Specifications - Alien 02 Pendant

Physical

Length . . . . . 800 mm (31.5 in.)
Width . . . . . 300 mm (12 in.)
Diameter of lamp . . . . . 235 mm (9.3 in)
Weight . . . . . 5.4 kg (11.9 lbs)

Installation

Mounting device . . . . . Alien 02 J-Box
Orientation . . . . . Ceiling mount
Beam orientation . . . . . Full pan, upwards or downwards, 2-position +/- 50° tilt
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
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, host/client
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 Pendant	P/N 90345100
J-Box	P/N 91611065
150W Single Base	P/N 90724000
150W Double Base	P/N 90724200

Included items

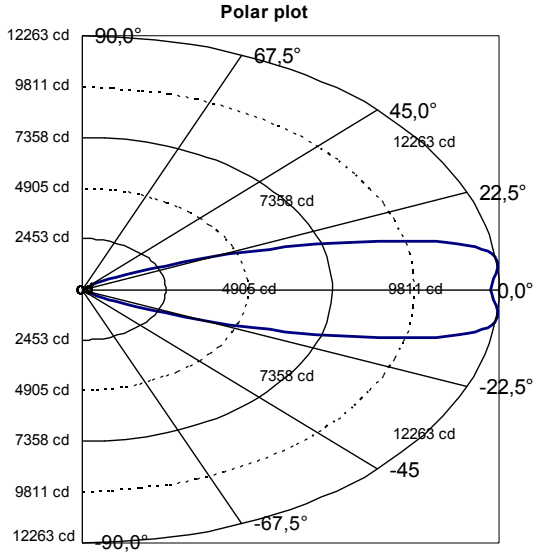
User manual
Philips CDM-SA/T 150 W discharge lamp
3 mm Allen wrench

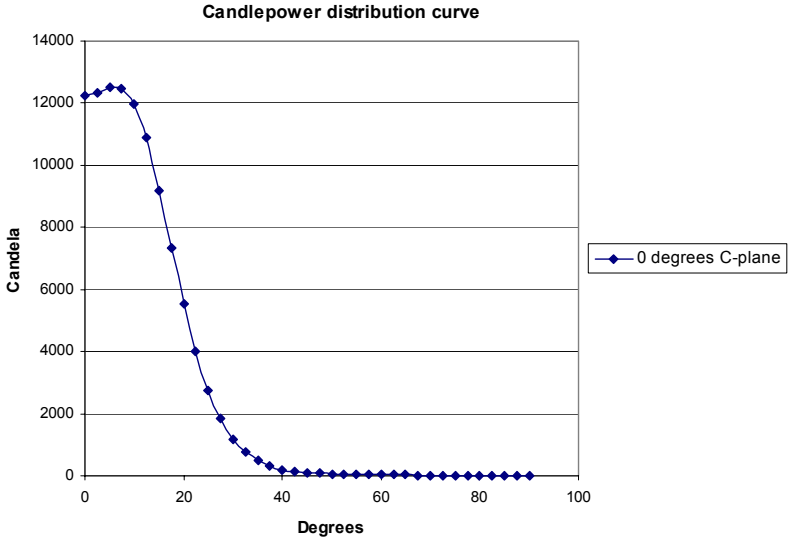
Accessories

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)

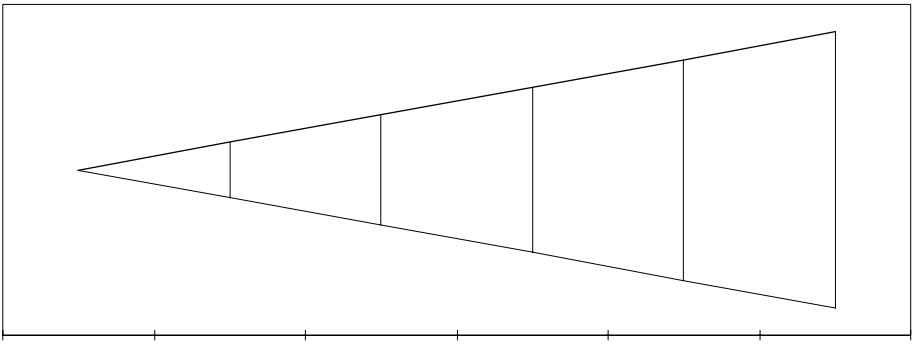
Efficiency	39%
Half peak angle	38º
One-tenth-peak angle	60º
Illuminance	12263/distance² lux
Half-peak diameter	0.64 x distance m
One-tenth-peak diameter	0.99 x distance m
Measurement conditions	230V, 50Hz, no color applied
Measurement source	Philips CDM-SA/T 150W





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

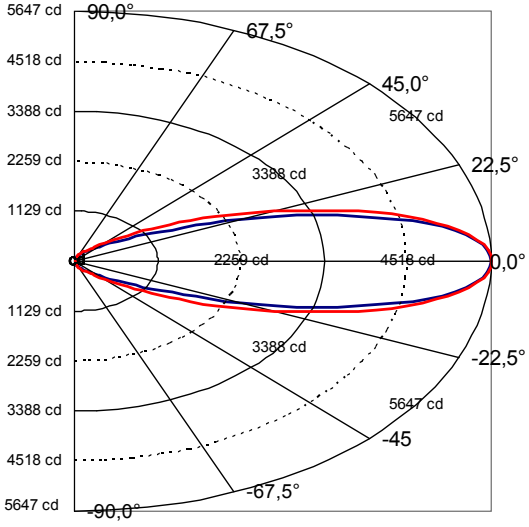
Distance/field diameter

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

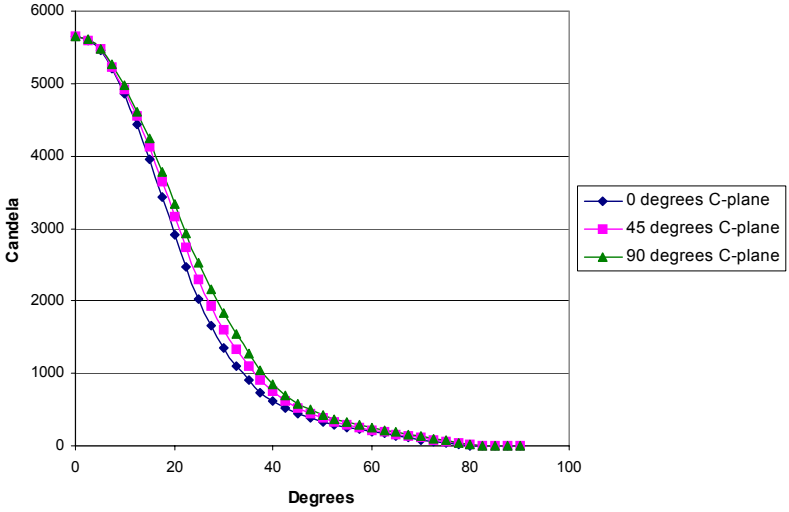
Photometrics - Beam shaper lens

Efficiency	31%
Half peak angle	41º / 46º 0/90 degrees
One-tenth-peak angle	83º / 91º 0/90 degrees
Illuminance	.5647/distance² 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

Polar plot

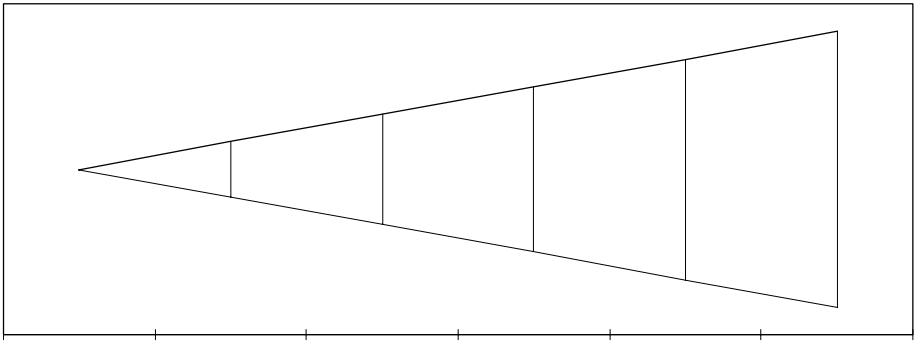


Candlepower distribution curve



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 diamter 50%	0,7 m	3,7 m	7,5 m	14,9 m	22,4 m

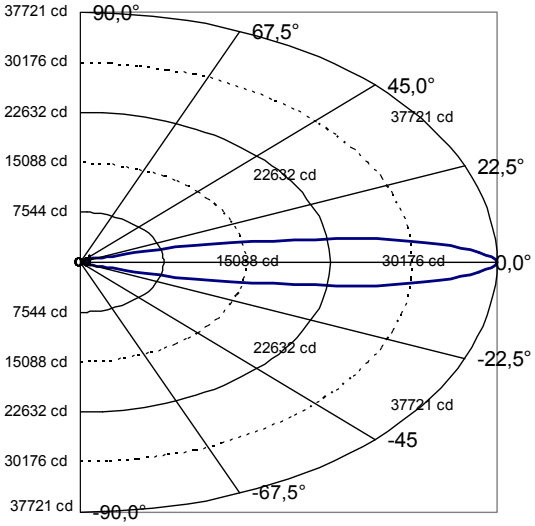
Distance/field diameter

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

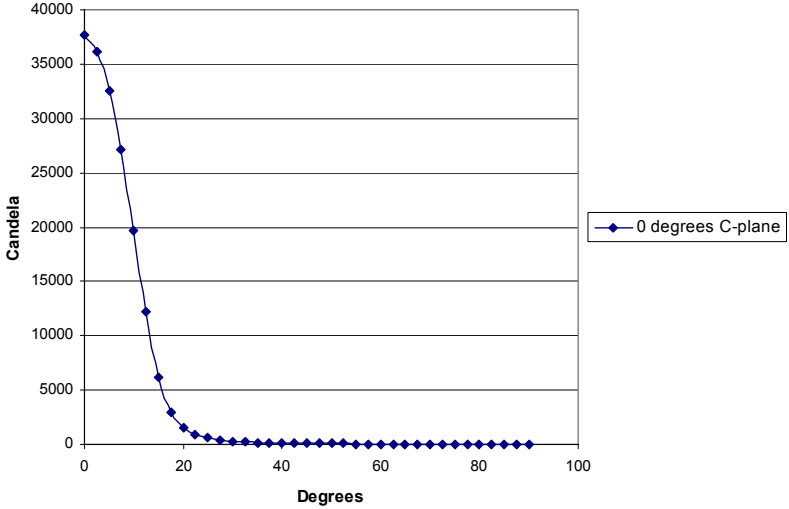
Photometrics - Fresnel lens

Efficiency	38%
Half peak angle	21º
One-tenth-peak angle	34º
Illuminance	37721/distance² 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

Polar plot

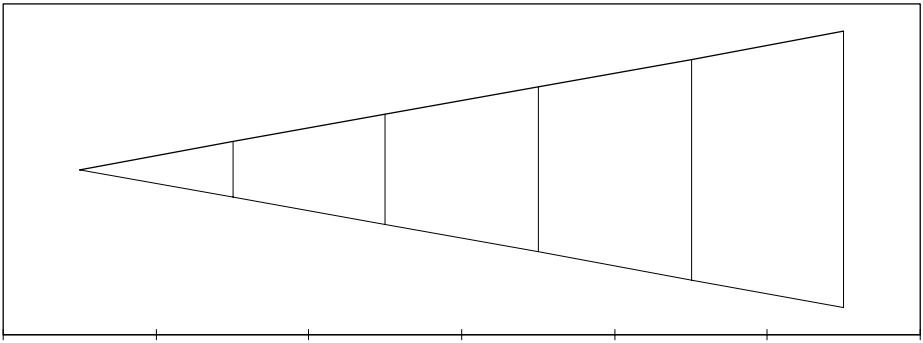


Candlepower distribution curve



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

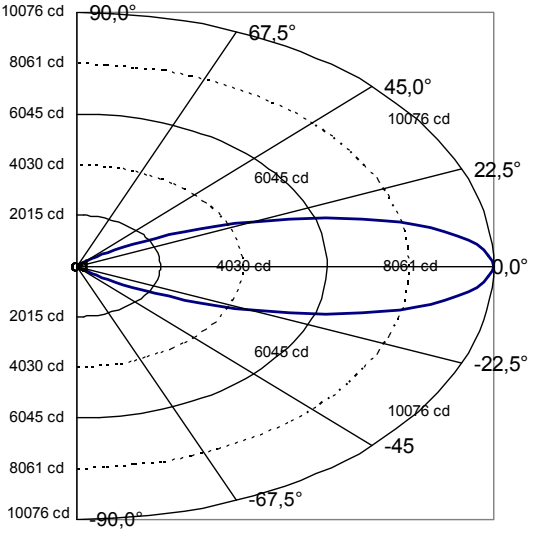
Distance/field diameter

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

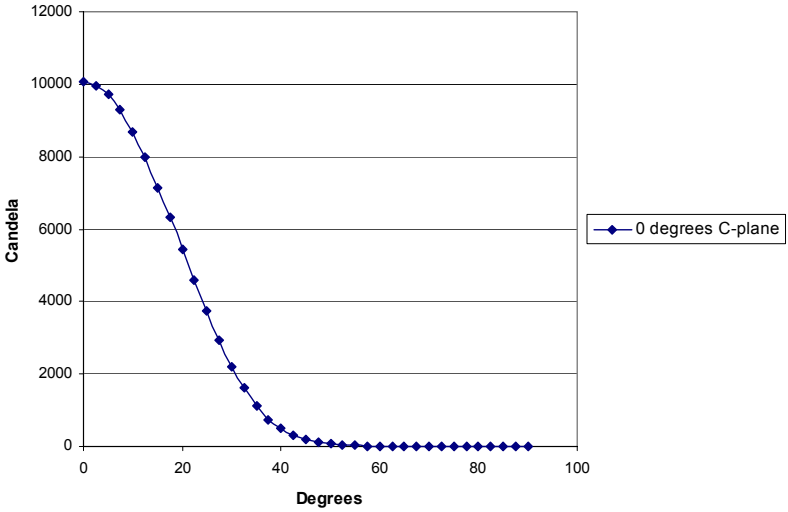
Photometrics - Super-wide lens

Efficiency	40%
Half peak angle	42º
One-tenth-peak angle	71º
Illuminance	10076/distance² 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

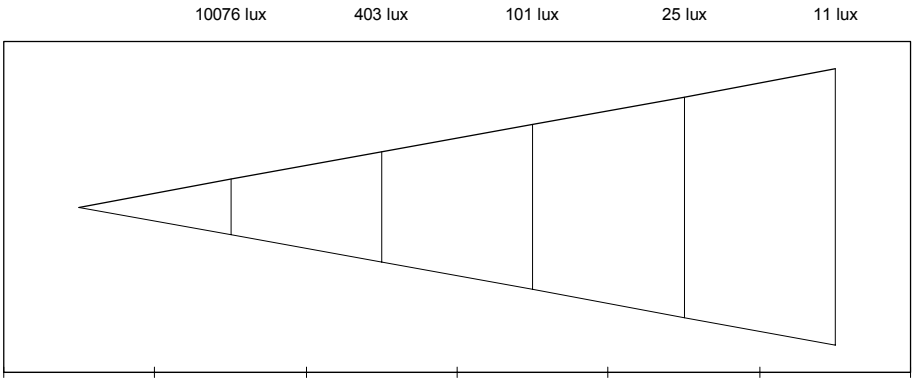
Polar plot



Candlepower distribution curve



Illumination



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.*