1700 cd 45°	
Halospot 111 12 V		100	G53	48000 cd 8°	
Halospot 111 12 V		100	G53	8500 cd 24°	
Halospot 111 12 V		100	G53	2800 cd 45°	


Enkandesan Lambalar

Incandescent Lamps

Lamba Tipi Type of Lamp	Şekil Shape	Watt (W)	Duy Lamp Holder	Işık Akısı Luminous Flux
A Standart 60		60	E27	730 lm
A Standart 100		100	E27	1380 lm
B Buji 25		25	E14	200 lm
B Buji 40		40	E14	400 lm
R50 Reflektörü		40	E14	430 cd
R63 Reflektörü		60	E27	960 cd
R80 Reflektörü		60	E27	260 cd
R80 Reflektörü		100	E27	500 cd




Enerji Tasarruflu Lambalar

Energy-Saving Lamps

Lamba Tipi Type of Lamp	Şekil Shape	Watt (W)	Duy Lamp Holder	Işık Akısı Luminous Flux
PL-E 9		9	E14	400 lm
PL-E 9		9	E27	400 lm
PL-E 11		11	E14	630 lm
PL-E 11		11	E27	600 lm
PL-E 20		20	E27	1200 lm
PL-E 24		24	E27	1800 lm




Floresan Lambalar

Fluorescent Lamps

Lamba Tipi Type of Lamp	Şekil Shape	Watt (W)	Duy Lamp Holder	Işık Akısı Luminous Flux
TL 6		6	G5	220 lm
TL 8		8	G5	300 lm
TL13		13	G5	1030 lm
TL-D 15		15	G13	650 lm
TL-D 18		18	G13	1300 lm
TL-D 30		30	G13	3250 lm
TL-D 36		36	G13	3250 lm
TL-D 58		58	G13	5000 lm
TL5 14		14	G5	1220 lm
TL5 28		28	G5	2580 lm
TL-C 22		22	G10q	1000 lm
TL-C 32		32	G10q	1750 lm
TL-C 40		40	G10q	2500 lm


Kompakt Lambalar

Compact Lamps

Lamba Tipi Type of Lamp	Şekil Shape	Watt (W)	Duy Lamp Holder	Işık Akısı Luminous Flux
PL 9		9	G23	600 lm
PL 11		11	G23	900 lm
PL-C 10		10	G24	600 lm
PL-C 13		13	G24	900 lm
PL-C 18		18	G24	1200 lm
PL-C 26		26	G24	1800 lm
PL-L 18		18	2G11	1200 lm
PL-L 24		24	2G11	1800 lm
PL-L 36		36	2G11	2900 lm
PL-L 40		40	2G11	3500 lm
PL-L 55		55	2G11	4800 lm


Y.B Civa Buharlı Lambalar

High Pressure Mercury Vapor Lamps

Lamba Tipi Type of Lamp	Şekil Shape	Watt (W)	Duy Lamp Holder	Işık Akısı Luminous Flux
HPL 50		50	E27	1800 lm
HPL 80		80	E27	3800 lm
HPL 125		125	E27	6300 lm
HPL 250		250	E40	13000 lm
HPL 400		400	E40	22000 lm
HPL 700		700	E40	38500 lm
HPL 1000		1000	E40	58500 lm

Balastsız Çalışan Civa Buharlı Lambalar

Ballastless Mercury Vapor Lamps

Lamba Tipi Type of Lamp	Şekil Shape	Watt (W)	Duy Lamp Holder	Işık Akısı Luminous Flux
ML 160		160	E27	3100 lm
ML 250		250	E40	5600 lm
ML 500		500	E40	14000 lm