Technical Brochure

coemar
Light Emotion

Infinity Spot M

Infinity Series

∞ Infinity

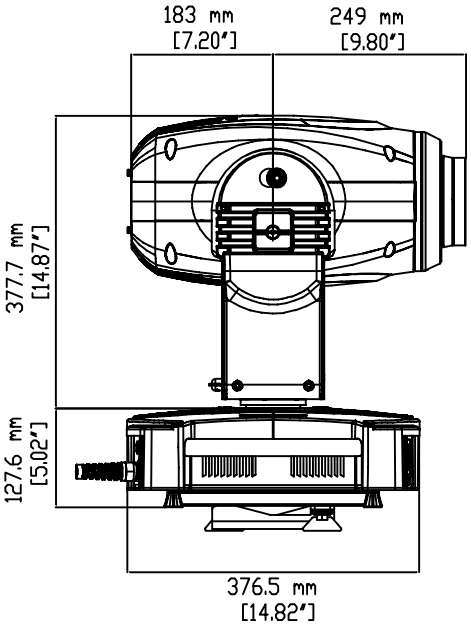
Spot M

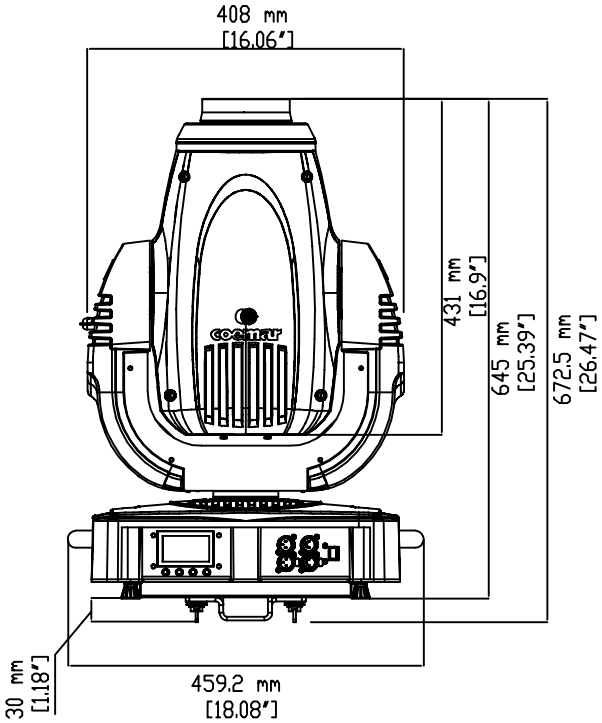
KEY FEATURES

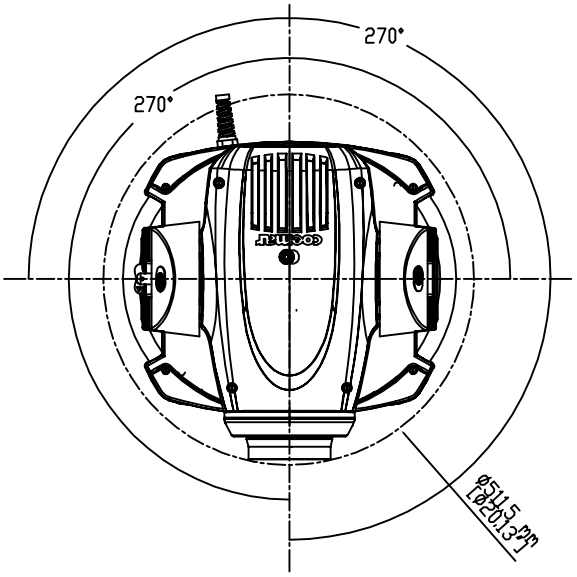
- "MULTI-lamp" ready (Patented)
- **Tungsten and discharge lamps compatible for multiple applications**
- **New superfast zoom mode, from 42° to 9° in .4s**
- **HD quality projection, dimming & CMY**
- **Space, weight, power saving**
- **Fully equipped effects engine**
- **Artnet ready**
- **New digital ballast technology**

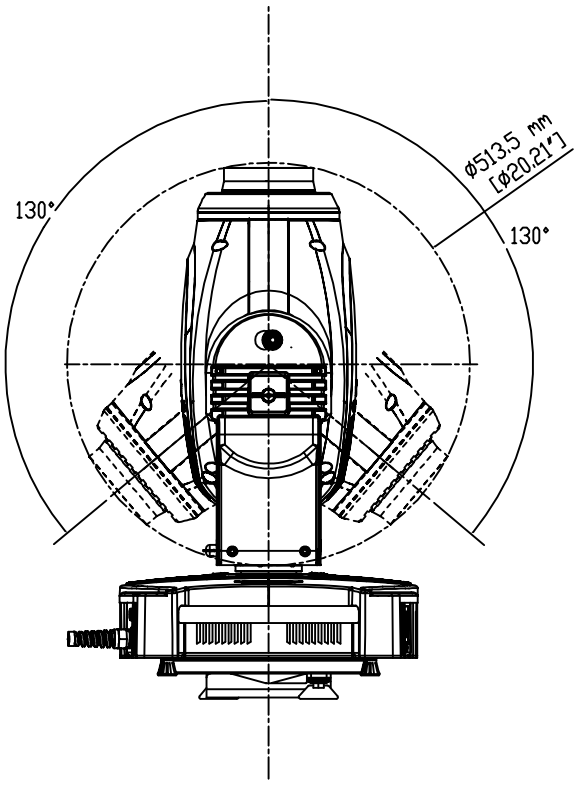
Infinity Spot M
SPECIFICATIONS
CMY color mixing
5 colors + open
CTO filter
1 aerial wheel, 7 gobos + open
1 break-up wheel, 7 gobos + open
2 rotating prisms
Film frame effect
Focus
Proportional zoom 9° - 42°
Proportional frost
Iris
Dimmer
Mechanical and electronic strobe (zap effect), synchronized, random, pulse effect
Modular design for easy maintenance and servicing
Pan 540°, Tilt 284°, 16 bit
PHYSICAL SIZE
Length: 459 mm (18.1 in)
Width: 377 mm (14.8 in)
Height: 602 mm (23.7 in), head straight up
Weight: 27 kg (59.2 lbs)
LAMP AND BALLAST
Type: Philips MSR Gold 575/2, Philips MSR Gold 700/2
Mini FastFit, MULTI-lamp ready
Color temperature: 7400 Kelvin
Color rendering index: 71
Avarage lamp life: 750 hours
Socket: PGJX28
Digital electronic ballast with Power Factor Correction
CONTROL PROTOCOL AND PROGRAMMING
USITT DMX512A
Artnet, Artnet to DMX converter
DMX Channels: 23/24
Setting and addressing: LCD display or remotely
ELECTRICAL SPECIFICATIONS/CONNECTIONS
AC power: 90-260 V, auto sensing, 50/60 Hz, 2 m (6.6 ft) integral cable without power plug
Power consumption (with MSR Gold 700/2): 4.5 A at 230 V, 9.5 A at 115 V
DMX data in/out: 3 pin and 5 pin locking XLR
Ethernet RJ45 port

Infinity Spot M - Drawing Size









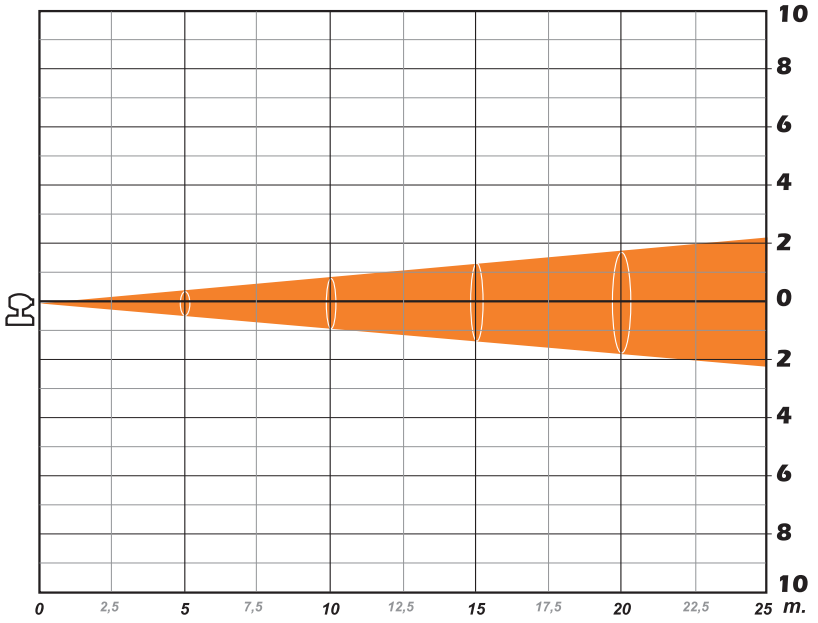
DMX Chart 24 Channels (16 bit)	
channel	**effect**
1	X axis, base movement (pan) coarse
2	X axis, base movement (pan) fine
3	Y axis, yoke movement (tilt) coarse
4	Y axis, yoke movement (tilt) fine
5	movement speed
6	dimmer
7	strobe, shutter and zap effect
8	iris diaphragm (LIN-Linear)
8	iris diaphragm (with internal PULS effect)
Note 1: the iris diaphragm operation will vary according to the selection made for IRIS on the display panel (linear LIN or with internal PULS effect)	
9	zoom
10	focus
11	aerial gobo selection (standard)
11	aerial gobo selection (effect activated from channel 23/22)
Note 2: gobo selection movement will vary according to the selection made for channel 23 (16 bit) / 22 (8 bit)	
12	indexing gobo rotation through 360°
13	fine indexing of the gobos 16 bit
14	gobo rotation
Note 3: when channel 12 is set to a level between 0 and 10, gobo rotation (channel 14, 16 bit and channel 13, 8 bit) does not effect indexing, the gobo stops instantly	
15	break up gobo selection (standard)
15	break up gobo selection (effect activated from channel 23/22)
Note 4: gobo selection movement will vary according to the selection made for channel 23 (16 bit) / 22 (8 bit)	
16	effects selection
17	effect index-rotation through 360°
18	color wheel selection
19	cyan
20	magenta
21	yellow
22	zap effect (effect varies depending upon channel 7 strobe)
22	halogen dimmer curve (effect varies depending upon channel 6 dimmer)
Note 5: when using halogen lamp, channel 22 (16 bit) / 21 (8 bit), allow the selection of the curve which can be a combination of the characteristic dimming lamp and/or mechanical dimmer	
23	gobo effect selection
24	lamp on/off and motors reset
Note 6: the display panel may be used to disable the switching off of the lamp via DMX	
Note 7: turning off the lamp and all reset functions are delayed by 6 seconds to prevent accidental activation	
Note 8: the lamp on/off function can only be effected if an opposite level is set	

DMX Chart 23 Channels (8 bit)	
channel	**effect**
1	X axis, base movement (pan) coarse
2	X axis, base movement (pan) fine
3	Y axis, yoke movement (tilt) coarse
4	Y axis, yoke movement (tilt) fine
5	movement speed
6	dimmer
7	strobe, shutter and zap effect
8	iris diaphragm (LIN-Linear)
8	iris diaphragm (with internal PULS effect)
Note 1: the iris diaphragm operation will vary according to the selection made for IRIS on the display panel (linear LIN or with internal PULS effect)	
9	zoom
10	focus
11	aerial gobo selection (standard)
11	aerial gobo selection (effect activated from channel 23/22)
Note 2: gobo selection movement will vary according to the selection made for channel 23 (16 bit) / 22 (8 bit)	
12	indexing gobo rotation through 360°
13	gobo rotation
Note 3: when channel 12 is set to a level between 0 and 10, gobo rotation (channel 14, 16 bit and channel 13, 8 bit) does not effect indexing, the gobo stops instantly	
14	break up gobo selection (standard)
14	break up gobo selection (effect activated from channel 23/22)
Note 4: gobo selection movement will vary according to the selection made for channel 23 (16 bit) / 22 (8 bit)	
15	effects selection
16	effect index-rotation through 360°
17	color wheel selection
18	cyan
19	magenta
20	yellow
21	zap effect (effect varies depending upon channel 7 strobe)
21	halogen dimmer curve (effect varies depending upon channel 6 dimmer)
Note 5: when using halogen lamp, channel 22 (16 bit) / 21 (8 bit), allow the selection of the curve which can be a combination of the characteristic dimming lamp and/or mechanical dimmer	
22	gobo effect selection
23	lamp on/off and motors reset
Note 6: the display panel may be used to disable the switching off of the lamp via DMX	
Note 7: turning off the lamp and all reset functions are delayed by 6 seconds to prevent accidental activation	
Note 8: the lamp on/off function can only be effected if an opposite level is set	

Infinity Spot M - Photometrics Data (750W halogen minifast fit)

Zoom min.

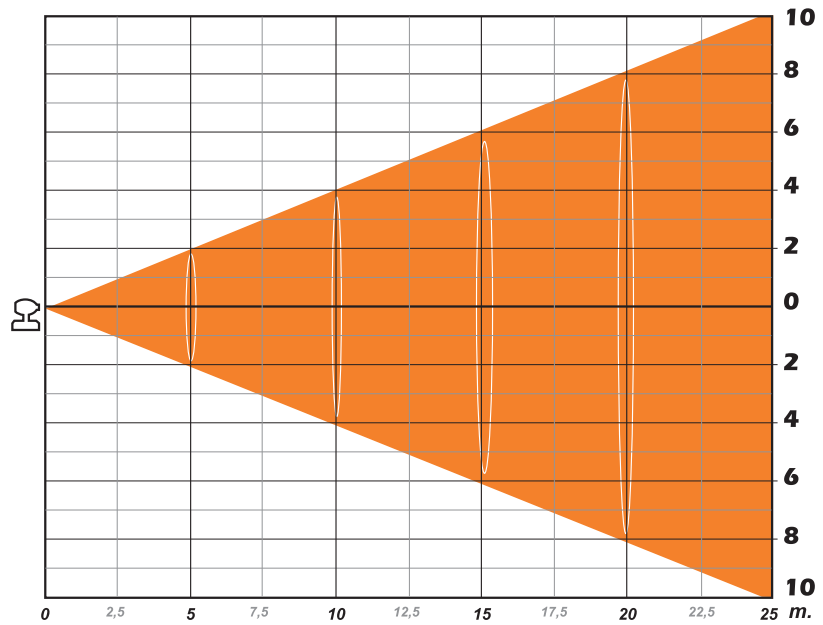
Distance (m.)	2,5	5	7,5	10	12,5	15	17,5	20	22,5	25	Lumen
Luminous emittance (Lux)	19800	4950	2200	1238	792	550	404	309	244	198	2958
ø m.	0,44	0,87	1,31	1,75	2,19	2,62	3,06	3,50	3,94	4,37	



Angle: 10°

Zoom max.

Distance (m.)	2,5	5	7,5	10	12,5	15	17,5	20	22,5	25	Lumen
Luminous emittance (Lux)	1240	310	138	78	50	34	25	19	15	12	3574
ø m.	2,02	4,04	6,06	8,08	10,10	12,12	14,14	16,16	18,18	20,20	

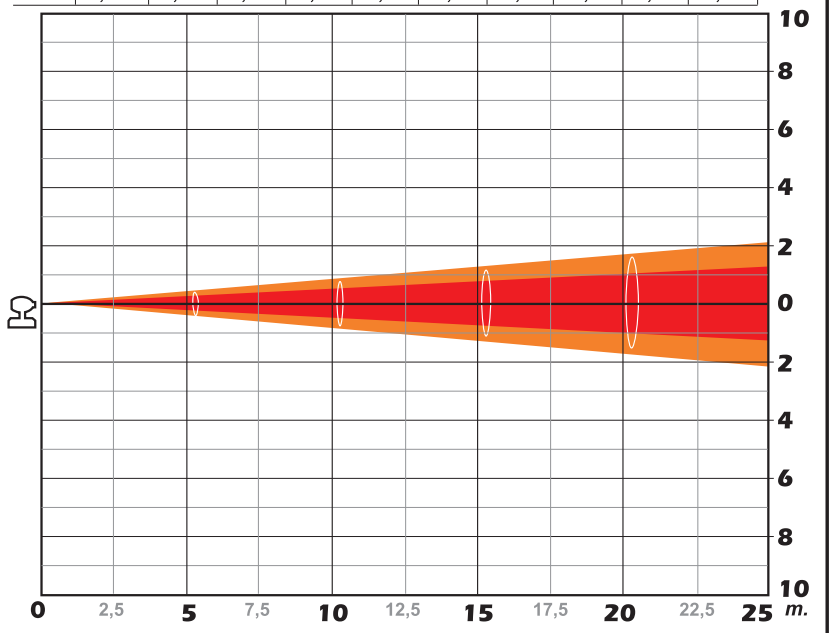


Angle: 44°

Infinity Spot M - Photometrics Data (750W halogen minifast fit)

Zoom min. with Frost

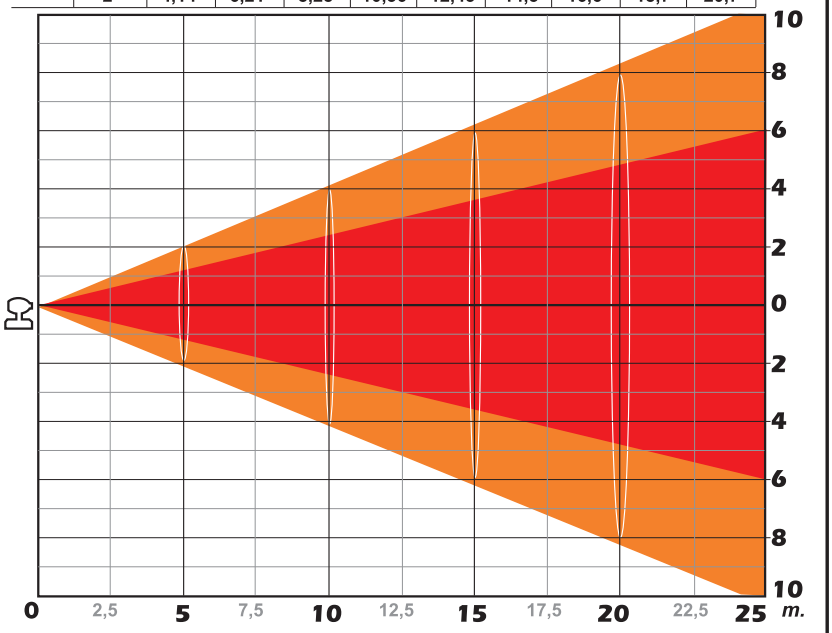
Distance (m.)	2,5	5	7,5	10	12,5	15	17,5	20	22,5	25	Lumen
Luminous emittance (Lux)	16000	4000	1778	1000	640	444	327	250	198	160	777
1/2 peak angle ø (m.)	0,25	0,5	0,75	1	1,24	1,49	1,74	1,99	2,24	2,49	
1/10 peak angle ø (m.)	0,44	0,87	1,31	1,75	2,19	2,62	3,06	3,05	3,94	4,37	



1/2 peak angle: 5,7° | **1/10 peak angle: 10°**

Zoom max. with Frost

Distance (m.)	2,5	5	7,5	10	12,5	15	17,5	20	22,5	25	Lumen
Luminous emittance (Lux)	1016	254	133	64	41	28	21	16	13	10	1112
1/2 peak angle ø (m.)	1,20	2,40	3,60	4,80	6	7,20	8,40	9,60	10,8	12	
1/10 peak angle ø (m.)	2	4,14	6,21	8,28	10,36	12,43	14,5	16,6	18,7	20,7	

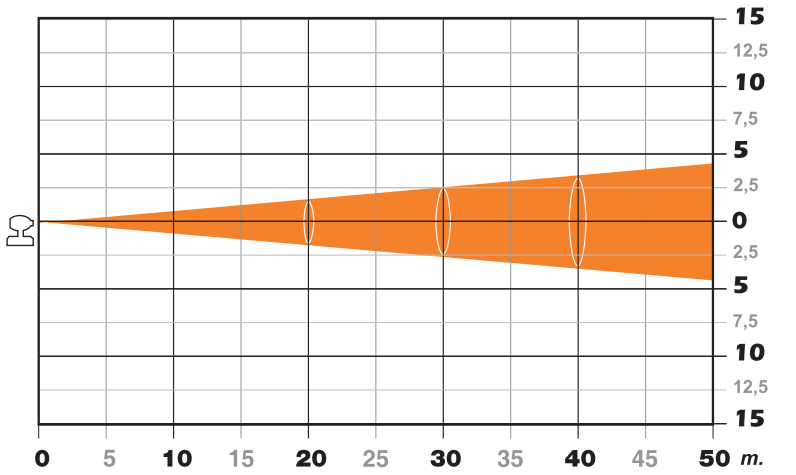


1/2 peak angle: 27° | **1/10 peak angle: 45°**

Infinity Spot M - Photometrics Data (Philips MSR GOLD 575 minifast fit)

Zoom min.

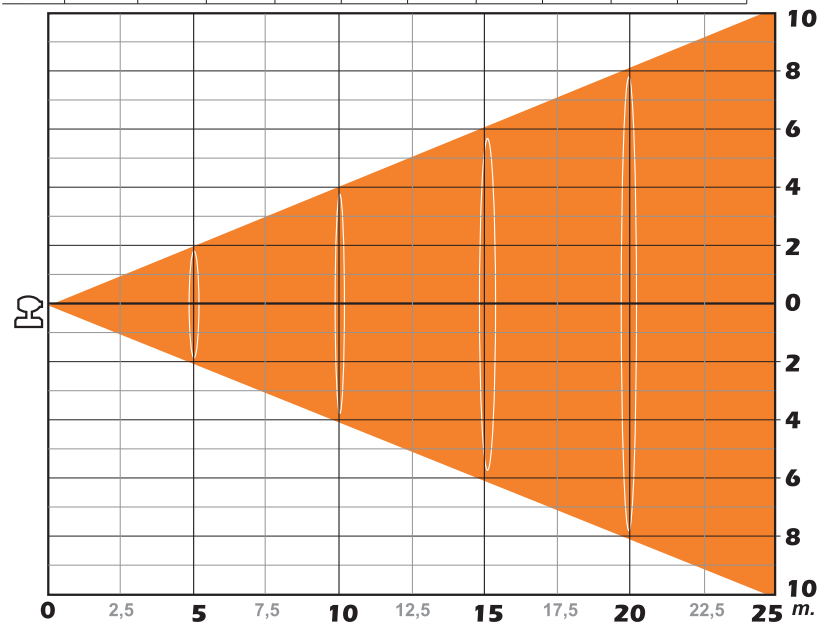
Distance (m.)	5	10	15	20	25	30	35	40	45	50	Lumen
Luminous emittance (Lux)	31200	7800	3467	1950	1248	867	637	488	457	370	18649
ø m.	0,87	1,75	2,62	3,50	4,37	5,25	6,12	7	7,87	8,75	



Angle: 10°

Zoom max.

Distance (m.)	2,5	5	7,5	10	12,5	15	17,5	20	22,5	25	Lumen
Luminous emittance (Lux)	7360	1840	818	460	294	204	150	115	91	74	21017
ø m.	2	4	6	8	10	12	14	16	18	20	

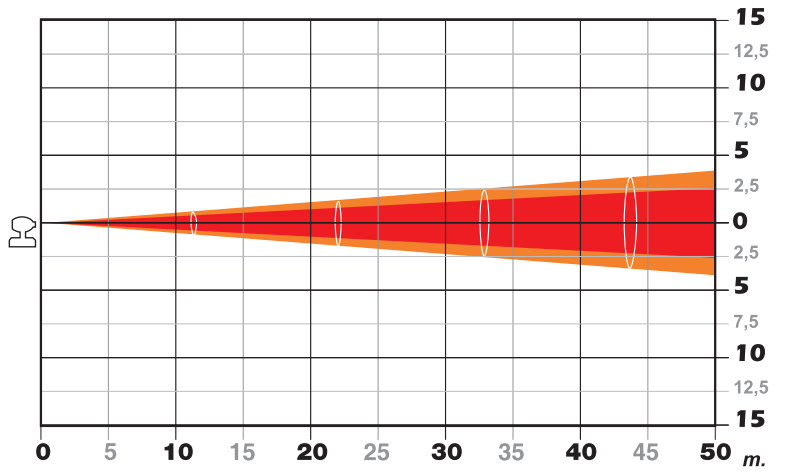


Angle: 44°

Infinity Spot M - Photometrics Data (Philips MSR GOLD 575 minifast fit)

Zoom min. with Frost

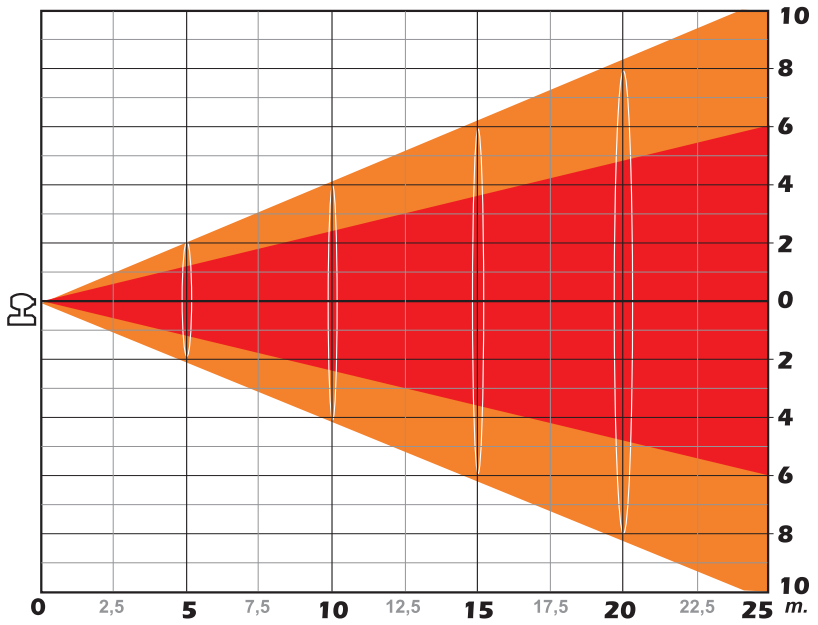
Distance (m.)	5	10	15	20	25	30	35	40	45	50	Lumen
Luminous emittance (Lux)	25000	6250	2778	1563	1000	694	510	391	309	250	4857
1/2 peak angle ø (m.)	0,5	1	1,49	2	2,49	3	3,48	3,98	4,48	4,98	
1/10 peak angle ø (m.)	0,87	1,75	2,62	3,50	4,37	5,25	6,12	7	7,87	8,75	



1/2 peak angle: 5,7° | **1/10 peak angle: 10°**

Zoom max. with Frost

Distance (m.)	2,5	5	7,5	10	12,5	15	17,5	20	22,5	25	Lumen
Luminous emittance (Lux)	6000	1500	667	375	240	167	122	94	74	60	6510
1/2 peak angle ø (m.)	1,20	2,40	3,60	4,80	6	7,20	8,40	9,60	10,8	12	
1/10 peak angle ø (m.)	2	4,14	6,21	8,28	10,36	12,43	14,5	16,6	18,7	20,7	

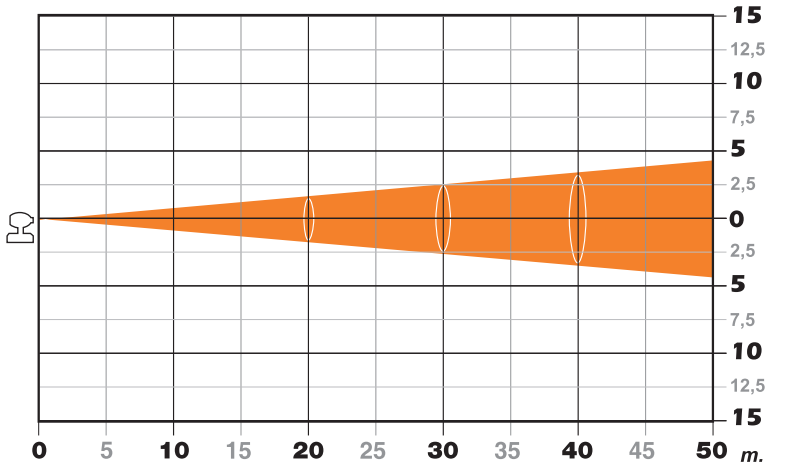


1/2 peak angle: 27° | **1/10 peak angle: 45°**

Infinity Spot M - Photometrics Data (Philips MSR GOLD 700 minifast fit)

Zoom min.

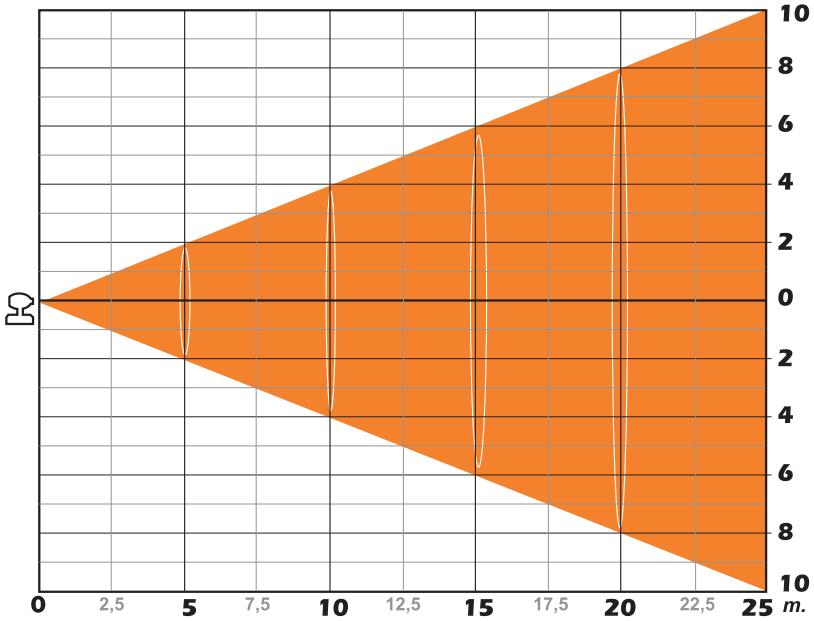
Distance (m.)	5	10	15	20	25	30	35	40	45	50	Lumen
Luminous emittance (Lux)	38502	9626	4278	2406	1540	1070	786	602	475	385	23010
ø m.	0,87	1,75	2,62	3,50	4,37	5,25	6,12	7	7,87	8,75	



Angle: 10°

Zoom max.

Distance (m.)	2,5	5	7,5	10	12,5	15	17,5	20	22,5	25	Lumen
Luminous emittance (Lux)	8240	2060	916	515	330	229	168	129	102	82	23562
ø m.	2	4	6	8	10	12	14	16	18	20	

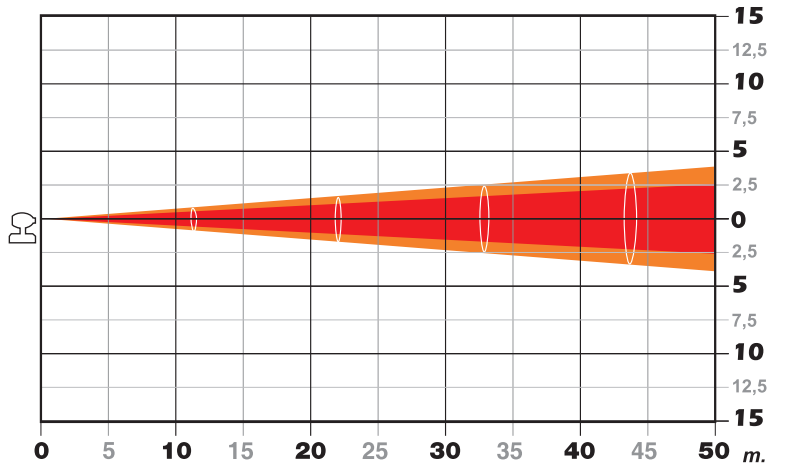


Angle: 44°

Infinity Spot M - Photometrics Data (Philips MSR GOLD 700 minifast fit)

Zoom min. with Frost

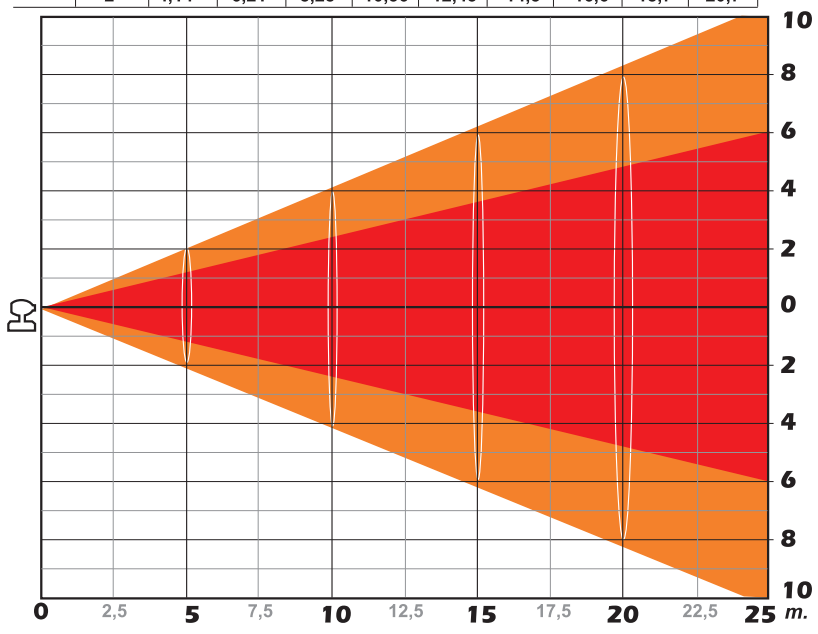
Distance (m.)	5	10	15	20	25	30	35	40	45	50	Lumen
Luminous emittance (Lux)	30000	7500	3333	1875	1200	833	612	469	370	300	5828
1/2 peak angle ø (m.)	0,5	1	1,49	2	2,49	3	3,48	3,98	4,48	4,98	
1/10 peak angle ø (m.)	0,87	1,75	2,62	3,50	4,37	5,25	6,12	7	7,87	8,75	



1/2 peak angle: 5,7° | **1/10 peak angle: 10°**

Zoom max. with Frost

Distance (m.)	2,5	5	7,5	10	12,5	15	17,5	20	22,5	25	Lumen
Luminous emittance (Lux)	6640	1660	738	415	266	184	136	104	82	66	7215
1/2 peak angle ø (m.)	1,20	2,40	3,60	4,80	6	7,20	8,40	9,60	10,8	12	
1/10 peak angle ø (m.)	2	4,14	6,21	8,28	10,36	12,43	14,5	16,6	18,7	20,7	



1/2 peak angle: 27° | **1/10 peak angle: 45°**

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