



MasterColor® HPS-Retro White™

MasterColor HPS 400W/841 Mogul ED18 HOR+/-15 ALTO

Philips MasterColor Ceramic Metal Halide HPS-RetroWhite Lamps are designed as a retrofit for HPS lamps.

Product data

• General Characteristics

Base	Mogul [Mogul]
Base Information	Brass [Brass Base]
Bulb	ED18
Bulb Material	Hard Glass
Bulb Finish	Clear
Operating Position	Horizontal +/-15D [Parallel +/-15D or Horizontal(HOR)]
Main Application	General Lighting
RatedAvgLife(See Family Notes)	12000 hr

• Light Technical Characteristics

Color Code	841 [CCT of 4100K]
Color Rendering Index	80 (min), 86 (nom) Ra8
Color Designation	Deluxe Cool White
Color Temperature	4000 K
Color Temperature technical	4000 K
Chromaticity Coordinate X	371 (min), 381 (nom), 391 (max) -
Chromaticity Coordinate Y	363 (min), 370 (nom), 377 (max) -
Initial Lumens	34800 Lm
Luminous Efficacy Lamp	87 Lm/W
Design Mean Lumens	27840 Lm

• Electrical Characteristics

Watts	400 W
Lamp Voltage	94 V
Lamp Current	4.6 A
Ignition Time	120 (max) s

Re-ignition Time [min]	15 (max) min
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• Environmental Characteristics

Mercury (Hg) Content	4.1 (max) mg
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• UV-related Characteristics

PET (NIOSH)	140 h.klx
Damage Factor D/fc	0.45 -

• Luminaire Design Requirements

Cap-Base Temperature	210 (max) C
Bulb Temperature	450 (max) C

• Product Dimensions

Light Center Length L	5.75 in
Max Overall Length (MOL) - C	9.75 (max) in
Diameter D	2.25 in

• Product Data

Product number	146506
Full product name	MasterColor HPS 400W/841 Mogul ED18 HOR+/-15 ALTO
Short product name	HPS 400W/841 Mogul ED18 HOR +/-15 ALTO
Pieces per Sku	1
eop_pck_cfg	12
Skus/Case	12

Bar code on pack 46677146504
 Bar code on case 50046677146509

Logistics code(s) 928601155801
 eop_net_weight_pp 0.001 kg

Warnings and Safety

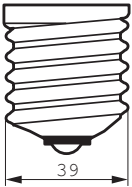
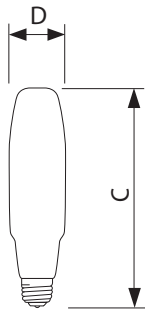
- R "WARNING: These lamps can cause serious skin burn and eye inflammation from short wave ultraviolet radiation if outer envelope of the lamp is broken or punctured. Do not use where people will

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)

Dimensional drawing

E39, ED-18

Product	C (Max)	D (Norm)
CDM RW 400W/840 E39 ED18 HOR ALTO	9.75	2.25



E39



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data subject to change