

Technical Brochure



REFLECTION
LEDKO™ T - CRI 80

Reflection Series



Reflection LEDko T

CRI 80

KEY FEATURES

- Light source: 200W Tungsten LEDs
- Soft profiling thanks to Fresnel and PC optics (Coemar patent)
- Smooth 16 bit dimmer
- Guaranteed Flicker-free operation (DMX controlled PWM frequency)
- The fan setting allows three options : low, auto, DMX regulated
- Instant gobos from standard printers

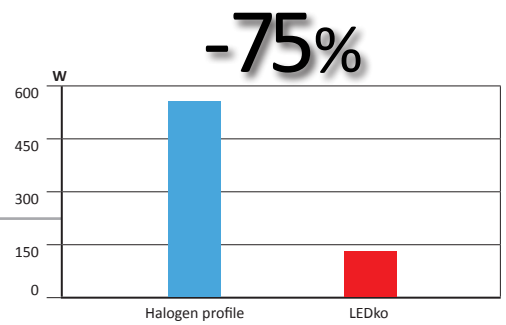


Reflection LEDko T - CRI 80 - PC10011A818

*Reflection LEDko T - CRI 80 equipped with Soft Profile PC

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 White Body



Reflection LEDko without optic



Reflection LEDko Rear panel

Reflection LEDko T - CRI 80

SPECIFICATIONS

Fixed white color temperature 3200 K

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

Electronic 16 bit dimming with 2 selectable curves, simulating halogen or discharge lamp based fixtures

Synchronized, random or pulse electronic strobe

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

Fan setting with 3 different options (low, auto, DMX regulated)

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 Kg (17.6 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: 5.5 kg (12.1 lbs)

LIGHT SOURCE

Modular 200 W COB LED, CRI 80, TLCI 65

LEDs life: 20.000 hours at 70% lumen intensity maintenance

CONTROL PROTOCOL AND PROGRAMMING

USITT DMX512A

DMX channels: 5/1

Setting, addressing, testing and measurements via LEDs display

RDM

ELECTRICAL SPECIFICATIONS/CONNECTIONS

AC power: 90-230 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: 1.2 A at 230 V, 3 A at 90 V - cosφ 0,9

DMX data in/out: 5 pin locking XLR

ACCESSORIES

Gobo holder

Colour frame

Iris

4-leaf barndoor

Flight case

Optics: Profile/Soft Profile, various angles available

Reflection LEDko T - CRI 80 - 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°



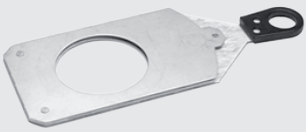

Reflection LEDko T - CRI 80 - Optics

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



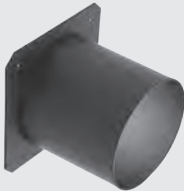
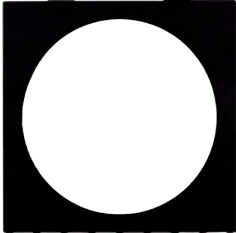
Reflection LEDko T - CRI 80 - Optics

Picture	Code	Description
	<p>BC10011A023</p>	<p>Profile 14°, lens tube</p>
	<p>BC10011A024</p>	<p>Profile 70°, lens tube</p>
	<p>BC10011A025</p>	<p>Profile 90°, lens tube</p>

Reflection LEDko T - CRI 80 - 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>

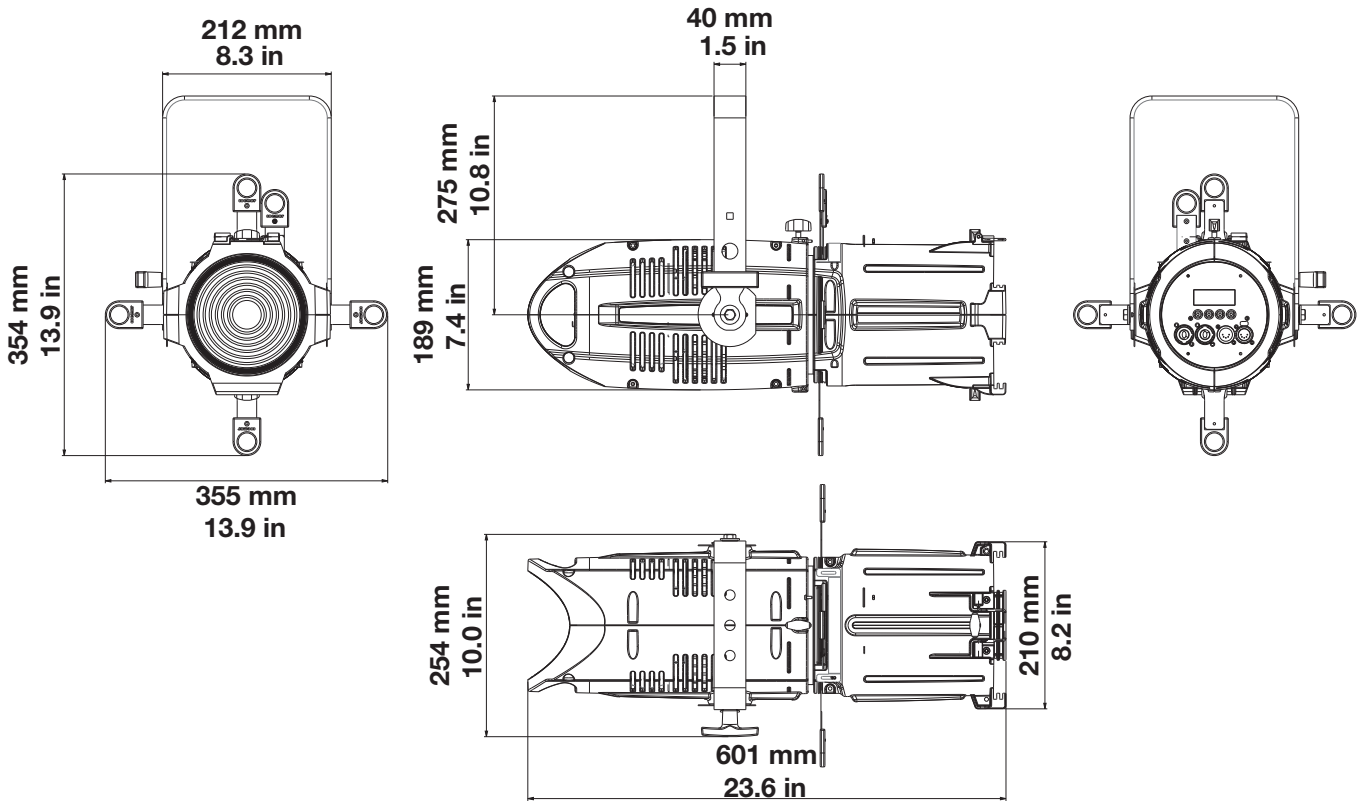
Reflection LEDko T - CRI 80 - Accessories

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

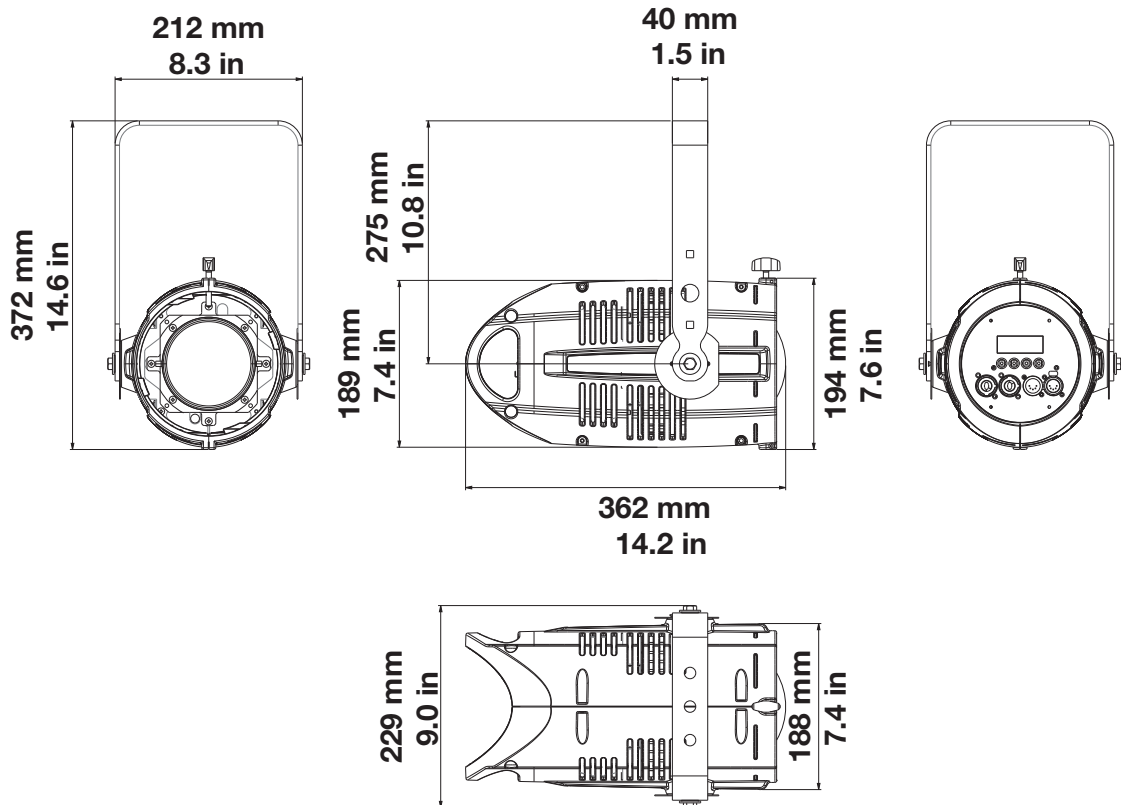
Reflection LEDko T - CRI 80 - Accessories

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 T - CRI 80 - Drawing Size



Reflection LEDko with optic Soft Profile Fresnel

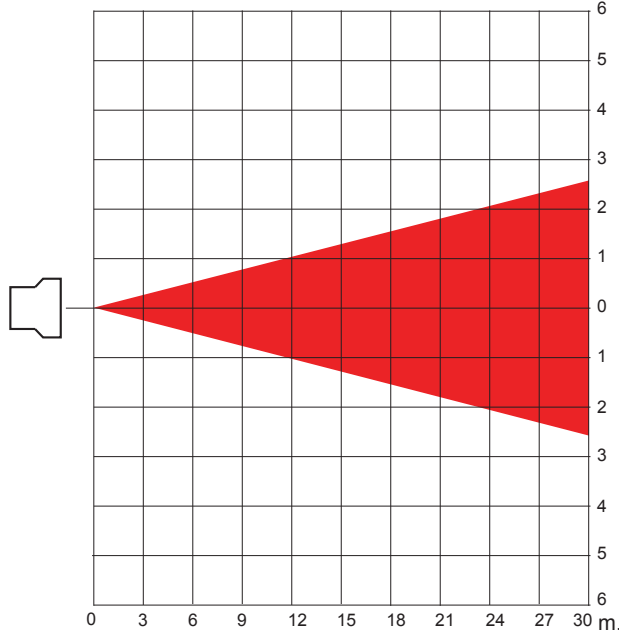


DMX Chart 5 Channels	
channel	effect
1	Master dimmer
2	Spare channel
3	Dimmer fine
4	Strobe
5	Special functions

DMX Chart 1 Channels	
channel	effect
1	Master dimmer

Profile 10°

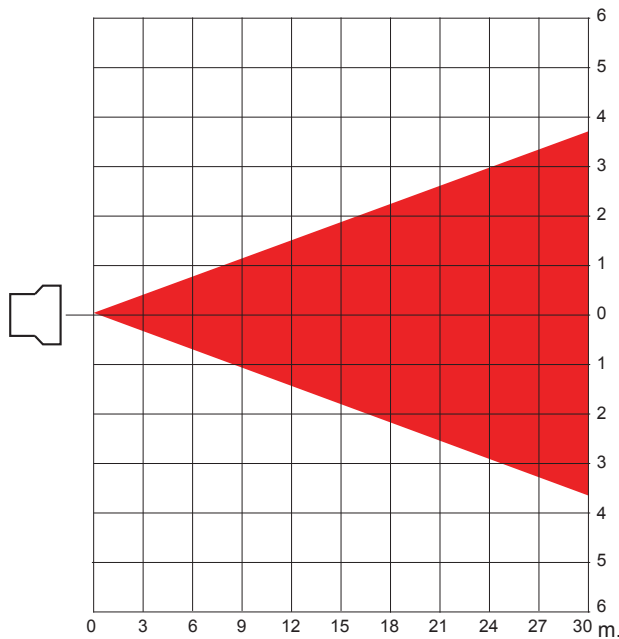
Distance (m.)	3	6	9	12	15	18	21	24	27	30
Luminous emittance (Lux)	53410	13353	5934	3338	2136	1484	1090	835	659	534
Ø m.	0.92	1.05	1.57	2.10	2.62	3.15	3.67	4.20	4.72	5.25



Angle: 10°

Profile 14°

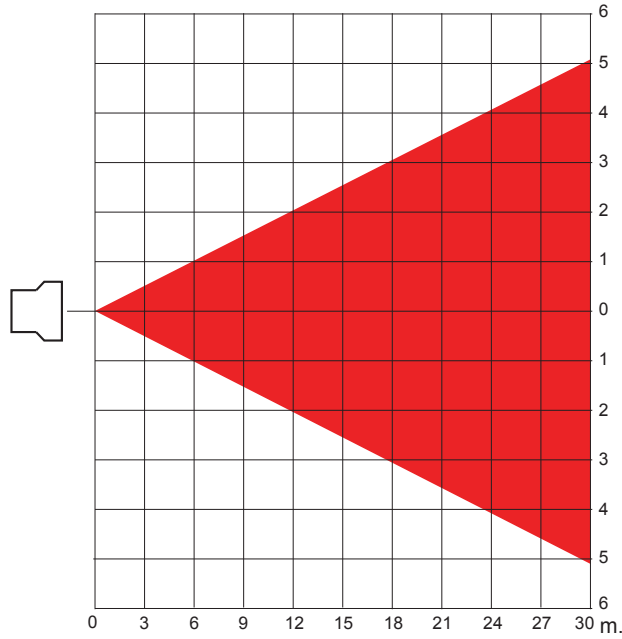
Distance (m.)	3	6	9	12	15	18	21	24	27	30
Luminous emittance (Lux)	28583	7146	3176	1786	1143	794	583	447	353	286
Ø m.	0.74	1.47	2.21	2.95	3.68	4.42	5.16	5.89	6.63	7.37



Angle: 14°

Profile 19°

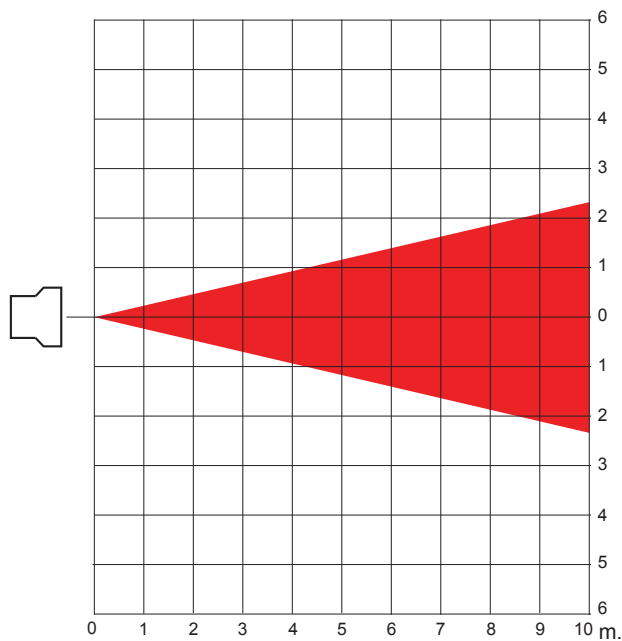
Distance (m.)	3	6	9	12	15	18	21	24	27	30
Luminous emittance (Lux)	17422	4356	1936	1089	697	484	356	272	215	174
Ø m.	1.00	2.01	3.01	4.02	5.02	6.02	7.03	8.03	9.04	10.04



Angle: 19°

Profile 26°

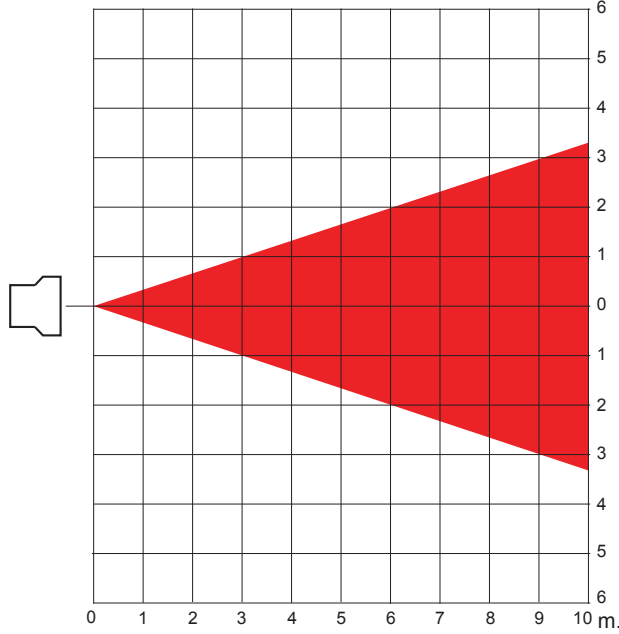
Distance (m.)	1	2	3	4	5	6	7	8	9	10
Luminous emittance (Lux)	87955	21989	9773	5497	3518	2443	1795	1374	1086	880
Ø m.	0.46	0.92	1.39	1.85	2.31	2.77	3.23	3.69	4.16	4.62



Angle: 26°

Profile 36°

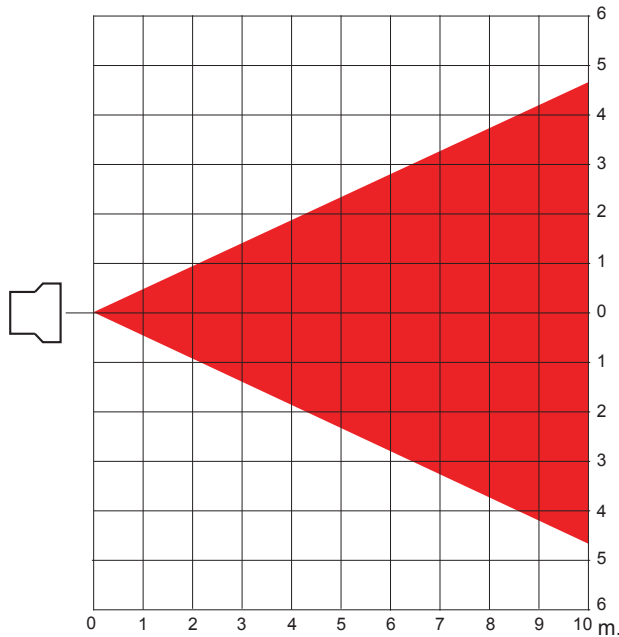
Distance (m.)	1	2	3	4	5	6	7	8	9	10
Luminous emittance (Lux)	51205	12801	5689	3200	2048	1422	1045	800	632	512
Ø m.	0.65	1.30	1.95	2.60	3.25	3.90	4.55	5.20	5.85	6.50



Angle: 36°

Profile 50°

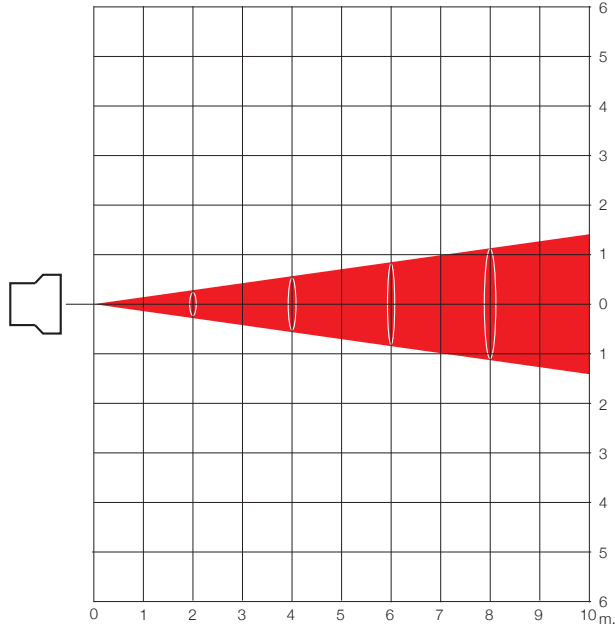
Distance (m.)	1	2	3	4	5	6	7	8	9	10
Luminous emittance (Lux)	24010	6003	2668	1501	960	667	490	375	296	240
Ø m.	0.93	1.87	2.80	3.73	4.66	5.60	6.53	7.46	8.39	9.33



Angle: 50°

Profile 15°/35° Zoom min.

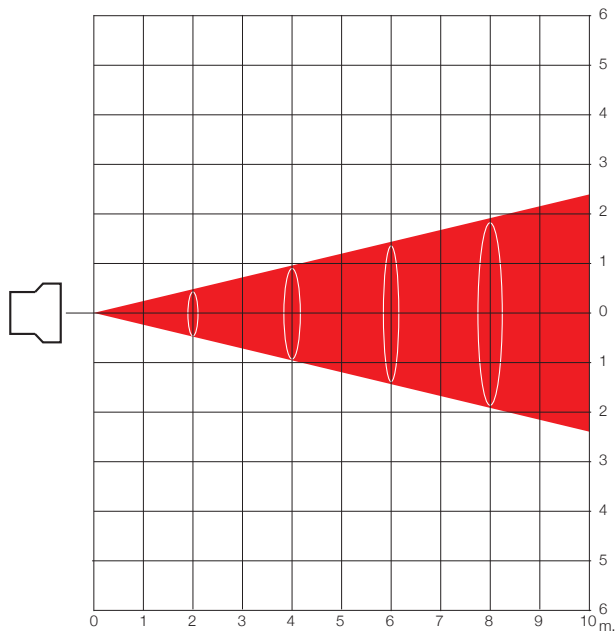
Distance (m.)	1	2	3	4	5	6	7	8	9	10
Luminous emittance (Lux)	256270	64068	28474	16017	10251	7116	5230	4004	3164	2563
Ø (m.)	0.28	0.56	0.84	1.12	1.41	1.69	1.97	2.25	2.53	2.81



Angle: 16°

Profile 15°/35°- Zoom med.

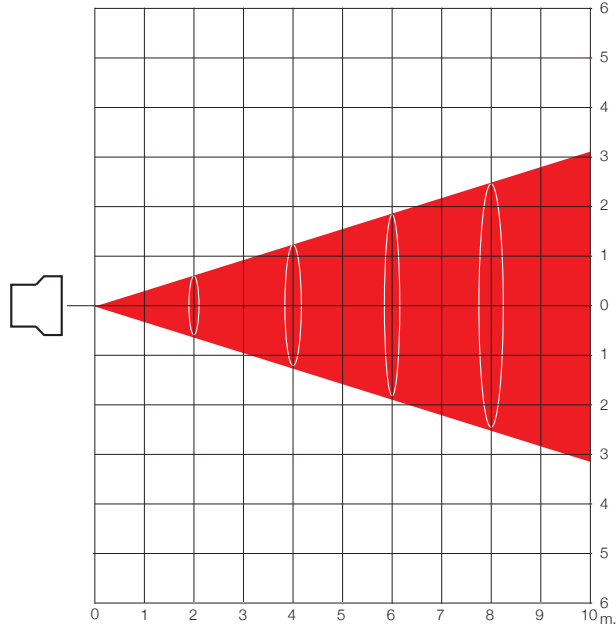
Distance (m.)	1	2	3	4	5	6	7	8	9	10
Luminous emittance (Lux)	117110	29278	13012	7319	4684	3253	2390	1830	1446	1171
Ø (m.)	0.44	0.89	1.33	1.77	2.22	2.66	3.10	3.55	3.99	4.43



Angle: 25°

Profile 15°/35° - Zoom max.

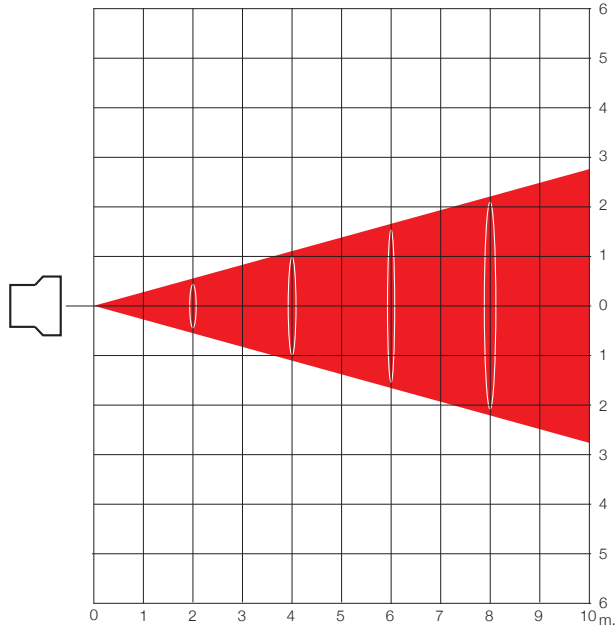
Distance (m.)	1	2	3	4	5	6	7	8	9	10
Luminous emittance (Lux)	73794	18449	8199	4612	2952	2050	1506	1153	911	738
Ø (m.)	0.61	1.22	1.83	2.45	3.06	3.67	4.28	4.89	5.50	6.11



Angle: 34°

Profile 25°/50° Zoom min.

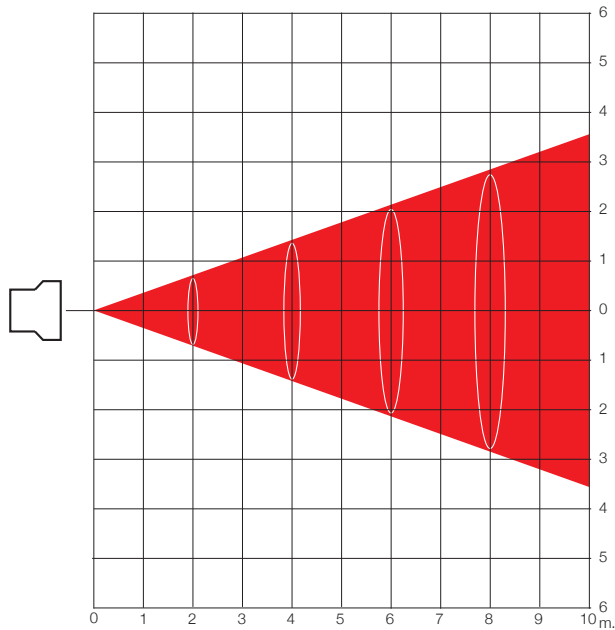
Distance (m.)	1	2	3	4	5	6	7	8	9	10
Luminous emittance (Lux)	63210	15903	7023	3951	2528	1756	1290	988	780	632
Ø (m.)	0.55	1.11	1.66	2.22	2.77	3.33	3.88	4.44	4.99	5.55



Angle: 31°

Profile 25°/50°- Zoom med.

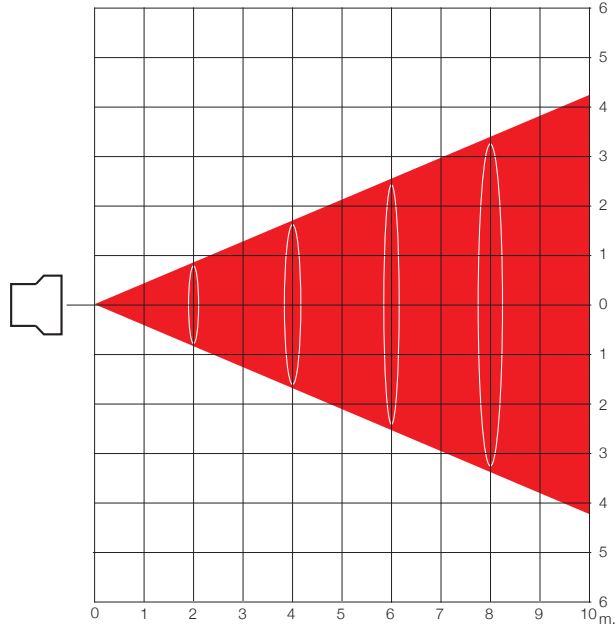
Distance (m.)	1	2	3	4	5	6	7	8	9	10
Luminous emittance (Lux)	45864	11466	5096	2867	1835	1274	936	717	566	459
Ø (m.)	0.71	1.42	2.12	2.83	3.54	4.25	4.96	5.67	6.37	7.08



Angle: 39°

Profile 25°/50° - Zoom max.

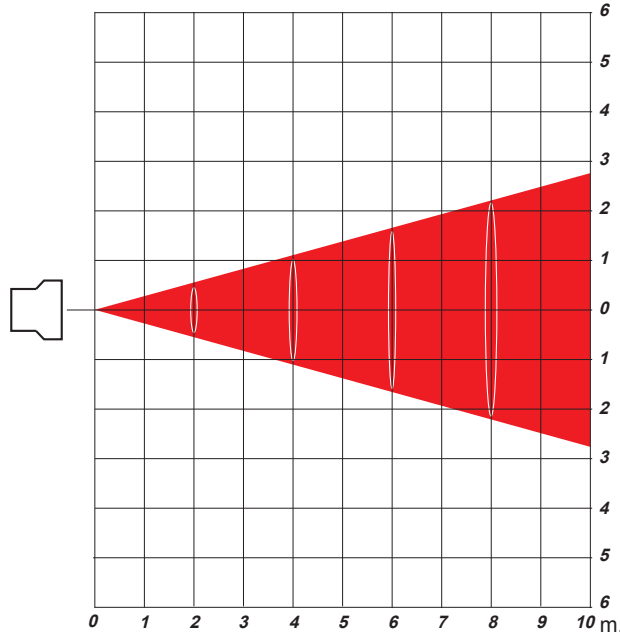
Distance (m.)	1	2	3	4	5	6	7	8	9	10
Luminous emittance (Lux)	32830	8208	3648	2052	1313	912	670	513	405	328
Ø (m.)	0.85	1.70	2.55	3.40	4.24	5.09	5.94	6.79	7.64	8.49



Angle: 46°

Profile 28°/40° Zoom min.

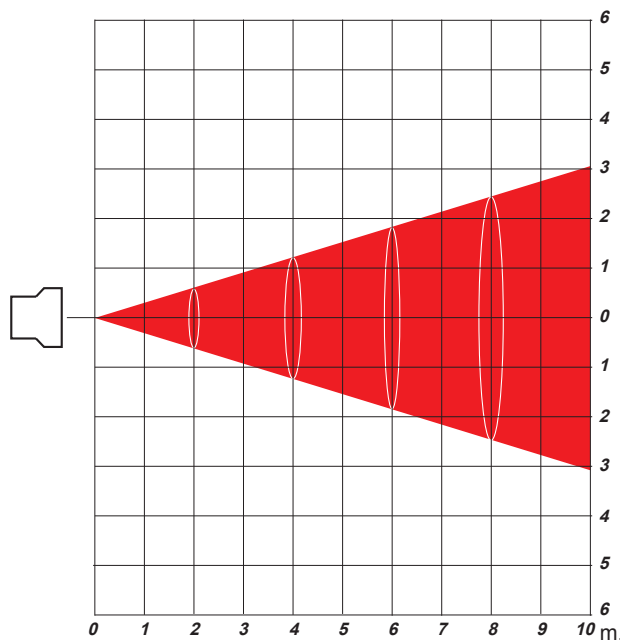
Distance (m.)	1	2	3	4	5	6	7	8	9	10
Luminous emittance (Lux)	71638	17910	7960	4477	2866	1990	1462	1119	884	716
Ø (m.)	0.55	1.11	1.66	2.22	2.77	3.33	3.88	4.44	4.99	5.55



Angle: 31°

Profile 28°/40°- Zoom med.

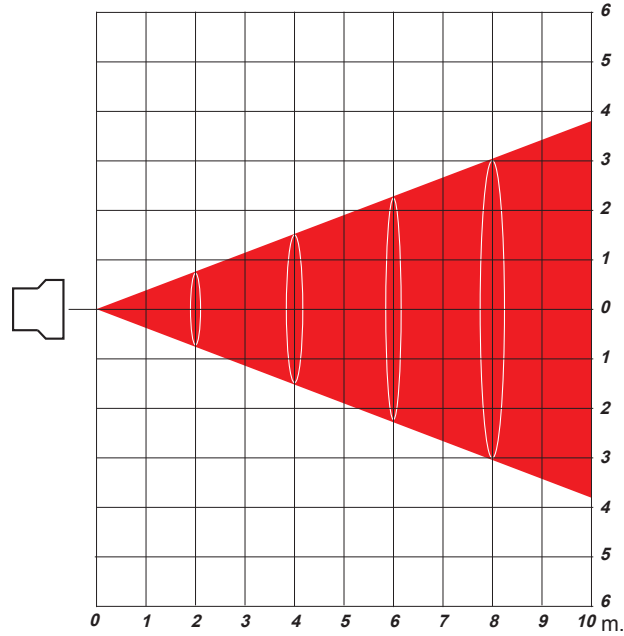
Distance (m.)	1	2	3	4	5	6	7	8	9	10
Luminous emittance (Lux)	54390	13598	6043	3399	2176	1511	1110	850	671	544
Ø (m.)	0.61	1.22	1.83	2.45	3.06	3.67	4.28	4.89	5.50	6.11



Angle: 34°

Profile 28°/40° - Zoom max.

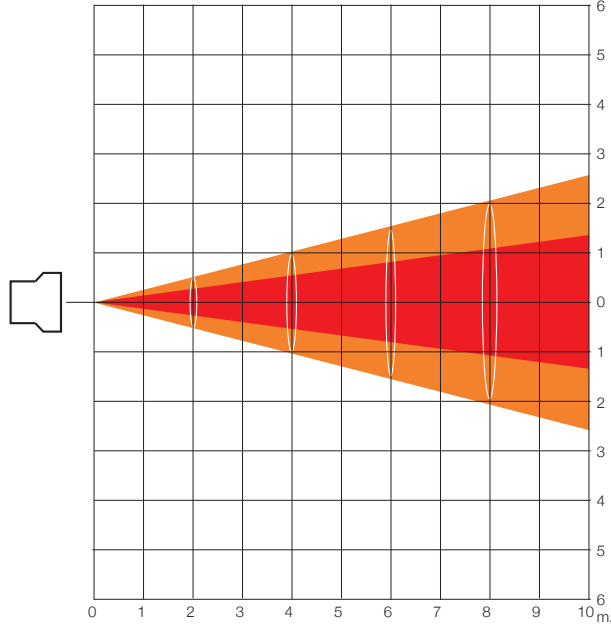
Distance (m.)	1	2	3	4	5	6	7	8	9	10
Luminous emittance (Lux)	43855	10964	4873	2741	1754	1218	895	685	541	439
Ø (m.)	0.77	1.54	2.30	3.07	3.84	4.61	5.37	6.14	6.91	7.68



Angle: 42°

Soft Profile F zoom Min

Distance (m.)	1	2	3	4	5	6	7	8	9	10
Luminous emittance (Lux)	60025	15006	6669	3752	2401	1667	1225	938	741	600
1/2 peak angle Ø (m.)	0.26	0.53	0.79	1.05	1.32	1.58	1.84	2.11	2.37	2.63
1/10 peak angle Ø (m.)	0.52	1.03	1.55	2.07	2.59	3.10	3.62	4.14	4.66	5.17

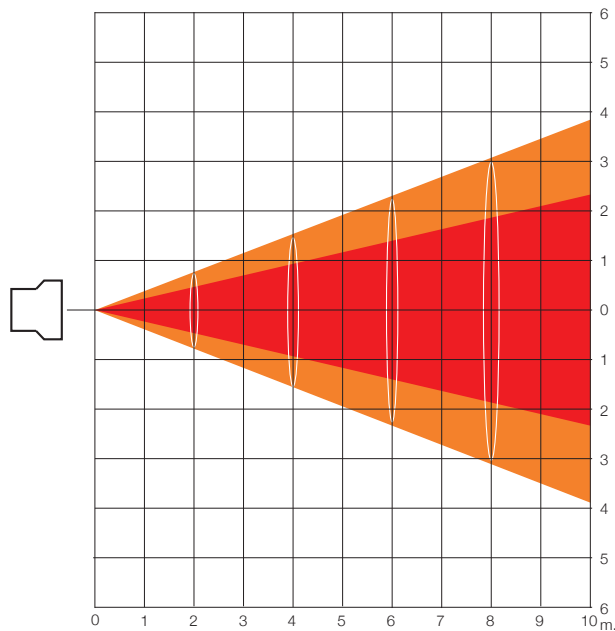


1/2 peak angle: 15°

1/10 peak angle: 29°

Soft Profile F zoom Max

Distance (m.)	1	2	3	4	5	6	7	8	9	10
Luminous emittance (Lux)	42042	10511	4671	2628	1682	1168	858	657	519	420
1/2 peak angle Ø (m.)	0.46	0.92	1.39	1.85	2.31	2.77	3.23	3.69	4.16	4.62
1/10 peak angle Ø (m.)	0.79	1.58	2.36	3.15	3.94	4.73	5.51	6.30	7.09	7.88

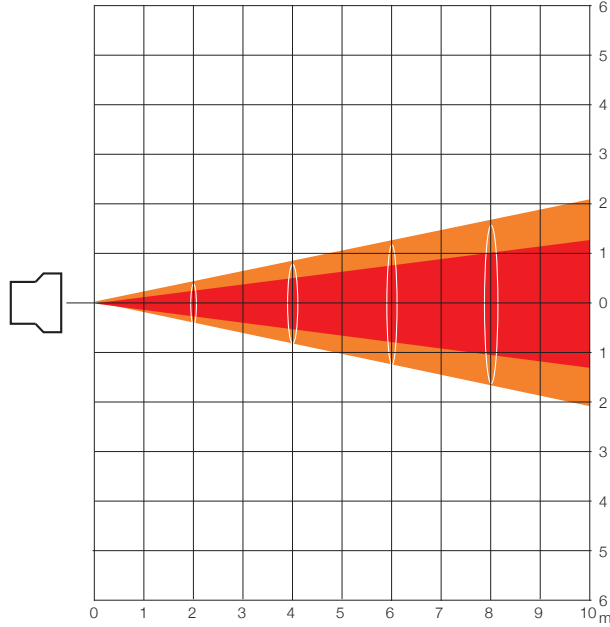


1/2 peak angle: 26°

1/10 peak angle: 43°

Soft Profile PC zoom Min

Distance (m.)	1	2	3	4	5	6	7	8	9	10
Luminous emittance (Lux)	114660	28665	12740	7166	4586	3185	2340	1792	1416	1147
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.)	0.41	0.81	1.22	1.63	2.03	2.44	2.85	3.26	3.66	4.07

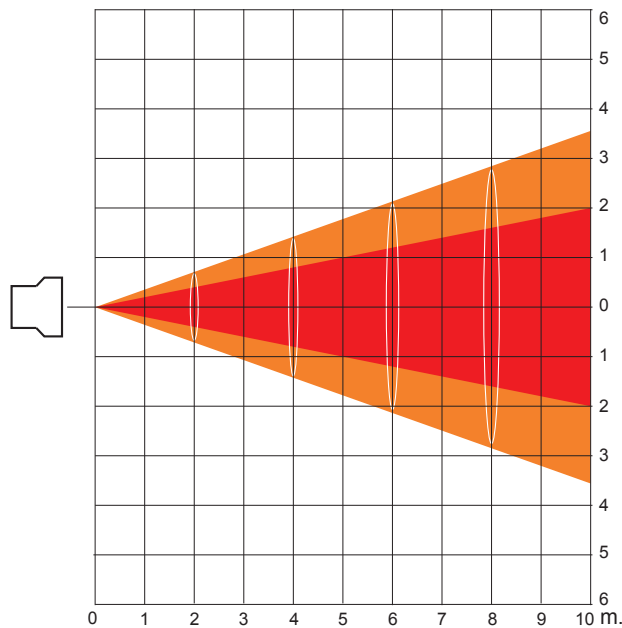


1/2 peak angle: 14°

1/10 peak angle: 23°

Soft Profile PC zoom Max

Distance (m.)	1	2	3	4	5	6	7	8	9	10
Luminous emittance (Lux)	42042	10511	4671	2628	1682	1168	858	657	519	420
1/2 peak angle Ø (m.)	0.41	0.81	1.22	1.63	2.03	2.44	2.85	3.26	3.66	4.07
1/10 peak angle Ø (m.)	0.71	1.42	2.12	2.83	3.54	4.25	4.96	5.67	6.37	7.08



1/2 peak angle: 23°

1/10 peak angle: 39°



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