

AutoPar™ Wash Luminaire

The AutoPar™ Wash Luminaire from PRG Lighting is a compact, lightweight fixture which incorporates PAR 56 illumination with the dynamic features of an automated luminaire.

The AutoPar Luminaire features a powerful 700 watt arc lamp, an integrated ballast with power factor correction and a moving yoke. Four interchangeable front lenses provide a wide range of beam options, while a standard gel frame allows for color customization. A programmable rotating front lens assembly provides smooth rotation of the front lens within a 200° range. The unit contains a cold mirror dichroic coated reflector and a UV filter, which produce a cool, safe beam of light.

The AutoPar Wash Luminaire can be mounted in any orientation and easily controlled by any DMX512-compatible console. Two Mega-Claw truss hooks are included for quick, safe installation.



Dimensions

POSITIONING:

Can be mounted in any orientation.

SPACING:

Hangs on 20 inch (50.8 cm) centers.

WEIGHT:

44 lbs (19.96 kg)

Please see diagram on next page

Accessories

55.6840.0001 Mega-Claw Truss Hook (Round and Square)

55.6841.0001 Mega-Claw Truss Hook (2" Round Tube)

71.2566.0700.0 MSR700 Arc Lamp

Features

SOURCE:	Philips MSR700 1CT 700W arc lamp Color Temp: 5600°K CRI: 85
BALLAST:	Integrated electronic ballast with universal input and power factor correction.
REFLECTOR:	Modified parabolic, multifaceted reflector finished with a metal cold mirror dichroic coating.
UV FILTER:	Internal coated filter. Rejects greater than 99% of ultra-violet radiation.
LENSES:	Four heat resistant, molded borosilicate glass lenses included: Very Narrow Spot, Narrow Spot, 8-Row Lenticular, and 12-Row Lenticular.
OUTPUT:	30,000 lumens
COLOR:	Gel frame holder allows tool-free replacement of standard color gels.
TEMP RANGE:	-20° to 120° F (-29° to 49° C)
COOLING:	Ballast: forced air Head and Yoke: free convection
CONTROL:	Control by DMX512. Uses nine DMX512 channels.
POSITIONING:	Can be mounted and operated in any orientation.
SPACING:	Hangs on 20 inch (50.8 cm) centers.
WEIGHT:	44 lbs (19.96 kg)
POWER REQ.	120V/8A, 208V/4A
PROGRAMMABLE FUNCTIONS	
LAMP CONTROL:	Remote start and douse from console.
ROTATING LENS:	Programmable rotating front lens assembly with 200° range and 5 second full travel.
PAN AND TILT:	Smooth, timed continuous motion by way of three-phase stepper motors.
RANGE:	Pan - 360° and Tilt - 240° @ 60° per second.
ACCURACY:	0.3° resolution.

AutoPar™ Wash Luminaire Specifications

The unit shall be an integrally designed, remote-controlled, motorized wash luminaire. The head, yoke and enclosure housings shall be constructed of aluminum alloy and steel for lightweight strength and durability.

A single AC input cable along with two, five-pin DMX512 compatible connectors (in and thru) shall be provided. The unit shall be controlled by a wide variety of DMX512 consoles.

Each unit shall be equipped with an on-board processor providing diagnostic and self-calibration functions as well as internal test routines and software update capabilities.

The unit shall contain an electronic ignitor. A metal halide lamp ballast shall be used to power a 700W lamp. The ballast shall be an all-electronic, pulse start mechanism, which maintains constant power to the lamp for maximum efficiency and consistent light output and color. The ballast shall operate at a power factor greater than 0.98, and shall be cooled by forced air from a virtually silent fan.

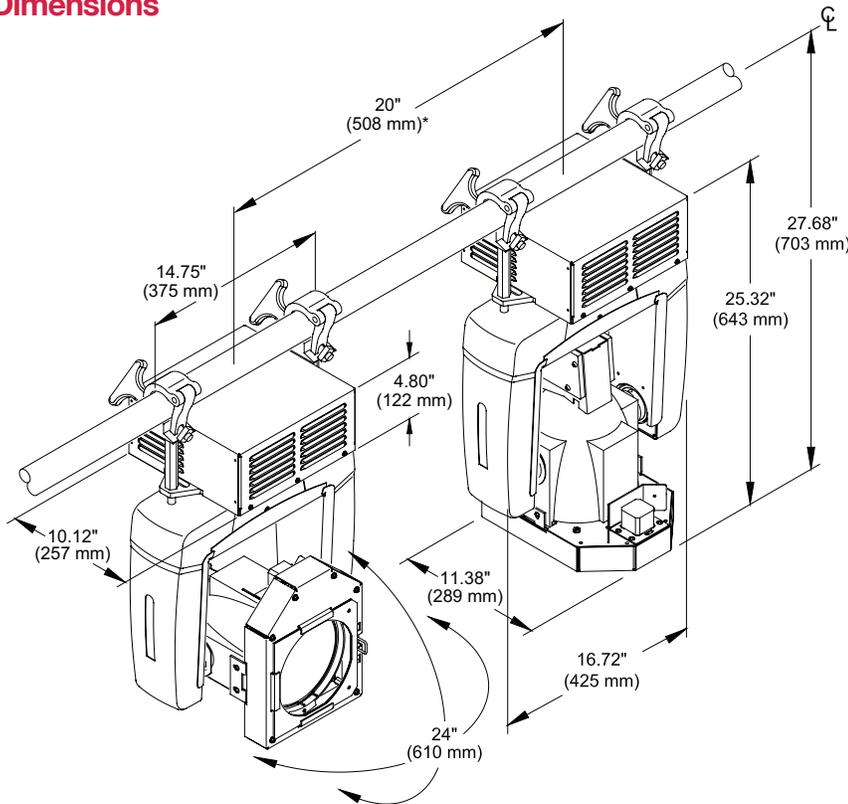
The unit shall contain two independent, three-phase stepper motors, which provide movement of the head through 360° in the horizontal plane (pan) and 240° in the vertical plane (tilt). The pan and tilt mechanisms shall be belt-driven, providing

positional resolution and repeatability of 0.3° on either axis.

The unit shall contain one standard, top-mounted gel frame holder. Four easily removable heat resistant, glass lenses shall be included: Very Narrow Spot, Narrow Spot, 8-Row Lenticular, and 12-Row Lenticular. An internal coated UV filter shall reject greater than 99% of ultra-violet radiation.

A safety cable shall be provided. Total weight shall not exceed 44 lbs (19.96 kg). The unit shall be UL and C-UL listed, CE-marked and PSE marked for Japan. Exterior finish shall be black epoxy coat.

Dimensions



POSITIONING:
Can be mounted in any orientation.

SPACING:
Hangs on 20 inch (50.8 cm) centers.

WEIGHT:
44 lbs (19.96 kg)

Photometric Data

AutoPar Wash Luminaire - MSR700 Lamp					
LENS	CANDELA (cd) **	BEAM ANGLE (degrees)	BEAM (Tn) *	FIELD ANGLE (degrees)	FIELD (Tn) *
VNSP	1,625,000	5°	0.087	14°	0.246
NSP	1,155,000	7.5°	0.131	15°	0.263
8-Row Horiz	360,000	18°	0.317	31°	0.555
8-Row Vert	360,000	12°	0.210	23°	0.407
12-Row Horiz	140,000	31°	0.555	50°	0.933
12-Row Vert	140,000	21°	0.371	33°	0.592

Beam Angle: The solid angle of a cone of light whose intensity at the edge is 50% of the center beam intensity.

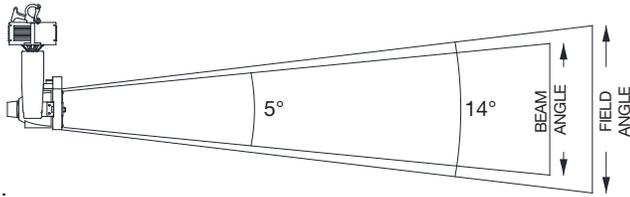
Field Angle: The solid angle of a cone of light whose intensity at the edge is 10% of the center beam intensity.

* Multiply throw distance by Tn to determine coverage.

** To calculate center beam illuminance (I) at a specific distance (D): $I = \frac{cd}{D^2}$
If (D) is in feet, (I) is in foot candles / If (D) is in meters, (I) is in lux

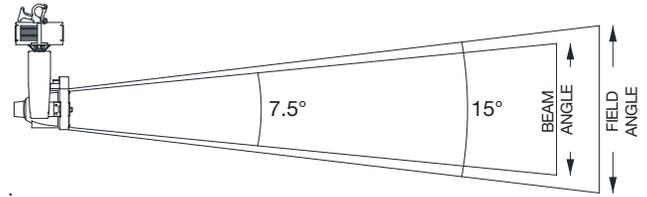
Photometric Data (continued)

AutoPar Wash Luminaire with VNSP Lens



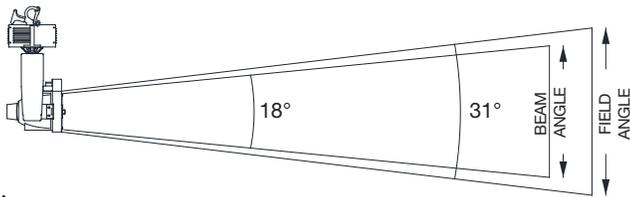
Throw Distance (D)	feet	30	50	70	85
	meters	9.1	15.2	21.3	25.9
Beam Diameter	feet	2.6	4.4	6.1	7.4
	meters	0.8	1.3	1.9	2.3
Field Diameter	feet	7.4	12.3	17.2	20.9
	meters	2.2	3.7	5.2	6.4
Illuminance (I)	fc	1806	650	332	225
	lux	19435	6997	3570	2421

AutoPar Wash Luminaire with NSP Lens



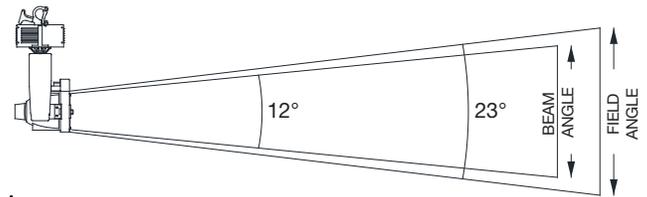
Throw Distance (D)	feet	25	40	60	75
	meters	7.6	12.2	18.3	22.9
Beam Diameter	feet	3.3	5.2	7.9	9.8
	meters	1.0	1.6	2.4	3.0
Field Diameter	feet	6.6	10.5	15.8	19.7
	meters	2.0	3.2	4.8	6.0
Illuminance (I)	fc	1848	722	321	205
	lux	19892	7770	3453	2210

AutoPar Wash Luminaire with 8 Row Horizontal Lens



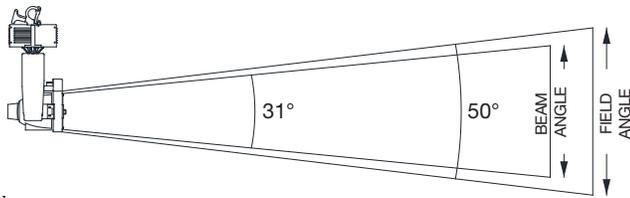
Throw Distance (D)	feet	14	23	32	40
	meters	4.3	7.0	9.8	12.2
Beam Diameter	feet	4.4	7.3	10.1	12.7
	meters	1.4	2.2	3.1	3.9
Field Diameter	feet	7.8	12.8	17.8	22.2
	meters	2.4	3.9	5.4	6.8
Illuminance (I)	fc	1837	681	352	225
	lux	19770	7325	3784	2422

AutoPar Wash Luminaire with 8 Row Vertical Lens



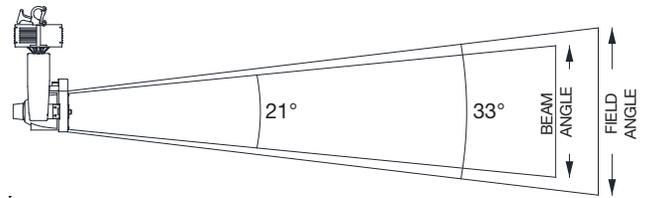
Throw Distance (D)	feet	14	23	32	40
	meters	4.3	7.0	9.8	12.2
Beam Diameter	feet	2.9	4.8	6.7	8.4
	meters	0.9	1.5	2.0	2.6
Field Diameter	feet	5.7	9.4	13.0	16.3
	meters	1.7	2.9	4.0	5.0
Illuminance (I)	fc	1837	681	352	225
	lux	19770	7325	3784	2422

AutoPar Wash Luminaire with 12 Row Horizontal Lens



Throw Distance (D)	feet	9	14	20	25
	meters	2.7	4.3	6.1	7.6
Beam Diameter	feet	5.0	7.8	11.1	13.9
	meters	1.5	2.4	3.4	4.2
Field Diameter	feet	8.4	13.1	18.7	23.3
	meters	2.6	4.0	5.7	7.1
Illuminance (I)	fc	1728	714	350	224
	lux	18604	7689	3767	2411

AutoPar Wash Luminaire with 12 Row Vertical Lens



Throw Distance (D)	feet	9	14	20	25
	meters	2.7	4.3	6.1	7.6
Beam Diameter	feet	3.3	5.2	7.4	9.3
	meters	1.0	1.6	2.3	2.8
Field Diameter	feet	5.3	8.3	11.8	14.8
	meters	1.6	2.5	3.6	4.5
Illuminance (I)	fc	1728	714	350	224
	lux	18604	7689	3767	2411

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