

WACHSEN OPTICAL

Product Specifications ST-9641

SKU: 226002

Spectrum: High Pressure Sodium (HPS), Metal Halide (MH), light-Emitting Diode (LED)

Lens Material: Polycarbonate

Lens Curve: 8-base, decentered

Frame Material: TR-90 Nylon - Black

Contact Points Material: Hydrophilic rubber

Frame Size: 5.375" x 6.5" x 1.875"

Includes: Microfiber cleaning bag, eyewear retainer strap and hard case



6.5"

1.875"



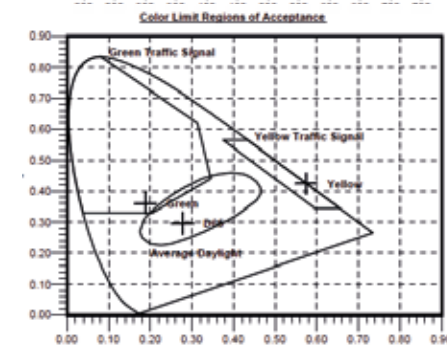
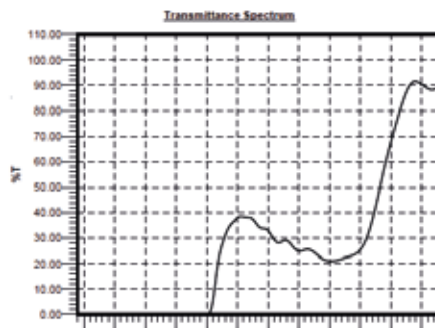
5.375"

Description:

The Wachsen Optical Premium Grow lens has been developed with Essilor Sun Solution to filter the specific wavelengths of HID and LED grow lights. The lenses have been formulated to offer optimal color correction and filter 100% of harmful ultraviolet rays.

Certifications:

- ANSI Z87.1:
Drop Ball Test Record: Pass
Inspection Certificate No. 20191202
- ANSI Z80.3
- ISO 12312-1
- AS/NZS 1067.1
- FDA No. 3003805077



Standard: ANSI Z80.3:2015

Item	Value	Requirement	Result
Lens Primary Function	General Purpose		
Luminous Transmittance Tv	26.18%	8% - 40%	PASS
Color Limit, Yellow(x,y)	(0.5748, 0.4230)		PASS
Color Limit, Green(x,y)	(0.1880, 0.3605)		PASS
Color Limit, D65(x,y)	(0.2773, 0.2968)		PASS
Tsig, Red Signal	25.91%	>= 8%	PASS
Tsig, Yellow Signal	23.84%	>= 6%	PASS
Tsig, Green Signal	27.66%	>= 6%	PASS
Tmin (475 - 650nm)	20.97%	>= 5.24% (0.2Tv)	PASS
Tmean UVB (280 - 315nm)	0.00%	<= 3.27% (0.125Tv)	PASS
Tmean UVA (315 - 380nm)	0.00%	<= 26.18% (Tv)	PASS
Tsb (380 - 500nm)	32.69%		

Standard: EN ISO 12312-1:2013 (A1:2015)

Item	Value	Requirement	Result
Filter Category	2		
Luminous Transmittance Tv	26.20%	18% - 43%	PASS
Incandescent Lights			
Q, Red	0.90	>= 0.80	PASS
Q, Yellow	0.92	>= 0.60	PASS
Q, Green	1.03	>= 0.60	PASS
Q, Blue	1.22	>= 0.60	PASS
Tmin (475 - 650nm)	20.97%	>= 5.24% (0.2Tv)	PASS
Tsuvb (315 - 380nm)	0.00%	<= 13.10% (0.5Tv)	PASS
Tsuv (280 - 315nm)	0.00%	<= 1.31% (0.05Tv)	PASS
Tsb (380 - 500nm)	32.69%		
Road Use and Driving			PASS
Driving in Twilight or At Night	26.20%	Tv >= 75%	NOT SUITABLE

Standard: AS/NZS 1067.1:2016

Item	Value	Requirement	Result
Lens Category	2		
Luminous Transmittance Tv	26.20%	18% - 43%	PASS
Incandescent Lights			
Q, Red	0.90	>= 0.80	PASS
Q, Yellow	0.92	>= 0.60	PASS
Q, Green	1.03	>= 0.60	PASS
Q, Blue	1.22	>= 0.70	PASS
Tmin (475 - 650nm)	20.97%	>= 5.24% (0.2Tv)	PASS
Tsuvb (315 - 400nm)	0.01%	<= 13.10% (0.5Tv)	PASS
Tsuv (280 - 315nm)	0.00%	<= 1.31% (0.05Tv)	PASS
Tsb (380 - 500nm)	32.69%		
Road Use and Driving			PASS
Driving in Twilight or At Night			NOT SUITABLE