



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.

Warnings and Safety

- Lamp contains mercury. Manage in Accord with Disposal Laws. See: www.lamprecycle.org or 1-800-555-0050

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Versions



E39, ED-18, Clear



E39, ED-23 1/2, Clear

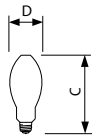


E39, ED-37, Clear



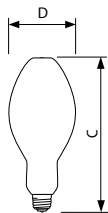
E26, BD-17, Clear

Dimensional drawing



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

Product
C250S50 3PK



Product
C1000S52/ED37 6PK

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		
		Mercury (Hg) Content (Max)	(Hg) Content (Nom)	Picogram Per Lumen Hour
140979	SON ALTO 250W LV E E39 CL SL/3	23.5 mg	-	-
140953	SON ALTO 100W LV E E39 CL SL/3	22.1 mg	-	-
323865	C1000S52/ED37 6PK	55.2 mg	-	20.5 pg/lm.h
460824	C100S54/M 3PK	22 mg	-	-
467274	C100S54/M PH 12PK	22 mg	-	-
460816	70W BD17 HP SODIUM HID CLR	17 mg	-	-
467282	C70S62/M PH 12PK	17 mg	-	-
460857	C35S76/M 3PK	-	16.8 mg	-
467290	C35S76/M 12PK	-	16.8 mg	-
460840	C50S68/M 3PK	17.7 mg	-	-
467308	C50S68/M 12pk	17.7 mg	-	-
460832	C150S55/M 3PK	17 mg	-	46.6 pg/lm.h
467316	C150S55/M 12PK	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)
140979	SON ALTO 250W LV E E39 CL SL/3	3.0 A	110 V	79 V	95 V	2 min
140953	SON ALTO 100W LV E E39 CL SL/3	2.1 A	62 V	45 V	55 V	2 min
323865	C1000S52/ED37 6PK	4.7 A	270 V	210 V	225 V	2 min
460824	C100S54/M 3PK	2.1 A	62 V	45 V	55 V	2 min
467274	C100S54/M PH 12PK	2.1 A	62 V	45 V	55 V	2 min
460816	70W BD17 HP SODIUM HID CLR	1.6 A	60 V	44 V	52 V	2 min
467282	C70S62/M PH 12PK	1.6 A	60 V	44 V	52 V	2 min
460857	C35S76/M 3PK	0.83 A	62 V	45 V	55 V	5 min

Ceramalux Non-ALTO

Order Code	Full Product Name	Lamp Current (Nom)	Voltage (Max)	Voltage (Min)	Voltage (Nom)	Re-Ignition Time (Min) (Max)
467290	C35S76/M 12PK	0.83 A	62 V	45 V	55 V	5 min
460840	C50S68/M 3PK	1.18 A	62 V	46 V	52 V	2 min
467308	C50S68/M 12pk	1.18 A	62 V	46 V	52 V	2 min
460832	C150S55/M 3PK	3.2 A	62 V	48 V	55 V	2 min
467316	C150S55/M 12PK	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
140979	SON ALTO 250W LV E E39 CL SL/3	E39	General and Street Lighting	460857	C35S76/M 3PK	E26	General Lighting (G)
140953	SON ALTO 100W LV E E39 CL SL/3	E39	General and Street Lighting	467290	C35S76/M 12PK	E26	General Lighting (G)
323865	C100S52/ED37 6PK	E39	General and Street Lighting	460840	C50S68/M 3PK	E26	General Lighting (G)
460824	C100S54/M 3PK	E26	General Lighting (G)	467308	C50S68/M 12pk	E26	General Lighting (G)
467274	C100S54/M PH 12PK	E26	General Lighting (G)	460832	C150S55/M 3PK	E26	General Lighting (G)
460816	70W BD17 HP SODIUM HID CLR	E26	General Lighting (G)	467316	C150S55/M 12PK	E26	General Lighting (G)
467282	C70S62/M PH 12PK	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	
140979	SON ALTO 250W LV E E39 CL SL/3	523	412	-	26	-	-	102 lm/W
140953	SON ALTO 100W LV E E39 CL SL/3	520	420	-	18	-	-	85 lm/W
323865	C100S52/ED37 6PK	517	423	-	21	90 %	-	108 lm/W
460824	C100S54/M 3PK	520	420	-	18	90 %	-	84 lm/W
467274	C100S54/M PH 12PK	520	420	-	18	90 %	-	84 lm/W
460816	70W BD17 HP SODIUM HID CLR	522	425	-	13	70 %	-	84 lm/W
467282	C70S62/M PH 12PK	522	425	-	13	70 %	-	84 lm/W
460857	C35S76/M 3PK	537	420	-	7.5	93 %	82 %	59 lm/W
467290	C35S76/M 12PK	537	420	-	7.5	93 %	82 %	59 lm/W
460840	C50S68/M 3PK	540	415	-	12	-	-	71 lm/W
467308	C50S68/M 12pk	540	415	-	12	-	-	71 lm/W
460832	C150S55/M 3PK	514	424	25	17	75 %	-	96 lm/W
467316	C150S55/M 12PK	514	424	-	17	75 %	-	96 lm/W

Light Technical (2/2)

Order Code	Full Product Name	Luminous Efficacy (rated) (Nom)	Design Mean Lumens	Luminous Flux (Rated) (Min)	Luminous Flux (Rated) (Nom)	Luminous Photosynthetic Photon Flux (PPF)	Order Code	Full Product Name	Luminous Efficacy (rated) (Nom)	Design Mean Lumens	Luminous Flux (Rated) (Min)	Luminous Flux (Rated) (Nom)	Luminous Photosynthetic Photon Flux (PPF)
		(lm/W)	(lm)	(lm)	(lm)	(PPF)			(lm/W)	(lm)	(lm)	(lm)	(PPF)
140979	SON ALTO 250W LV E E39 CL SL/3	114 lm/W	24300 lm	25600 lm	28500 lm	-	323865	C100S52/ED37 6PK	125 lm/W	112000 lm	108000 lm	125000 lm	1550 µmol/s
140953	SON ALTO 100W LV E E39 CL SL/3	94 lm/W	8460 lm	8500 lm	9400 lm	-	460824	C100S54/M 3PK	92 lm/W	8550 lm	8400 lm	9200 lm	-
							467274	C100S54/M PH 12PK	92 lm/W	8550 lm	8400 lm	9200 lm	-

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Order Code	Full Product Name	Luminous Efficacy (rated) (Nom)	Design Mean Lumens	Luminous Flux (Rated) (Min)	Luminous Flux (Rated) (Nom)	Photosynthetic Photon Flux (PPF)
460816	70W BD17 HP SODIUM HID CLR	92 lm/W	5850 lm	5900 lm	6500 lm	-
467282	C70S62/M PH 12PK	92 lm/W	5850 lm	5900 lm	6500 lm	-
460857	C35S76/M 3PK	63 lm/W	2025 lm	2050 lm	2250 lm	-
467290	C35S76/M 12PK	63 lm/W	2025 lm	2050 lm	2250 lm	-

Order Code	Full Product Name	Luminous Efficacy (rated) (Nom)	Design Mean Lumens	Luminous Flux (Rated) (Min)	Luminous Flux (Rated) (Nom)	Photosynthetic Photon Flux (PPF)
460840	C50S68/M 3PK	80 lm/W	3600 lm	3550 lm	4000 lm	-
467308	C50S68/M 12pk	80 lm/W	3600 lm	3550 lm	4000 lm	-
460832	C150S55/M 3PK	107 lm/W	14400 lm	14400 lm	16000 lm	-
467316	C150S55/M 12PK	107 lm/W	14400 lm	14400 lm	16000 lm	-

Mechanical and Housing

Order Code	Full Product Name	Bulb Material	Bulb Shape
140979	SON ALTO 250W LV E E39 CL SL/3	Hard Glass	ED18
140953	SON ALTO 100W LV E E39 CL SL/3	Hard Glass	ED-23 1/2
323865	C100S52/ED37 6PK	Hard Glass	ED37
460824	C100S54/M 3PK	Hard Glass	BD17
467274	C100S54/M PH 12PK	Hard Glass	BD17
460816	70W BD17 HP SODIUM HID CLR	Soft Glass	BD17
467282	C70S62/M PH 12PK	Soft Glass	BD17

Order Code	Full Product Name	Bulb Material	Bulb Shape
460857	C35S76/M 3PK	Hard Glass	BD17
467290	C35S76/M 12PK	Hard Glass	BD17
460840	C50S68/M 3PK	Hard Glass	BD17
467308	C50S68/M 12pk	Hard Glass	BD17
460832	C150S55/M 3PK	Hard Glass	BD17
467316	C150S55/M 12PK	Hard Glass	BD17

