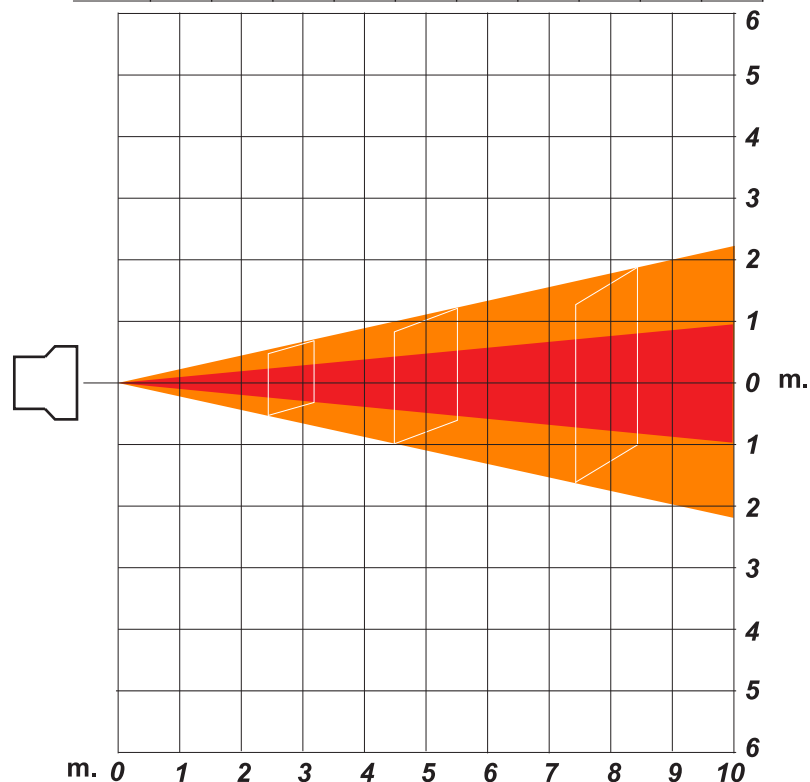


Elliptical lenses- Vertical beam

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	

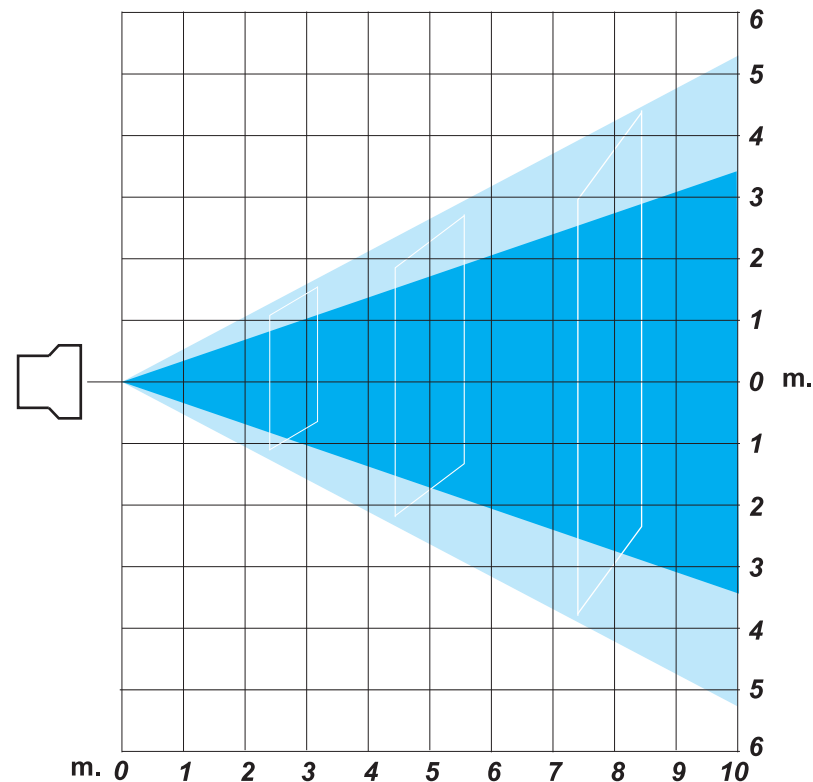


1/2 peak angle: 11°

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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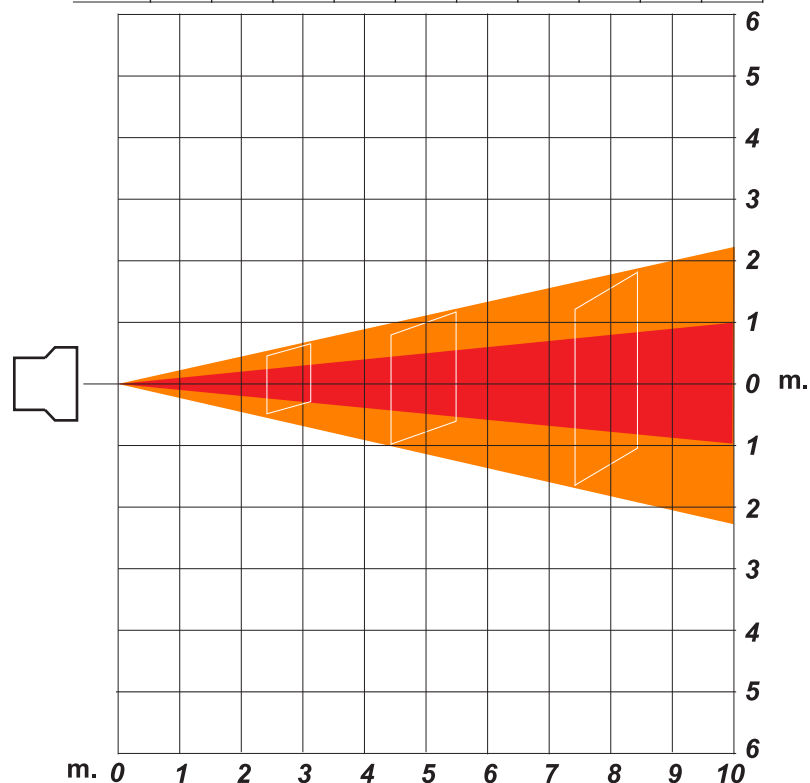
Lampada/Lamp

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	

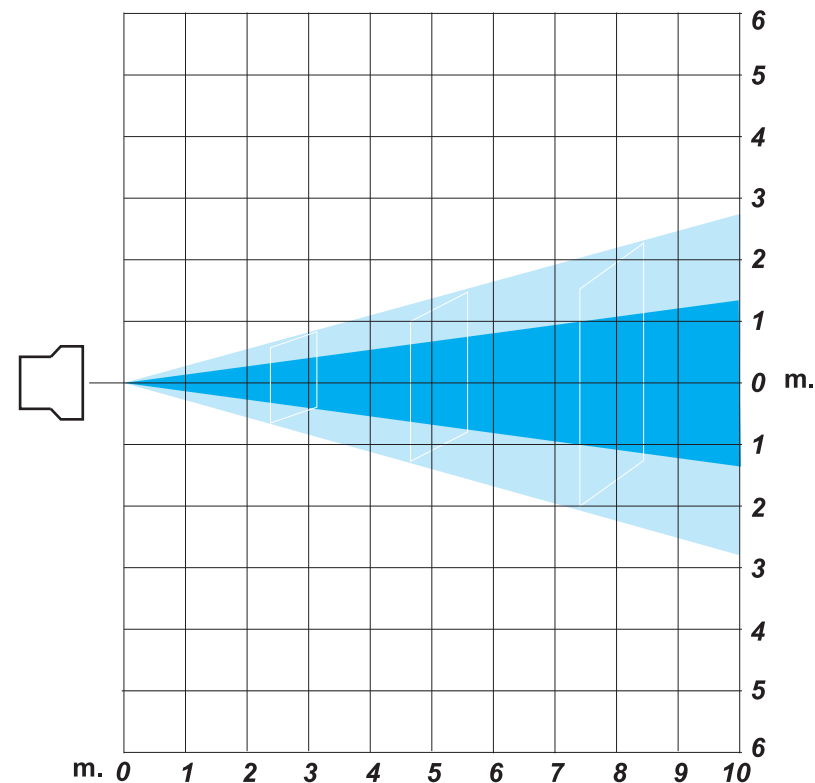


1/2 peak angle: 11°

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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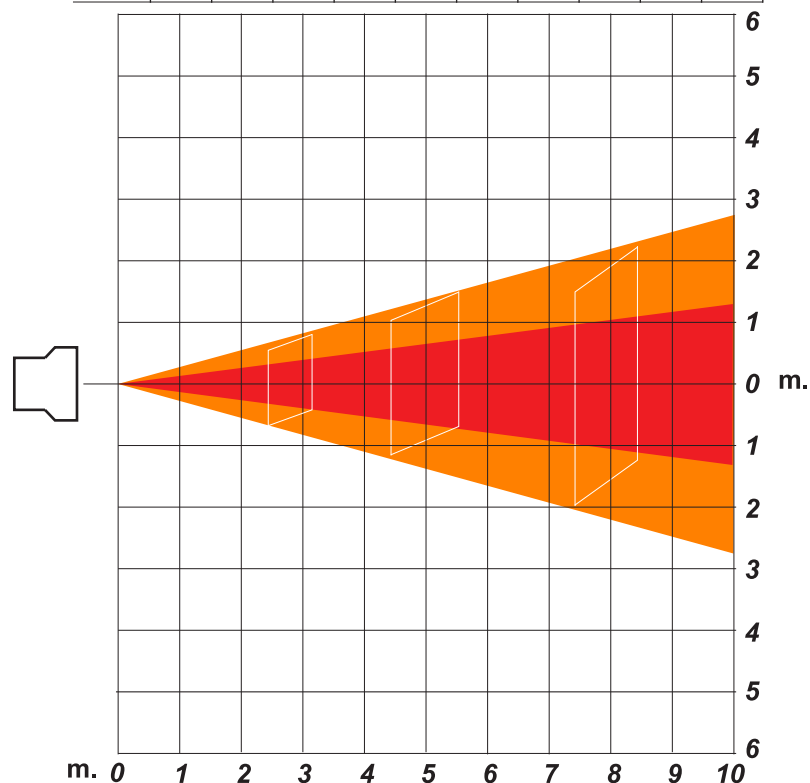
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30° lenses- Vertical beam

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	

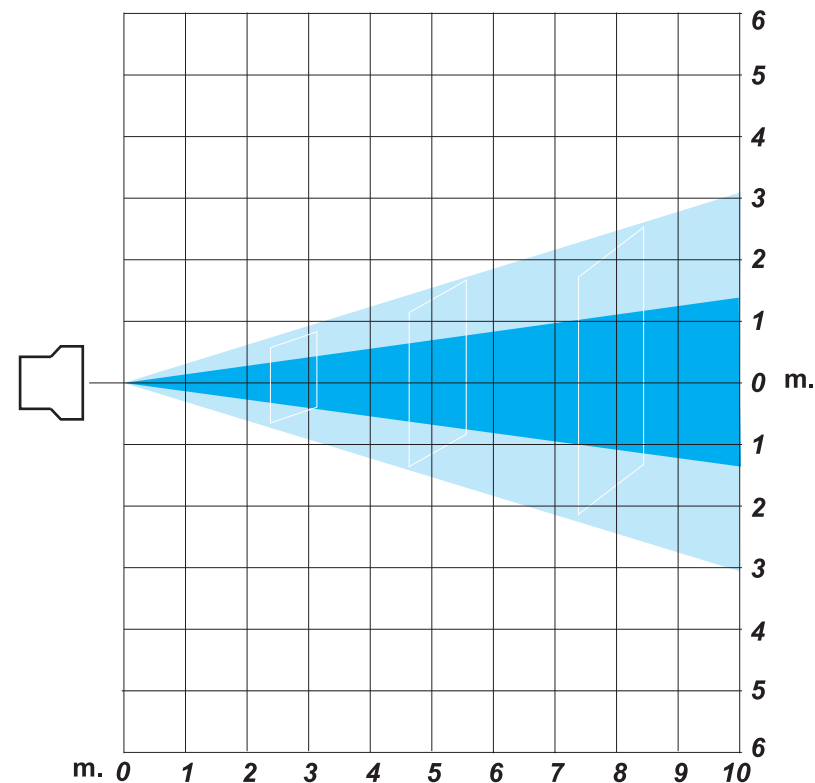


1/2 peak angle: 15°

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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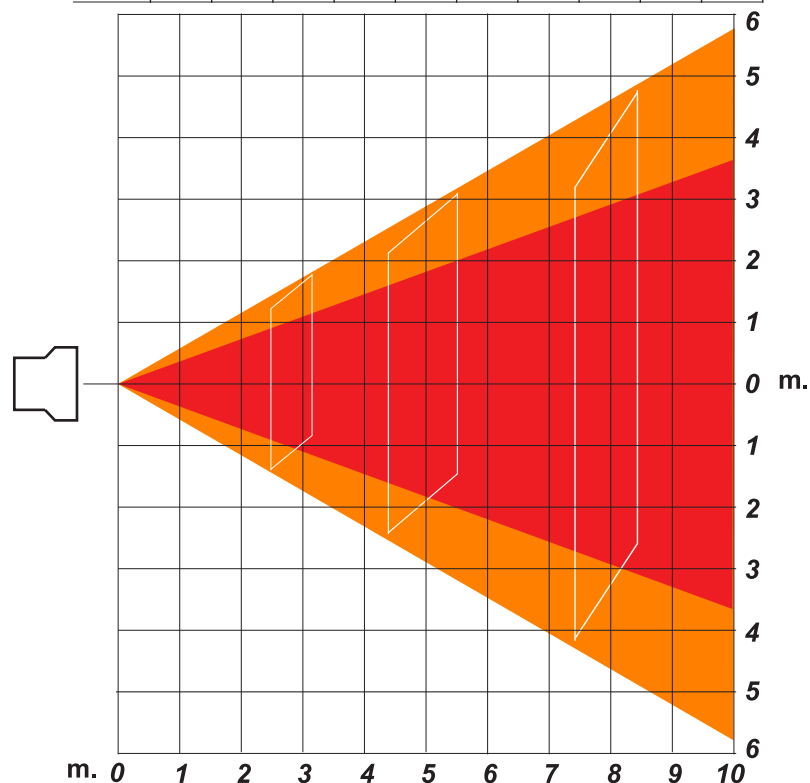
Lampada/Lamp

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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	

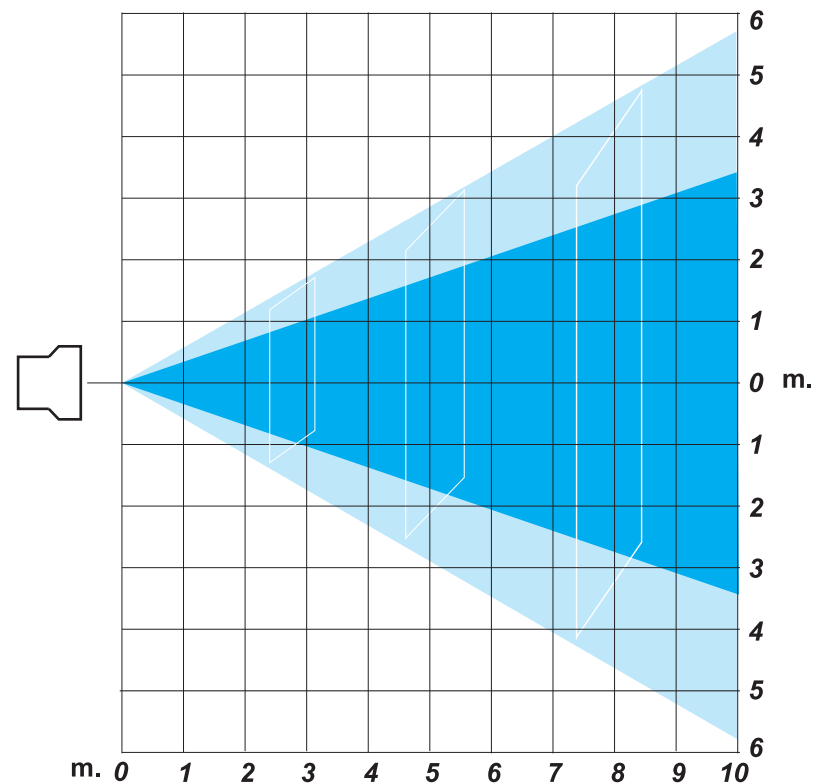


1/2 peak angle: 40°

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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