



# Energy efficiency and long life

## Ceramalux Non-ALTO

Philips Ceramalux lamps provide efficient lighting solutions for industrial applications, warehouses, post top applications and parking lots.

### Benefits

- Long Life - 24,000 hours Rated Average Life.
- Available in a multitude of bases and wattages.

### Features

- Low total cost of ownership.
- Long life—up to 24,000 hours.
- High efficacy up to 140 LPW.
- BD-17 available in 35, 50, 70, 100, 150 watts / PAR 38 available in 70 watts / ED-18 available in 225, 310, 360 and 430 watts / T-14 available in 600 watts / ED-37 available in 1000 watts.

### Application

- Ideal for security lighting, roadway lighting, warehouse lighting, and industrial applications.

# Ceramalux Non-ALTO

## Versions



E39, ED-18, Clear



E39, ED-23 1/2, Clear

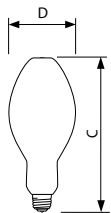
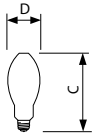


E39, ED-37, Clear



E26, BD-17, Clear

## Dimensional drawing



Product	D	C (max)
C35S76/M 12PK	2.125 in	5.438 in
50W BD17 HP SODIUM HID CLR	2.125 in	5.438 in
100W BD17 HP SODIUM HID CLR	2.125 in	5.438 in
35W BD17 HP SODIUM HID CLR	2.125 in	5.438 in
70W BD17 HP SODIUM HID CLR	2.125 in	5.438 in
150W BD17 HP SODIUM HID CLR	2.125 in	5.438 in
C50S68/M 12pk	2.125 in	5.438 in
SON 150W E26 BD54 CL SL/12	2.125 in	5.438 in
C100S54/M PH 12PK	2.125 in	5.438 in
C70S62/M PH 12PK	2.125 in	5.438 in

Product
C250S50 3PK

Product
C1000S52/ED37 6PK

# Ceramalux Non-ALTO

## Dimensional drawing

### Product

C100S54 3PK

### General Information

Operating Position UNIVERSAL

### Luminaire Design Requirements

Bulb Temperature (Max) 400 °C

### Light Technical

Correlated Color Temperature (Nom) 2100 K

### Mechanical and Housing

Bulb Finish Clear

## Approval and Application

Order Code	Full Product Name	Mercury (Hg) Content (Max)	Mercury (Hg)	
			Content (Nom)	Picogram Per Lumen Hour
928601139404	C250S50 3PK	23.5 mg	-	-
928601139806	C100S54 3PK	22.1 mg	-	-
928601140701	C1000S52/ED37 6PK	55.2 mg	-	20.5 pg/lm.h
928601143514	100W BD17 HP SODIUM HID CLR	22 mg	-	-
928601143590	C100S54/M PH 12PK	22 mg	-	-
928601144114	70W BD17 HP SODIUM HID CLR	17 mg	-	-
928601144190	C70S62/M PH 12PK	17 mg	-	-
928601144314	35W BD17 HP SODIUM HID CLR	-	16.8 mg	-

Order Code	Full Product Name	Mercury (Hg) Content (Max)	Mercury (Hg)	
			Content (Nom)	Picogram Per Lumen Hour
928601144390	C35S76/M 12PK	-	16.8 mg	-
928601144914	50W BD17 HP SODIUM HID CLR	17.7 mg	-	-
928601144990	C50S68/M 12pk	17.7 mg	-	-
928601147414	150W BD17 HP SODIUM HID CLR	17 mg	-	46.6 pg/lm.h
928601147490	SON 150W E26 BD54 CL SL/12	17 mg	-	46.6 pg/lm.h

## Operating and Electrical

Order Code	Full Product Name	Lamp Current (Nom)	Voltage (Max)	Voltage (Min)	Voltage (Nom)	Re-Ignition Time (Min) (Max)
928601139404	C250S50 3PK	3.0 A	110 V	79 V	95 V	2 min
928601139806	C100S54 3PK	2.1 A	62 V	45 V	55 V	2 min
928601140701	C1000S52/ED37 6PK	4.7 A	270 V	210 V	225 V	2 min
928601143514	100W BD17 HP SODIUM HID CLR	2.1 A	62 V	45 V	55 V	2 min
928601143590	C100S54/M PH 12PK	2.1 A	62 V	45 V	55 V	2 min

## Ceramalux Non-ALTO

Order Code	Full Product Name	Lamp Current (Nom)	Voltage (Max)	Voltage (Min)	Voltage (Nom)	Re-Ignition Time (Min) (Max)
928601144114	70W BD17 HP SODIUM HID CLR	1.6 A	60 V	44 V	52 V	2 min
928601144190	C70S62/M PH 12PK	1.6 A	60 V	44 V	52 V	2 min
928601144314	35W BD17 HP SODIUM HID CLR	0.83 A	62 V	45 V	55 V	5 min
928601144390	C35S76/M 12PK	0.83 A	62 V	45 V	55 V	5 min
928601144914	50W BD17 HP SODIUM HID CLR	1.18 A	62 V	46 V	52 V	2 min
928601144990	C50S68/M 12pk	1.18 A	62 V	46 V	52 V	2 min
928601147414	150W BD17 HP SODIUM HID CLR	3.2 A	62 V	48 V	55 V	2 min
928601147490	SON 150W E26 BD54 CL SL/12	3.2 A	62 V	48 V	55 V	2 min

### General Information

Order Code	Full Product Name	Cap-Base	Main Application	Order Code	Full Product Name	Cap-Base	Main Application
928601139404	C250S50 3PK	E39	General and Street Lighting	928601144114	70W BD17 HP SODIUM HID CLR	E26	General Lighting (G)
928601139806	C100S54 3PK	E39	General and Street Lighting	928601144190	C70S62/M PH 12PK	E26	General Lighting (G)
928601140701	C1000S52/ED37 6PK	E39	General and Street Lighting	928601144314	35W BD17 HP SODIUM HID CLR	E26	General Lighting (G)
928601143514	100W BD17 HP SODIUM HID CLR	E26	General Lighting (G)	928601144390	C35S76/M 12PK	E26	General Lighting (G)
928601143590	C100S54/M PH 12PK	E26	General Lighting (G)	928601144914	50W BD17 HP SODIUM HID CLR	E26	General Lighting (G)
				928601144990	C50S68/M 12pk	E26	General Lighting (G)
				928601147414	150W BD17 HP SODIUM HID CLR	E26	General Lighting (G)
				928601147490	SON 150W E26 BD54 CL SL/12	E26	General Lighting (G)

### Light Technical (1/2)

Order Code	Full Product Name	Chromaticity	Chromaticity	Color	Color	Lumen		Luminous Efficacy (rated) (Min)
		Coordinate X (Nom)	Coordinate Y (Nom)	Rendering Index (Max)	Rendering Index (Nom)	Lumen Maintenance 10000 h (Nom)	Maintenance 20000 h	
928601139404	C250S50 3PK	523	412	-	26	-	-	102 lm/W
928601139806	C100S54 3PK	520	420	-	18	-	-	85 lm/W
928601140701	C1000S52/ED37 6PK	517	423	-	21	90 %	-	108 lm/W
928601143514	100W BD17 HP SODIUM HID CLR	520	420	-	18	90 %	-	84 lm/W
928601143590	C100S54/M PH 12PK	520	420	-	18	90 %	-	84 lm/W
928601144114	70W BD17 HP SODIUM HID CLR	522	425	-	13	70 %	-	84 lm/W
928601144190	C70S62/M PH 12PK	522	425	-	13	70 %	-	84 lm/W
928601144314	35W BD17 HP SODIUM HID CLR	537	420	-	7.5	93 %	82 %	59 lm/W
928601144390	C35S76/M 12PK	537	420	-	7.5	93 %	82 %	59 lm/W
928601144914	50W BD17 HP SODIUM HID CLR	540	415	-	12	-	-	71 lm/W
928601144990	C50S68/M 12pk	540	415	-	12	-	-	71 lm/W
928601147414	150W BD17 HP SODIUM HID CLR	514	424	25	17	75 %	-	96 lm/W
928601147490	SON 150W E26 BD54 CL SL/12	514	424	-	17	75 %	-	96 lm/W

### Light Technical (2/2)

## Ceramalux Non-ALTO

Order Code	Full Product Name	Luminous	Luminous	Luminous	Photosynthetic Photon Flux (PPF)
		Efficacy (rated) (Nom)	Design Mean Lumens	Flux (Rated) (Min)	
928601139404	C250S50 3PK	114 lm/W	24300 lm	25600 lm	28500 lm -
928601139806	C100S54 3PK	94 lm/W	8460 lm	8500 lm	9400 lm -
928601140701	C1000S52/ED37 6PK	125 lm/W	112000 lm	108000 lm	125000 lm 1550 µmol/s
928601143514	100W BD17 HP SODIUM HID CLR	92 lm/W	8550 lm	8400 lm	9200 lm -
928601143590	C100S54/M PH 12PK	92 lm/W	8550 lm	8400 lm	9200 lm -
928601144114	70W BD17 HP SODIUM HID CLR	92 lm/W	5850 lm	5900 lm	6500 lm -
928601144190	C70S62/M PH 12PK	92 lm/W	5850 lm	5900 lm	6500 lm -
928601144314	35W BD17 HP SODIUM HID CLR	63 lm/W	2025 lm	2050 lm	2250 lm -

Order Code	Full Product Name	Luminous	Luminous	Luminous	Photosynthetic Photon Flux (PPF)
		Efficacy (rated) (Nom)	Design Mean Lumens	Flux (Rated) (Min)	
928601144390	C35S76/M 12PK	63 lm/W	2025 lm	2050 lm	2250 lm -
928601144914	50W BD17 HP SODIUM HID CLR	80 lm/W	3600 lm	3550 lm	4000 lm -
928601144990	C50S68/M 12pk	80 lm/W	3600 lm	3550 lm	4000 lm -
928601147414	150W BD17 HP SODIUM HID CLR	107 lm/W	14400 lm	14400 lm	16000 lm -
928601147490	SON 150W E26 BD54 CL SL/12	107 lm/W	14400 lm	14400 lm	16000 lm -

### Mechanical and Housing

Order Code	Full Product Name	Bulb Material	Bulb Shape
928601139404	C250S50 3PK	Hard Glass	ED-18
928601139806	C100S54 3PK	Hard Glass	ED-23 1/2
928601140701	C1000S52/ED37 6PK	Hard Glass	ED-37
928601143514	100W BD17 HP SODIUM HID CLR	Hard Glass	BD-17
928601143590	C100S54/M PH 12PK	Hard Glass	BD-17
928601144114	70W BD17 HP SODIUM HID CLR	Soft Glass	BD-17
928601144190	C70S62/M PH 12PK	Soft Glass	BD-17

Order Code	Full Product Name	Bulb Material	Bulb Shape
928601144314	35W BD17 HP SODIUM HID CLR	Hard Glass	BD-17
928601144390	C35S76/M 12PK	Hard Glass	BD-17
928601144914	50W BD17 HP SODIUM HID CLR	Hard Glass	BD-17
928601144990	C50S68/M 12pk	Hard Glass	BD-17
928601147414	150W BD17 HP SODIUM HID CLR	Hard Glass	BD-17
928601147490	SON 150W E26 BD54 CL SL/12	Hard Glass	BD-17

