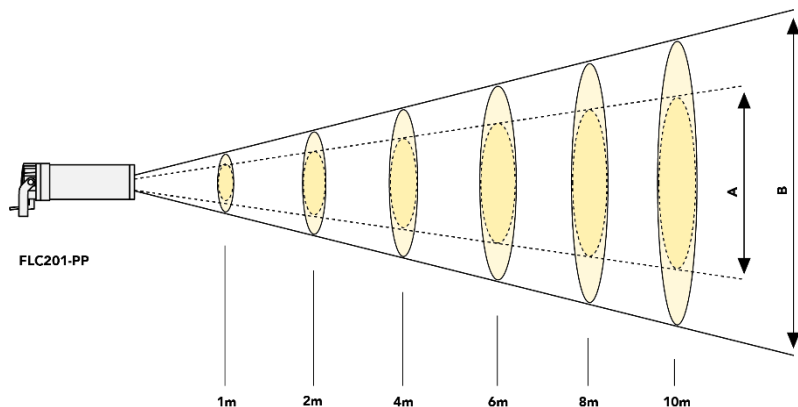


**FLC200 PP**  
**Profile Projectors [ZP] - opening angles**

# FLC201 LED Zoom Spot Projector [ZP] - opening angle



Opening angle: A=20° to B=32° (standard; 3-Lens-System)

Zoom-Spot depending on the distance

Distance [m]	1	2	4	6	8	10
Diameter from - to [m]	0,35-0,57	0,7-1,2	1,4-2,3	2,1-3,5	2,8-4,8	3,5-5,7
EM* 2,7K /6W/500mA from - to [lx]	3821-1525	955-381	239-95	106-42	60-24	38-15
EM* 3K /6W/500mA from - to [lx]	3821-1525	955-381	239-95	106-42	60-24	38-15
EM* 4K/6W/500mA from - to [lx]	4106-1639	1026-410	257-102	114-46	64-26	41-16

Opening angle: A=24° to B=45° (on request; 4-Lens-System)

Zoom-Spot depending on the distance

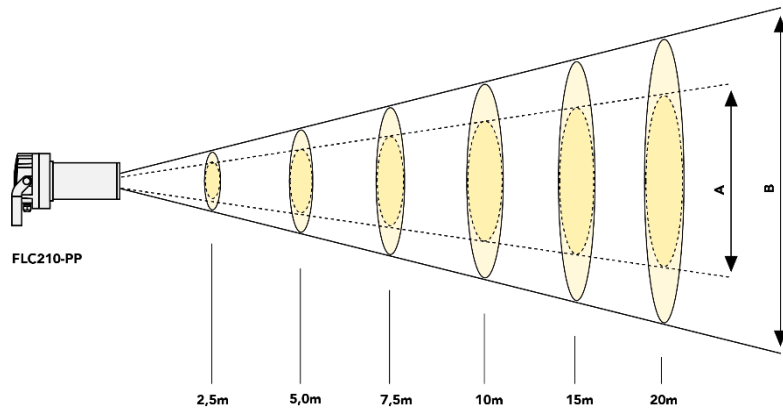
Distance [m]	1	2	4	6	8	10
Diameter from - to [m]	0,4-0,8	0,8-1,6	1,7-3,2	2,5-4,8	3,4-6,4	4,2-8,4
EM* 2,7K /6W/500mA from - to [lx]	2091-569	523-142	131-36	58-16	33-9	21-6
EM* 3K /6W/500mA from - to [lx]	2091-569	523-142	131-36	58-16	33-9	21-6
EM* 4K/6W/500mA from - to [lx]	2247-612	562-153	140-38	62-17	35-10	22-6

\*Em = average illuminance on the illuminated surface

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# FLC210 LED-FT Zoom Spot Projector [ZP] - opening angle STANDARD



Opening angle: A=18° to B=30° (standard; 2-Lens-System)  
Zoom-Spot depending on the distance

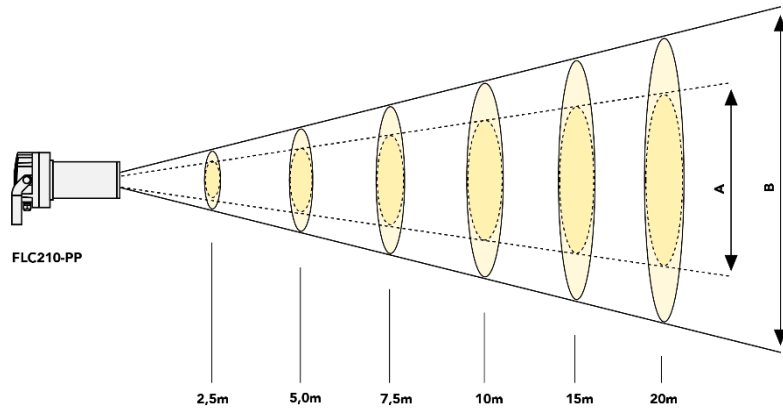
Distance [m]	2,5	5	7,5	10	15	20
Diameter from - to [m]	0,8-1,3	1,6-2,6	2,4-3,9	3,2-5,2	4,8-7,8	6,4-10,4
EM* 2,7K/26W/700mA from - to [lx]	3322-1256	831-314	369-140	208-78	92-35	52-20
EM* 3K/26W/700mA from - to [lx]	3432-1297	858-324	381-144	214-81	95-36	54-20
EM* 4K/26W/700mA from - to [lx]	3614-1366	904-342	402-152	226-85	100-38	56-21

\*Em = average illuminance on the illuminated surface

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# FLC210 LED-FT Zoom Spot Projector [ZP] - opening angle ON REQUEST



Opening angle: A=20° to B=45° (on request; 3-Lens-System)  
Zoom-Spot depending on the distance

Distance [m]	2,5	5	7,5	10	15	20
Diameter from - to [m]	0,9-2,0	1,8-4,0	2,7-6,0	3,6-8,0	5,4-12,0	7,2-16,0
EM* 2,7K/26W/700mA from - to [lx]	3125-580	781-145	347-64	195-36	87-16	49-9
EM* 3K/26W/700mA from - to [lx]	3228-600	807-150	359-67	202-37	90-17	50-9
EM* 4K/26W/700mA from - to [lx]	3399-631	850-158	378-70	212-39	94-18	53-10

Opening angle: A=45° to B=54° (on request; 4-Lens-System)  
Zoom-Spot depending on the distance

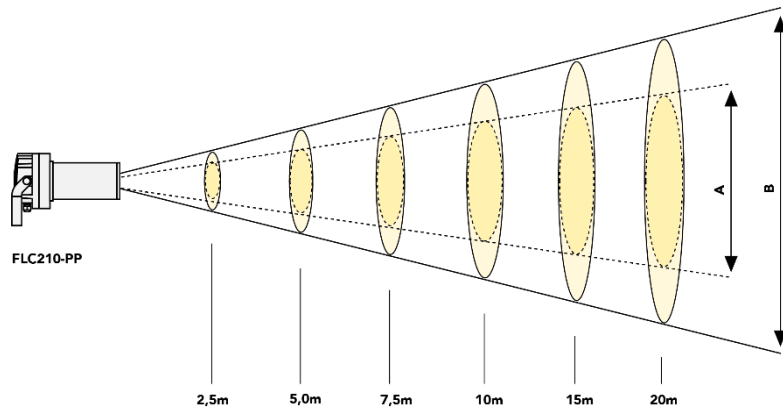
Distance [m]	2,5	5	7,5	10	15	20
Diameter from - to [m]	2,0-2,5	4,0-5,0	6,0-7,5	8,0-10,0	12,0-15,0	16,0-20,0
EM* 2,7K/26W/700mA from - to [lx]	498-379	125-95	55-42	31-24	14-11	8-6
EM* 3K/26W/700mA from - to [lx]	514-391	129-98	57-43	32-24	14-11	8-6
EM* 4K/26W/700mA from - to [lx]	542-412	135-103	60-46	34-26	15-11	8-6

\*Em = average illuminance on the illuminated surface

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# FLC210-CC / FLC210-TW LED-FT Zoom Spot Projector [ZP] - opening angle STANDARD



Opening angle: A=18° to B=30° (standard; 2-Lens-System)  
Zoom-Spot depending on the distance

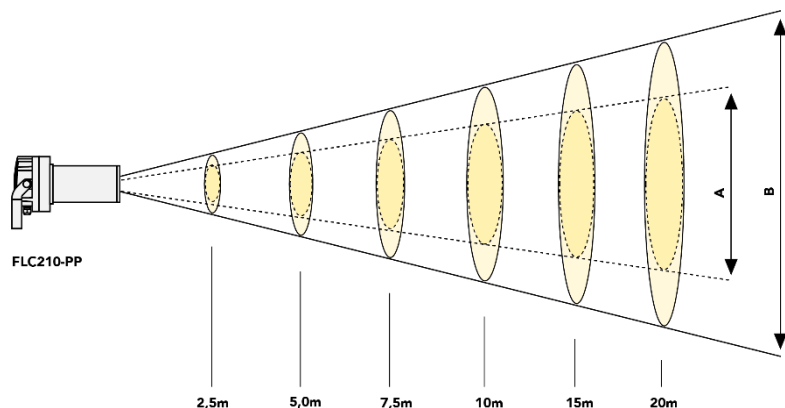
Distance [m]	2,5	5	7,5	10	15	20
Diameter from - to [m]	0,8-1,3	1,6-2,6	2,4-3,9	3,2-5,2	4,8-7,8	6,4-10,4
RGBW EM* 3K or 4K / 15W / 170mA from - to [lx]	676-356	169-89	75-40	42-22	19-10	11-6
RGBA EM* 15W / 170mA from - to [lx]	580-305	145-76	64-34	36-19	16-8	9-5
TW EM* 2,7K - 6,0K / 10W / 250 mA from - to [lx]	773-406	193-102	86-45	48-25	21-11	12-6

\*Em = average illuminance on the illuminated surface

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# FLC210-CC / FLC210-TW LED-FT Zoom Spot Projector [ZP] - opening angle ON REQUEST



Opening angle: A=20° to B=45° (on request; 3-Lens-System)

Zoom-Spot depending on the distance

Distance [m]	2,5	5	7,5	10	15	20
Diameter from - to [m]	0,9-2,0	1,8-4,0	2,7-6,0	3,6-8,0	5,4-12,0	7,2-16,0
RGBW EM* 3K or 4K / 15W / 170mA from - to [lx]	594-195	148-49	66-22	37-12	16-5	9-3
RGBA EM* 15W / 170mA from - to [lx]	509-167	127-42	57-19	32-10	14-5	8-3
TW EM* 2,7K - 6,0K / 10W / 250 mA from - to [lx]	679-223	170-56	75-25	42-14	19-6	11-3

Opening angle: A=45° to B=54° (on request; 4-Lens-System)

Zoom-Spot depending on the distance

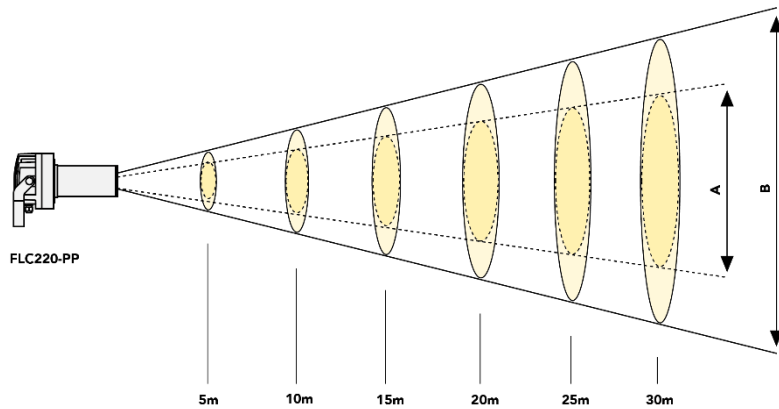
Distance [m]	2,5	5	7,5	10	15	20
Diameter from - to [m]	2,0-2,5	4,0-5,0	6,0-7,5	8,0-10,0	12,0-15,0	16,0-20,0
RGBW EM* 3K or 4K / 15W / 170 mA from - to [lx]	141-126	35-31	16-14	9-8	4-3	2-2
RGBA EM* 15W / 170 mA from - to [lx]	121-108	30-27	13-12	8-7	3-3	2-2
TW EM* 2,7K - 6,0K / 10W / 250 mA from - to [lx]	161-144	40-36	18-16	10-9	4-4	3-2

\*Em = average illuminance on the illuminated surface

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# FLC220 LED Zoom Spot Projector [ZP] - opening angle STANDARD



Opening angle: A=17° to B=28° (standard; 3-Lens-System):  
Zoom-Spot depending on the distance

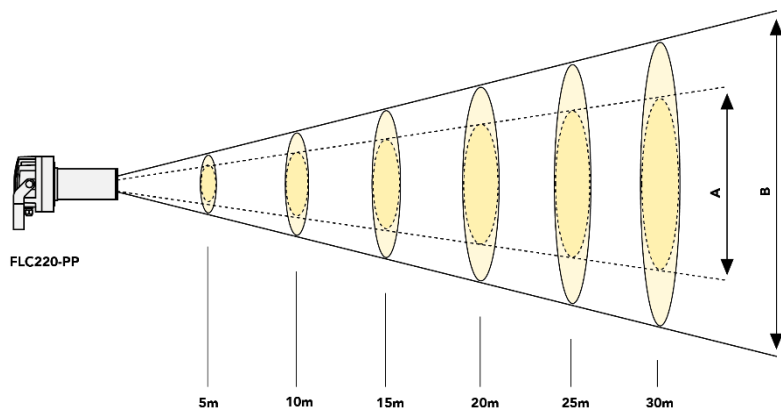
Distance [m]	5	10	15	20	25	30
Diameter from - to [m]	1,5-2,5	3,0-5,0	4,5-7,5	6,0-10,0	7,5-12,5	9,0-15,0
EM* 2,7K / 37W/1050mA from - to [lx]	1192-495	298-124	132-55	74-31	48-20	33-14
EM* 3K / 37W/1050mA from - to [lx]	1227-509	307-127	136-57	77-32	49-20	34-14
EM* 4K / 37W/1050mA from - to [lx]	1279-531	320-133	142-59	80-33	51-21	36-15

\*Em = average illuminance on the illuminated surface  
Factor 0,74 multiplier for 700mA

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# FLC220 LED Zoom Spot Projector [ZP] - opening angle ON REQUEST



Opening angle: A=19° to B=45° (on request; 4-Lens-System):  
Zoom-Spot depending on the distance

Distance [m]	5	10	15	20	25	30
Diameter from - to [m]	1,7-4,1	3,3-8,2	5-12,4	6,7-16,5	8,4-20,7	10-24,8
EM* 2,7K / 37W/1050mA from - to [lx]	1291-228	323-57	143-25	81-14	52-9	36-6
EM* 3K / 37W/1050mA from - to [lx]	1329-235	332-59	148-26	83-15	53-9	37-7
EM* 4K / 37W/1050mA from - to [lx]	1386-245	346-61	154-27	87-15	55-10	38-7

Opening angle: A=37° to B=51° (on request; 5-Lens-System):  
Zoom-Spot depending on the distance

Distance [m]	5	10	15	20	25	30
Diameter from - to [m]	3,3-4,8	6,7-9,5	10-14,3	13,3-19	16,7-23,8	20-28,6
EM* 2,7K / 37W/1050mA from - to [lx]	349-155	87-39	39-17	22-10	14-6	10-4
EM* 3K / 37W/1050mA from - to [lx]	360-160	90-40	40-18	22-10	14-6	10-4
EM* 4K / 37W/1050mA from - to [lx]	375-166	94-42	42-18	23-10	15-7	10-5

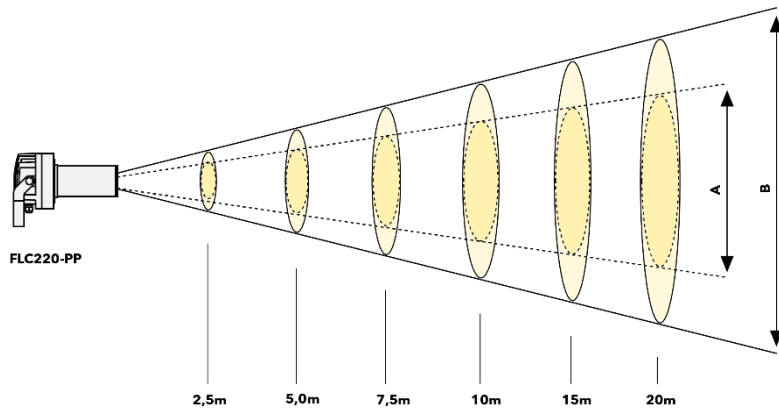
\*Em = average illuminance on the illuminated surface  
Factor 0,74 multiplier for 700mA

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# FLC220-CC / FLC220-TW LED-FT Zoom Spot Projector [ZP] - opening angle STANDARD



Opening angle: A=14° to B=24° (standard; 3-Lens-System):  
Zoom-Spot depending on the distance

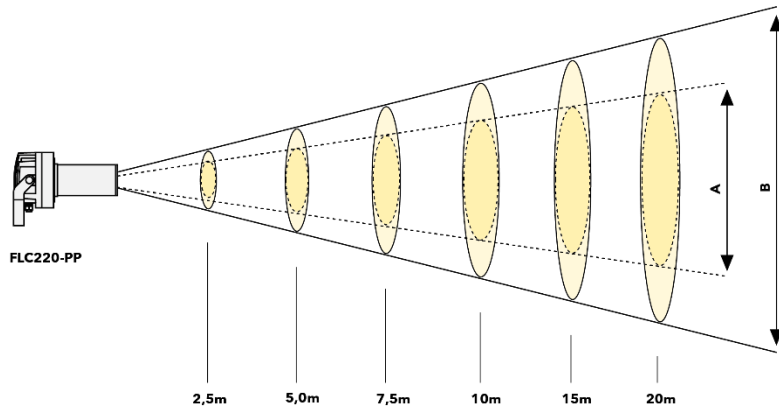
Distance [m]	2,5	5	7,5	10	15	20
Diameter from - to [m]	0,6-1,0	1,2-2,0	1,8-3,0	2,4-4,0	3,6-6,0	4,8-8,0
RGBW EM* 3K or 4K/24W/170mA from - to [lx]	1445-751	361-188	161-83	90-47	40-21	23-12
RGBA EM* 24W/170mA from - to [lx]	1238-644	310-161	138-72	77-40	34-18	19-10
TW EM* 2,7K - 6,0K / 24W / 300 mA from - to [lx]	1899-988	475-247	211-110	119-62	53-27	30-15

\*Em = average illuminance on the illuminated surface

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# FLC220-CC / FLC220-TW LED-FT Zoom Spot Projector [ZP] - opening angle ON REQUEST



Opening angle: A=16° to B=34° (on request; 4-Lens-System):  
Zoom-Spot depending on the distance

Distance [m]	2,5	5	7,5	10	15	20
Diameter from - to [m]	0,7-1,5	1,4-3,0	2,1-4,5	2,8-6,0	4,2-9,0	5,6-12,0
RGBW EM* 3K or 4K / 24W / 170mA from - to [lx]	1478-529	370-132	164-59	92-33	41-15	23-8
RGBA EM* 24W /170mA from - to [lx]	1267-454	317-113	141-50	79-28	35-13	20-7
TW EM* 2,7K - 6,0K / 24W / 170 mA from - to [lx]	1943-696	486-174	216-77	121-43	54-19	30-11

Opening angle: A=30° to B=43° (on request; 5-Lens-System):  
Zoom-Spot depending on the distance

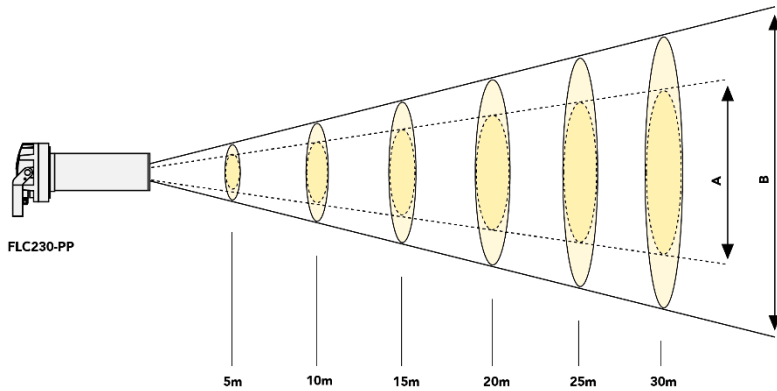
Distance [m]	2,5	5	7,5	10	15	20
Diameter from - to [m]	1,4-2,0	2,8-4,0	4,2-6,0	5,6-8,0	8,4-12,0	11,0-16,0
RGBW EM* 3K or 4K / 24W / 170mA from - to [lx]	699-331	175-83	78-37	44-21	19-9	11-5
RGBA EM* 24W /170mA from - to [lx]	599-284	150-71	67-32	37-18	17-8	9-4
TW EM* 2,7K - 6,0K / 24W / 170 mA from - to [lx]	918 - 435	230 - 109	102 - 48	57 - 27	26 - 12	14 - 7

\*Em = average illuminance on the illuminated surface

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# FLC230 LED Zoom Spot Projector [ZP] - opening angle STANDARD



Opening angle: A=17° to B=28° (standard; 3-Lens System):  
Zoom-Spot depending on the distance

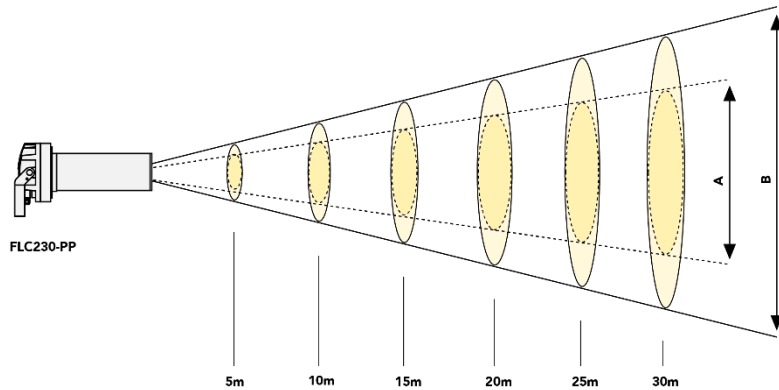
Distance [m]	5	10	15	20	25	30
Diameter from - to [m]	1,5-2,5	3,0-5,0	4,5-7,5	6,0-10,0	7,5-12,5	9,0-15,0
EM* 2,7K / 52W/1400mA from - to [lx]	1444-548	361-137	160-61	90-34	58-22	40-15
EM* 3K / 52W/1400mA from - to [lx]	1522-577	380-144	169-64	95-36	61-23	42-16
EM* 4K / 52W/1400mA from - to [lx]	1756-666	439-167	195-74	110-42	70-27	49-19

\*Em = average illuminance on the illuminated surface

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# FLC230 LED Zoom Spot Projector [ZP] - opening angle ON REQUEST



Opening angle: A=19° to B=41° (on request; 4-Lens System):  
Zoom-Spot depending on the distance

Distance [m]	5	10	15	20	25	30
Diameter from - to [m]	1,5-3,5	3,5-7,5	5,0-11,0	6,5-15,0	8,5-18,5	10,0-22,5
EM* 2,7K / 52W/1400mA from - to [lx]	1154-248	289-62	128-28	72-16	46-10	32-7
EM* 3K / 52W/1400mA from - to [lx]	1217-262	304-65	135-29	76-16	49-10	34-7
EM* 4K / 52W/1400mA from - to [lx]	1404-302	351-75	156-34	88-19	56-12	39-8

Opening angle: A=37° to B=51° (on request; 5-Lens System):  
Zoom-Spot depending on the distance

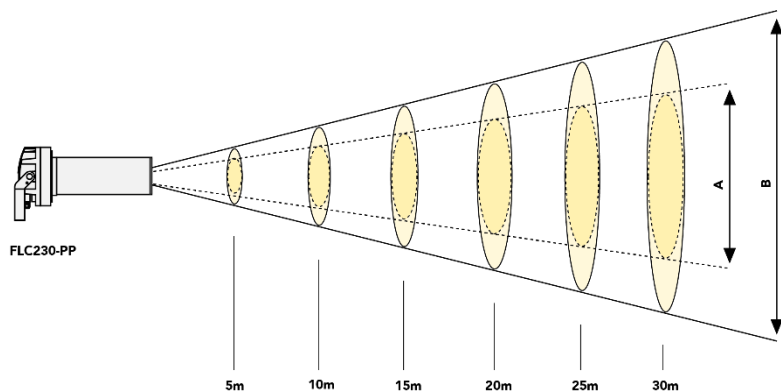
Distance [m]	5	10	15	20	25	30
Diameter from - to [m]	3,5-5,0	6,5-9,5	10,0-14,5	13,5-19,0	16,5-24,0	20,0-28,5
EM* 2,7K / 52W/1400mA from - to [lx]	293-139	73-35	33-15	18-9	12-6	8-4
EM* 3K / 52W/1400mA from - to [lx]	308-147	77-37	34-16	19-9	12-6	9-4
EM* 4K / 52W/1400mA from - to [lx]	356-169	89-42	40-19	22-11	14-7	10-5

\*Em = average illuminance on the illuminated surface

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# FLC230-CC / FLC230-TW LED Zoom Spot Projector [ZP] - opening angle STANDARD



Opening angle: A=17° to B=28° (standard; 3-Lens-System):  
Zoom-Spot depending on the distance

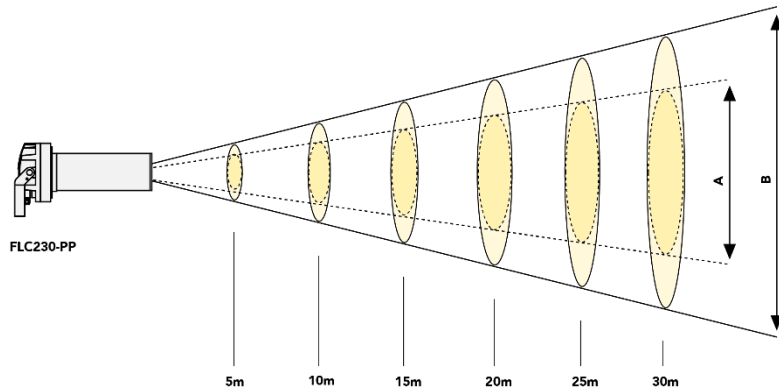
Distance [m]	5	10	15	20	25	30
Diameter from - to [m]	1,5-2,5	3,0-5,0	4,5-7,5	6-,0-10,0	7,5-12,5	9,0-15,0
RGBW EM* 48W / 350mA from - to [lx]	793-328	198-82	88-36	50-21	32-13	22-9
RGBA EM* 48W / 350mA from - to [lx]	641-266	160-66	71-30	40-17	26-11	18-7
TW EM* 2,7K - 6,0K / 44W / 350 mA from - to [lx]	1073-444	268-111	119-49	67-28	43-18	30-12

\*Em = average illuminance on the illuminated surface

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# FLC230-CC LED Zoom Spot Projector [ZP] - opening angle ON REQUEST



Opening angle: A=19° to B=41° (on request; 4-Lens-System):  
Zoom-Spot depending on the distance

Distance [m]	5	10	15	20	25	30
Diameter from - to [m]	1,5-3,5	3,5-7,5	5,0-11,0	6,5-15,0	8,5-18,5	10,0-22,5
RGBW EM* 48W / 350mA from - to [lx]	597-144	149-36	66-16	37-9	24-6	17-4
RGBA EM* 48W / 350mA from - to [lx]	483-116	121-29	54-13	30-7	19-5	13-3
TW EM* 2,7K - 6,0K / 44W / 350 mA from - to [lx]	808-195	202-49	90-22	51-12	32-8	22-5

Opening angle: A=37° to B=51° (on request; 5-Lens System):  
Zoom-Spot depending on the distance

Distance [m]	5	10	15	20	25	30
Diameter from - to [m]	3,5-5,0	6,5-9,5	10,0-14,5	13,5-19,0	16,5-24,0	20,0-28,5
RGBW EM* 48W / 350mA from - to [lx]	177-79	44-20	20-9	11-5	7-3	5-2
RGBA EM* 48 W / 350mA from - to [lx]	143-64	36-16	16-7	9-4	6-3	4-2
TW EM* 2,7K - 6,0K / 44W / 350 mA from - to [lx]	239-107	60-27	27-12	15-7	10-4	7-3

\*Em = average illuminance on the illuminated surface

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