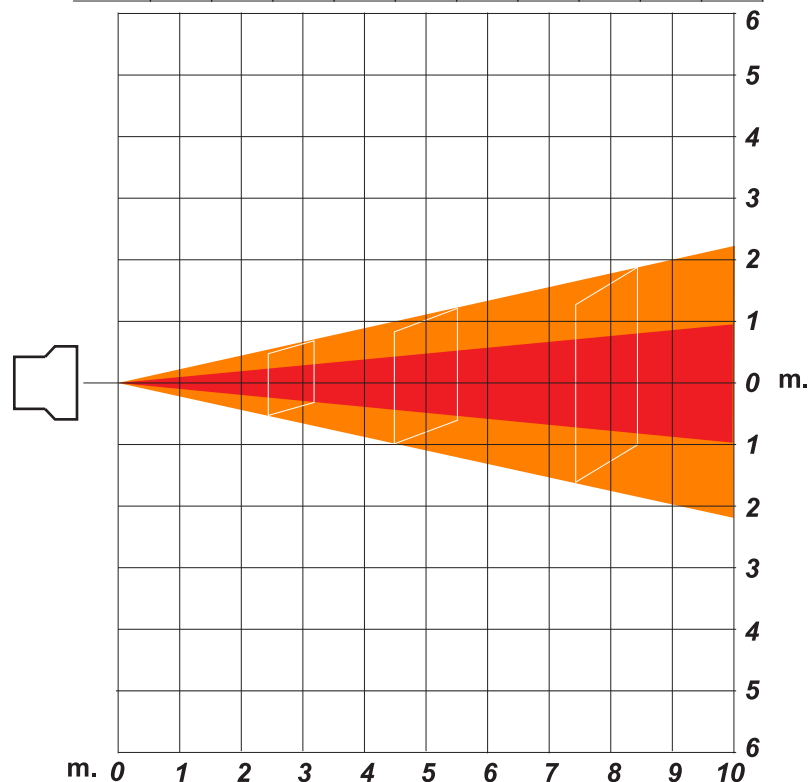


Elliptical lenses- Vertical beam

Distance (m.)	1	2	3	4	5	6	7	8	9	10	Lumen
Red	4347	1087	483	272	174	121	89	68	54	43	508
Green	6147	1537	683	384	246	171	125	96	76	61	719
Blue	1728	432	192	108	69	48	35	27	21	17	201
White	6975	1744	775	436	279	194	142	109	86	70	816
All LEDs on	18756	4689	2084	1172	750	521	383	293	232	188	2194
Ø 1/2 peak angle m.	0,19	0,39	0,58	0,77	0,96	1,16	1,35	1,54	1,73	1,93	
Ø 1/10 peak angle m.	0,44	0,89	1,33	1,77	2,22	2,66	3,10	3,55	3,99	4,43	

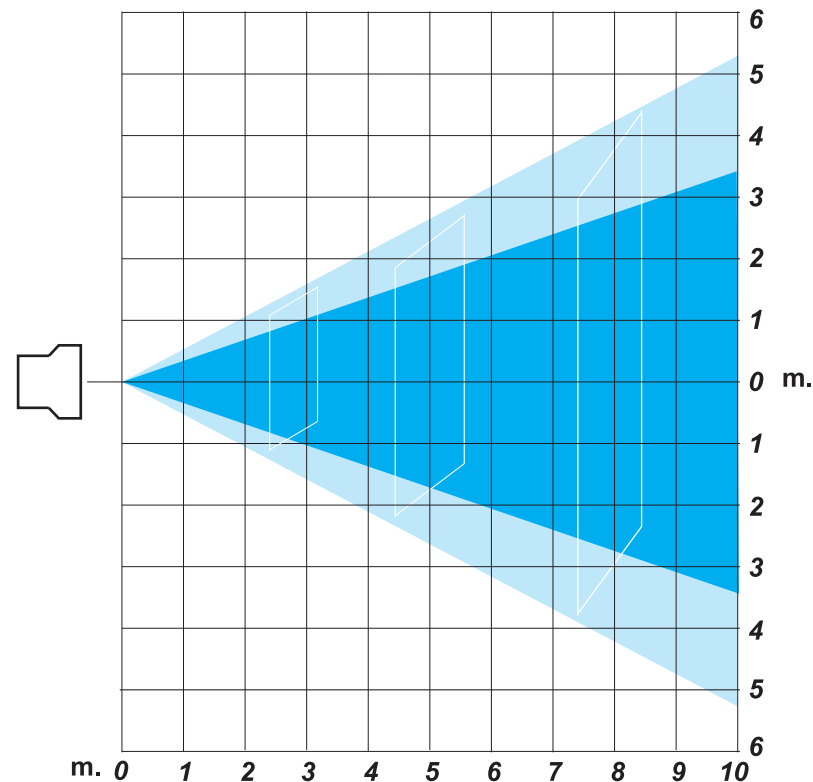


1/2 peak angle: 11°

1/10 peak angle: 25°

Elliptical lenses- Horizontal beam

Distance (m.)	1	2	3	4	5	6	7	8	9	10
Ø 1/2 peak angle m.	0,69	1,38	2,07	2,75	3,44	4,13	4,82	5,51	6,20	6,89
Ø 1/10 peak angle m.	1,06	2,13	3,19	4,25	5,32	6,38	7,44	8,51	9,57	10,63



1/2 peak angle: 38°

1/10 peak angle: 56°



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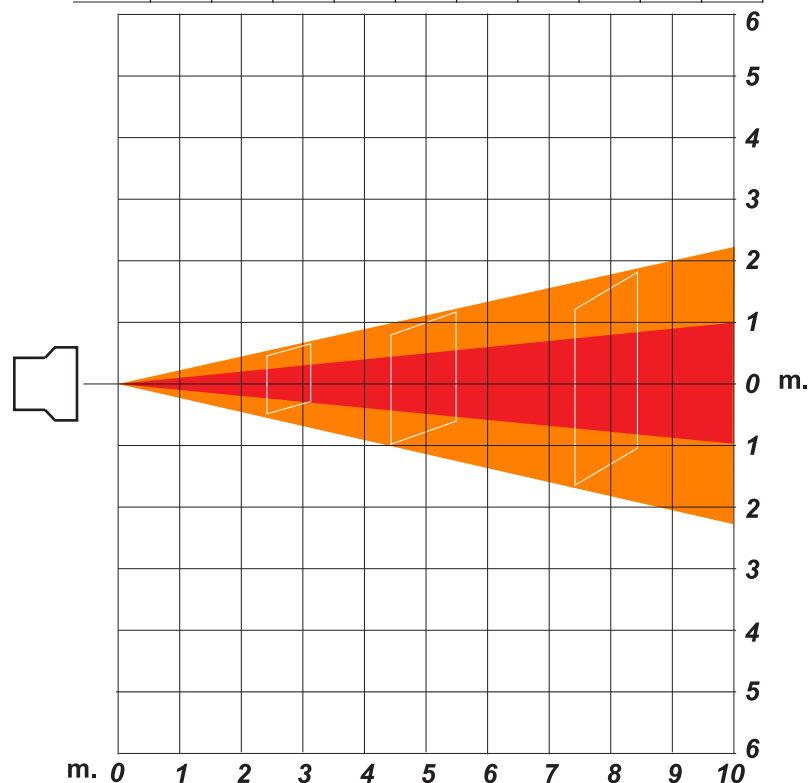
Lampada/Lamp

Date : 11/04/2012

Ver. N° 1.1

12° lenses- Vertical beam

Distance (m.)	1	2	3	4	5	6	7	8	9	10	Lumen
Red	8460	2115	940	529	338	235	173	132	104	85	988
Green	11475	2869	1275	717	459	319	234	179	142	115	1342
Blue	3195	799	355	200	128	89	65	50	39	32	374
White	14535	3634	1615	908	581	404	297	227	179	145	1699
All LEDs on	37440	9360	4160	2340	1498	1040	764	585	462	374	4382
Ø 1/2 peak angle m.	0,19	0,39	0,58	0,77	0,96	1,16	1,35	1,54	1,73	1,93	
Ø 1/10 peak angle m.	0,44	0,89	1,33	1,77	2,22	2,66	3,10	3,55	3,99	4,43	

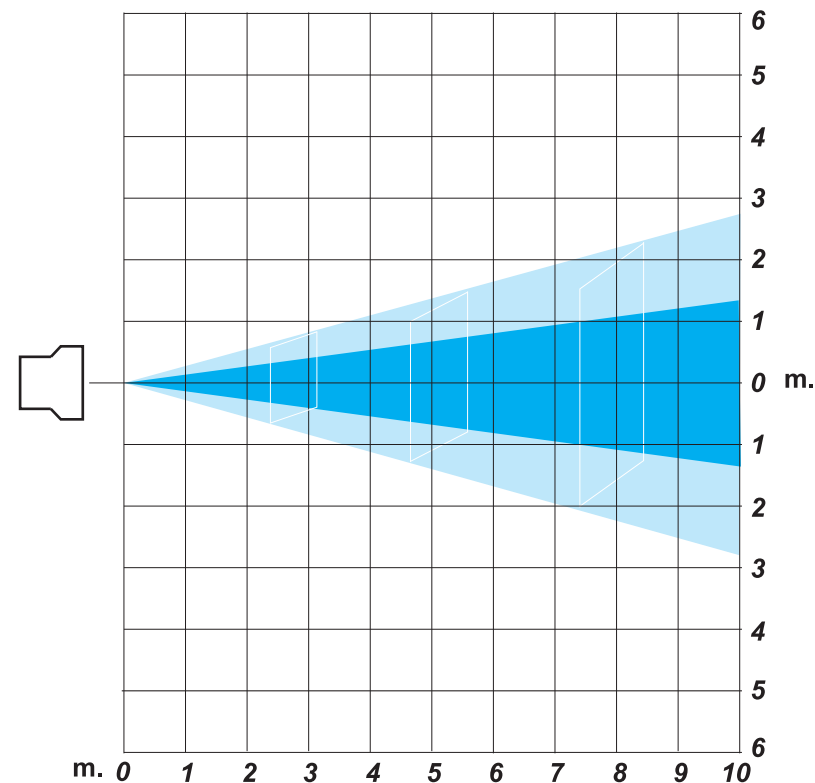


1/2 peak angle: 11°

1/10 peak angle: 25°

12° lenses- Horizontal beam

Distance (m.)	1	2	3	4	5	6	7	8	9	10
Ø 1/2 peak angle m.	0,26	0,53	0,79	1,05	1,32	1,58	1,84	2,11	2,37	2,63
Ø 1/10 peak angle m.	0,55	1,11	1,66	2,22	2,77	3,33	3,88	4,44	4,99	5,55



1/2 peak angle: 15°

1/10 peak angle: 31°



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Date :

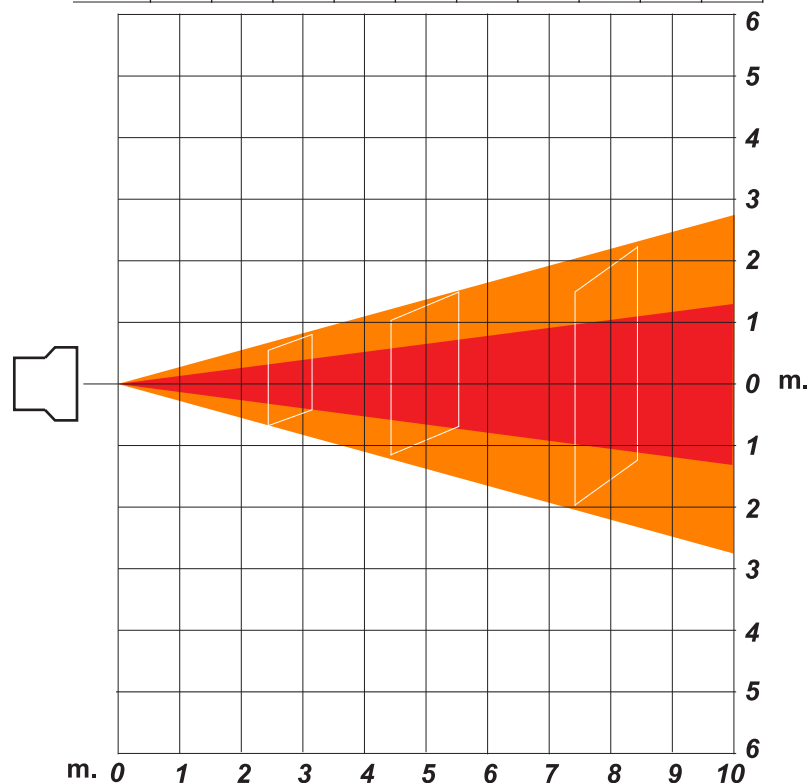
11/04/2012

Ver. N°

1.1

30° lenses- Vertical beam

Distance (m.)	1	2	3	4	5	6	7	8	9	10	Lumen
Red	6534	1634	726	408	261	182	133	102	81	65	468
Green	10800	2700	1200	675	432	300	220	169	133	108	774
Blue	2610	653	290	163	104	73	53	41	32	26	186
White	10332	2583	1148	646	413	287	211	161	128	103	740
All LEDs on	29925	7481	3325	1870	1197	831	611	468	369	299	2146
Ø 1/2 peak angle m.	0,26	0,53	0,79	1,05	1,32	1,58	1,84	2,11	2,37	2,63	
Ø 1/10 peak angle m.	0,54	1,07	1,61	2,14	2,68	3,22	3,75	4,29	4,82	5,36	

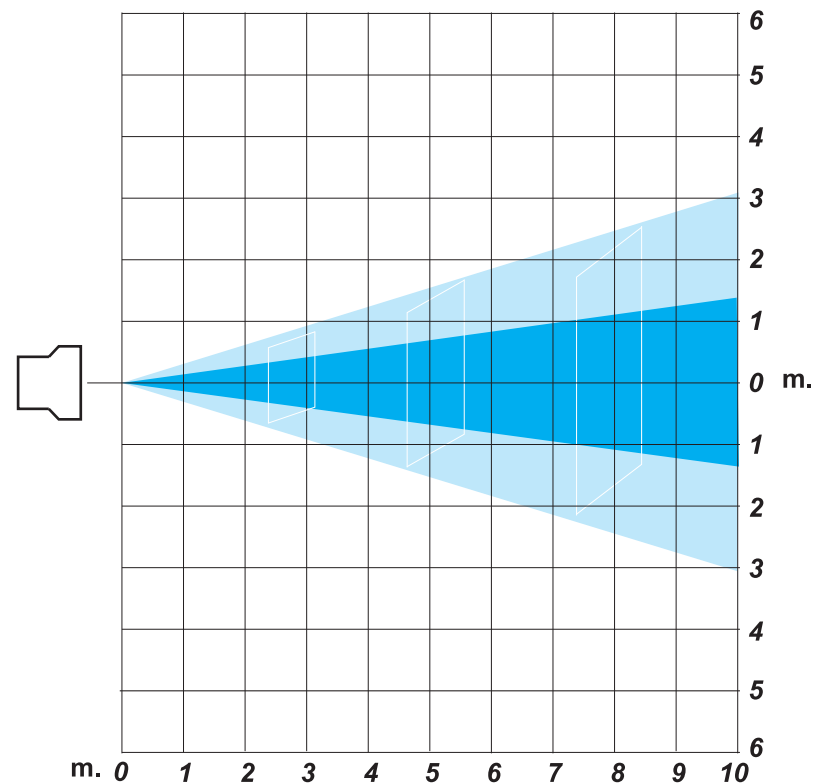


1/2 peak angle: 15°

1/10 peak angle: 30°

30° lenses- Horizontal beam

Distance (m.)	1	2	3	4	5	6	7	8	9	10
Ø 1/2 peak angle m.	0,28	0,56	0,84	1,12	1,41	1,69	1,97	2,25	2,53	2,81
Ø 1/10 peak angle m.	0,61	1,22	1,83	2,45	3,06	3,67	4,28	4,89	5,50	6,11



1/2 peak angle: 16°

1/10 peak angle: 34°



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Date :

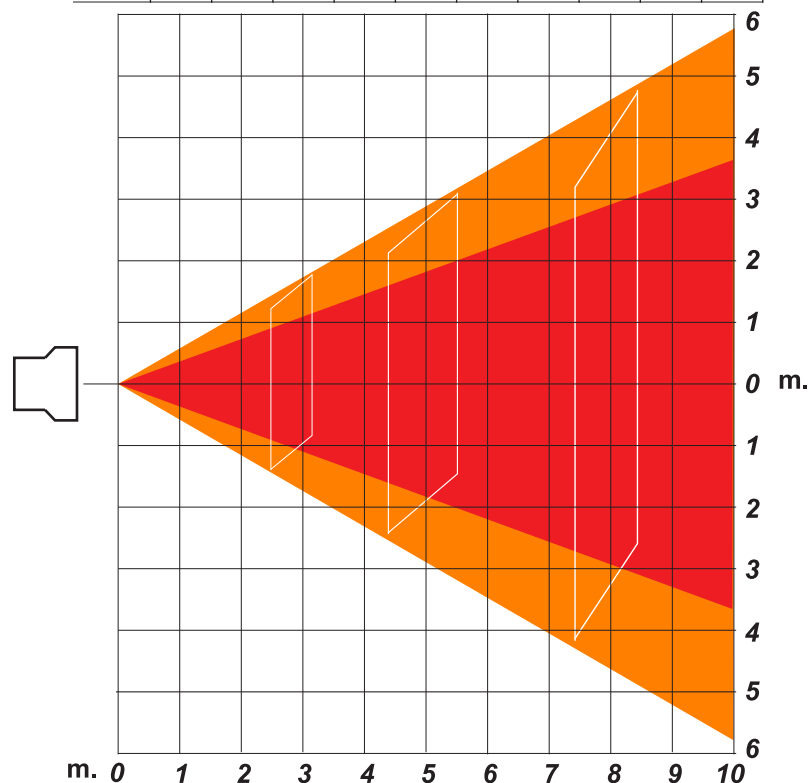
11/04/2012

Ver. N°

1.1

50° lenses- Vertical beam

Distance (m.)	1	2	3	4	5	6	7	8	9	10	Lumen
Red	1656	414	184	104	66	46	34	26	20	17	652
Green	2754	689	306	172	110	77	56	43	34	28	1087
Blue	657	164	73	41	26	18	13	10	8	7	257
White	3204	801	356	200	128	89	65	50	40	32	1265
All LEDs on	8280	2070	920	518	331	230	169	129	102	83	3271
Ø 1/2 peak angle m.	0,73	1,46	2,18	2,91	3,64	4,37	5,10	5,82	6,55	7,28	
Ø 1/10 peak angle m.	1,15	2,31	3,46	4,62	5,77	6,93	8,08	9,24	10,39	11,55	

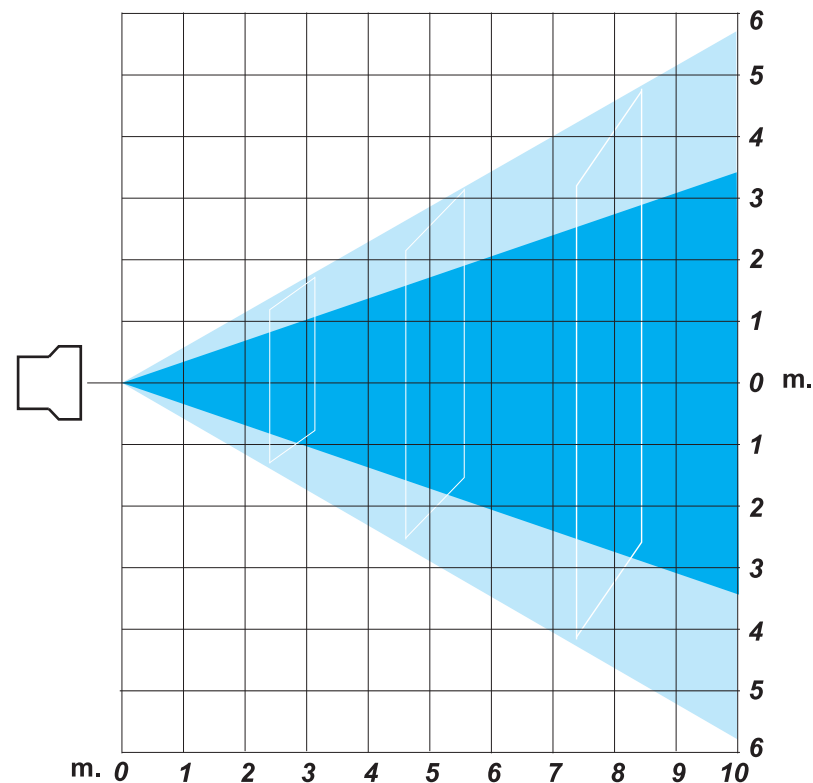


1/2 peak angle: 40°

1/10 peak angle: 60°

50° lenses- Horizontal beam

Distance (m.)	1	2	3	4	5	6	7	8	9	10
Ø 1/2 peak angle m.	0,69	1,38	2,07	2,75	3,44	4,13	4,82	5,51	6,20	6,89
Ø 1/10 peak angle m.	1,15	2,31	3,46	4,62	5,77	6,93	8,08	9,24	10,39	11,55



1/2 peak angle: 16°

1/10 peak angle: 34°



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Date :

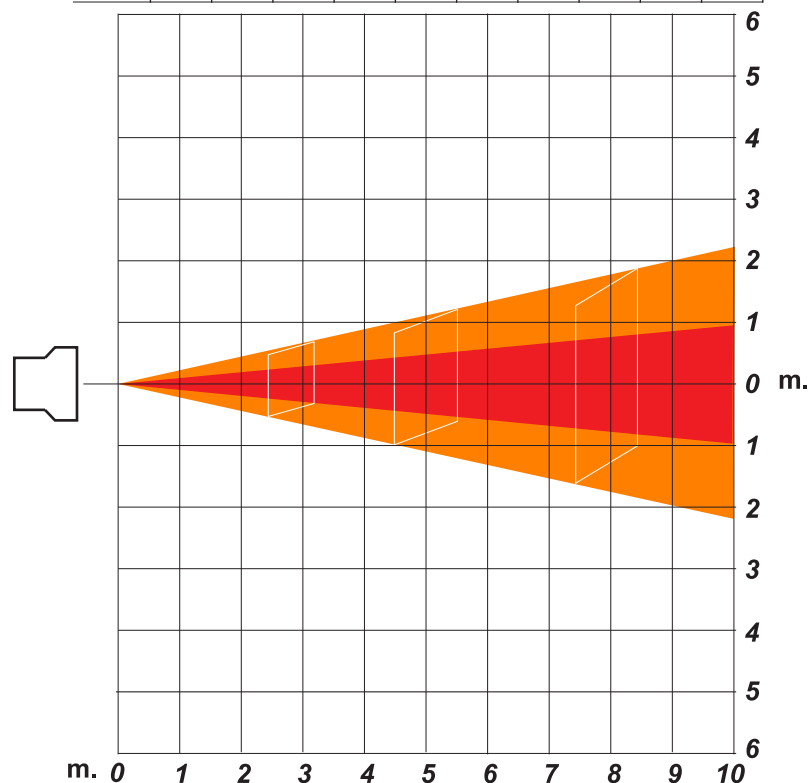
11/04/2012

Ver. N°

1.1

Elliptical lenses- Vertical beam

Distance (m.)	1	2	3	4	5	6	7	8	9	10
Red	2430	608	270	152	97	68	50	38	30	24
Green	3735	934	415	233	149	104	76	58	46	37
Blue	936	234	104	59	37	26	19	15	12	9
White	3915	979	435	245	157	109	80	61	48	39
All LEDs on	10800	2700	1200	675	432	300	220	169	133	108
Ø 1/2 peak angle m.	0,19	0,39	0,58	0,77	0,96	1,16	1,35	1,54	1,73	1,93
Ø 1/10 peak angle m.	0,44	0,89	1,33	1,77	2,22	2,66	3,10	3,55	3,99	4,43

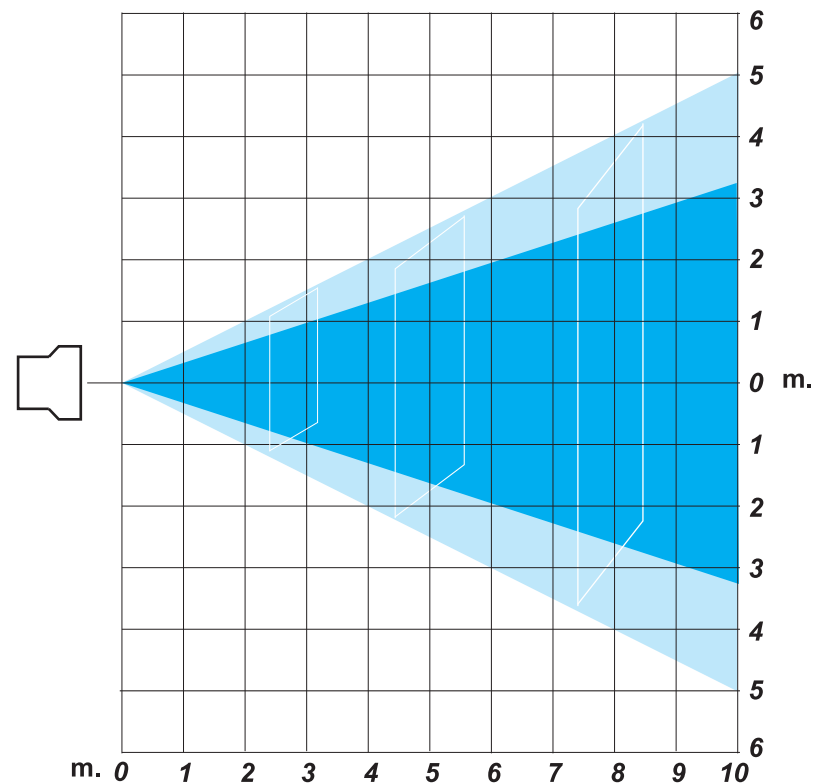


1/2 peak angle: 11°

1/10 peak angle: 25°

Elliptical lenses- Horizontal beam

Distance (m.)	1	2	3	4	5	6	7	8	9	10
Ø 1/2 peak angle m.	0,65	1,30	1,95	2,60	3,25	3,90	4,55	5,20	5,85	6,5
Ø 1/10 peak angle m.	1	1,99	2,99	3,99	4,99	5,98	6,98	7,98	8,97	9,97



1/2 peak angle: 36°

1/10 peak angle: 53°



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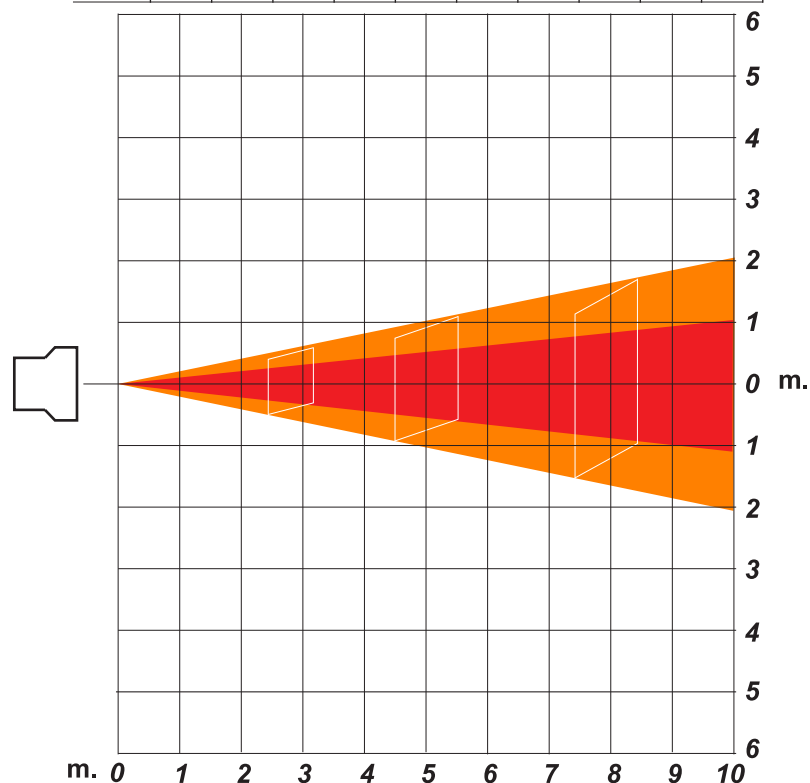
Lampada/Lamp

Date : 24/01/2011

Ver. N° 1.0

12° lenses- Vertical beam

Distance (m.)	1	2	3	4	5	6	7	8	9	10
Red	7470	1868	830	467	299	208	152	117	92	75
Green	11484	2871	1276	718	459	319	234	179	142	115
Blue	3132	783	348	196	125	87	64	49	39	31
White	12213	3053	1357	763	489	339	249	191	151	122
All LEDs on	33840	8460	3760	2115	1354	940	691	529	418	338
Ø 1/2 peak angle m.	0,21	0,42	0,63	0,84	1,05	1,26	1,47	1,68	1,89	2,10
Ø 1/10 peak angle m.	0,41	0,81	1,22	1,63	2,03	2,44	2,85	3,26	3,66	4,07

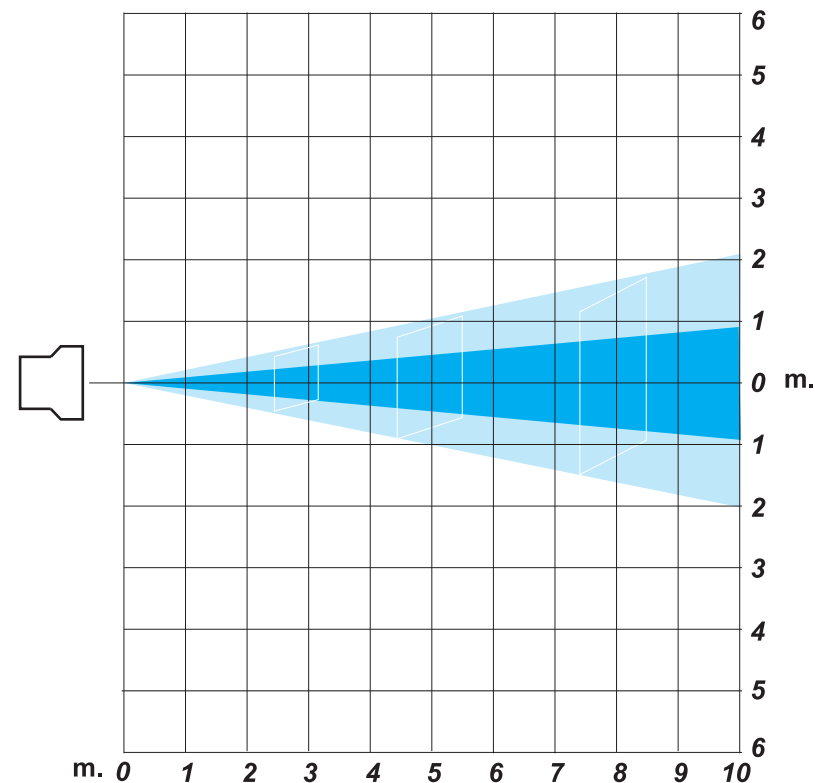


1/2 peak angle: 12°

1/10 peak angle: 23°

12° lenses- Horizontal beam

Distance (m.)	1	2	3	4	5	6	7	8	9	10
Ø 1/2 peak angle m.	0,17	0,35	0,52	0,70	0,87	1,05	1,22	1,40	1,57	1,75
Ø 1/10 peak angle m.	0,41	0,81	1,22	1,63	2,03	2,44	2,85	3,26	3,66	4,07



1/2 peak angle: 10°

1/10 peak angle: 23°



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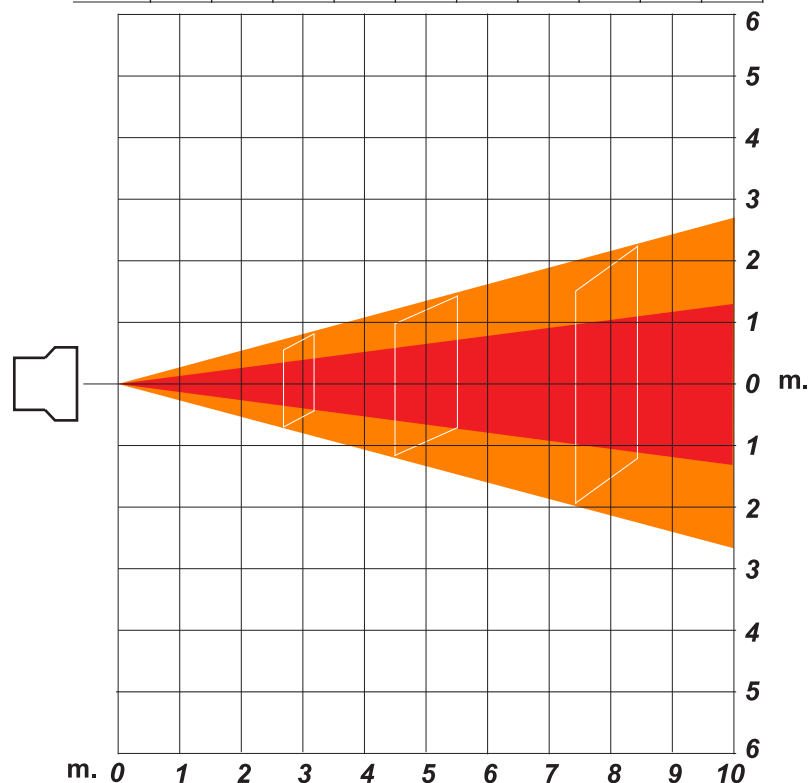
Lampada/Lamp

Date : 24/01/2011

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30° lenses- Vertical beam

Distance (m.)	1	2	3	4	5	6	7	8	9	10
Red	4005	1001	445	250	160	111	82	63	49	40
Green	6705	1676	745	419	268	186	137	105	83	67
Blue	1800	450	200	113	72	50	37	28	22	18
White	5895	1474	655	368	236	164	120	92	73	59
All LEDs on	18540	4635	2060	1159	742	515	378	290	229	185
Ø 1/2 peak angle m.	0,26	0,53	0,79	1,05	1,32	1,58	1,84	2,11	2,37	2,63
Ø 1/10 peak angle m.	0,54	1,07	1,61	2,14	2,68	3,22	3,75	4,29	4,82	5,36

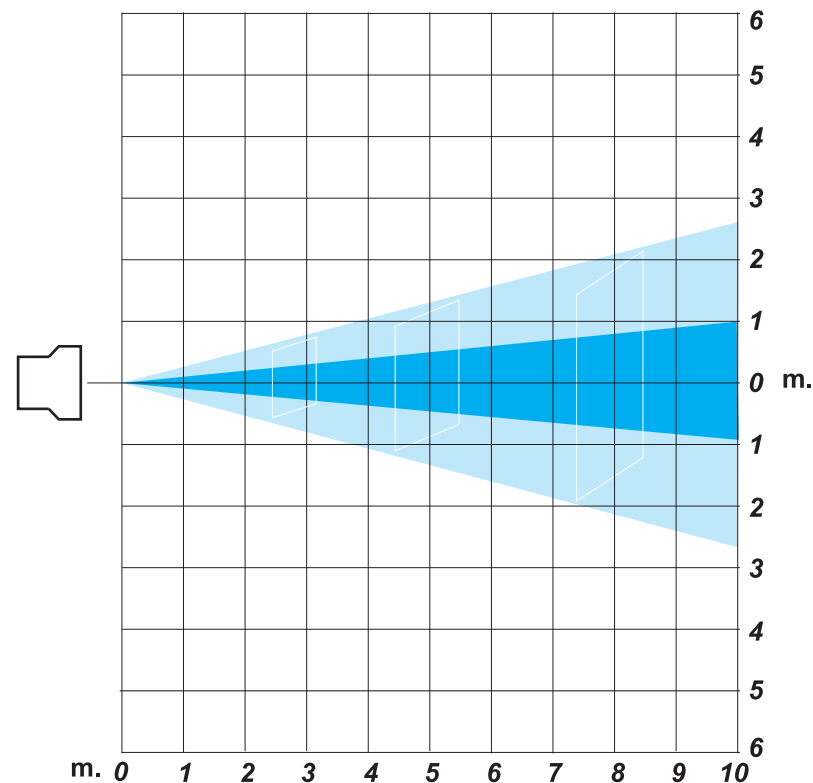


1/2 peak angle: 15°

1/10 peak angle: 30°

30° lenses- Horizontal beam

Distance (m.)	1	2	3	4	5	6	7	8	9	10
Ø 1/2 peak angle m.	0,23	0,46	0,68	0,91	1,14	1,37	1,60	1,82	2,05	2,28
Ø 1/10 peak angle m.	0,54	1,07	1,61	2,14	2,68	3,22	3,75	4,29	4,82	5,36



1/2 peak angle: 13°

1/10 peak angle: 30°



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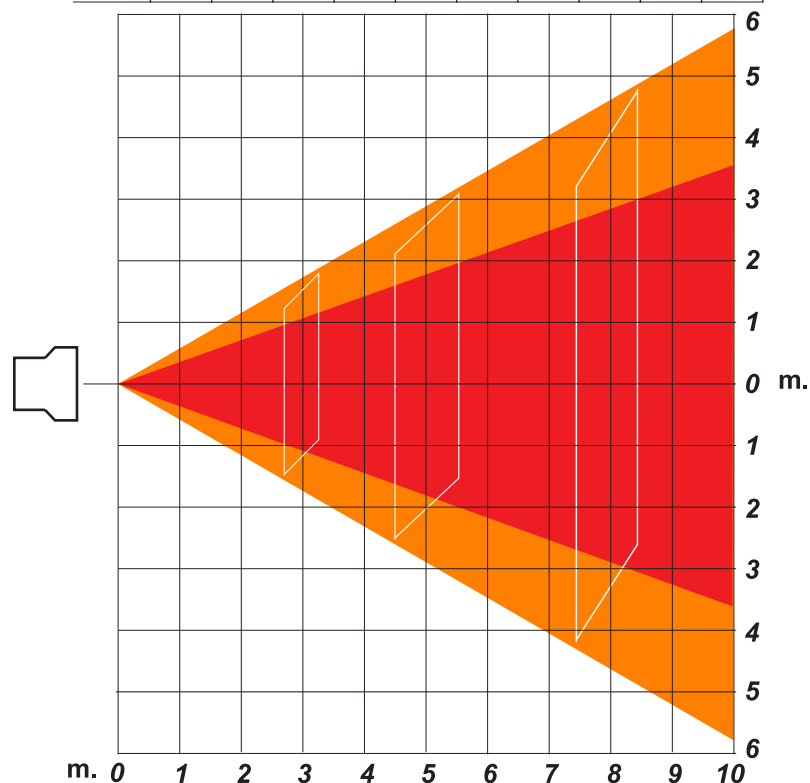
Lampada/Lamp

Date : 24/01/2011

Ver. N° 1.0

50° lenses- Vertical beam

Distance (m.)	1	2	3	4	5	6	7	8	9	10
Red	855	214	95	53	34	26	17	13	11	9
Green	1413	353	157	88	57	39	29	22	17	14
Blue	360	90	40	23	14	10	7	6	4	4
White	1467	367	163	92	59	41	30	23	18	15
All LEDs on	4050	1013	450	253	162	113	83	63	50	41
Ø 1/2 peak angle m.	0,26	0,53	0,79	1,05	1,32	1,58	1,84	2,11	2,37	2,63
Ø 1/10 peak angle m.	1,13	2,26	3,39	4,53	5,66	6,79	7,92	9,05	10,18	11,32

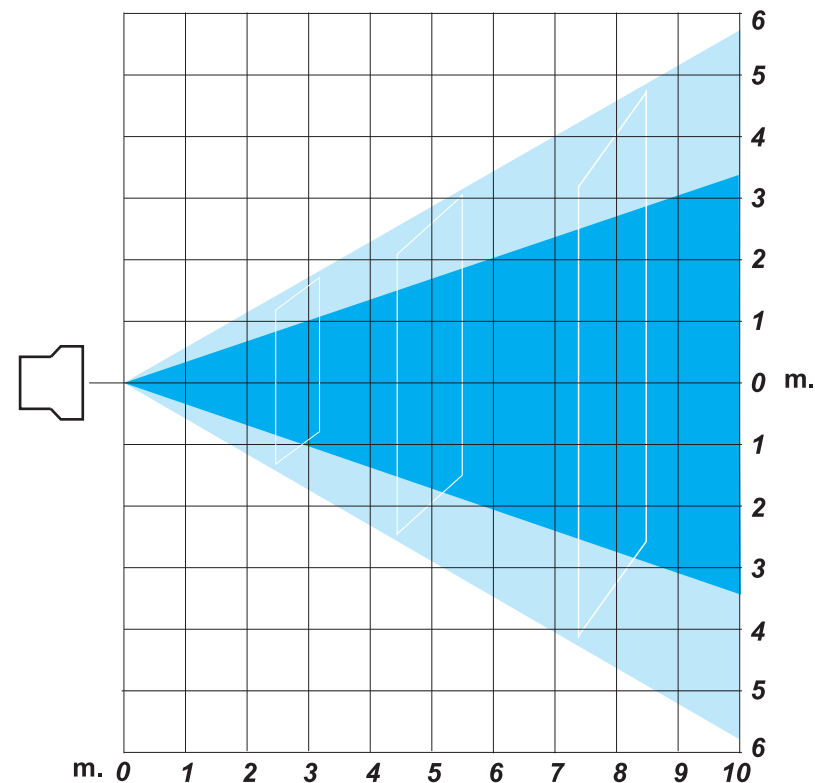


1/2 peak angle: 40°

1/10 peak angle: 60°

50° lenses- Horizontal beam

Distance (m.)	1	2	3	4	5	6	7	8	9	10
Ø 1/2 peak angle m.	0,69	1,38	2,07	2,75	3,44	4,13	4,82	5,51	6,20	6,89
Ø 1/10 peak angle m.	1,13	2,26	3,39	4,53	5,66	6,79	7,92	9,05	10,18	11,32



1/2 peak angle: 38°

1/10 peak angle: 60°



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