



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

Features

Application

Versions



E39, ED-23 1/2, Coated



E39, E-25, Clear



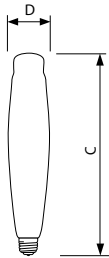
E39, ED-18, Clear



E39, ED-23 1/2, Clear

Ceramalux ALTO

Dimensional drawing



Product		
C70S62 3PK		
C50S68/ALTO 12PK		
SON 100W E39 ED75 CL SL/12	75 mm	192 mm
SON 70W E39 ED75 CL SL/12		
SON 150W E39 ED75 CL SL/12		
C100S54/D ALTO PH 12PK		
C150S55 3PK		

Product		
SON 400W E39 ED58 CL SL/12		
C200S66/ALTO 12PK		
SON 250W E39 ED58 CL SL/12	57.2 mm	243 mm

Product		
C1000S52/ALTO		

General Information	
Cap-Base	E39
Main Application	General and Street Lighting
Operating Position	Universal
Luminaire Design Requirements	
Bulb Temperature (Max)	400 °C
Light Technical	
Correlated Color Temperature (Nom)	2100 K
Mechanical and Housing	
Bulb Material	Hard Glass

Approval and Application

Ceramalux ALTO

Order Code	Full Product Name	Mercury		
		Mercury (Hg) Content (Max)	(Hg) Content (Nom)	Picogram Per Lumen Hour
332270	C100S54/D ALTO PH 12PK	22.1 mg	-	-
368837	C100S52/ALTO	-	32 mg	11.3 pg/lm.h
467373	C400S51/ALTO 12PK	23.5 mg	-	26.4 pg/lm.h
467217	C250S50/ALTO 12PK	23.5 mg	-	-
467225	C200S66/ALTO 12PK	31 mg	-	-
140961	SON ALTO 150W LV E E39 CL SL/3	17 mg	-	-

Order Code	Full Product Name	Mercury		
		Mercury (Hg) Content (Max)	(Hg) Content (Nom)	Picogram Per Lumen Hour
467233	C150S54/ALTO 12PK	17 mg	-	-
467241	C100S55/ALTO 12PK	22.1 mg	-	-
140947	SON ALTO 70W LV E E39 CL SL/3	17 mg	-	-
467258	C70S62/ALTO 12PK	17 mg	-	-
467266	C50S68/ALTO 12PK	17.7 mg	-	-

Operating and Electrical

Order Code	Full Product Name	Lamp Current (Nom)	Voltage (Max)	Voltage (Min)	Voltage (Nom)	Re-Ignition Time (Min) (Max)
332270	C100S54/D ALTO PH 12PK	2.1 A	62 V	45 V	55 V	2 min
368837	C100S52/ALTO	4.7 A	275 V	210 V	250 V	3 min
467373	C400S51/ALTO 12PK	4.6 A	115 V	84 V	100 V	1 min
467217	C250S50/ALTO 12PK	3.0 A	110 V	79 V	95 V	2 min
467225	C200S66/ALTO 12PK	2.4 A	115 V	90 V	100 V	1 min
140961	SON ALTO 150W LV E E39 CL SL/3	3.2 A	62 V	48 V	55 V	2 min
467233	C150S54/ALTO 12PK	3.2 A	62 V	48 V	55 V	2 min
467241	C100S55/ALTO 12PK	2.1 A	62 V	45 V	55 V	2 min
140947	SON ALTO 70W LV E E39 CL SL/3	1.6 A	60 V	44 V	52 V	2 min
467258	C70S62/ALTO 12PK	1.6 A	60 V	44 V	52 V	2 min
467266	C50S68/ALTO 12PK	1.18 A	62 V	46 V	52 V	2 min

Light Technical (1/2)

Order Code	Full Product Name	Chromaticity	Chromaticity	Color		Design Mean Lumens	Luminous Flux (Rated) (Min)
		Coordinate X (Nom)	Coordinate Y (Nom)	Rendering Index (Nom)	Luminous Efficacy (rated) (Min)		
332270	C100S54/D ALTO PH 12PK	523	417	21	83 lm/W	7750 lm	8300 lm
368837	C100S52/ALTO	515	420	21	121.5 lm/W	126000 lm	121500 lm
467373	C400S51/ALTO 12PK	515	420	20	112.5 lm/W	45000 lm	45000 lm
467217	C250S50/ALTO 12PK	523	412	26	102 lm/W	24300 lm	25600 lm
467225	C200S66/ALTO 12PK	521	420	16	104 lm/W	19260 lm	20700 lm
140961	SON ALTO 150W LV E E39 CL SL/3	514	424	17	96 lm/W	14220 lm	14400 lm
467233	C150S54/ALTO 12PK	514	424	17	96 lm/W	14220 lm	14400 lm
467241	C100S55/ALTO 12PK	520	420	18	85 lm/W	8460 lm	8500 lm
140947	SON ALTO 70W LV E E39 CL SL/3	522	425	13	86 lm/W	5670 lm	6000 lm
467258	C70S62/ALTO 12PK	522	425	13	86 lm/W	5670 lm	6000 lm
467266	C50S68/ALTO 12PK	529	420	16	74 lm/W	3600 lm	3700 lm

Light Technical (2/2)

Order Code	Full Product Name	Luminous Flux (Rated) (Nom)	Photosynthetic Photon Flux (PPF)	Order Code	Full Product Name	Luminous Flux (Rated) (Nom)	Photosynthetic Photon Flux (PPF)
332270	C100S54/D ALTO PH 12PK	9300 lm	-	467373	C400S51/ALTO 12PK	50000 lm	595 µmol/s
368837	C100S52/ALTO	135000 lm	1550 µmol/s	467217	C250S50/ALTO 12PK	28500 lm	-

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Order Code	Full Product Name	Luminous Flux (Rated) (Nom)	Photosynthetic Photon Flux (PPF)
467225	C200S66/ALTO 12PK	23000 lm	-
140961	SON ALTO 150W LV E E39 CL SL/3	16000 lm	-
467233	C150S54/ALTO 12PK	16000 lm	-
467241	C100S55/ALTO 12PK	9400 lm	-

Order Code	Full Product Name	Luminous Flux (Rated) (Nom)	Photosynthetic Photon Flux (PPF)
140947	SON ALTO 70W LV E E39 CL SL/3	6600 lm	-
467258	C70S62/ALTO 12PK	6600 lm	-
467266	C50S68/ALTO 12PK	4100 lm	-

Mechanical and Housing

Order Code	Full Product Name	Bulb Finish	Bulb Shape
332270	C100S54/D ALTO PH 12PK	Coated glass	ED23 1/2
368837	C1000S52/ALTO	Clear	E25
467373	C400S51/ALTO 12PK	Clear	ED18
467217	C250S50/ALTO 12PK	Clear	ED18
467225	C200S66/ALTO 12PK	Clear	ED18
140961	SON ALTO 150W LV E E39 CL SL/3	Clear	ED23 1/2

Order Code	Full Product Name	Bulb Finish	Bulb Shape
467233	C150S54/ALTO 12PK	Clear	ED23 1/2
467241	C100S55/ALTO 12PK	Clear	ED23 1/2
140947	SON ALTO 70W LV E E39 CL SL/3	Clear	ED23 1/2
467258	C70S62/ALTO 12PK	Clear	ED23 1/2
467266	C50S68/ALTO 12PK	Clear	ED23 1/2

