



Energy efficiency and long life

Ceramalux® ALTO®

Replace yellow light with crisp, bright white light with just a simple twist! Ideal for industrial applications, warehouses, post top applications and parking lots

Benefits

- Low mercury - better for the environment.
- Long Life - 24,000 hours Rated Average Life.
- High efficacy up to 140 LPW.

Features

- Low total cost of ownership.
- Long life—up to 24,000 hours.
- High efficacy up to 140 LPW.
- ALTO® Lamp Technology - Sustainable solution.
- ED 18 Available in 200, 250 and 400 watt; ED-23 1/2 Available in 50, 70,100, and 150 watt

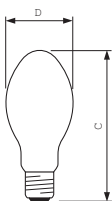
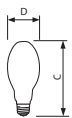
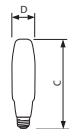
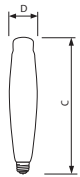
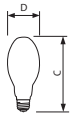
Application

- Ideal for street and roadway lighting, parking lots and garages, warehouses and manufacturing facilities where lower maintenance costs are desired.

Related products



Dimensional drawing



Product	C (Max)	D (Max)
SON 70W LV E E39 CL	188	76
SON 100W LV E E39 CL	188	76
SON 150W LV E E39 CL	188	76
SON 250W E E39 CL	248	57.9
SON 400W E E39 CL	248	57.9

Compare table

Product number	Full product name	Bulb	Bulb Finish	Base	Operating Position	Watts	Initial Lumens	Lamp Voltage	Chromaticity Coordinate X	Chromaticity Coordinate Y	Color Rendering Index
411496	C70S62/ALTO UTILITY	-	Clear	Mogul	-	70	6500	52	0.522	0.425	13
411504	C100S54/ALTO UTILITY	-	Clear	Mogul	-	100	9400	55	520	420	18
411512	C150S55/ALTO UTILITY	-	Clear	Mogul	-	150	15800	55	514	424	17
411520	C250S50/ALTO UTILITY	-	Clear	Mogul	-	250	27000	95	523	412	26
411538	C400S51/ALTO UTILITY	-	Clear	Mogul	-	400	50000	95	515	420	20
331546	Ceramalux 50W Mog ED23 1/2 CO ALTO	ED23 1/2	Coated	Mogul	Universal	50	3800	52	530	416	21
332254	Ceramalux 70W Mog ED23 1/2 CO ALTO	ED23 1/2	Coated	Mogul	Universal	70	6000	52	524	425	21
332270	Ceramalux 100W Mog ED23 1/2 CO ALTO	ED23 1/2	Coated	Mogul	Universal	100	9300	55	523	417	21
332288	Ceramalux 150W Mog ED23 1/2 CL ALTO	ED23 1/2	Clear	Mogul	Universal	150	15000	55	514	423	21
368837	Ceramalux S52XB-1000 1000W ALTO® 1SL	E25	Clear	Mogul	Universal	1000	140000	235	515	420	21
368811	Ceramalux 400W Mog ED18 CL ALTO	ED18	Clear	Mogul	Universal	400	50000	95	515	420	21
368795	Ceramalux 250W Mog ED18 CL ALTO	ED18	Clear	Mogul	Universal	250	28500	95	523	412	21
368779	Ceramalux 200W Mog ED18 CL ALTO	ED18	Clear	Mogul	Universal	200	23000	95	521	420	21
368761	Ceramalux 150W Mog ED28 CL ALTO	ED28	Clear	Mogul	Universal	150	15500	95	526	419	21
368746	Ceramalux 150W Mog ED23 1/2 CL ALTO	ED23 1/2	Clear	Mogul	Universal	150	16000	55	514	424	21
368720	Ceramalux 100W Mog ED23 1/2 CL ALTO	ED23 1/2	Clear	Mogul	Universal	100	10000	55	520	420	21
368696	Ceramalux 70W Mog ED23 1/2 CL ALTO	ED23 1/2	Clear	Mogul	Universal	70	6800	52	522	425	21
368670	Ceramalux 50W Mog ED23 1/2 CL ALTO	ED23 1/2	Clear	Mogul	Universal	50	4300	52	529	420	21

Compare table

Product number	Full product name	Cap-Base Temperature	Bulb Temperature	Color Temperature	Mercury (Hg) Content	Rated Avg. Life
411496	C70S62/ALTO UTILITY	210	400	2100	-	24000
411504	C100S54/ALTO UTILITY	210	400	2100	-	24000
411512	C150S55/ALTO UTILITY	210	400	2100	-	24000
411520	C250S50/ALTO UTILITY	210	400	2100	29.4	24000
411538	C400S51/ALTO UTILITY	210	400	2100	-	24000
331546	Ceramalux 50W Mog ED23 1/2 CO ALTO	210	400	2100	17.7	24000
332254	Ceramalux 70W Mog ED23 1/2 CO ALTO	210	400	2100	17	24000
332270	Ceramalux 100W Mog ED23 1/2 CO ALTO	210	400	2100	22.1	24000
332288	Ceramalux 150W Mog ED23 1/2 CL ALTO	210	400	2100	17	24000
368837	Ceramalux S52XB-1000 1000W	210	400	2100	44	24000

Product number	Full product name	Cap-Base Temperature	Bulb Temperature	Color Temperature	Mercury Content (Hg)	Rated Avg. Life
	ALTO® 1SL					
368811	Ceramalux 400W Mog ED18 CL ALTO	210	400	2100	31	24000
368795	Ceramalux 250W Mog ED18 CL ALTO	210	400	2100	31.9	24000
368779	Ceramalux 200W Mog ED18 CL ALTO	210	400	2100	31	24000
368761	Ceramalux 150W Mog ED28 CL ALTO	210	400	2100	22.1	24000
368746	Ceramalux 150W Mog ED23 1/2 CL ALTO	210	400	2100	17	24000
368720	Ceramalux 100W Mog ED23 1/2 CL ALTO	210	400	2100	22.1	24000
368696	Ceramalux 70W Mog ED23 1/2 CL ALTO	210	400	2100	17	24000
368670	Ceramalux 50W Mog ED23 1/2 CL ALTO	210	400	2100	17.7	24000



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www.philips.com/lighting

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data subject to change