

Specifications - Alien 02

Spot

Physical

Length	312 mm (12.3 in)
Width	235 mm (9.3 in)
Weight	3.3 kg (7.3 lbs)
Mounting arm - length	135 mm (5.3 in)
Mounting arm - weight.	0.7 kg (1.5 lbs)

Installation

Mounting device	Alien 02 Mounting Arm
Orientation	Any
Beam orientation	+/-50° tilt, full pan
Minimum distance to combustible materials	1 m (39 in)
Minimum distance to illuminated surfaces.	0.5 m (20 in)
Standard cable separation between Alien 02 and 150W Base	1 m (40 in)
Max. cable separation between Alien 02 and 150W Base (with ext. kits).	16 m (52 ft)

Construction

Alien 02 housing	Aluminum and plastic
150W Base housing	Steel

Thermal

Maximum ambient temperature (Ta)	40° C (104° F)
Maximum surface temperature, steady state, Ta=40° C	80° C (176° F)

Maximum heat output

Measurement conditions	Single Alien 02 connected to a 150W Single Base
100 V @ 50 Hz	750 BTU/hour
100 V @ 60 Hz	700 BTU/hour
120 V @ 50 Hz	717 BTU/hour
120 V @ 60 Hz	700 BTU/hour
208 V @ 50 Hz	670 BTU/hour
208 V @ 60 Hz	650 BTU/hour
230 V @ 50 Hz	675 BTU/hour
230 V @ 60 Hz	710 BTU/hour
250 V @ 50 Hz	710 BTU/hour
250 V @ 60 Hz	685 BTU/hour

* These measurements have a margin of error of +/- 10%

Power supply (via 150W Base)

AC input to 150W Base	3-pin IEC male socket
Power output from 150W Base	3-pin IEC female socket
Power connection from 150W Base to Alien 02	via built-in cable
Power supply options on 150W Base	100/120/208/230/250 V, 50/60 Hz

Maximum power and current

Measurement conditions	Single Alien 02 connected to a 150W Single Base
100 V @ 50 Hz	220 W, 2.8 A
100 V @ 60 Hz	205 W, 2.3 A
120 V @ 50 Hz	210 W, 2.1 A
120 V @ 60 Hz	205 W, 1.8 A
208 V @ 50 Hz	196 W, 1.2 A
208 V @ 60 Hz	190 W, 1 A
230 V @ 50 Hz	198 W, 1 A
230 V @ 60 Hz	193 W, 0.9 A
250 V @ 50 Hz	208 W, 1 A
250 V @ 60 Hz	201 W, 0.9 A

* These measurements have a margin of error of +/- 10%

Measurement conditions	Two Alien 02s connected to a 150W Double Base
100 V @ 50 Hz	423 W, 5.1 A
100 V @ 60 Hz	408 W, 4.3 A
120 V @ 50 Hz	418 W, 3.9 A
120 V @ 60 Hz	410 W, 3.5 A
208 V @ 50 Hz	386 W, 2.3 A
208 V @ 60 Hz	378 W, 2 A
230 V @ 50 Hz	393 W, 1.9 A
230 V @ 60 Hz	389 W, 1.8 A
250 V @ 50 Hz	412 W, 1.9 A
250 V @ 60 Hz	409 W, 1.7 A

* These measurements have a margin of error of +/- 10%

Source

Lamp	150 W discharge
Lamp base type	GY 12
Approved models	Philips CDM-SA/T, General Electric CMH, Osram HQI-R
Control	remote switchable

Dynamic effects

Cyan filter	0 - 100%
Magenta filter	0 - 100%
Yellow filter	0 - 100%
Dimmer	0 - 100%

Control & Programming (via 150W Base)

Control options	DMX-512, Martin remote control, stand-alone, master/slave
Receiver	RS-485
Setting and addressing	3-digit LCD control panel
Firmware update	Serial upload (MUF)
Stand-alone trigger options	Real-time clock with timer
Stand-alone memory	20 scenes
Data input	3-pin XLR male, RJ-45
Data output	3-pin XLR female, RJ-45
Data pin out	Pin 1 shield, pin 2 cold (-), pin 3 hot (+)
DMX channels	7

Ordering information

Alien 02 Spot	P/N 90345000
Alien 02 Spot 135 mm (5.3 in) mounting arm	P/N 91611048
150W Single Base	P/N 90724000
150W Double Base	P/N 90724200

Included items

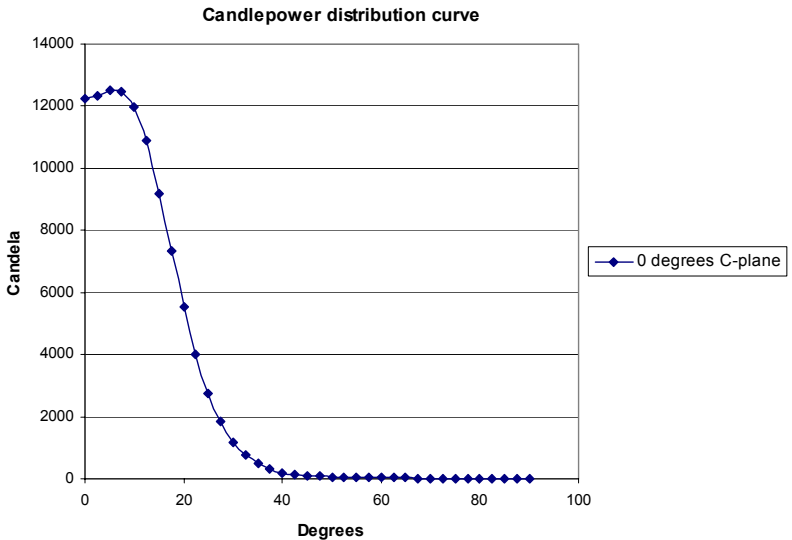
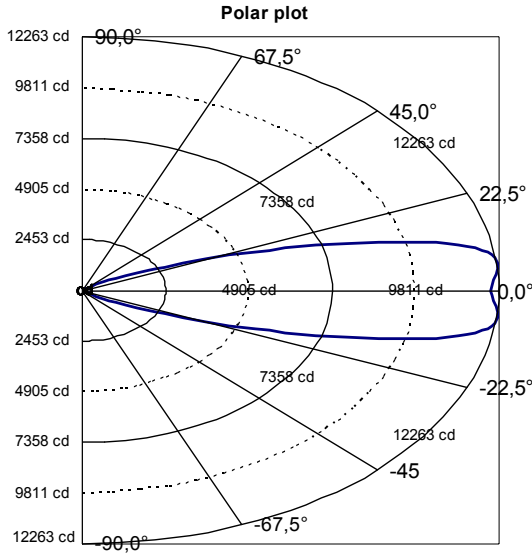
User manual
Philips CDM-SA/T 150 W discharge lamp

Accessories

36° Fresnel lens	P/N 91610022
90° x 70° beam shaper lens	P/N 91610023
Micro lens diffuser	P/N 91610024
Barndoor kit	P/N 91611057
Glare control kit	P/N 91611066
MP-2 uploader	P/N 90758420
MC-X Controller, 220 - 245 V / 50 Hz	P/N 90718200
MC-X Controller, 110 - 120 V / 60 Hz	P/N 90718300
Philips CDM-SA/T 150 W lamp	P/N 97010111
Osram HQI-R 150W	P/N 97010101
2-meter cable extension kit	P/N 91611051
5-meter cable extension kit	P/N 91611060
10-meter cable extension kit	P/N 91611061

Photometrics - Diffuser lens (fitted as standard)

Efficiency	39%
Half peak angle.....	38°
One-tenth-peak angle.....	60°
Illuminance .....	.12263/distance ² lux
Half-peak diameter	0.64 x distance m
One-tenth-peak diameter	0.99 x distance m
Measurement conditions.....	230V, 50Hz, no color applied
Measurement source	Philips CDM-SA/T 150W



Illumination

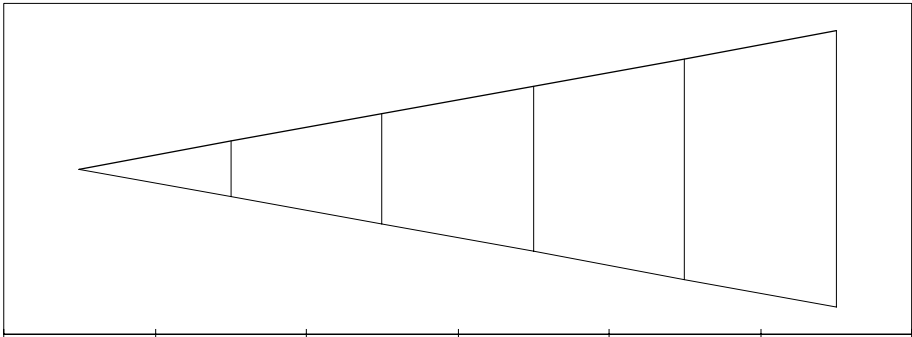
12263 lux

491 lux

123 lux

31 lux

14 lux



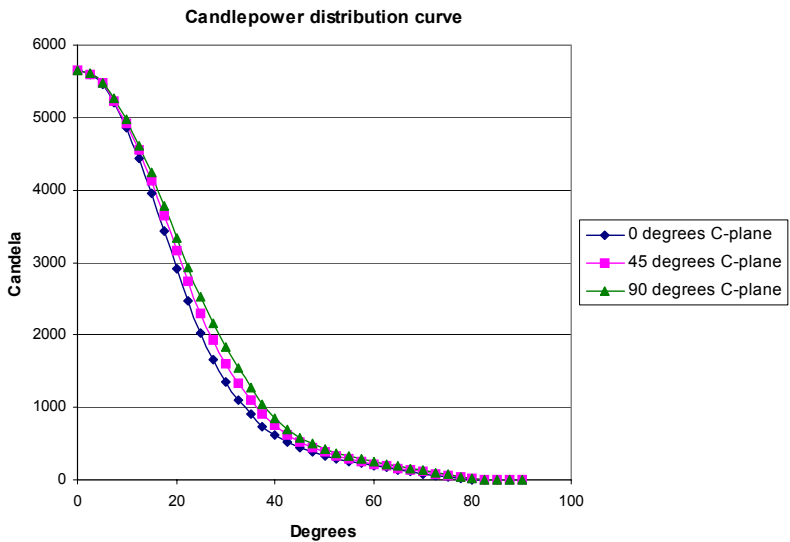
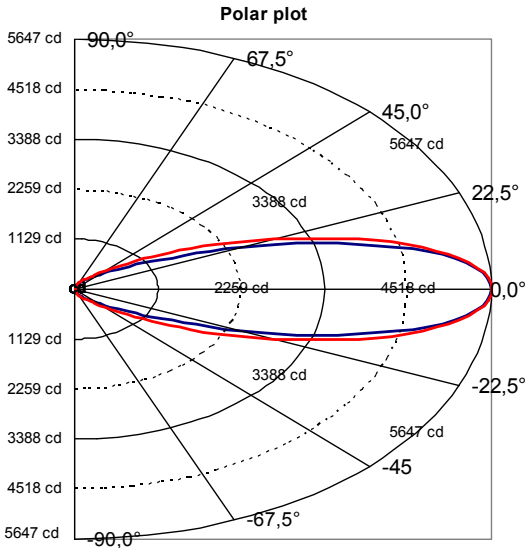
Distance	1 m	5 m	10 m	20 m	30 m
Field diameter 10%	1, m	4,9 m	9,9 m	19,7 m	29,6 m
Field diameter 50%	0,6 m	3,2 m	6,4 m	12,7 m	19,1 m

Distance/field diameter

** For conversion to imperial units, multiply meters by 3.28 to get feet, and Lux by 0.093 for get footcandles.*

Photometrics - Beam shaper lens

Efficiency	.....	31%
Half peak angle	.....	.41° / 46° 0/90 degrees
One-tenth-peak angle	.....	.83° / 91° 0/90 degrees
Illuminance	.....	5647/distance ² lux
Half-peak diameter	.....	0.75 x distance m
One-tenth-peak diameter	.....	1.38 x distance m
Measurement conditions	.....	230V, 50Hz, no color applied
Measurement source	.....	Philips CDM-SA/T 150W



Illumination

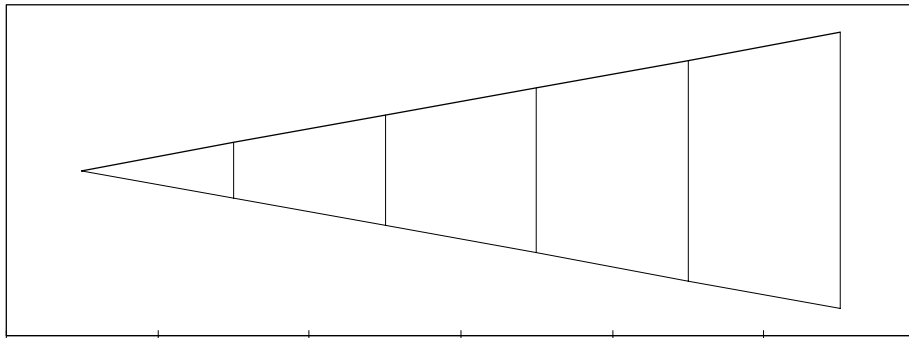
5647 lux

226 lux

56 lux

14 lux

6 lux

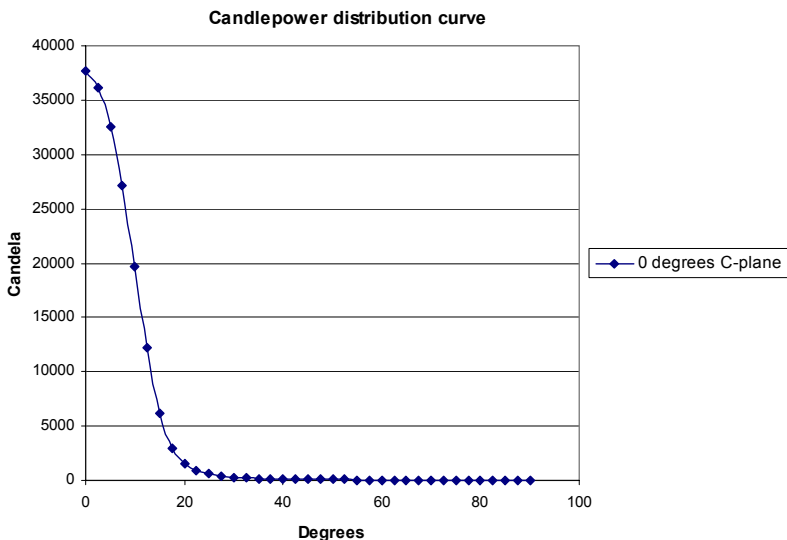
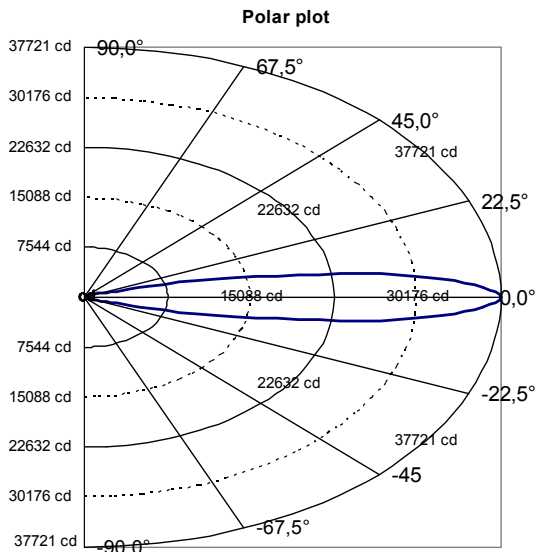


Distance	1 m	5 m	10 m	20 m	30 m
Field diameter 10%	1,4 m	6,9 m	13,8 m	27,6 m	41,4 m
Field diameter 50%	0,7 m	3,7 m	7,5 m	14,9 m	22,4 m
Distance/field diameter					

** For conversion to imperial units, multiply meters by 3.28 to get feet, and Lux by 0.093 for get footcandles.*

Photometrics - Fresnel lens

Efficiency	.....	38%
Half peak angle	.....	21°
One-tenth-peak angle	.....	34°
Illuminance	.....	$37721/\text{distance}^2$ lux
Half-peak diameter	.....	0.35 x distance m
One-tenth-peak diameter	.....	0.58 x distance m
Measurement conditions	.....	230V, 50Hz, no color applied
Measurement source	.....	Philips CDM-SA/T 150W



Illumination

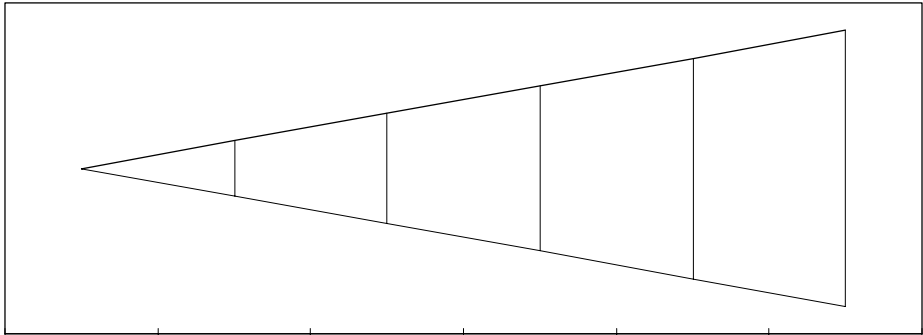
37721 lux

1509 lux

377 lux

94 lux

42 lux



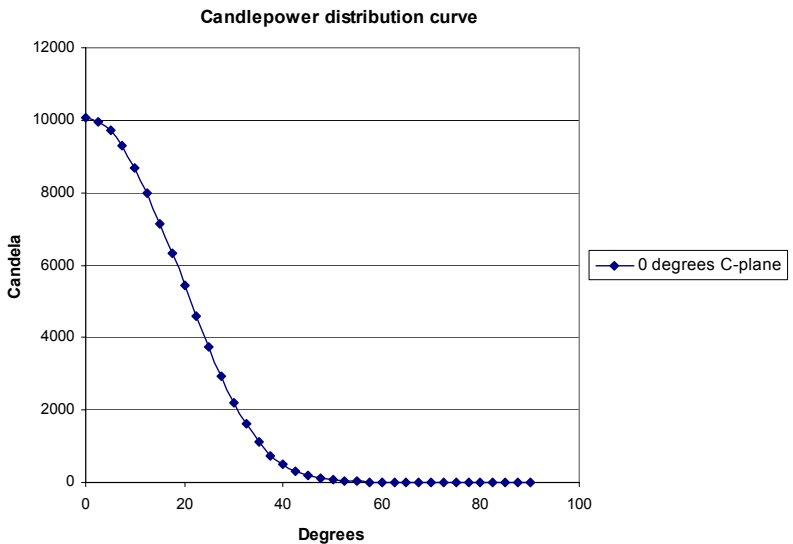
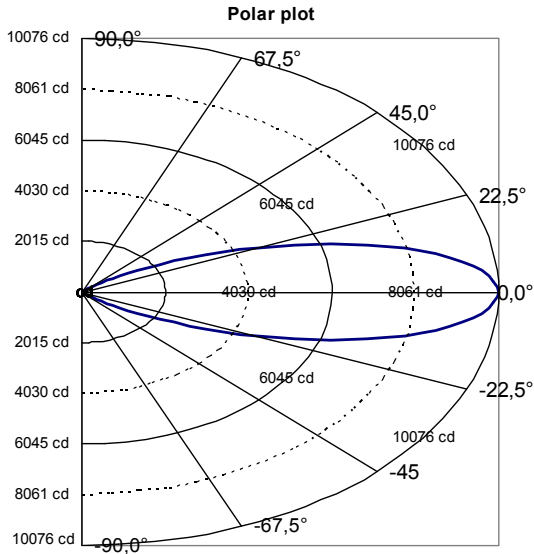
Distance	1 m	5 m	10 m	20 m	30 m
Field diameter 10%	0,6 m	2,9 m	5,8 m	11,6 m	17,3 m
Field diameter 50%	0,4 m	1,8 m	3,5 m	7,1 m	10,6 m

Distance/field diameter

** For conversion to imperial units, multiply meters by 3.28 to get feet, and Lux by 0.093 for get footcandles.*

Photometrics - Super-wide lens

Efficiency	40%
Half peak angle.....	42°
One-tenth-peak angle.....	71°
Illuminance	10076/distance ² lux
Half-peak diameter	0.72 x distance m
One-tenth-peak diameter	1.17 x distance m
Measurement conditions.....	230V, 50Hz, no color applied
Measurement source	Philips CDM-SA/T 150W



Illumination

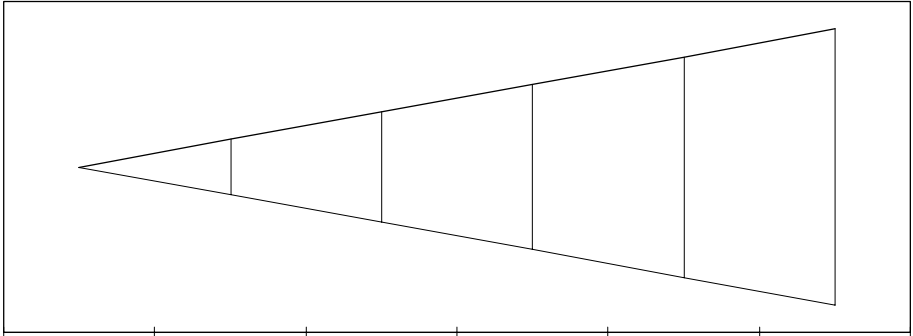
10076 lux

403 lux

101 lux

25 lux

11 lux



Distance	1 m	5 m	10 m	20 m	30 m
Field diameter 10%	1,2 m	5,9 m	11,7 m	23,4 m	35,1 m
Field diameter 50%	0,7 m	3,6 m	7,2 m	14,4 m	21,6 m

Distance/field diameter

** For conversion to imperial units, multiply meters by 3.28 to get feet, and Lux by 0.093 for get footcandles.*