



Energy efficiency and long life

Ceramalux ALTO

These lamps pass the EPA's TCLP test for non-hazardous materials. 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.

PHILIPS

Related products



E39, ED-23 1/2, Coated



E39, ED-18, Clear



E39, ED-28, Clear



E39, ED-23 1/2, Clear

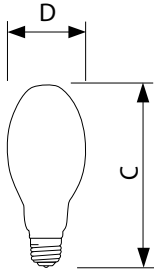
Dimensional drawing

HPS 100W E39 ED23 1/2 U ALTO

Product

SON 100W E39 ED75 CL SLV/12

C100S54 3PK



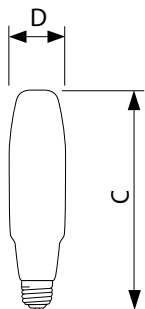
E39, ED-23 1/2

HPS 400W E39 ED18 U ALTO

Product

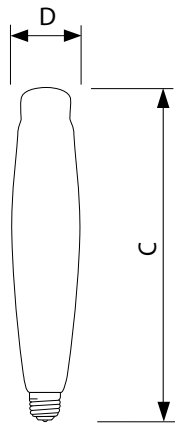
C400S51 3PK

SON 400W E39 ED58 CL SLV/12



E39, ED-18

Dimensional drawing

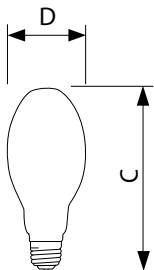


E39, E-25

HPS 1000W E39 E25 U ALTO

Product

C1000S52/ALTO



E39, ED-28

HPS 150W E39 ED28 U ALTO

Product

C150S56/ALTO 12PK

General Information

order code	Bulb Shape	Cap-Base	Main Application	Operating Position
332254	ED23 1/2	E39	General and Street Lighting	Universal
332270	ED23 1/2	E39	General and Street Lighting	Universal
368837	E25	E39	General and Street Lighting	Universal
368811	ED18	E39	General and Street Lighting	Universal
368795	ED18	E39	General and Street Lighting	Universal
368779	ED18	E39	General and Street Lighting	Universal
368761	ED28	E39	General and Street Lighting	Universal

order code	Bulb Shape	Cap-Base	Main Application	Operating Position
368746	ED23 1/2	E39	General and Street Lighting	Universal
140961	ED23 1/2	E39	General and Street Lighting	Universal
368720	ED23 1/2	E39	General and Street Lighting	Universal
368696	ED23 1/2	E39	General and Street Lighting	Universal
140947	ED23 1/2	E39	General and Street Lighting	Universal
368670	ED23 1/2	E39	General and Street Lighting	Universal

Light Technical

order code	Chroma- ticity Coor- dinate X (Nom)	Chroma- ticity Coor- dinate Y (Nom)	Correlated Color Tempera- ture (Nom)	Color Rendering Index (Nom)	Luminous Efficacy (rated) (Min)	Luminous Efficacy (rated) (Nom)	Design Mean Lumens	Luminous Flux (Rated) (Min)	Luminous Flux (Rated) (Nom)	Photosyn- thetic Photon Flux (PPF)
332254	524	425	2100	21	75.7	85.7	5670	5300	6000	-
332270	523	417	2100	21	83	93	7750	8300	9300	-
368837	515	420	2100	21	121.5	135	126000	121500	135000	1550
368811	515	420	2100	21	112.5	125	45000	45000	50000	595
368795	523	412	2100	21	102	114	24300	25600	28500	-
368779	521	420	2100	21	104	115	19260	20700	23000	-
368761	526	419	2100	21	96	103	13950	14400	15500	-
368746	514	424	2100	21	96	107	14220	14400	16000	-
140961	514	424	2100	21	96	107	14220	14400	16000	-
368720	520	420	2100	21	90	100	8460	9000	10000	-
368696	522	425	2100	21	87.4	97	5670	6100	6800	-
140947	522	425	2100	21	87.4	97	5670	6100	6800	-
368670	529	420	2100	21	77.4	86	3600	3870	4300	-

Operating and Electrical

order code	Lamp Current (Nom)	Voltage (Max)	Voltage (Min)	Voltage (Nom)	Re-Igni- tion Time (Min) (Max)
332254	1.6	60	44	52	2
332270	2.1	62	45	55	2
368837	4.7	275	210	250	3
368811	4.6	115	84	100	1
368795	3.0	110	79	95	2
368779	2.4	115	90	100	1
368761	1.8	115	85	100	1
368746	3.2	62	48	55	2
140961	3.2	62	48	55	2
368720	2.1	62	45	55	2
368696	1.6	60	44	52	2
140947	1.6	60	44	52	2
368670	1.18	62	46	52	2

order code	Bulb Finish	Bulb Material
368696	CL	Hard Glass
140947	CL	Hard Glass
368670	CL	Hard Glass

Approval and Application

order code	Mercury (Hg) Content (Max)	Picogram Per Lumen Hour
332254	17	-
332270	22.1	-
368837	18	11.3
368811	23.5	26.4
368795	23.5	-
368779	31	-
368761	22.1	-
368746	17	-
140961	17	-
368720	22.1	-
368696	17	-
140947	17	-
368670	17.7	-

Mechanical and Housing

order code	Bulb Finish	Bulb Material
332254	CO	Hard Glass
332270	CO	Hard Glass
368837	CL	Hard Glass
368811	CL	Hard Glass
368795	CL	Hard Glass
368779	CL	Hard Glass
368761	CL	Hard Glass
368746	CL	Hard Glass
140961	CL	Hard Glass
368720	CL	Hard Glass

Luminaire Design Requirements

order code	Bulb Temperature (Max)
332254	400
332270	400
368837	400
368811	400

order code	Bulb Temperature (Max)
368795	400
368779	400
368761	400
368746	400
140961	400

order code	Bulb Temperature (Max)
368720	400
368696	400
140947	400
368670	400



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data subject to change