

Technical Brochure

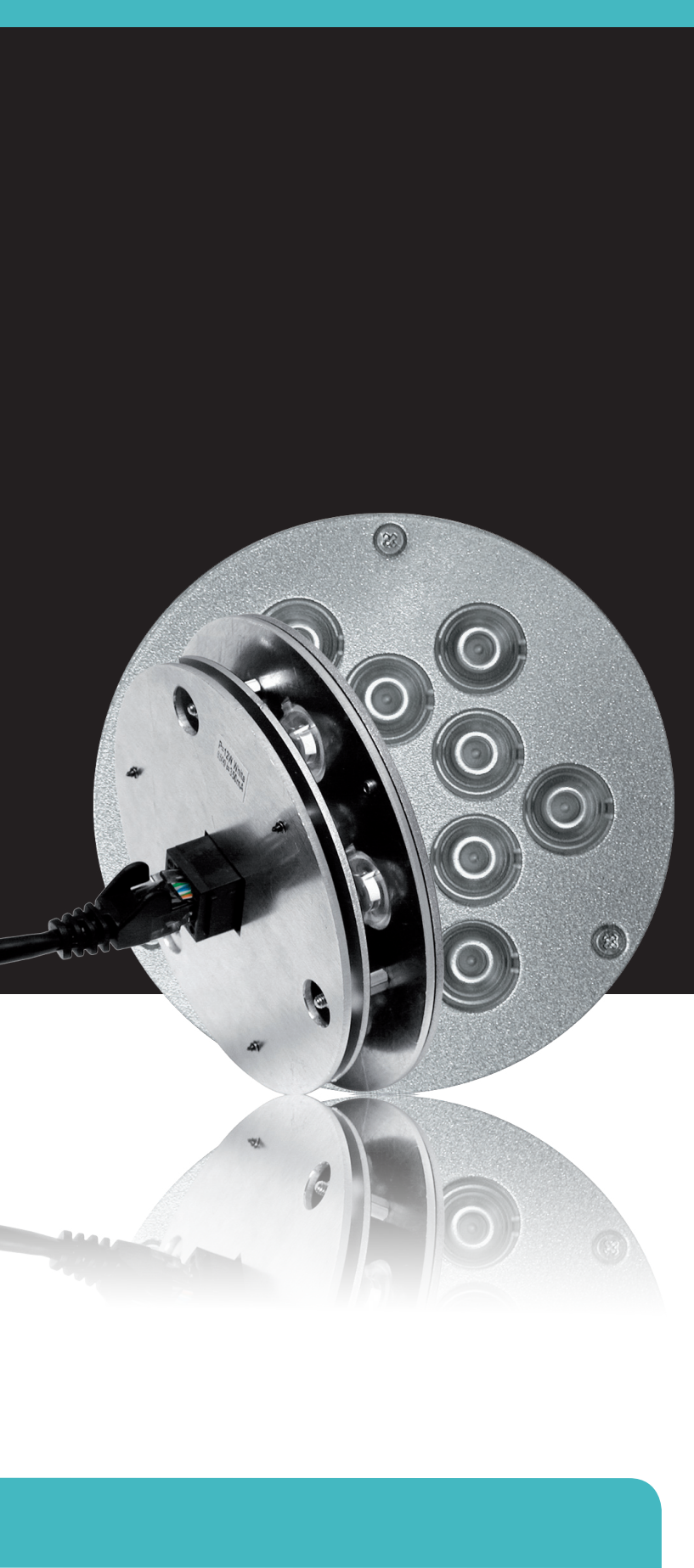


PCB 12 Led



Avantgarde Series

PCB 12 Led



PCB 12 Led

SPECIFICATIONS

RGB color mixing or single color

IP20 weahterproof rating

PHYSICAL SIZE

Diameter without lens: 100 mm (4.0 in)

Diameter with lens: 110.8 mm (4.3 in)

Height without lens: 25. 4 (1.0 in)

Height with lens: 37.4 mm (1.5 in)

Weight with lens: 184 g (0.4 lbs)

LIGHT SOURCE

12 LEDs Cree

CONTROL PROTOCOL AND PROGRAMMING

With RegoBox or Concept Design

ELECTRONICAL SPECIFICATIONS/CONNECTIONS

DC constant current power supply: 350 mA

Power consumption: 14.4 W

RJ45 connector IN

AVAILABLE LED SOURCE VERSION

Natural White 4200 K, White 3200 K, White 6050 K

ACCESSORIES

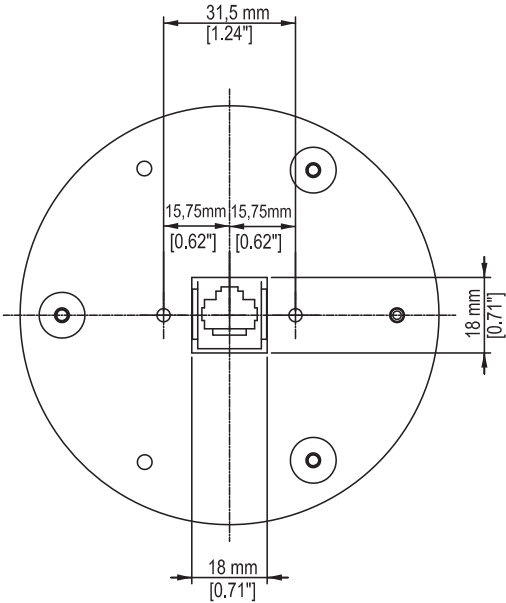
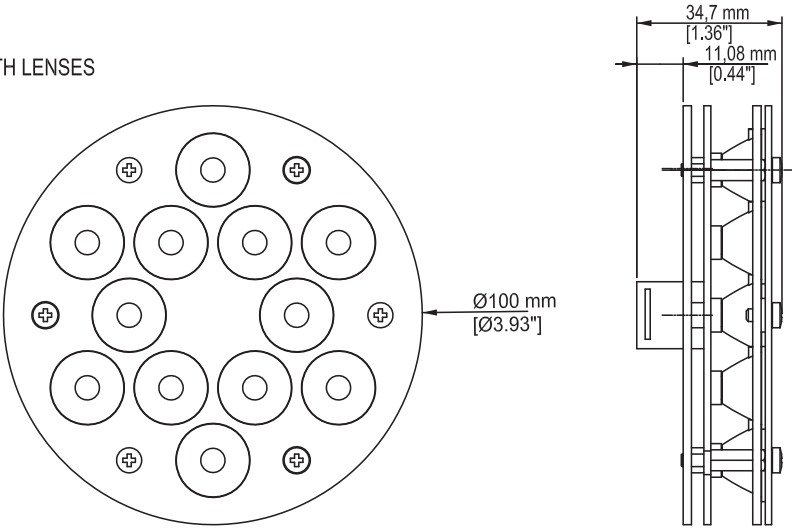
12° optics black (# OT12/12)

12° optics silver (# 12/12/G)

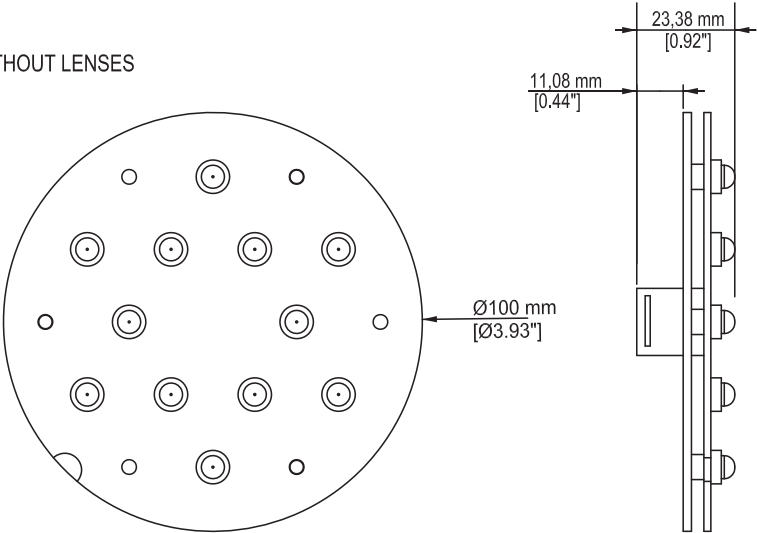
30° optics black (# 30/12)

30° optics silver (# 30/12/G)

WITH LENSES

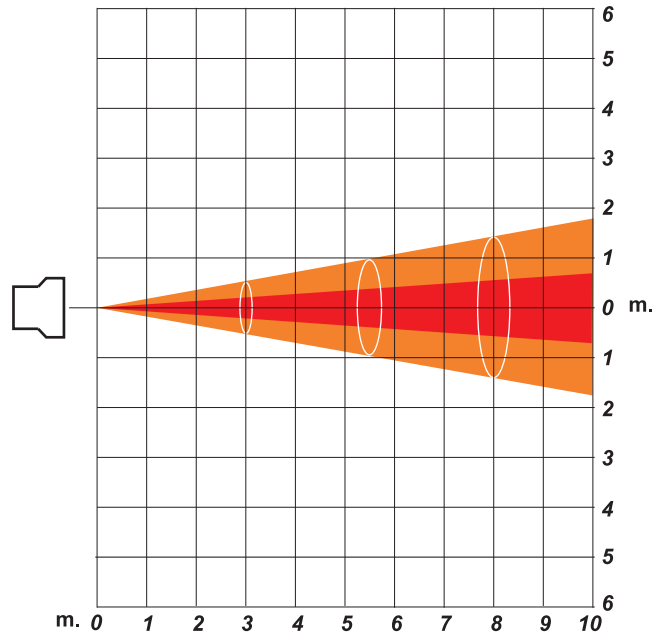


WITHOUT LENSES



12° Lenses

Distance (m.)	1	2	3	4	5	6	7	8	9	10	Lumen
Red	3150	788	350	197	126	88	64	49	39	32	68
Green	5850	1463	650	366	234	163	119	91	72	59	126
Blue	1845	461	205	115	74	51	38	29	23	18	40
Superwhite	10350	2588	1150	647	414	288	211	162	128	104	223
1/2 peak angle θ (m.)	0.15	0.29	0.44	0.58	0.73	0.88	1.02	1.17	1.31	1.46	
1/10 peak angle θ (m.)	0.36	0.72	1.08	1.44	1.80	2.16	2.53	2.89	3.25	3.61	

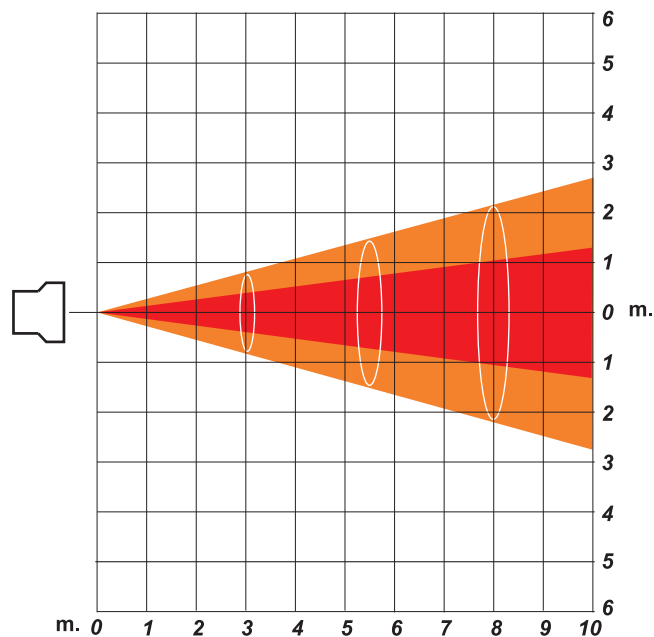


1/2 peak angle: 8°

1/10 peak angle: 20°

30° Lenses

Distance (m.)	1	2	3	4	5	6	7	8	9	10	Lumen
Red	1148	287	128	72	46	32	23	18	14	11	50
Green	2349	587	261	147	94	65	48	37	29	23	103
Blue	680	170	76	42	27	19	14	11	8	7	30
Superwhite	4073	1018	453	255	163	113	83	64	50	41	179
1/2 peak angle θ (m.)	0.27	0.55	0.82	1.10	1.37	1.65	1.92	2.20	2.47	2.75	
1/10 peak angle θ (m.)	0.55	1.09	1.64	2.18	2.73	3.27	3.82	4.36	4.91	5.45	

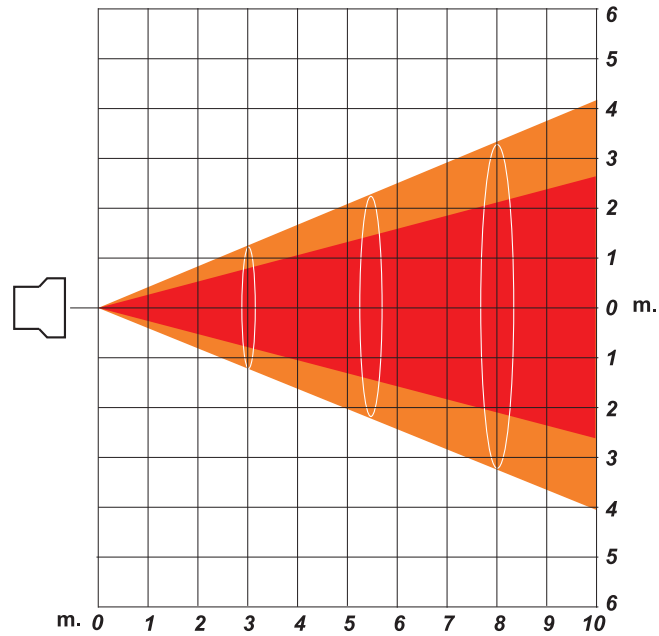


1/2 peak angle: 15°

1/10 peak angle: 30°

50° Lenses

Distance (m.)	1	2	3	4	5	6	7	8	9	10	Lumen
Red	245	61	27	15	10	7	5	4	3	2	54
Green	495	124	55	31	20	14	10	8	6	5	109
Blue	146	37	16	9	6	4	3	2	2	1	32
Superwhite	10350	2588	1150	647	414	288	211	162	128	104	193
1/2 peak angle α (m.)	0.55	1.10	1.65	2.20	2.75	3.30	3.85	4.40	4.95	5.5	
1/10 peak angle α (m.)	0.82	1.65	2.47	3.29	4.11	4.94	5.76	6.58	7.40	8.23	

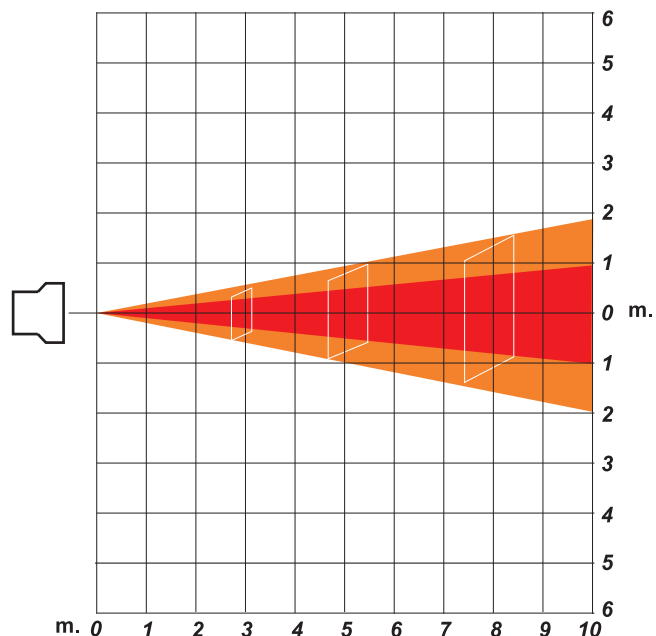


1/2 peak angle: 30°

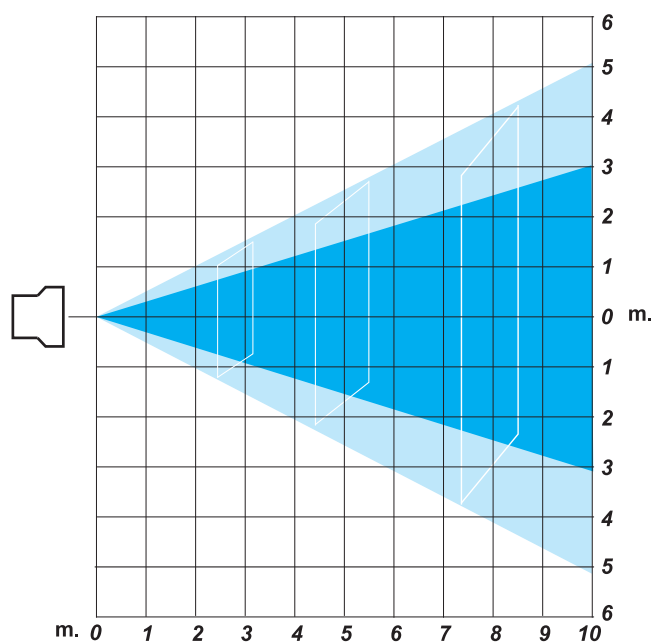
1/10 peak angle: 45°

Elliptic lenses- Vertical beam

Distance (m.)	1	2	3	4	5	6	7	8	9	10	Lumen
Red	788	197	88	49	32	22	16	12	10	8	95
Green	1440	360	160	90	58	40	29	23	18	14	174
Blue	389	97	43	24	16	11	8	6	5	4	47
Superwhite	2408	602	268	150	96	67	49	38	30	24	291
1/2 peak angle θ (m.)	0,20	0,40	0,59	0,79	0,99	1,19	1,39	1,58	1,78	1,98	
1/10 peak angle θ (m.)	0,40	0,80	1,21	1,61	2,01	2,41	2,82	3,22	3,62	4,02	

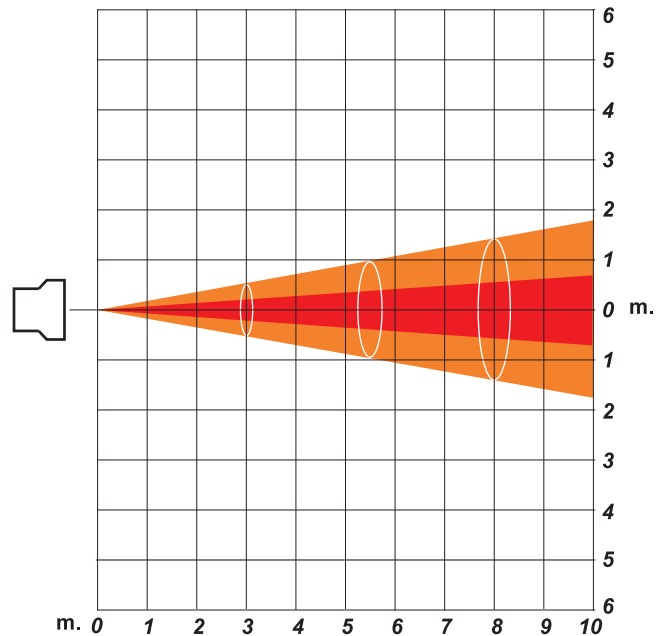
**1/2 peak angle: 11°****1/10 peak angle: 22°****Elliptic lenses- Horizontal beam**

Distance (m.)	1	2	3	4	5	6	7	8	9	10
θ 1/2 peak angle m.	0,63	1,26	1,88	2,51	3,14	3,77	4,40	5,02	5,65	6,28
θ 1/10 peak angle m.	0,81	1,61	2,42	3,23	4,04	4,84	5,65	6,46	7,26	8,7

**1/2 peak angle: 34°****1/10 peak angle: 54°**

12° Lenses

Distance (m.)	1	2	3	4	5	6	7	8	9	10	Lumen
Luminous emittance (Lux)	12902	3225	1434	806	516	358	263	202	159	129	197
Ø 1/2 peak angle m.	0,15	0,29	0,44	0,58	0,73	0,88	1,02	1,17	1,31	1,46	
Ø 1/10 peak angle m.	0,36	0,72	1,08	1,44	1,80	2,16	2,53	2,89	3,25	3,61	

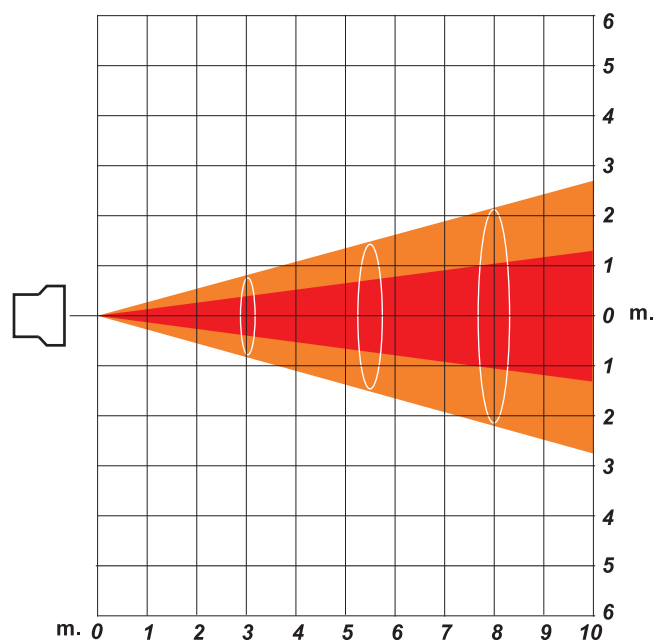


1/2 peak angle: 8°

1/10 peak angle: 20°

30° Lenses

Distance (m.)	1	2	3	4	5	6	7	8	9	10	Lumen
Luminous emittance (Lux)	4320	1080	480	270	173	120	88	68	53	43	232
Ø 1/2 peak angle m.	0,27	0,55	0,82	1,10	1,37	1,65	1,92	2,20	2,47	2,75	
Ø 1/10 peak angle m.	0,55	1,09	1,64	2,18	2,73	3,27	3,82	4,36	4,91	5,45	

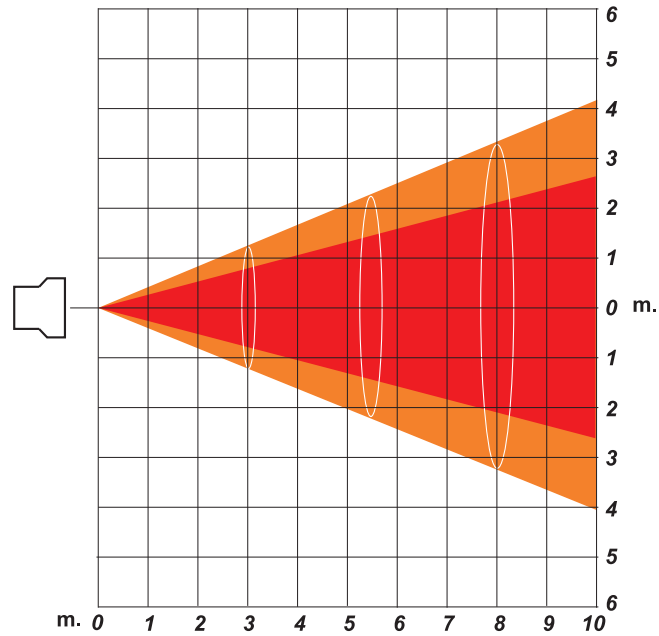


1/2 peak angle: 15°

1/10 peak angle: 30°

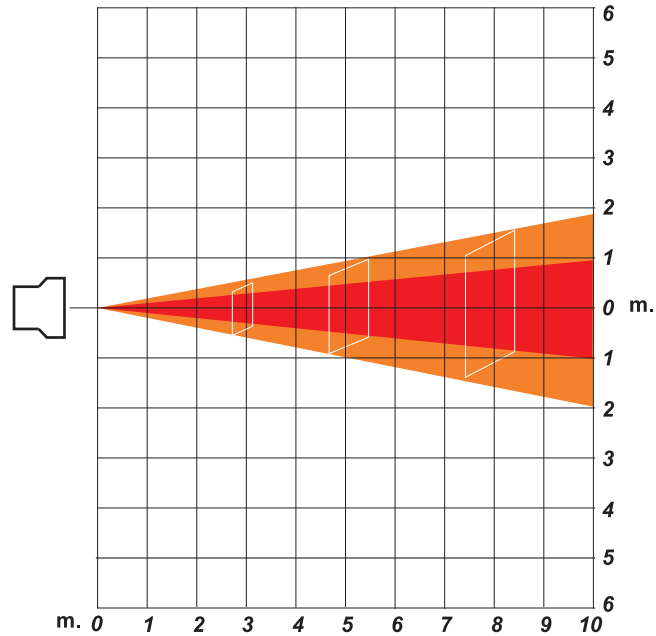
50° Lenses

Distance (m.)	1	2	3	4	5	6	7	8	9	10	Lumen
Luminous emittance (Lux)	1152	288	128	72	46	32	24	18	14	12	246
Ø 1/2 peak angle m.	0,55	1,10	1,65	2,20	2,75	3,30	3,85	4,40	4,95	5,5	
Ø 1/10 peak angle m.	0,82	1,65	2,47	3,29	4,11	4,94	5,76	6,58	7,40	8,23	

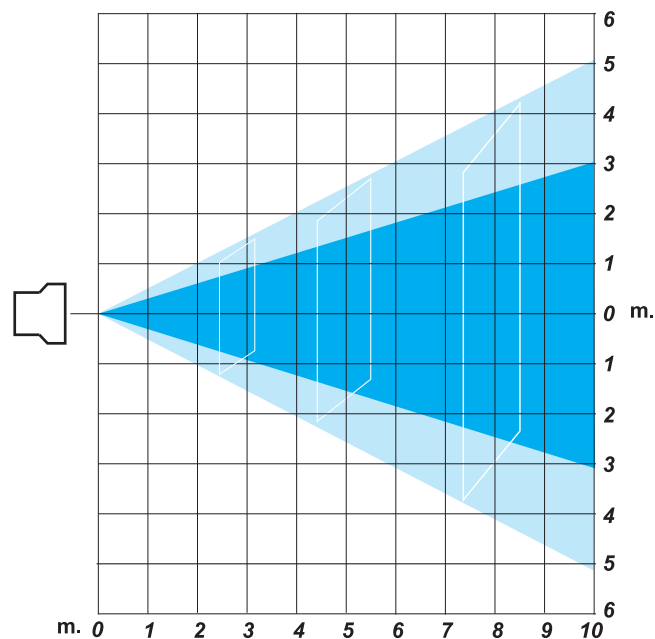
**1/2 peak angle: 30°****1/10 peak angle: 45°**

Elliptic lenses- Vertical beam

Distance (m.)	1	2	3	4	5	6	7	8	9	10	Lumen
Luminous emittance (Lux)	3083	771	343	193	123	86	63	48	38	31	344
Ø 1/2 peak angle m.	0,20	0,40	0,59	0,79	0,99	1,19	1,39	1,58	1,78	1,98	
Ø 1/10 peak angle m.	0,40	0,80	1,21	1,61	2,01	2,41	2,82	3,22	3,62	4,02	

**1/2 peak angle: 11°****1/10 peak angle: 22°****Elliptic lenses- Horizontal beam**

Distance (m.)	1	2	3	4	5	6	7	8	9	10
Ø 1/2 peak angle m.	0,63	1,26	1,88	2,51	3,14	3,77	4,40	5,02	5,65	6,28
Ø 1/10 peak angle m.	0,81	1,61	2,42	3,23	4,04	4,84	5,65	6,46	7,26	8,7

**1/2 peak angle: 34°****1/10 peak angle: 54°**



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