



# **ION INDUSTRIES**

## **Philips Lighting**

Een ION INDUSTRIES rapportage met testresultaten van een selectie zelfontwikkelde LED dimmers. Voorop staat de comptabiliteit van de dimmer t.o.v. geselecteerde LED lampen.







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# Gedetailleerd technisch overzicht

Philips E27

<b>ION INDUSTRIES</b>						PHILIPS E27		
Legend						 929001401/E8290853 1pc 4W Measured: 4.3W 0.84 PF		
		Good dimmability with indicated number of lamps (dimming range greater than 75%)						
		Limited dimmability with indicated number of lamps (dimming range smaller than 75%)						
		Undesired dimmability						
		Not tested				Dimming range 1 lamp		
Dimmers						Dimming range W	Max PF	Dim quality
Brand	Model	Voltage range	Power	Type				
	ION INDUSTRIES	90.200.010	230V	200W	Trailing Edge	0 - 4.2	0,835	97%
	ION INDUSTRIES	90.100.010	230V	150W	Trailing edge	0 - 4.1	0,82	98%
	ION INDUSTRIES	90.100.020	230V	200W	Trailing edge	0 - 4.1	0,83	98%
	ION INDUSTRIES	90.100.030	230V	350W	Trailing edge	0 - 4.15	0,83	97%
	ION INDUSTRIES	90.500.010	230V	200W	Trailing edge	With N wire 0 - 4.5	0,85	95%
						Without N wire		73%
	ION INDUSTRIES	90.100.050	230V	200W	Trailing edge	0 - 4.1	0,83	98%
	ION INDUSTRIES	90.400.030	230V	200W	Trailing edge	0 - 4.1	0,83	97%



Philips E14

# ION INDUSTRIES

PHILIPS E14










929001406/E8290856 1pc 6W Measured : 7.3W 0.87 PF

### Legend

	Good dimmability with indicated number of lamps (dimming range greater than 75%)
	Limited dimmability with indicated number of lamps (dimming range smaller than 75%)
	Undesired dimmability
	Not tested

### Dimmers

Diming range 1 lamp

Brand	Model	Voltage range	Power	Type	Dimming range W	Max PF	Dim quality
	ION INDUSTRIES	230V	200W	Trailing Edge	0 - 6.8	0,86	98%
	ION INDUSTRIES	230V	150W	Trailing edge	0 - 7.2	0,87	98%
	ION INDUSTRIES	230V	200W	Trailing edge	0 - 7	0,86	97%
	ION INDUSTRIES	230V	350W	Trailing edge	0 - 7	0,86	96%
	ION INDUSTRIES	230V	200W	Trailing edge	With N wire 0 - 7.8	0,88	97%
					Without N wire 0 - 6.8	0,8	72%
	ION INDUSTRIES	230V	200W	Trailing edge	0 - 6.88	0,85	96%
	ION INDUSTRIES	230V	200W	Trailing edge	0 - 7	0,87	97%



Philips E27

# ION INDUSTRIES

PHILIPS E27



1. 9290013514A/E8293206 1pc 9W Measured: 8.9W 0.9 PF  
2. 9290011508B/E8291376 1pc 6W Measured: 6.6W 0.89 PF

### Legend

	Good dimmability with indicated number of lamps (dimming range greater than 75%)
	Limited dimmability with indicated number of lamps (dimming range smaller than 75%)
	Undesired dimmability
	Not tested

### Dimmers

Dimming range 1 lamp



Brand	Model	Voltage range	Power	Type	Dimming range W	Max PF	Dim quality
ION INDUSTRIES	90.200.010	230V	200W	Trailing Edge	1. 0 - 9.13	0,89	98%
					2. 0 - 6.4	0,89	97%
ION INDUSTRIES	90.100.010	230V	150W	Trailing edge	1. 0 - 9.1	0,88	99%
					2. 0 - 6.36	0,88	97%
ION INDUSTRIES	90.100.020	230V	200W	Trailing edge	1. 0 - 9.1	0,88	98%
					2. 0 - 6.38	0,88	98%
ION INDUSTRIES	90.100.030	230V	350W	Trailing edge	1. 0 - 9.05	0,88	96%
					2. 0 - 6.4	0,885	97%
ION INDUSTRIES	90.500.010	230V	200W	Trailing edge	1. With N wire 0 - 9.5	0,89	98%
					1. Without N wire 0 - 9.1	0,86	96%
					2. With N wire 0 - 6.8	0,89	97%
					2. Without N wire 0 - 6	0,84	74%
ION INDUSTRIES	90.100.050	230V	200W	Trailing edge	1. 0 - 8.9	0,888	99%
					2. 0 - 6.2	0,87	96%
ION INDUSTRIES	90.400.030	230V	200W	Trailing edge	1. 0 - 9	0,89	97%
					2. 0 - 6.3	0,88	98%



Philips E27

# ION INDUSTRIES

PHILIPS E27



- 9290023901/E8295616 1pc 4.5W Measured: 4.6W 0.72 PF
- 9290023902/E8295617 1pc 7.2 W Measured: 7.5W 0.72 PF

**Legend**

	Good dimmability with indicated number of lamps (dimming range greater than 75%)
	Limited dimmability with indicated number of lamps (dimming range smaller than 75%)
	Undesired dimmability
	Not tested

**Dimmers**





Diming range 1 lamp

Brand	Model	Voltage range	Power	Type	Dimming range W	Max PF	Dim quality
ION INDUSTRIES	90.200.010	230V	200W	Trailing Edge	1. 0 - 5.45	0,8	97%
					2. 0 - 8.4	0,8	98%
ION INDUSTRIES	90.100.010	230V	150W	Trailing edge	1. 0 - 5.43	0,8	96%
					2. 0 - 8.3	0,79	97%
ION INDUSTRIES	90.100.020	230V	200W	Trailing edge	1. 0 - 5.5	0,79	97%
					2. 0 - 8.4	0,79	97%
ION INDUSTRIES	90.100.030	230V	350W	Trailing edge	1. 0 - 5.5	0,79	96%
					2. 0 - 8.4	0,79	98%
ION INDUSTRIES	90.500.010	230V	200W	Trailing edge	1. With N wire 0 - 5.7	0,82	98%
					1. Without N wire 0 - 5.4	0,8	97%
					2. With N wire 0 - 8.6	0,8	97%
					2. Without N wire 0 - 8.1	0,79	99%
ION INDUSTRIES	90.100.050	230V	200W	Trailing edge	1. 0 - 5.4	0,77	96%
					2. 0 - 8.3	0,78	98%
ION INDUSTRIES	90.400.030	230V	200W	Trailing edge	1. 0 - 5.4	0,8	96%
					2. 0 - 8.2	0,79	97%














Philips E14

ION INDUSTRIES						PHILIPS E14		
Legend						9290023911/E8295620 1pc 4.5W Measured : 4.64W 0.7 PF		
Good dimmability with indicated number of lamps (dimming range greater than 75%)								
Limited dimmability with indicated number of lamps (dimming range smaller than 75%)								
Undesired dimmability								
Not tested						Diming range 1 lamp		
Dimmers								
Brand	Model	Voltage range	Power	Type	Dimming range W	Max PF	Dim quality	
	ION INDUSTRIES	90.200.010	230V	200W	Trailing Edge	0 - 5.5	0,8	98%
	ION INDUSTRIES	90.100.010	230V	150W	Trailing edge	0 - 5.6	0,78	98%
	ION INDUSTRIES	90.100.020	230V	200W	Trailing edge	0 - 5.6	0,78	97%
	ION INDUSTRIES	90.100.030	230V	350W	Trailing edge	0 - 5.6	0,78	99%
	ION INDUSTRIES	90.500.010	230V	200W	Trailing edge	With N wire 0 - 5.8	0,82	97%
	ION INDUSTRIES	90.500.010	230V	200W	Trailing edge	Without N wire 0 - 5.2	0,77	98%
	ION INDUSTRIES	90.100.050	230V	200W	Trailing edge	0 - 5.5	0,77	96%
	ION INDUSTRIES	90.400.030	230V	200W	Trailing edge	0 - 5.6	0,79	95%



Philips GU5.3

					PHILIPS GU5.3 		
<b>Legend</b>							
		Good dimmability with indicated number of lamps (dimming range greater than 75%)					
		Limited dimmability with indicated number of lamps (dimming range smaller than 75%)					
		Undesired dimmability					
		Not tested					
<b>Dimmers</b>					Diming range 1 lamp		
Brand	Model	Voltage range	Power	Type	Dimming range W	Max PF	Dim quality
	ION INDUSTRIES	230V	200W	Trailing Edge	1. 0 - 6.6	0,98	98%
					2. 0 - 8.4	0,97	97%
	ION INDUSTRIES	230V	150W	Trailing edge	1. 0 - 6.4	0,98	96%
					2. 0 - 8.6	0,98	97%
	ION INDUSTRIES	230V	200W	Trailing edge	1. 0 - 6.4	0,98	98%
					2. 0 - 8.6	0,98	97%
	ION INDUSTRIES	230V	350W	Trailing edge	1. 0 - 6.53	0,979	96%
					2. 0 - 8.5	0,96	97%
	ION INDUSTRIES	230V	200W	Trailing edge	1. With N wire 0 - 6.9	0,97	98%
					1. Without N wire 0 - 6.8	0,95	97%
					2. With N wire 0 - 8.8	0,97	97%
					2. Without N wire 0 - 8.7	0,97	97%
	ION INDUSTRIES	230V	200W	Trailing edge	1. 0 - 6.5	0,92	96%
					2. 0 - 8.6	0,93	97%
	ION INDUSTRIES	230V	200W	Trailing edge	1. 0 - 6.5	0,94	98%
					2. 0 - 8.5	0,94	97%





Philips E27

# ION INDUSTRIES

PHILIPS E27



1. 9290020689 1pc 5W Measured: 5W 0.87 PF
2. 9290020691 1pc 8.5W Measured: 8.5W 0.9 PF
3. 9290013525 1pc 8.5W Measured: 8.47W 0.9 PF

**Legend**

	Good dimmability with indicated number of lamps (dimming range greater than 75%)
	Limited dimmability with indicated number of lamps (dimming range smaller than 75%)
	Undesired dimmability
	Not tested










**Dimmers**

Dimming range 1 lamp

Brand	Model	Voltage range	Power	Type	Dimming range W	Max PF	Dim quality	
	ION INDUSTRIES	90.200.010	230V	200W	Trailing Edge	1. 0 - 5.2		98%
						2. 0 - 8.8		96%
						3. 0 - 8.2		97%
	ION INDUSTRIES	90.100.010	230V	150W	Trailing edge	1. 0 - 5.2	0,86	98%
						2. 0 - 8.7	0,89	98%
						3. 0 - 8.1	0,87	96%
	ION INDUSTRIES	90.100.020	230V	200W	Trailing edge	1. 0 - 5.19	0,858	99%
						2. 0 - 8.7	0,89	96%
						3. 0 - 8.19	0,88	97%
	ION INDUSTRIES	90.100.030	230V	350W	Trailing edge	1. 0 - 5.2	0,856	98%
						2. 0 - 8.8	0,89	96%
						3. 0 - 8.1	0,87	98%
	ION INDUSTRIES	90.500.010	230V	200W	Trailing edge	1. With N wire 0 - 5.6	0,87	97%
						1. Without N wire 0 - 5.36	0,79	97%
						2. With N wire 0 - 8.9	0,89	96%
						2. Without N wire 0 - 8.8	0,83	98%
						3. With N wire 0 - 8.8	0,88	96%
						3. Without N wire 0 -	0,85	73%
	ION INDUSTRIES	90.100.050	230V	200W	Trailing edge	1. 0 - 5	0,85	98%
						2. 0 - 8.7	0,88	96%
						3. 0 - 8.1	0,87	97%
	ION INDUSTRIES	90.400.030	230V	200W	Trailing edge	1. 0 - 5	0,85	98%
						2. 0 - 8.7	0,88	99%
						3. 0 - 8.1	0,87	96%



Philips GU10

								
<p style="text-align: center;">Legend</p>						<p>9290013641 1pc 5W Measured: 5.4W 0.87 PF</p>		
Good dimmability with indicated number of lamps (dimming range greater than 75%)								
Limited dimmability with indicated number of lamps (dimming range smaller than 75%)								
Undesired dimmability								
Not tested								
Dimmers						Dimming range 1 lamp		
Brand	Model	Voltage range	Power	Type	Dimming range W	Max PF	Dim quality	
	ION INDUSTRIES	90.200.010	230V	200W	Trailing Edge	0 - 5.2	0,86	98%
	ION INDUSTRIES	90.100.010	230V	150W	Trailing edge	0 - 5.2	0,86	97%
	ION INDUSTRIES	90.100.020	230V	200W	Trailing edge	0 - 5.2	0,86	96%
	ION INDUSTRIES	90.100.030	230V	350W	Trailing edge	0 - 5.3	0,86	98%
	ION INDUSTRIES	90.500.010	230V	200W	Trailing edge	With N wire 0 - 5.8	0,87	97%
						Without N wire 0 - 4.4	0,76	96%
	ION INDUSTRIES	90.100.050	230V	200W	Trailing edge	0 - 5.3	0,868	97%
	ION INDUSTRIES	90.400.030	230V	200W	Trailing edge	0 - 5.3	0,868	97%