

Technical Brochure



REFLECTION
LEDKO™ VariWhite Series 2

Reflection Series

Preview



Reflection LEDko VariWhite Series 2

KEY FEATURES

- 2.700 K - 6.500 K Continuously Variable Correlated Color Temperature with color rendering index greater than 95 (CRI>95)
- An innovative "Multi-LED" light source producing a uniformed beam with no pixels or dots (Patented)
- Superior flat field optics
- Also compatible with new Fresnel and PC optics with shutters (Soft Profile)
- Guaranteed Flicker-free operation (DMX controlled PWM frequency)
- PowerCon In/Out, up to 8 fixtures powered in series for easy installations
- The fan setting allows two options : Auto, Silent
- Instant gobos from standard printers
- No maintenance required



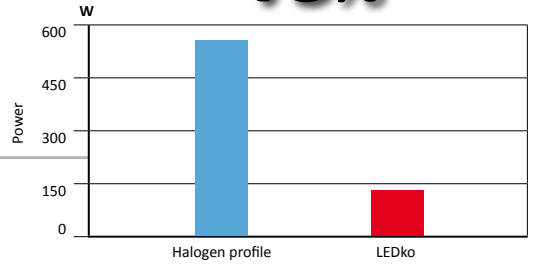
Reflection LEDko VariWhite Series 2 - PC10011A313

*Reflection LEDko VariWhite Series 2 equipped with PC optic

-75%

low power consumption

Reflection LEDko reduces power consumption levels by up to 75% and therefore recovers the financial investment within a few months.



Reflection LEDko VariWhite Series 2

SPECIFICATIONS

Proportional control of white color temperature from 2.700 to 6.500 K

Four blade framing system, each shutter blade is adjustable for radial position and angle

Electronic 16 bit dimming with 3 selectable curves (exponential, logarithmic, linear)

Synchronized, random or pulse electronic strobe

Flicker-free operation with LEDs frequency controlled via DMX from 600 Hz to 19000 Hz

Fan setting with 2 different options (Auto, Silent)

CE, ETL, UL approved

Weatherproof rating IP 20

PHYSICAL SIZE (With optic Soft Profile Fresnel)

Length: 601 mm (23.6 in)

Height: 189 mm (7.4 in)

Height with bracket: 372 mm (14.6 in)

Width: 212 mm (8.3 in)

Weight: 8.5 Kg (18.7 lbs)

PHYSICAL SIZE (Without optic)

Length: 362 mm (14.2 in)

Height: 189 mm (7.4 in)

Height with bracket: 372 mm (14.6 in)

Width: 212 mm (8.3 in)

Weight: 6 kg (13.2 lbs)

LIGHT SOURCE

Modular 210 W multiple LEDs , CRI>95

20,000-hour LED life (20,000 hours to 70% intensity)

CONTROL PROTOCOL AND PROGRAMMING

USITT DMX512A

DMX Channels: 5/1

Setting, addressing, testing and measurements via LEDs display

Remote Device Management (RDM)

ELECTRICAL SPECIFICATIONS/CONNECTIONS

AC power: 90-250 V, auto sensing, 50/60 Hz

In and Out PowerCon connectors to feed up to 8 (at 230 VAC) or 4 (90 VAC)

Power consumption: 1 A at 230 V, 2.6 A at 90 V - cosφ 0,9

DMX data in/out: 5 pin locking XLR

Reflection LEDko VariWhite Series 2 - Optics

Picture	Code	Description
	BC10011A017	Profile Zoom 15°-35°
	BC10011A019	Profile Zoom 25°-50°
	BC10011A003	Profile Zoom 28°-40°
	BC10011A002	Soft Profile Fresnel Zoom 14°- 40°
	BC10011A001	Soft Profile PC Zoom 11°- 38°



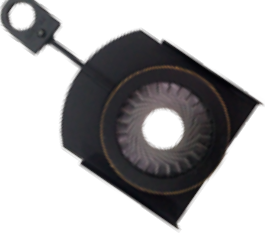
Reflection LEDko VariWhite Series 2 - Optics

Picture	Code	Description
	BC10011A200	Front barrel for lens tube with burnished blades
	BC10011A012	Profile 19°, lens tube
	BC10011A013	Profile 26°, lens tube
	BC10011A015	Profile 36°, lens tube
	BC10011A016	Profile 50°, lens tube





Reflection LEDko VariWhite Series 2 - Optics

Picture	Code	Description
	BC10011A023	Profile 14°, lens tube
	BC10011A024	Profile 70°, lens tube
	BC10011A025	Profile 90°, lens tube


Reflection LEDko VariWhite Series 2 - Accessories

Picture	Code	Description
	<p>ACO4202</p>	<p>4 leaf barndoor</p>
	<p>BC10011A006</p>	<p>Gobo frame holder</p>
	<p>BC10011A030</p>	<p>Gobo glass holder</p>
	<p>BC10011A010</p>	<p>Iris</p>

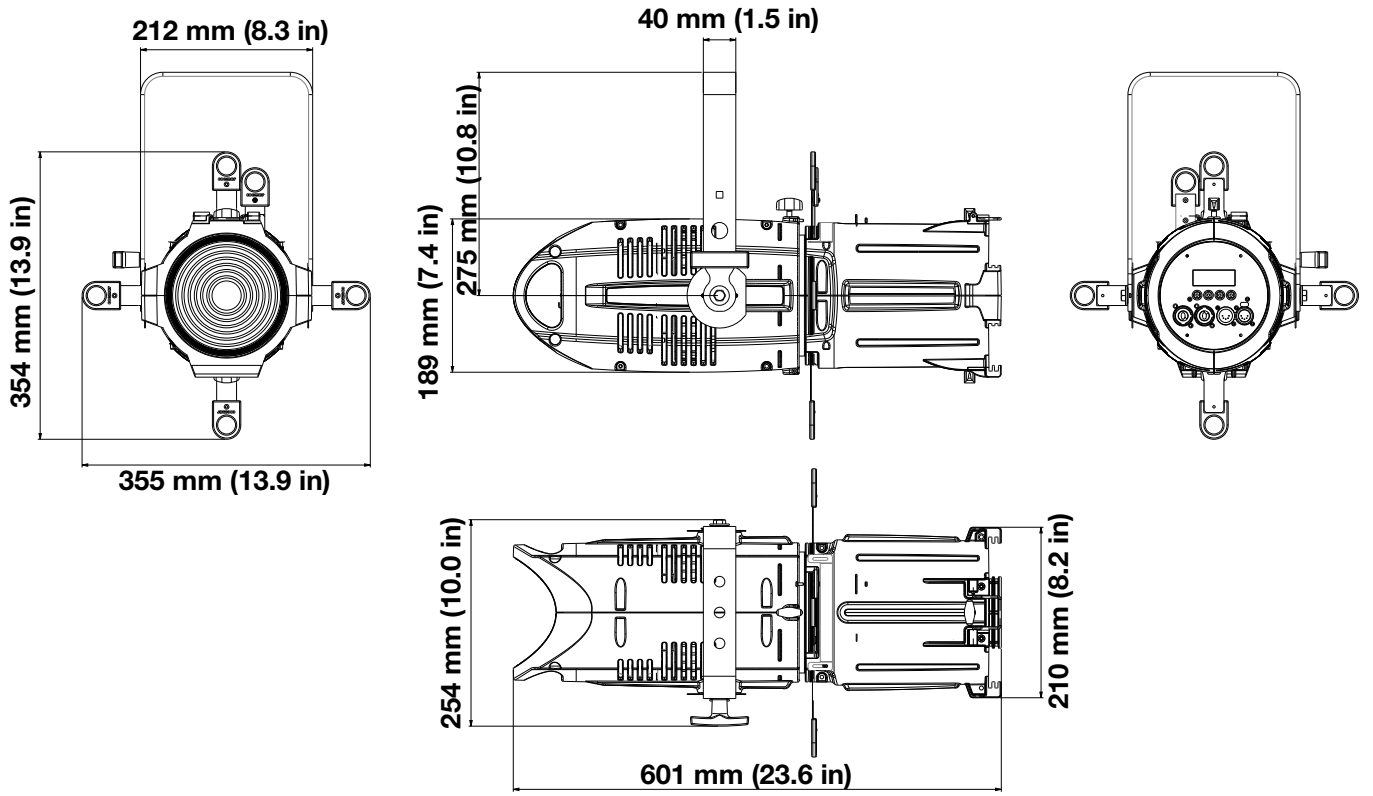
Reflection LEDko VariWhite Series 2 - Accessories

Picture	Code	Description
	<p>BC10011A028 BC10011A036 BC10011A032</p>	<p>Donut for Profile Zoom (190.5 mm) Donut for Soft Profile (185 mm) Donut for Lens Tube (159 mm)</p>
	<p>BC10011A027 BC10011A035 BC10011A031</p>	<p>Half Top Hat for Profile Zoom (190.5 mm) Half Top Hat for Soft Profile (185 mm) Half Top Hat for Lens Tube (159 mm)</p>
	<p>BC10011A029 BC10011A037 BC10011A033</p>	<p>Top Hat for Profile Zoom (190.5 mm) Half Top Hat for Soft Profile (185 mm) Half Top Hat for Lens Tube (159 mm)</p>
	<p>BC10011A040 ACO4204 BC10011A021</p>	<p>Colour Frame Holder for Profile Zoom (190.5 mm) Colour Frame Holder for Soft Profile (185 mm) Colour Frame Holder for Lens Tube (159 mm)</p>

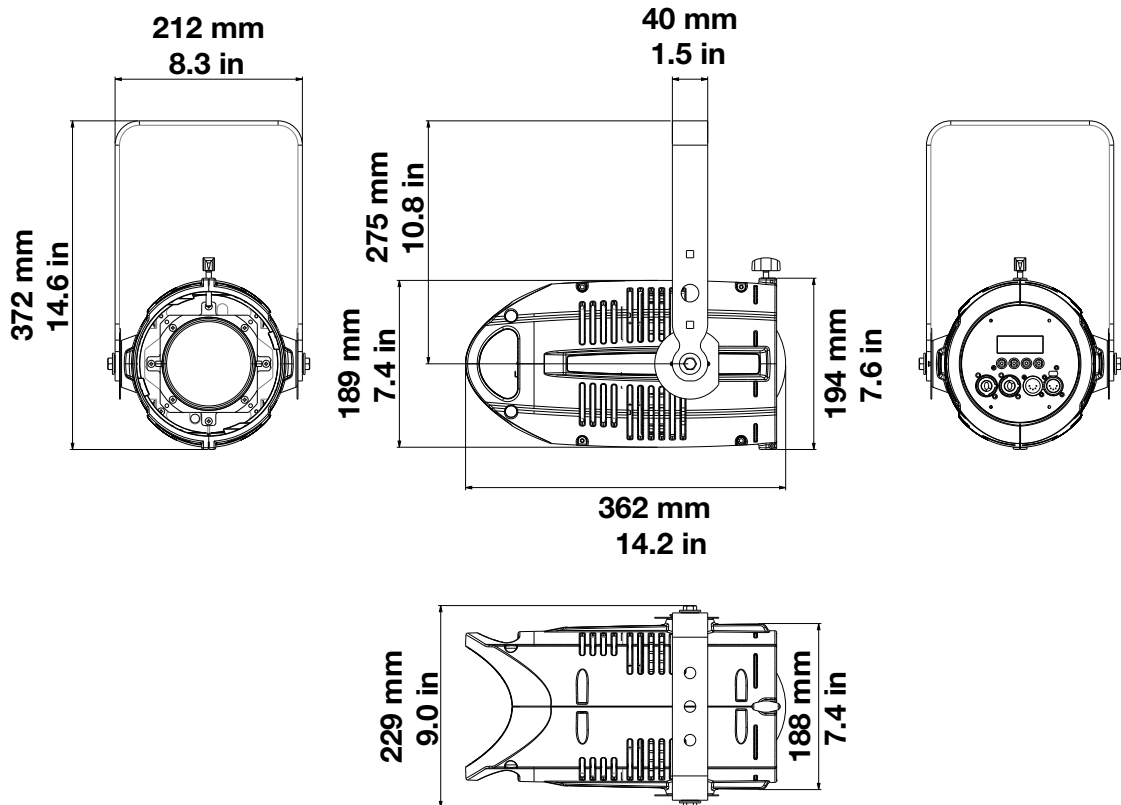
Reflection LEDko VariWhite Series 2 - Accessories

Picture	Code	Description
	BC10011A047	Hook Clamp 48 - 51 mm (Safe Working Load 20 Kg.)
	BC10011A045	Light Clamp silver 48 - 51 mm (Safe Working Load 75 Kg.)
	BC10011A046	Light Clamp black 48 - 51 mm (Safe Working Load 75 Kg.)
	BC10011A043	Clamp silver flat 13 - 30 mm / \varnothing 15 - 50 mm (Safe Working Load: 20 Kg.)
	BC10011A044	Clamp black flat 13 - 30 mm / \varnothing 15 - 50 mm (Safe Working Load 20 Kg.)

Reflection LEDko VariWhite Series 2 - Drawing Size



Reflection LEDko with optic Soft Profile Fresnel

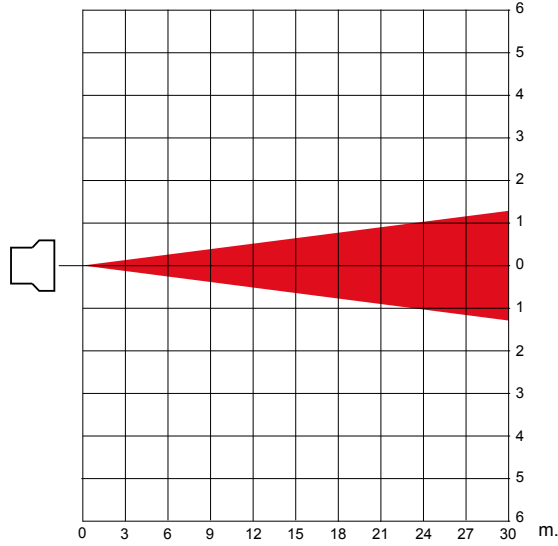


DMX Chart 5 Channels	
channel	effect
1	Master dimmer
2	White tone
3	Dimmer fine
4	Strobe
5	Special functions

DMX Chart 1 Channels	
channel	effect
1	Master dimmer

Profile 5°

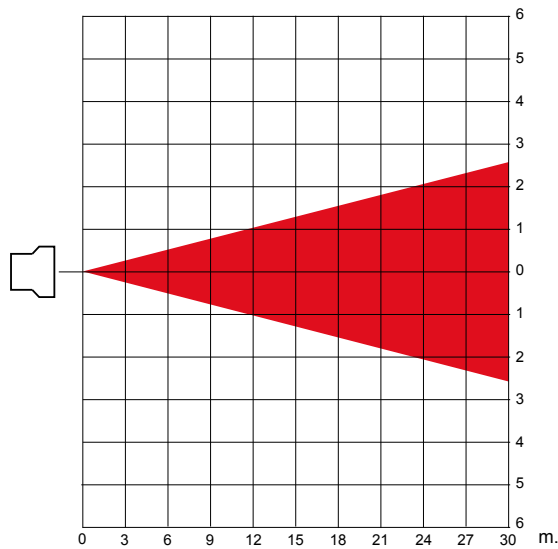
Distance (m.)	3	6	9	12	15	18	21	24	27	30	
3200 K	65987	16497	7332	4124	2639	1833	1347	1031	815	660	
Luminous emittance (Lux)	5600 K	77856	19464	8651	4866	3114	2163	1589	1216	961	779
\varnothing (m.)	0.26	0.52	0.79	1.05	1.31	1.57	1.83	2.10	2.36	2.62	



Angle: 5°

Profile 10°

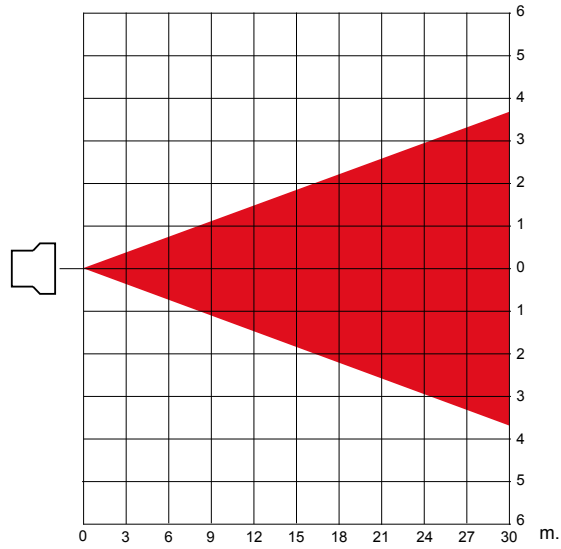
Distance (m.)	3	6	9	12	15	18	21	24	27	30	
3200 K	39309	9827	9827	2457	1572	1092	802	614	485	393	
Luminous emittance (Lux)	5600 K	45624	11406	5069	2852	1825	1267	931	713	563	456
\varnothing (m.)	0.52	1.05	1.57	2.10	2.62	3.15	3.67	4.20	4.72	5.25	



Angle: 10°

Profile 14°

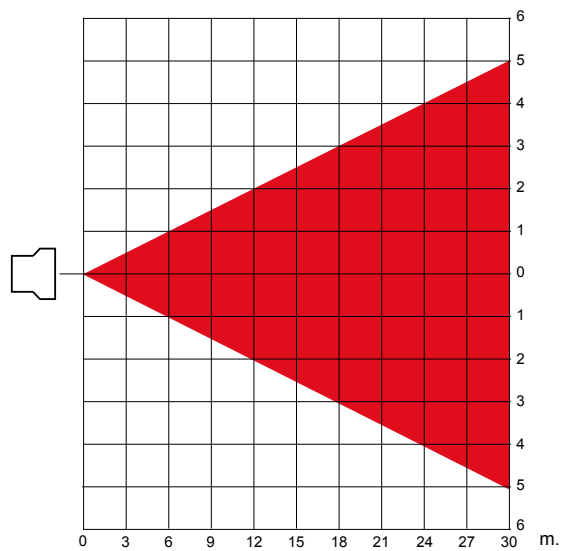
Distance (m.)	3	6	9	12	15	18	21	24	27	30	
3200 K	19845	4961	2205	1240	794	551	405	310	245	198	
Luminous emittance (Lux)	5600 K	22812	5703	2535	1426	912	634	466	356	282	228
Ø (m.)	0.74	1.47	2.21	2.95	3.68	4.42	5.16	5.89	6.63	7.37	



Angle: 14°

Profile 19°

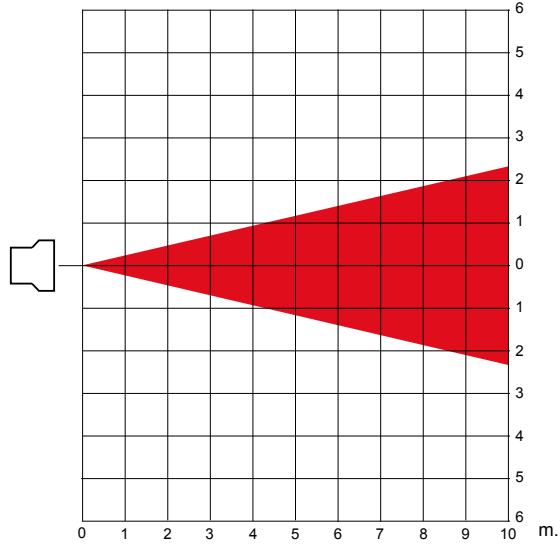
Distance (m.)	3	6	9	12	15	18	21	24	27	30	
3200 K	12114	3028	1346	757	485	336	247	189	150	121	
Luminous emittance (Lux)	5600 K	14019	3505	1558	876	561	389	286	219	173	140
Ø (m.)	1.00	2.01	3.01	4.02	5.02	6.02	7.03	8.03	9.04	10.04	



Angle: 19°

Profile 26°

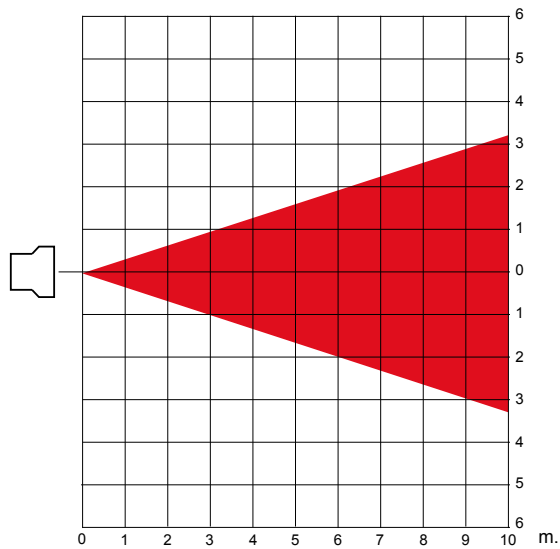
Distance (m.)	1	2	3	4	5	6	7	8	9	10
3200 K	61250	15313	6806	3828	2450	1701	1250	957	756	613
Luminous emittance (Lux)	5600 K	71050	17763	7894	4441	2842	1974	1450	1110	877
Ø (m.)	0.46	0.92	1.39	1.85	2.31	2.77	3.23	3.69	4.16	4.62



Angle: 26°

Profile 36°

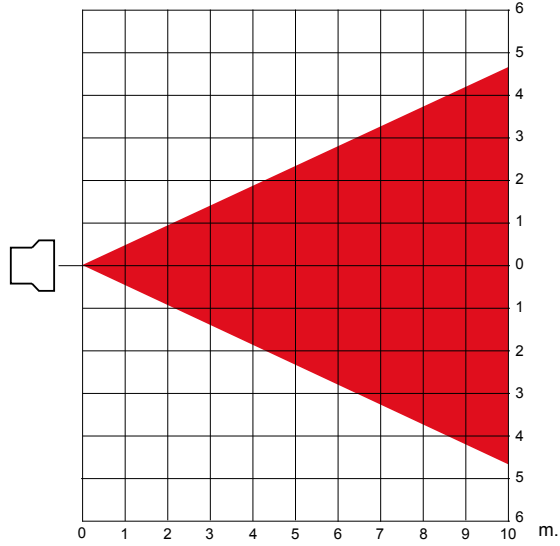
Distance (m.)	1	2	3	4	5	6	7	8	9	10
3200 K	33810	8453	3757	2113	1352	939	690	528	417	338
Luminous emittance (Lux)	5600 K	39200	9800	4356	2450	1568	1089	800	613	484
Ø (m.)	0.65	1.30	1.95	2.60	3.25	3.90	4.55	5.20	5.85	6.50



Angle: 36°

Profile 50°

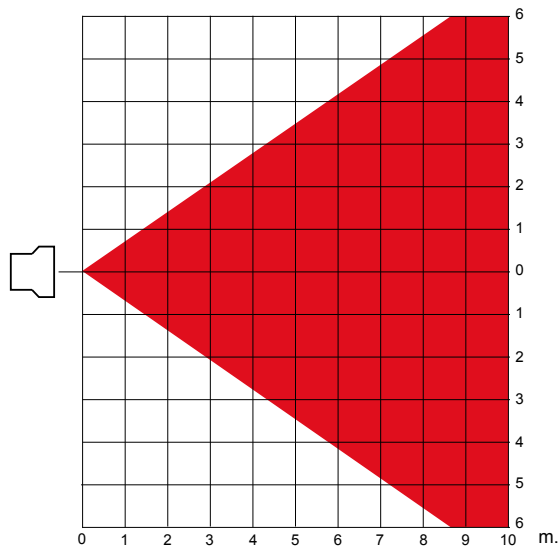
Distance (m.)	1	2	3	4	5	6	7	8	9	10
3200 K	16562	4141	1840	1035	662	460	338	259	204	166
Luminous emittance (Lux)	19110	4778	2123	1194	764	531	390	299	236	191
Ø (m.)	0.93	1.87	2.80	3.73	4.66	5.60	6.53	7.46	8.39	9.33



Angle: 50°

Profile 70°

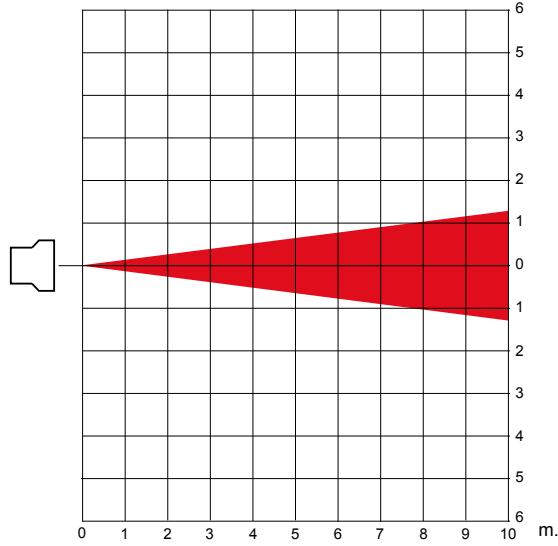
Distance (m.)	1	2	3	4	5	6	7	8	9	10
3200 K	11515	2879	1279	720	461	320	235	180	142	115
Luminous emittance (Lux)	13328	3332	1481	833	533	370	272	208	165	133
Ø (m.)	1.40	2.80	4.20	5.60	7.00	8.40	9.80	11.20	12.60	14.00



Angle: 70°

Profile 15°/35° Zoom min.

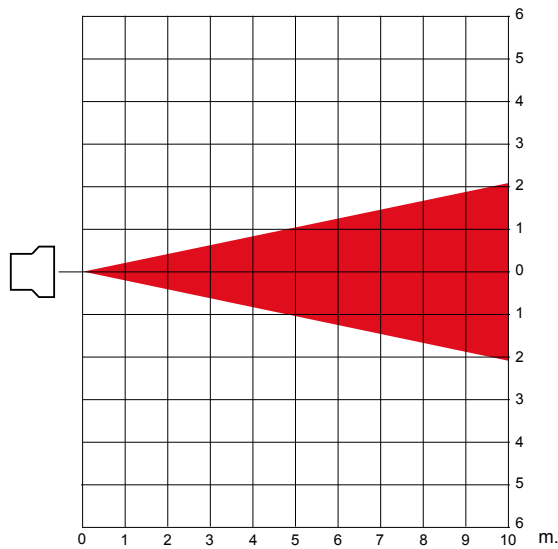
Distance (m.)	1	2	3	4	5	6	7	8	9	10
Luminous 3200 K	146020	36505	16224	9126	5841	4056	2980	2282	1803	1460
Luminous 5600 K	171010	42753	19001	10688	6840	4750	3490	2672	2111	1710
emittance (Lux)										
Ø (m.)	0.26	0.53	0.79	1.05	1.32	1.58	1.84	2.11	2.37	2.63



Angle: 15°

Profile 15°/35° Zoom med.

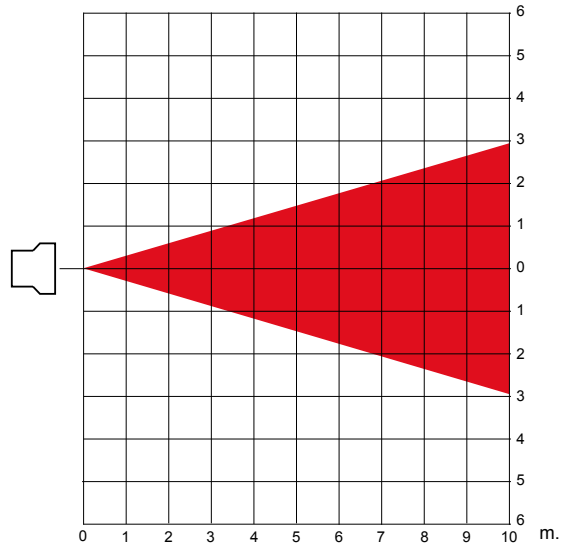
Distance (m.)	1	2	3	4	5	6	7	8	9	10
Luminous 3200 K	67620	16905	7513	4226	2705	1878	1380	1057	835	676
Luminous 5600 K	78400	19600	8711	4900	3136	2178	1600	1225	968	784
emittance (Lux)										
Ø (m.)	0.43	0.85	1.28	1.70	2.13	2.55	2.98	3.40	3.83	4.25



Angle: 24°

Profile 15°/35° Zoom max.

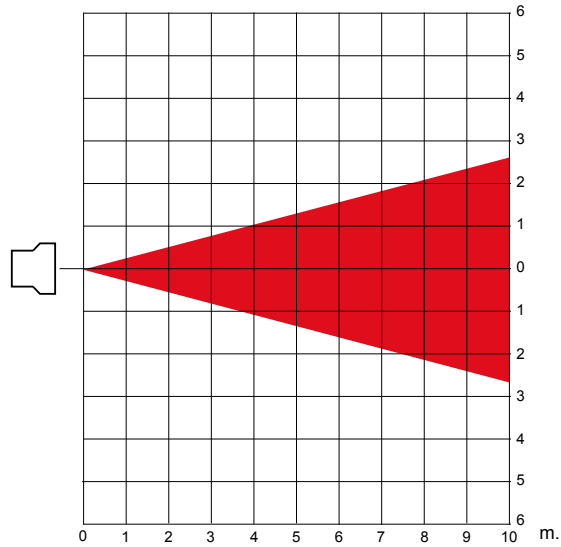
Distance (m.)	1	2	3	4	5	6	7	8	9	10	
Luminous	3200 K	43365	10841	4818	2710	1735	1205	885	678	535	434
emittance (Lux)	5600 K	50470	12618	5608	3154	2019	1402	1030	789	623	505
Ø (m.)	0.59	1.18	1.78	2.37	2.96	3.55	4.15	4.74	5.33	5.92	



Angle: 33°

Profile 25°/50° Zoom min.

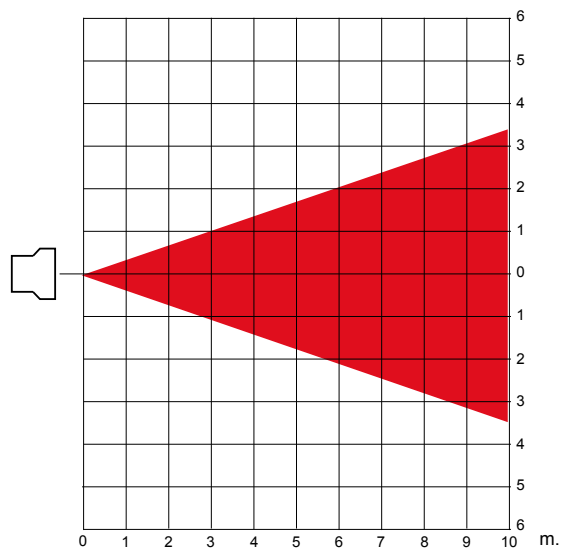
Distance (m.)	1	2	3	4	5	6	7	8	9	10	
3200 K	47775	11944	5308	2986	1911	1327	975	746	590	478	
Luminous emittance (Lux)	5600 K	54880	13720	6098	3430	2195	1524	1120	858	678	549
Ø (m.)	0.52	1.03	1.55	2.07	2.59	3.10	3.62	4.14	4.66	5.17	



Angle: 29°

Profile 25°/50° Zoom med.

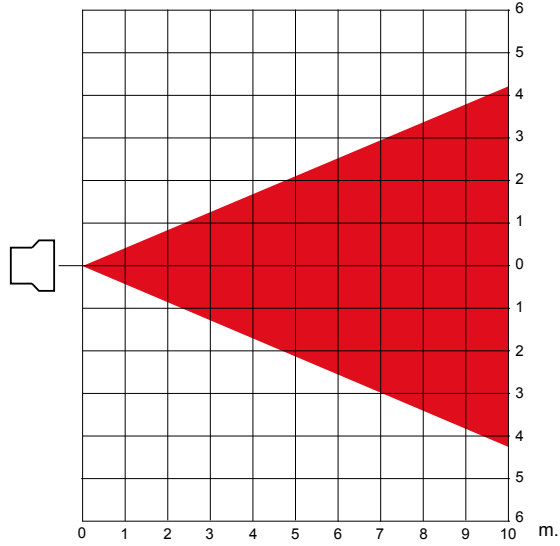
Distance (m.)	1	2	3	4	5	6	7	8	9	10	
3200 K	29645	7411	3294	1853	1186	823	605	463	366	296	
Luminous emittance (Lux)	5600 K	34790	8698	3866	2174	1392	966	710	544	430	348
Ø (m.)	0.69	1.38	2.07	2.75	3.44	4.13	4.82	5.51	6.20	6.89	



Angle: 38°

Profile 25°/50° Zoom max.

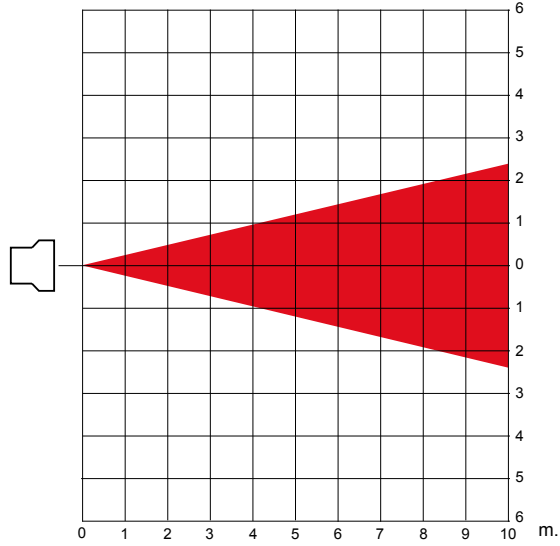
Distance (m.)	1	2	3	4	5	6	7	8	9	10
Luminous 3200 K	21168	5292	2352	1323	847	588	432	331	261	212
Luminous 5600 K	24500	6125	2722	1531	980	681	500	383	302	245
Ø (m.)	0.85	1.70	2.55	3.40	4.24	5.09	5.94	6.79	7.64	8.49



Angle: 46°

Profile 28°/40° Zoom min.

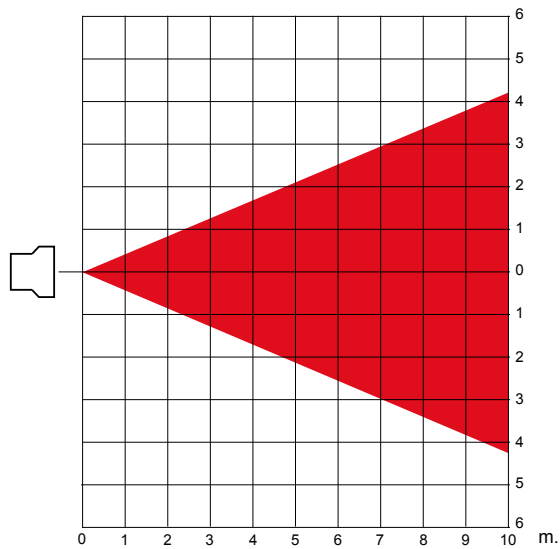
Distance (m.)	1	2	3	4	5	6	7	8	9	10	
3200 K	59780	14945	6642	3736	2391	1661	1220	934	738	598	
Luminous emittance (Lux)	5600 K	69090	17273	7677	4318	2764	1919	1410	1080	853	691
Ø (m.)	0.48	0.96	1.44	1.92	2.40	2.88	3.36	3.84	4.32	4.80	



Angle: 27°

Profile 28°/40° Zoom max.

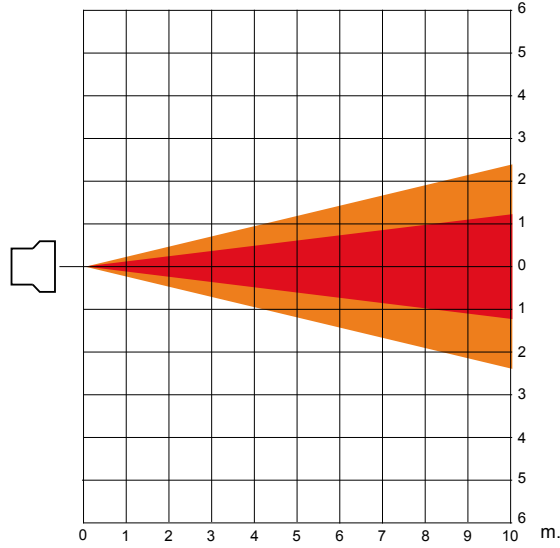
Distance (m.)	1	2	3	4	5	6	7	8	9	10	
3200 K	25480	6370	2831	1593	1019	708	520	398	315	255	
Luminous emittance (Lux)	5600 K	29645	7411	3294	1853	1186	823	605	463	366	296
Ø (m.)	0.83	1.66	2.49	3.31	4.14	4.97	5.80	6.63	7.46	8.28	



Angle: 45°

Soft Profile F Zoom min.

Distance (m.)	1	2	3	4	5	6	7	8	9	10
Luminous emittance (Lux)	3200 K 38220	9555	4247	2389	1529	1062	780	597	472	382
	5600 K 44590	11148	4954	2787	1784	1239	910	697	550	446
1/2 peak angle Ø (m.)	0.25	0.49	0.74	0.98	1.23	1.47	1.72	1.96	2.21	2.46
1/10 peak angle Ø (m.)	0.48	0.96	1.44	1.92	2.40	2.88	3.36	3.84	4.32	4.80

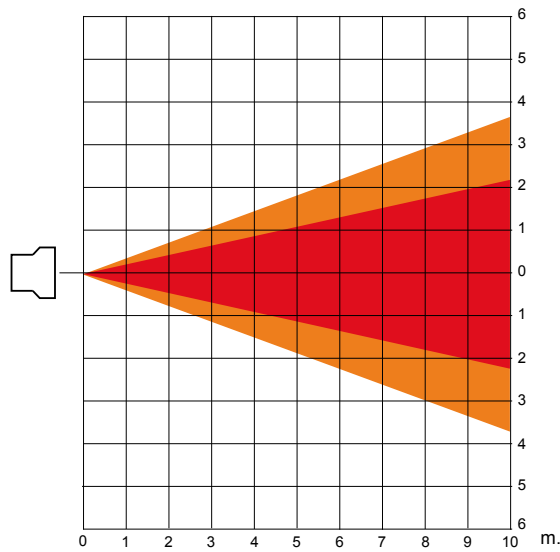


1/2 peak angle: 14°

1/10 peak angle: 27°

Soft Profile F Zoom max.

Distance (m.)	1	2	3	4	5	6	7	8	9	10
Luminous emittance (Lux)	3200 K 26950	6738	2994	1684	1078	749	550	421	333	270
	5600 K 31752	7938	3528	1985	1270	882	648	496	392	318
1/2 peak angle Ø (m.)	0.43	0.85	1.28	1.70	2.13	2.55	2.98	3.40	3.83	4.25
1/10 peak angle Ø (m.)	0.73	1.46	2.18	2.91	3.64	4.37	5.10	5.82	6.55	7.28

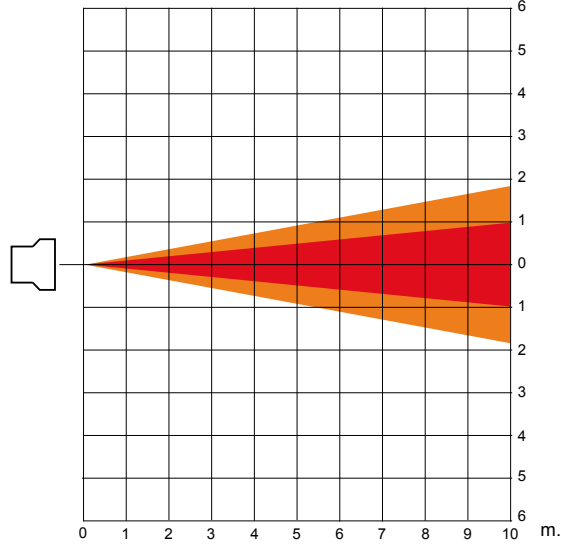


1/2 peak angle: 24°

1/10 peak angle: 40°

Soft Profile PC Zoom min.

Distance (m.)	1	2	3	4	5	6	7	8	9	10
Luminous 3200 K	60270	15068	6697	3767	2411	1674	1230	942	744	603
emittance (Lux) 5600 K	70315	17579	7813	4395	2813	1953	1435	1099	868	703
1/2 peak angle Ø (m.)	0.19	0.39	0.58	0.77	0.96	1.16	1.35	1.54	1.73	1.93
1/10 peak angle Ø (m.)	0.37	0.74	1.11	1.48	1.85	2.22	2.59	2.97	3.34	3.71

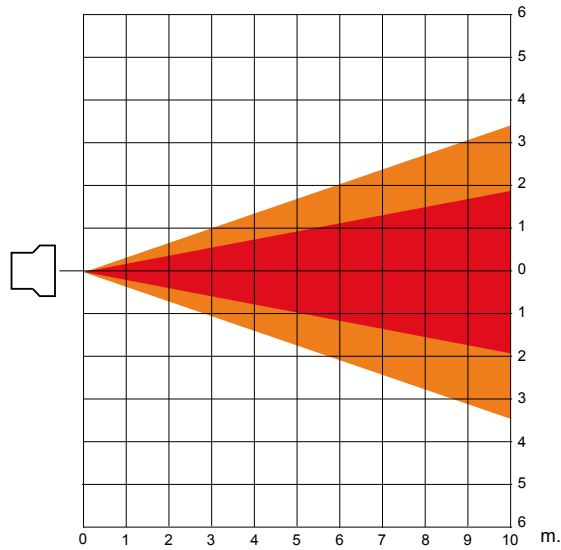


1/2 peak angle: 11°

1/10 peak angle: 21°

Soft Profile PC Zoom max.

Distance (m.)	1	2	3	4	5	6	7	8	9	10
Luminous 3200 K	27244	6811	3027	1703	1090	757	556	426	336	272
emittance (Lux) 5600 K	31850	7963	3539	1991	1274	885	650	498	393	319
1/2 peak angle Ø (m.)	0.39	0.78	1.17	1.56	1.94	2.33	2.72	3.11	3.50	3.89
1/10 peak angle Ø (m.)	0.69	1.38	2.07	2.75	3.44	4.13	4.82	5.51	6.20	6.89



1/2 peak angle: 22°

1/10 peak angle: 38°



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