



Switch Start Metal Halide Standard

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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)

PHILIPS

Related products



E26, BD-17, Clear



E26, BD-17, Coated



E39, BT-37, Clear



E39/E40/41, BT-56, Clear



E39, ED-28, Clear



E39, ED-28, Coated

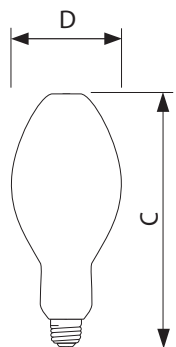


E39/E40/41, ED-37, Clear



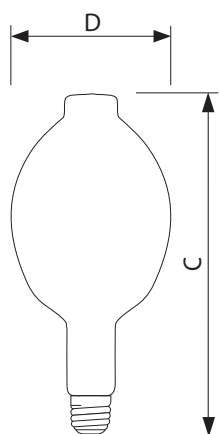
E39, ED-37, Coated

Dimensional drawing



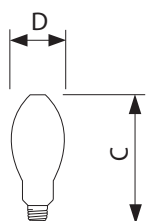
Switch Start MH Std 400W ED37 CL U

Product	C (Max)	D (Norm)
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



Switch Start MH Std 1500W Mog BT56 CL

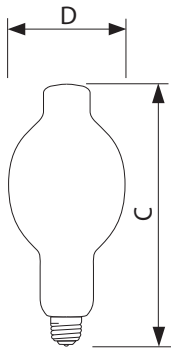
Product	C (Max)	D (Norm)
MH R 1500W/635 E39 BT56 U	15.375	7



Switch Start MH Std 175W/640 Med BD17 CL

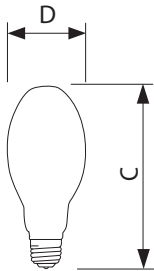
Product	C (Max)	D (Norm)
MH R 175W/640 E26 BD17 U	5.438	2.125
MH R 175W/640 E26 BD17 CO U	5.438	2.125

Dimensional drawing



Switch Start MH Std 1000W/635 Mog BT37 CL

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



Switch Start MH Std 175W/640 Mog ED28 CL

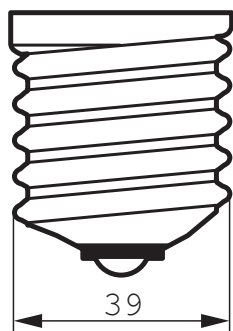
Product	C (Max)	D (Norm)
MH R 175W/640 E39 ED28 U	8.313	3.5
MH R 175W/640 E39 ED28 CO U	8.313	3.5
MH R 250W/640 E39 ED28 U	8.313	3.5
MH R 250W/640 E39 ED28 U	8.313	3.5
MH R 250W/735 E39 ED28 CO U	8.313	3.5
MH R 400W/640 E39 ED28 U	8.313	3.5
MH R 400W/640 E39 ED28 U	8.313	3.5
MH R 400W/640 E39 ED28 U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

General Characteristics

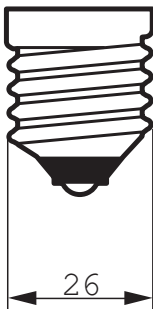
Product number	Full product name	Base	Bulb	Bulb Material	Bulb Finish	Operating Position	Main Application	RatedAvgLife(See Family Notes)	Energy Saving
140897	Switch Start MH Std 175W/640 Med BD17 CL	Medium	BD17	Hard Glass	Clear	Universal	General Lighting	10000 hr	Not Applicable
313593	Switch Start MH Std 175W/640 Med BD17 CO	Medium	BD17	Hard Glass	Coated	Universal	General Lighting	10000 hr	Not Applicable
321505	Switch Start MH Std 1000W/635 Mog BT37 CL	Mogul	BT37	Hard Glass	Clear	Universal	General Lighting	12000 hr	Not Applicable
131623	Switch Start MH Std 1500W Mog BT56 CL	Mogul	BT56	Hard Glass	Clear	Universal	General and Street Lighting	6000 hr	Not Applicable
140855	Switch Start MH Std 175W/640 Mog ED28 CL	Mogul	ED28	Hard Glass	Clear	Universal	General and Street Lighting	10000 hr	Not Applicable
140822	Switch Start MH Std 250W/640 Mog ED28 CL	Mogul	ED28	Hard Glass	Clear	Universal	General and Street Lighting	10000 hr	Not Applicable
274845	-	Mogul	ED28	Hard Glass	Clear	Universal	General and Street Lighting	10000 hr	Not Applicable
278622	Switch Start MH Std 400W/640 Mog ED28 CL	Mogul	ED28	Hard Glass	Clear	Universal	General Lighting	20000 hr	Not Applicable

Product number	Full product name	Base	Bulb	Bulb Material	Bulb Finish	Operating Position	Main Application	RatedAvgLife(See Family Notes)	Energy Saving
140848	Switch Start MH Std 400W/640 Mog ED28 CL	Mogul	ED28	Hard Glass	Clear	Universal	General Lighting	20000 hr	Not Applicable
426023	Switch Start MH Std 400W ED28 CL U	Mogul	ED28	Hard Glass	Clear	Universal	General Lighting	20000 hr	Not Applicable
287284	Switch Start MH Std 175W/640 Mog ED28 CO	Mogul	ED28	Hard Glass	Coated	Universal	General and Street Lighting	10000 hr	Not Applicable
291690	Switch Start MH Std 250W/735 Mog ED28 CO	Mogul	ED28	Hard Glass	Coated	Universal	General and Street Lighting	10000 hr	Not Applicable
274498	Switch Start MH Std 400W ED37 CL U	Mogul	ED37	Hard Glass	Clear	Universal	General Lighting	20000 hr	Not Applicable
419341	Switch Start MH Std 400W CL U	Mogul	ED37	Hard Glass	Clear	Universal	General Lighting	20000 hr	Not Applicable
415208	Switch Start MH Std 400W CO U	Mogul	ED37	Hard Glass	Coated	Universal	General Lighting	20000 hr	Not Applicable

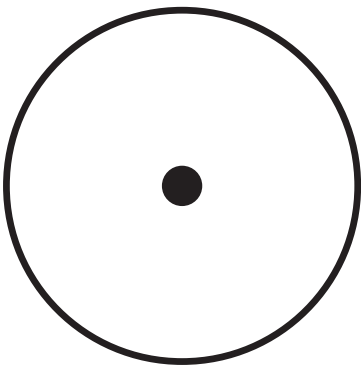
Installation diagrams



E39



E26



any

Light Technical Characteristics (1/2)

Product number	Full product name	Color Code	Color Rendering Index	Color Designation	Color Temperature	Initial Lumens	Luminous Efficacy Lamp	Lumen Maintenance - 10% life	Lumen Maintenance - 40% life	Design Mean Lumens	Chromaticity Coordinate X
140897	Switch Start MH Std 175W/640 Med BD17 CL	640	65 Ra8	Cool White	4000 K	14000 Lm	80 Lm/W	-	-	9100 Lm	0.385 -
313593	Switch Start MH Std 175W/640 Med BD17 CO	640	65 Ra8	Cool White	3700 K	13300 Lm	80 Lm/W	-	65 %	8380 Lm	0.395 -
321505	Switch Start MH Std 1000W/635 Mog BT37 CL	635	65 Ra8	White	4000 K	110000 Lm	114 Lm/W	-	65 %	91200 Lm	0.385 -
131623	Switch Start MH Std 1500W Mog BT56 CL	635	65 Ra8	White	4000 K	170000 Lm	103 Lm/W	-	-	136000 Lm	0.385 -
140855	Switch Start MH Std 175W/640 Mog ED28 CL	640	65 Ra8	Cool White	4000 K	14700 Lm	84 Lm/W	90 %	68 %	8775 Lm	0.375 -
140822	Switch Start MH Std 250W/640 Mog ED28 CL	640	65 Ra8	Cool White	4000 K	21250 Lm	85 Lm/W	-	-	13500 Lm	0.385 -
274845	-	640	65 Ra8	Cool White	4000 K	21250 Lm	85 Lm/W	-	-	13500 Lm	0.385 -
278622	Switch Start MH Std 400W/640 Mog ED28 CL	640	65 Ra8	Cool White	4000 K	36000 Lm	90 Lm/W	-	-	24000 Lm	0.390 -
140848	Switch Start MH Std 400W/640 Mog ED28 CL	640	65 Ra8	Cool White	4000 K	36000 Lm	90 Lm/W	-	-	24000 Lm	0.390 -
426023	Switch Start MH Std 400W ED28 CL U	640	65 Ra8	Cool White	4000 K	36000 Lm	90 Lm/W	-	-	24000 Lm	0.390 -
287284	Switch Start MH Std 175W/640 Mog ED28 CO	640	70 Ra8	Cool White	3700 K	14490 Lm	82.8 Lm/W	-	-	8200 Lm	0.390 -
291690	Switch Start MH Std 250W/735 Mog ED28 CO	735	70 Ra8	White	3700 K	19500 Lm	78 Lm/W	-	-	12500 Lm	0.400 -
274498	Switch Start MH Std 400W ED37 CL U	640	65 Ra8	Cool White	3900 K	39000 Lm	97.5 Lm/W	%	65 %	25350 Lm	0.385 -
419341	Switch Start MH Std 400W CL U	640	65 Ra8	Cool White	3900 K	39000 Lm	97.5 Lm/W	%	65 %	25350 Lm	0.385 -
415208	Switch Start MH Std 400W CO U	635	70 Ra8	White	3700 K	34000 Lm	85 Lm/W	%	65 %	22100 Lm	0.395 -

Light Technical Characteristics (2/2)

Product number	Full product name	Chromaticity Coordinate Y
140897	Switch Start MH Std 175W/640 Med BD17 CL	0.390 -
313593	Switch Start MH Std 175W/640 Med BD17 CO	0.390 -
321505	Switch Start MH Std 1000W/635 Mog BT37 CL	0.390 -
131623	Switch Start MH Std 1500W Mog BT56 CL	0.390 -
140855	Switch Start MH Std 175W/640 Mog ED28 CL	0.400 -
140822	Switch Start MH Std 250W/640 Mog ED28 CL	0.395 -
274845	-	0.395 -
278622	Switch Start MH Std 400W/640 Mog ED28 CL	0.400 -
140848	Switch Start MH Std 400W/640 Mog ED28 CL	0.400 -
426023	Switch Start MH Std 400W ED28 CL U	0.400 -
287284	Switch Start MH Std 175W/640 Mog ED28 CO	0.400 -
291690	Switch Start MH Std 250W/735 Mog ED28 CO	0.395 -

Product number	Full product name	Chromaticity Coordinate Y
274498	Switch Start MH Std 400W ED37 CL U	0.395 -
419341	Switch Start MH Std 400W CL U	0.395 -
415208	Switch Start MH Std 400W CO U	0.390 -

Electrical Characteristics

Product number	Full product name	Watts	Lamp Voltage	Lamp Current
140897	Switch Start MH Std 175W/640 Med BD17 CL	175 W	132 V	1.5 A
313593	Switch Start MH Std 175W/640 Med BD17 CO	175 W	132 V	1.5 A

Product number	Full product name	Watts	Lamp Voltage	Lamp Current
321505	Switch Start MH Std 1000W/635 Mog BT37 CL	1000 W	263 V	4.1 A
131623	Switch Start MH Std 1500W Mog BT56 CL	1500 W	268 V	6.2 A
140855	Switch Start MH Std 175W/640 Mog ED28 CL	175 W	132 V	1.5 A
140822	Switch Start MH Std 250W/640 Mog ED28 CL	250 W	133 V	2.1 A
274845	-	250 W	133 V	2.1 A
278622	Switch Start MH Std 400W/640 Mog ED28 CL	400 W	135 V	3.25 A
140848	Switch Start MH Std 400W/640 Mog ED28 CL	400 W	135 V	3.25 A
426023	Switch Start MH Std 400W ED28 CL U	400 W	135 V	3.25 A
287284	Switch Start MH Std 175W/640 Mog ED28 CO	175 W	132 V	1.5 A
291690	Switch Start MH Std 250W/735 Mog ED28 CO	250 W	133 V	2.1 A
274498	Switch Start MH Std 400W ED37 CL U	400 W	135 V	3.25 A
419341	Switch Start MH Std 400W CL U	400 W	135 V	3.25 A
415208	Switch Start MH Std 400W CO U	400 W	135 V	3.25 A

Environmental Characteristics

Product number	Full product name	Mercury (Hg) Content	Picogram per Lumen Hour
140897	Switch Start MH Std 175W/640 Med BD17 CL	24.0 (max) mg	-
313593	Switch Start MH Std 175W/640 Med BD17 CO	24.0 (max) mg	-
321505	Switch Start MH Std 1000W/635 Mog BT37 CL	151.0 (max) mg	155.3 p/LuHr
131623	Switch Start MH Std 1500W Mog BT56 CL	228.0 (max) mg	-
140855	Switch Start MH Std 175W/640 Mog ED28 CL	28.0 (max) mg	255.1 p/LuHr
140822	Switch Start MH Std 250W/640 Mog ED28 CL	36.0 (max) mg	215.1 p/LuHr
274845	-	36.0 (max) mg	215.1 p/LuHr
278622	Switch Start MH Std 400W/640 Mog ED28 CL	52.0 (max) mg	-
140848	Switch Start MH Std 400W/640 Mog ED28 CL	52.0 (max) mg	-

Product number	Full product name	Mercury (Hg) Content	Picogram per Lumen Hour
426023	Switch Start MH Std 400W ED28 CL U	52.0 (max) mg	-
287284	Switch Start MH Std 175W/640 Mog ED28 CO	28.0 (max) mg	-
291690	Switch Start MH Std 250W/735 Mog ED28 CO	36.0 (max) mg	-
274498	Switch Start MH Std 400W ED37 CL U	52.0 (max) mg	102.6 p/LuHr
419341	Switch Start MH Std 400W CL U	52.0 (max) mg	102.6 p/LuHr
415208	Switch Start MH Std 400W CO U	55.0 (max) mg	114 p/LuHr

Luminaire Design Requirements

Product number	Full product name	Cap-Base Temperature	Bulb Temperature
140897	Switch Start MH Std 175W/640 Med BD17 CL	210 (max) C	450 (max) C
313593	Switch Start MH Std 175W/640 Med BD17 CO	210 (max) C	400 (max) C
321505	Switch Start MH Std 1000W/635 Mog BT37 CL	210 (max) C	450 (max) C
131623	Switch Start MH Std 1500W Mog BT56 CL	250 (max) C	430 (max) C
140855	Switch Start MH Std 175W/640 Mog ED28 CL	210 (max) C	400 (max) C
140822	Switch Start MH Std 250W/640 Mog ED28 CL	210 (max) C	400 (max) C
274845	-	210 (max) C	400 (max) C
278622	Switch Start MH Std 400W/640 Mog ED28 CL	250 (max) C	400 (max) C
140848	Switch Start MH Std 400W/640 Mog ED28 CL	250 (max) C	400 (max) C
426023	Switch Start MH Std 400W ED28 CL U	250 (max) C	400 (max) C
287284	Switch Start MH Std 175W/640 Mog ED28 CO	210 (max) C	400 (max) C
291690	Switch Start MH Std 250W/735 Mog ED28 CO	210 (max) C	400 (max) C
274498	Switch Start MH Std 400W ED37 CL U	210 (max) C	400 (max) C
419341	Switch Start MH Std 400W CL U	210 (max) C	400 (max) C
415208	Switch Start MH Std 400W CO U	210 (max) C	400 (max) C



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data subject to change