



Direct retrofit with immediate energy savings

Energy Advantage CDM AllStart

Philips Energy Advantage CDM lamps with AllStart Technology is a high-efficiency protected "O" rated CDM lighting solution that provides energy savings without compromising light quality.

Benefits

- Crisp white light.
- Excellent color rendering of CRI \geq 85.
- Energy saving solution - without changing a ballast (for both Probe and Pulse Start ballasts).

Features

- Direct retrofit lamp to both probe and pulse start magnetic ballasts.
- A true universal operation that does not affect lamp life.
- Reduced maintenance and recycling costs.
- Energy savings up to 18%*
- Long life \geq 20,000 hrs rated average life.
- Available in 205 and 330 watt clear and coated bulb finishes .

Application

- Ideal for high-ceiling industrial, retail and distribution centers as well as outdoor applications.

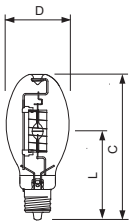
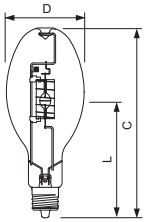
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- R "WARNING: These lamps can cause serious skin burn and eye inflammation from short wave ultraviolet radiation if outer envelope of the lamp is broken or punctured. Do not use where people will remain for more than a few minutes unless adequate shielding or other safety precautions are used. Certain lamps that will automatically extinguish when the outer envelope is broken or punctured are commercially available." This lamp complies with FDA radiation performance standard 21 CFR subchapter J. (USA:21 CFR 1040.30 Canada: SOR/DORS/80-381)

Related products



Dimensional drawing



Product	C (Max)	D (Norm)	L (Norm)
CDMAllstar 330W/940 ED37 U EA AllStart	11.5	4.625	7
CDMAllstar 330W/940 ED37 U EA AllStart	11.5	4.625	7
CDMAllstar 330W/940 ED-37 EA AllStart TG	11.5	4.625	7
CDMAllstar 330W/940 ED37 EA AllStart TG	11.5	4.625	7

Product	C (Max)	D (Norm)	L (Norm)
CDMAllstar 205W/841 ED28 U EA AllStart	8.313	3.5	5
CDMAllstar 205W/841 ED28 U EA AllStart	-	3.5	5
CDMAllstar 205W/940 ED28 EA AllStart TG	8.313	3.5	5
CDMAllstar 330W/940 ED28 U EA AllStart	8.313	3.5	5
CDMAllstar 145W/940 ED28 U EA AllStart	11.5	3.5	5
CDMAllstar 145W/940 ED28 U EA AllStart	8.313	3.5	5

Compare table

Product number	Full product name	Bulb	Bulb Finish	Base	Operating Position	Color Code	Color Designation	Watts	Lamp Current	Initial lumen	Lamp Voltage
232595	330W 4K ED37 CL U EA AllStart	ED37	Clear	Exclusionary Mogul Screw	Universal	940	4000 Kelvin	330	3.02	33000	125
232561	205W ED28 CL U EA AllStart	ED28	Clear	Exclusionary Mogul Screw	Universal	841	4100 Kelvin	205	1.9	19500	125
411058	330W 4K ED28 CL U EA AllStart	ED28	Clear	Exclusionary Mogul Screw	Universal	940	4000 Kelvin	330	3.02	33000	125

Product number	Full product name	Bulb	Bulb Finish	Base	Operating Position	Color Code	Color Designation	Watts	Lamp Current	Initial lumen	Lamp Voltage
411074	145W 4K ED28 CL U EA AllStart	ED28	Clear	Exclusionary Mogul Screw	Universal	940	4000 Kelvin	145	1.45	13775	122
236927	205W ED28 CO U EA AllStart	ED28	Coated	Exclusionary Mogul Screw	Universal	841	4100 Kelvin	205	1.9	18000	125
408633	205W ED28 CO U EA AllStart TG	ED28	Coated	Exclusionary Mogul Screw	Universal	940	4100 Kelvin	205	1.9	19500	125
413195	145W 4K ED28 CO U EA AllStart	ED28	Coated	Exclusionary Mogul Screw	Universal	940	4000 Kelvin	145	1.45	12615	122
236935	330W 4K ED37 CO U EA AllStart	ED37	Coated	Exclusionary Mogul Screw	Universal	940	4000 Kelvin	330	3.02	31000	125
408641	330W 4K ED37 CO U EA AllStart TG	ED37	Coated	Exclusionary Mogul Screw	Universal	940	4000 Kelvin	330	3.02	33000	125
408849	330W 4K ED37 CO U EA AllStart TG	ED37	Coated	Exclusionary Mogul Screw	Universal	940	4000 Kelvin	330	3.02	31000	125

Compare table

Product number	Full product name	Chromaticity Coordinate X	Chromaticity Coordinate Y	Color Rendering Index	RatedAvgLife(See Family Notes)	Cap-Base Temperature	Bulb Temperature	Luminous Efficacy Lamp	Color Temperature	Design Mean Lumens	Mercury (Hg) Content
232595	330W 4K ED37 CL U EA AllStart	0.381	0.378	90	24000	130	163	-	4000	26400	48
232561	205W ED28 CL U EA AllStart	0.360 (min), 0.376 (nom), 0.392 (max)	0.359 (min), 0.379 (nom), 0.399 (max)	85	20000	130	175	95	4100	15600	45
411058	330W 4K ED28 CL U EA AllStart	.368 (min), .384 (nom), .400 (max)	.358 (min), .378 (nom), .398 (max)	90	20000	132	240	100	3900	26400	48
411074	145W 4K ED28 CL U EA AllStart	.363 (min), .379 (nom), .394 (max)	.373 (min), .375 (nom), .377 (max)	87	20000	103	400	95	4050	11020	33
236927	205W ED28 CO U EA AllStart	0.360 (min), 0.376 (nom), 0.392 (max)	0.359 (min), 0.379 (nom), 0.399 (max)	85	20000	130	175	88	4100	14400	45
408633	205W ED28 CO U EA AllStart TG	0.360 (min), 0.376 (nom), 0.392 (max)	0.359 (min), 0.379 (nom), 0.399 (max)	85	20000	130	175	95	4100	15600	45
413195	145W 4K ED28 CO U EA AllStart	.369 (min), .385 (nom), .401 (max)	.377 (min), .379 (nom), .381 (max)	87	20000	103	400	87	3900	10092	33
236935	330W 4K ED37 CO U EA AllStart	0.381	0.378	90	24000	130	163	-	4000	24800	48
408641	330W 4K ED37 CO U EA AllStart TG	0.381	0.378	90	24000	130	163	100	4000	26400	48
408849	330W 4K ED37 CO U EA AllStart TG	0.381	0.378	90	20000	130	163	94	4000	22400	48

Compare table

Product number	Full product name	Lumen Maintenance - 40% life	Lumen Maintenance - 10% life	Pico-gram per Lumen Hour
232595	330W 4K ED37 CL U EA AllStart	80	90	90.9
232561	205W ED28 CL U EA AllStart	80	94	131.1
411058	330W 4K ED28 CL U EA AllStart	80	90	90.9
411074	145W 4K ED28 CL U EA AllStart	80	90	145.5
236927	205W ED28 CO U EA AllStart	80	94	126.5
408633	205W ED28 CO U EA AllStart TG	80	94	131.1
413195	145W 4K ED28 CO U EA AllStart	80	90	145.5
236935	330W 4K ED37 CO U EA AllStart	80	90	107.1
408641	330W 4K ED37 CO U EA AllStart TG	80	90	90.9
408849	330W 4K ED37 CO U EA AllStart TG	80	90	107.1



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www.philips.com/lighting

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data subject to change