



# Switch Start Metal Halide Standard

## Switch Start Metal Halide Standard

High performance, Long life and Superior light quality A compact, energy efficient metal halide lamp that provides crisp, sparkling light with long life and high efficiency.

### Features

- Long life up to 20,000 hours for 360 and 400 watt lamps.
- Up to 100 lumens per watt.

### Application

- Ideal for industrial and retail high/low bays, and parking lots.

### Warnings and Safety

- 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



E26, BD-17, Clear



E26, BD-17, Coated



E39, BT-37, Clear



E39/E40/41, BT-56, Clear



E39, BT-56, Coated



E39, ED-28, Clear



E39, ED-28, Coated

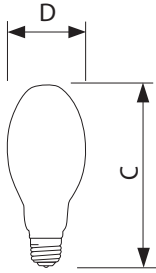


E39/E40/41, ED-37, Clear



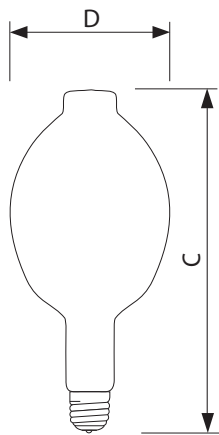
E39, ED-37, Coated

## Dimensional drawing



## E39, ED-28

Product	C (Max)	D (Norm)
MH R 175W/640 E39 ED28 U	8.313	3.5
MH R 175W/640 E39 ED28 U	8.313	3.5
MH R 175W/640 E39 ED28 CO U	8.313	3.5
MH R 250W/640 E39 ED28 U	8.313	3.5
MH R 250W/640 E39 ED28 U	8.313	3.5
MH R 250W/735 E39 ED28 CO U	8.313	3.5
MH R 400W/640 E39 ED28 U	8.313	3.5
MH R 400W/640 E39 ED28 U	8.313	3.5
MH R 175W/540 E39 ED28 U Basic	8.313	3.5
MH R 250W/540 E39 ED28 U Basic	8.313	3.5

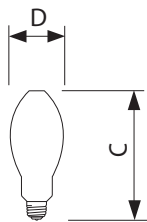


## E39/E40/41, BT-56

Product	C (Max)	D (Norm)
MH R 1500W/635 E39 BT56 U	15.375	7
MH R 1000W/640 E39 BT56 U Basic	15.375	7
MH R 1000W/635 E39 BT56 CL U	15.375	7
MH R 1000W/635 E39 BT56 CO U	15.375	7
MH R 1000W/635 E40/41 BT56 CL U	15.375	7

## E26, BD-17

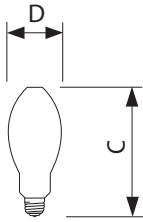
Product	C (Max)	D (Norm)
MH 150W/635 E26 BD17 U	5.438	2.125
MH 150W/635 E26 BD17 CO U	5.438	2.125



Dimensional drawing

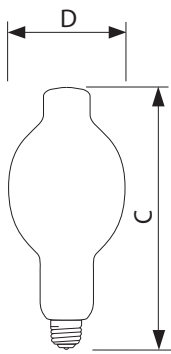
E26, BD-17

Product	C (Max)	D (Norm)
MH R 175W/640 E26 BD17 U	5.438	2.125
MH R 175W/640 E26 BD17 U	5.438	2.125
MH R 175W/640 E26 BD17 CO U	5.438	2.125



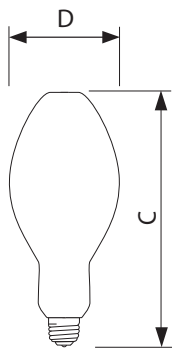
E39, BT-37

Product	C (Max)	D (Norm)
MH R 1000W/635 E39 BT37 U	11.5	4.625



E39/E40/41, ED-37

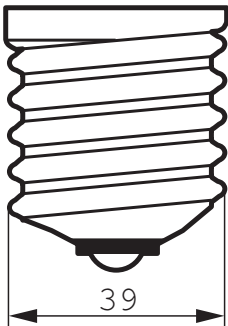
Product	C (Max)	D (Norm)
MH R 360W/645 E39 ED37 BU ES	11.5	4.625
MH R 400W/540 E39 ED37 U Basic	11.5	4.625
MH R 400W/640 E39 ED37 U	11.5	4.625
MH R 400W/640 E39 ED37 U	11.5	4.625
MH R 400W/635 E39 ED37 CO U	11.5	4.625
MH R 400W/640 E40/41 ED37 CL U	11.5	4.625



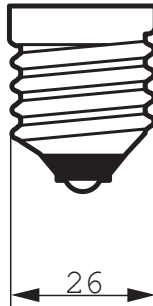
## General Characteristics

Order code	Full product name	Bulb	Bulb Material	Bulb Finish	Base	Operating Position	Main Application	RatedAvgLife(See Family Notes)	Energy Saving
928601122101	Switch Start MH Std 150W/635 Med BD17 CL	BD17	Hard Glass	Clear	Medium	Universal	General Lighting	10000	-
928601122201	Switch Start MH Std 150W/635 Med BD17 CO	BD17	Hard Glass	Coated	Medium	Universal	General Lighting	10000	-
928601122301	Switch Start MH Std 175W/640 Med BD17 CL	BD17	Hard Glass	Clear	Medium	Universal	General Lighting	10000	Not Applicable
928601122305	Switch Start MH Std 175W/640 Med BD17 CL	BD17	Hard Glass	Clear	Medium	Universal	General Lighting	10000	Not Applicable
928601122401	Switch Start MH Std 175W/640 Med BD17 CO	BD17	Hard Glass	Coated	Medium	Universal	General Lighting	10000	Not Applicable
928601126401	Switch Start MH Std 1000W/635 Mog BT37 CL	BT37	Hard Glass	Clear	Mogul	Universal	General Lighting	10000	Not Applicable
928601119402	Switch Start MH Std 1500W Mog BT56 CL	BT56	Hard Glass	Clear	Mogul	Universal	General and Street Lighting	3000	Not Applicable
928601159002	Switch Start MH Std 1000W Mog BT56 CL Basic	BT56	Hard Glass	Clear	Mogul	Universal	General Lighting	9000	-
928601172501	Switch Start MH Std 1000W BT56 CL U	BT56	Hard Glass	Clear	Mogul	Universal	General Lighting	12000	Not Applicable
928601173001	Switch Start MH Std 1000W E40/41 U	BT56	Hard Glass	Clear	E40/41	Universal	General Lighting	12000	Not Applicable
928601172601	Switch Start MH Std 1000W BT56 CO U	BT56	Hard Glass	Coated	Mogul	Universal	General Lighting	12000	Not Applicable
928601150301	Switch Start MH Std 175W U 1SL	ED28	Hard Glass	Clear	Mogul	Universal	General and Street Lighting	10000	Not Applicable
928601150305	Switch Start MH Std 175W/640 Mog ED28 CL	ED28	Hard Glass	Clear	Mogul	Universal	General and Street Lighting	10000	Not Applicable
928601150801	Switch Start MH Std 250W/640 Mog ED28 CL U 1SL	ED28	Hard Glass	Clear	Mogul	Universal	General and Street Lighting	10000	Not Applicable
928601150805	Switch Start MH Std 250W/640 Mog ED28 CL	ED28	Hard Glass	Clear	Mogul	Universal	General and Street Lighting	10000	Not Applicable
928601151301	Switch Start MH Std 400W/640 Mog ED28 CL	ED28	Hard Glass	Clear	Mogul	Universal	General Lighting	20000	Not Applicable
928601151302	Switch Start MH Std 400W/640 Mog ED28 CL	ED28	Hard Glass	Clear	Mogul	Universal	General Lighting	20000	Not Applicable
928601158701	Switch Start MH Std 175W/540 Mog ED28 CL	ED28	Hard Glass	Clear	Mogul	Universal	General Lighting	7500	-
928601158801	Switch Start MH Std 250W/540 Mog ED28 CL	ED28	Hard Glass	Clear	Mogul	Universal	General Lighting	7500	-
928601150401	Switch Start MH Std 175W/640 Mog ED28 CO	ED28	Hard Glass	Coated	Mogul	Universal	General and Street Lighting	10000	Not Applicable
928601150901	Switch Start MH Std 250W/735 Mog ED28 CO	ED28	Hard Glass	Coated	Mogul	Universal	General and Street Lighting	10000	Not Applicable
928601152901	Switch Start MH Std 360W/645 Mog ED37 CL	ED37	Hard Glass	Clear	Mogul	Base Up +/-15D	General Lighting	20000	Energy Saving
928601158901	Switch Start MH Std 400W/540 Mog ED37 CL	ED37	Hard Glass	Clear	Mogul	Universal	General Lighting	15000	-
928601172301	Switch Start MH Std 400W ED37 CL U	ED37	Hard Glass	Clear	Mogul	Universal	General Lighting	20000	Not Applicable
928601172302	Switch Start MH Std 400W CL U	ED37	Hard Glass	Clear	Mogul	Universal	General Lighting	20000	Not Applicable
928601172901	Switch Start MH Std 400W E40/41 U	ED37	Hard Glass	Clear	E40/41	Universal	General Lighting	20000	Not Applicable
928601172401	Switch Start MH Std 400W CO U	ED37	Hard Glass	Coated	Mogul	Universal	General Lighting	20000	Not Applicable

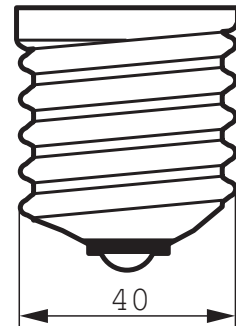
Installation diagrams



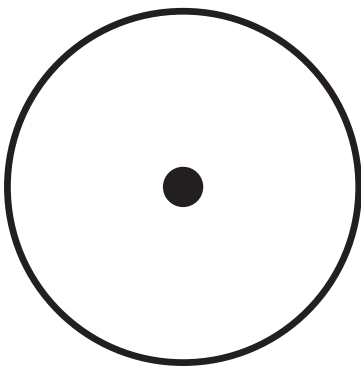
E39



E26



E40/41



any



h15

Light Technical Characteristics (1/2)

Order code	Full product name	Color Code	Color Designation	Initial Lumens	Chromaticity Coordinate X	Chromaticity Coordinate Y	Color Rendering Index	Luminous Efficacy Lamp	Color Temperature	Design Mean Lumens	Lumen Maintenance - 40% life
928601122101	Switch Start MH Std 150W/635 Med BD17 CL	635	White	12250	400	400	65	81.7	3700	8500	-
928601122201	Switch Start MH Std 150W/635 Med BD17 CO	635	White	11750	420	405	65	78.3	3400	7900	-
928601122301	Switch Start MH Std 175W/640 Med BD17 CL	640	Cool White	15400	390	400	65	88	4000	9100	-
928601122305	Switch Start MH Std 175W/640 Med BD17 CL	640	Cool White	15400	390	400	65	88	4000	9100	-
928601122401	Switch Start MH Std 175W/640 Med BD17 CO	640	Cool White	14000	405	400	65	80	3700	8380	-
928601126401	Switch Start MH Std 1000W/635 Mog BT37 CL	635	White	114000	400	400	65	114	3700	91200	80

Order code	Full product name	Color Code	Color Designation	Initial Lumens	Chromaticity Coordinate X	Chromaticity Coordinate Y	Color Rendering Index	Luminous Efficacy Lamp	Color Temperature	Design Mean Lumens	Lumen Maintenance - 40% life
928601119402	Switch Start MH Std 1500W Mog BT56 CL	635	White	155000	398	397	60	103	3700	124000	-
928601159002	Switch Start MH Std 1000W Mog BT56 CL Basic	640	Cool White	110000	0.370	0.390	60	110	4300	-	-
928601172501	Switch Start MH Std 1000W BT56 CL U	635	White	114000	0.390	0.395	65	114	3900	79800	70
928601173001	Switch Start MH Std 1000W E40/41 U	635	White	114000	0.390	0.395	65	114	3900	79800	70
928601172601	Switch Start MH Std 1000W BT56 CO U	635	White	110000	0.405	0.400	65	110	3600	-	40
928601150301	Switch Start MH Std 175W U 1SL	640	Cool White	14700	375	400	65	84	4000	8775	68
928601150305	Switch Start MH Std 175W/640 Mog ED28 CL	640	Cool White	14700	375	400	65	84	4000	8775	68
928601150801	Switch Start MH Std 250W/640 Mog ED28 CL U 1SL	640	Cool White	21250	385	395	65	85	4000	13500	-
928601150805	Switch Start MH Std 250W/640 Mog ED28 CL	640	Cool White	21250	385	395	65	85	4000	13500	-
928601151301	Switch Start MH Std 400W/640 Mog ED28 CL	640	Cool White	36000	390	400	65	90	4000	24000	-
928601151302	Switch Start MH Std 400W/640 Mog ED28 CL	640	Cool White	36000	390	400	65	90	4000	24000	-
928601158701	Switch Start MH Std 175W/540 Mog ED28 CL	540	Cool White	14700	0.370	0.390	55	84	4300	-	-
928601158801	Switch Start MH Std 250W/540 Mog ED28 CL	540	Cool White	20000	0.370	0.390	55	85	4300	15400	-
928601150401	Switch Start MH Std 175W/640 Mog ED28 CO	640	Cool White	14490	390	400	70	82.8	3700	8200	-
928601150901	Switch Start MH Std 250W/735 Mog ED28 CO	735	White	19500	400	395	70	78	3700	12500	-
928601152901	Switch Start MH Std 360W/645 Mog ED37 CL	645	Cool White	36000	365	397	60	100	4300	24500	-
928601158901	Switch Start MH Std 400W/540 Mog ED37 CL	540	Cool White	36000	0.370	0.390	55	90	4300	-	-
928601172301	Switch Start MH Std 400W ED37 CL U	640	Cool White	39000	0.385	0.395	65	97.5	3900	25350	65
928601172302	Switch Start MH Std 400W CL U	640	Cool White	39000	0.385	0.395	65	97.5	3900	25350	65
928601172901	Switch Start MH Std 400W E40/41 U	640	Cool White	39000	0.385	0.395	65	97.5	3900	25350	65
928601172401	Switch Start MH Std 400W CO U	635	White	38000	0.400	0.395	65	95	3600	22800	60

## Light Technical Characteristics (2/2)

Order code	Full product name	Lumen Maintenance - 10% life
928601122101	Switch Start MH Std 150W/635 Med BD17 CL	-
928601122201	Switch Start MH Std 150W/635 Med BD17 CO	-
928601122301	Switch Start MH Std 175W/640 Med BD17 CL	-
928601122305	Switch Start MH Std 175W/640 Med BD17 CL	-
928601122401	Switch Start MH Std 175W/640 Med BD17 CO	-
928601126401	Switch Start MH Std 1000W/635 Mog BT37 CL	-

Order code	Full product name	Lumen Maintenance - 10% life
928601119402	Switch Start MH Std 1500W Mog BT56 CL	-
928601159002	Switch Start MH Std 1000W Mog BT56 CL Basic	-
928601172501	Switch Start MH Std 1000W BT56 CL U	-
928601173001	Switch Start MH Std 1000W E40/41 U	-
928601172601	Switch Start MH Std 1000W BT56 CO U	88
928601150301	Switch Start MH Std 175W U 1SL	90

Order code	Full product name	Lumen Maintenance - 10% life
928601150305	Switch Start MH Std 175W/640 Mog ED28 CL	90
928601150801	Switch Start MH Std 250W/640 Mog ED28 CL U 1SL	-
928601150805	Switch Start MH Std 250W/640 Mog ED28 CL	-
928601151301	Switch Start MH Std 400W/640 Mog ED28 CL	-
928601151302	Switch Start MH Std 400W/640 Mog ED28 CL	-
928601158701	Switch Start MH Std 175W/540 Mog ED28 CL	-
928601158801	Switch Start MH Std 250W/540 Mog ED28 CL	-
928601150401	Switch Start MH Std 175W/640 Mog ED28 CO	-
928601150901	Switch Start MH Std 250W/735 Mog ED28 CO	-
928601152901	Switch Start MH Std 360W/645 Mog ED37 CL	-
928601158901	Switch Start MH Std 400W/540 Mog ED37 CL	-
928601172301	Switch Start MH Std 400W ED37 CL U	-
928601172302	Switch Start MH Std 400W CL U	-
928601172901	Switch Start MH Std 400W E40/41 U	-
928601172401	Switch Start MH Std 400W CO U	-

Order code	Full product name	Energy Used	Lamp Current	Lamp Voltage
928601158701	Switch Start MH Std 175W/540 Mog ED28 CL	175	1.5	132
928601158801	Switch Start MH Std 250W/540 Mog ED28 CL	250	2.1	133
928601150401	Switch Start MH Std 175W/640 Mog ED28 CO	175	1.5	132
928601150901	Switch Start MH Std 250W/735 Mog ED28 CO	250	2.1	133
928601152901	Switch Start MH Std 360W/645 Mog ED37 CL	360	3	120
928601158901	Switch Start MH Std 400W/540 Mog ED37 CL	400	3.25	135
928601172301	Switch Start MH Std 400W ED37 CL U	400	3.25	135
928601172302	Switch Start MH Std 400W CL U	400	3.25	135
928601172901	Switch Start MH Std 400W E40/41 U	400	3.25	135
928601172401	Switch Start MH Std 400W CO U	400	3.25	135

## Electrical Characteristics

Order code	Full product name	Energy Used	Lamp Current	Lamp Voltage
928601122101	Switch Start MH Std 150W/635 Med BD17 CL	150	1.8	110
928601122201	Switch Start MH Std 150W/635 Med BD17 CO	150	1.8	110
928601122301	Switch Start MH Std 175W/640 Med BD17 CL	175	1.5	132
928601122305	Switch Start MH Std 175W/640 Med BD17 CL	175	1.5	132
928601122401	Switch Start MH Std 175W/640 Med BD17 CO	175	1.5	132
928601126401	Switch Start MH Std 1000W/635 Mog BT37 CL	1000	4.1	263
928601119402	Switch Start MH Std 1500W Mog BT56 CL	1500	6.2	268
928601159002	Switch Start MH Std 1000W Mog BT56 CL Basic	1000	4.1	263
928601172501	Switch Start MH Std 1000W BT56 CL U	1000	4.1	263
928601173001	Switch Start MH Std 1000W E40/41 U	1000	4.1	263
928601172601	Switch Start MH Std 1000W BT56 CO U	1000	4.1	263
928601150301	Switch Start MH Std 175W U 1SL	175	1.5	132
928601150305	Switch Start MH Std 175W/640 Mog ED28 CL	175	1.5	132
928601150801	Switch Start MH Std 250W/640 Mog ED28 CL U 1SL	250	2.1	133
928601150805	Switch Start MH Std 250W/640 Mog ED28 CL	250	2.1	133
928601151301	Switch Start MH Std 400W/640 Mog ED28 CL	400	3.25	135
928601151302	Switch Start MH Std 400W/640 Mog ED28 CL	400	3.25	135

## Environmental Characteristics

Order code	Full product name	Mercury (Hg) Content	Picogram per Lumen Hour
928601122301	Switch Start MH Std 175W/640 Med BD17 CL	28 (max)	-
928601122305	Switch Start MH Std 175W/640 Med BD17 CL	28 (max)	-
928601122401	Switch Start MH Std 175W/640 Med BD17 CO	28 (max)	-
928601126401	Switch Start MH Std 1000W/635 Mog BT37 CL	150.6 (max)	155.3
928601119402	Switch Start MH Std 1500W Mog BT56 CL	203.9 (max)	-
928601159002	Switch Start MH Std 1000W Mog BT56 CL Basic	165 (max)	-
928601172501	Switch Start MH Std 1000W BT56 CL U	150.1 (max)	176
928601173001	Switch Start MH Std 1000W E40/41 U	150.0 (max)	176
928601172601	Switch Start MH Std 1000W BT56 CO U	150.1 (max)	162.4
928601150301	Switch Start MH Std 175W U 1SL	28 (max)	255.1
928601150305	Switch Start MH Std 175W/640 Mog ED28 CL	28 (max)	255.1
928601150801	Switch Start MH Std 250W/640 Mog ED28 CL U 1SL	36 (max)	215.1
928601150805	Switch Start MH Std 250W/640 Mog ED28 CL	36 (max)	215.1
928601151301	Switch Start MH Std 400W/640 Mog ED28 CL	52 (max)	-
928601151302	Switch Start MH Std 400W/640 Mog ED28 CL	52 (max)	-
928601158701	Switch Start MH Std 175W/540 Mog ED28 CL	28.4 (max)	-
928601158801	Switch Start MH Std 250W/540 Mog ED28 CL	32 (nom), 32.5 (max)	277.1



Order code	Full product name	Mercury (Hg) Content	Picogram per Lumen Hour
928601150401	Switch Start MH Std 175W/640 Mog ED28 CO	28 (max)	-
928601150901	Switch Start MH Std 250W/735 Mog ED28 CO	36 (max)	-
928601152901	Switch Start MH Std 360W/645 Mog ED37 CL	60 (max)	-
928601158901	Switch Start MH Std 400W/540 Mog ED37 CL	50 (max)	-
928601172301	Switch Start MH Std 400W ED37 CL U	52 (max)	102.6
928601172302	Switch Start MH Std 400W CL U	52 (max)	102.6
928601172901	Switch Start MH Std 400W E40/41 U	52 (max)	102.6
928601172401	Switch Start MH Std 400W CO U	52 (max)	114

## Luminaire Design Requirements

Order code	Full product name	Cap-Base Temperature	Bulb Temperature
928601122101	Switch Start MH Std 150W/635 Med BD17 CL	190 (max)	400 (max)
928601122201	Switch Start MH Std 150W/635 Med BD17 CO	190 (max)	400 (max)
928601122301	Switch Start MH Std 175W/640 Med BD17 CL	210 (max)	400 (max)
928601122305	Switch Start MH Std 175W/640 Med BD17 CL	210 (max)	400 (max)
928601122401	Switch Start MH Std 175W/640 Med BD17 CO	210 (max)	400 (max)
928601126401	Switch Start MH Std 1000W/635 Mog BT37 CL	210 (max)	430 (max)
928601119402	Switch Start MH Std 1500W Mog BT56 CL	210 (max)	430 (max)
928601159002	Switch Start MH Std 1000W Mog BT56 CL Basic	210 (max)	430 (max)

Order code	Full product name	Cap-Base Temperature	Bulb Temperature
928601172501	Switch Start MH Std 1000W BT56 CL U	154 (max)	251 (max)
928601173001	Switch Start MH Std 1000W E40/41 U	154 (max)	251 (max)
928601172601	Switch Start MH Std 1000W BT56 CO U	154 (max)	251 (max)
928601150301	Switch Start MH Std 175W U 1SL	210 (max)	400 (max)
928601150305	Switch Start MH Std 175W/640 Mog ED28 CL	210 (max)	400 (max)
928601150801	Switch Start MH Std 250W/640 Mog ED28 CL U 1SL	210 (max)	400 (max)
928601150805	Switch Start MH Std 250W/640 Mog ED28 CL	210 (max)	400 (max)
928601151301	Switch Start MH Std 400W/640 Mog ED28 CL	250 (max)	400 (max)
928601151302	Switch Start MH Std 400W/640 Mog ED28 CL	250 (max)	400 (max)
928601158701	Switch Start MH Std 175W/540 Mog ED28 CL	210 (max)	400 (max)
928601158801	Switch Start MH Std 250W/540 Mog ED28 CL	210 (max)	400 (max)
928601150401	Switch Start MH Std 175W/640 Mog ED28 CO	210 (max)	400 (max)
928601150901	Switch Start MH Std 250W/735 Mog ED28 CO	210 (max)	400 (max)
928601152901	Switch Start MH Std 360W/645 Mog ED37 CL	210 (max)	400 (max)
928601158901	Switch Start MH Std 400W/540 Mog ED37 CL	210 (max)	400 (max)
928601172301	Switch Start MH Std 400W ED37 CL U	210 (max)	400 (max)
928601172302	Switch Start MH Std 400W CL U	210 (max)	400 (max)
928601172901	Switch Start MH Std 400W E40/41 U	210 (max)	400 (max)
928601172401	Switch Start MH Std 400W CO U	210 (max)	400 (max)



© 2012 Koninklijke Philips Electronics N.V.  
All rights reserved.

Specifications are subject to change without notice. Trademarks are the property of Koninklijke Philips Electronics N.V. or their respective owners.

[www.philips.com/lighting](http://www.philips.com/lighting)

2012, June 28  
data subject to change