TechnicalBrochure

coemar
Light Emotion

ParLite LED RGB

LiteLEDSeries

PinLite LED RGB

IP65

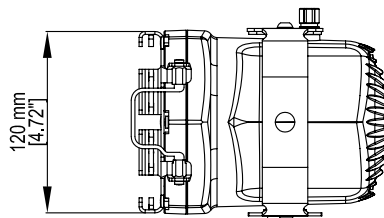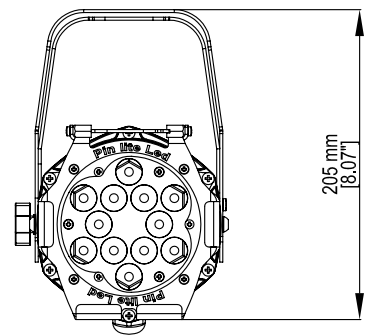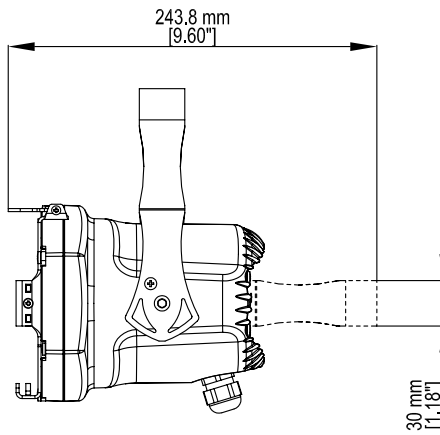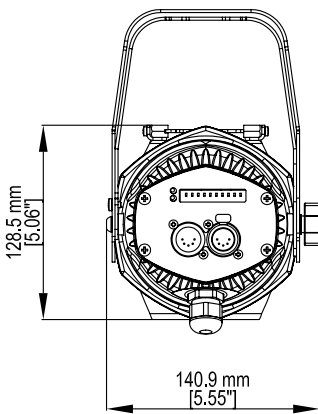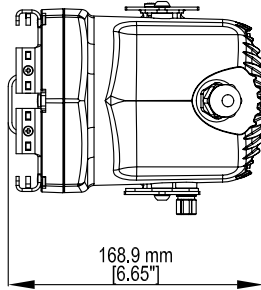| PinLite LED RGB |
| --- |
| SPECIFICATIONS |
| RGB color mixing |
| Standard lens 12° |
| Electronic dimmer |
| Electronic strobe, synchronized, random, pulse effect |
| Flicker-free |
| ETL approved |
| Double yoke for easy ground standing or truss hanging |
| Weatherproof rating IP20 (PinLite LED), IP65 (Pin-Lite LED IP65) |
| **PHYSICAL SIZE** |
| Length: 127 mm (5.0 in) |
| Width: 152.4 mm (6.0) |
| Height: 127 mm (5.0) |
| Weight: 1.8 Kg (4.0 lbs) |
| **LIGHT SOURCE** |
| 12 LEDs Cree, 4 Red, 4 Green, 4 Blue |
| **CONTROL PROTOCOL AND PROGRAMMING** |
| USITT DMX512/1990 |
| DMX channels: 3/6 |
| Setting and addressing: binary dip switch or remotely |
| 4 Internal automatic programs |
| **ELECTRONICAL SPECIFICATIONS/CONNECTIONS** |
| AC power: 90-250 V, auto sensing, 50/60Hz, 2 m (6.6 ft) integral cable without power plug |
| Power conumption: 0.18 A at 230 V, 0.45 A at 115 V |
| DMX data in/out: 5 pin locking XLR |
| **AVAILABLE VERSION** |
| Also available upon request with white LEDs |
| **ACCESSORIES** |
| 30° lens kit (# 9186) |
| 50° lens kit (# 9186/3) |
| 40°X13° elliptical lens kit (# 9186/2) |
| 110° flood reflector (# 9187) |
| Support color frame holder (black: #10011A001, silver: #10011A002) |
| Frame for internal frost filter (# 9188) |
| Frame for external frost filter (# 9188/1) |
| IP65 rear panel (black: # 10, silver: # 10/1) |

168.9 mm
[6.65"]

243.8 mm
[9.60"]

128.5 mm
[5.06"]

140.9 mm
[5.55"]

30 mm
[1.18"]

205 mm
[8.07"]

Pin lite Led

120 mm
[4.72"]

channel	function	type of control	effect	decimal			percentage		
1	**red**	proportional	proportional control of the percentage of red colour from 0 to 100%	0	-	255	0%	-	100%
1 (A)	**speed**	proportional	fade speed between colours of the program selected from channel 5; from fast to slow (from 1 second to 1 minute)	0	-	255	0%	-	100%
Note 1: the second function 1 (A) is enabled when channel 5 is active									
2	**green**	proportional	proportional control of the percentage of green colour from 0 to 100%	0	-	255	0%	-	100%
2 (A)	**pause**	proportional	control of the pause time between colours (steps) of the program selected from channel 5; the pause time is adjustable proportionally from 1 second to 3.30 minutes	0	-	255	0%	-	100%
Note 2: the second function 2 (A) is enabled when channel 5 is active									
3	**blue**	proportional	proportional control of the percentage of blue colour from 0 to 100%	0	-	255	0%	-	100%
4	**strobe effect**	step	no effect	0	-	9	0%	-	4%
		proportional	variable speed strobing effect, from slow to fast	10	-	57	4%	-	22%
		step	stop strobe	58	-	59	23%	-	23%
		proportional	sequenced pulse effect, slow closing, fast opening (variable speed pulsing, from slow to fast)	60	-	108	24%	-	42%
		step	stop strobe	109	-	110	43%	-	43%
		proportional	sequenced pulse effect, fast closing, slow opening (variable speed pulsing, from slow to fast)	111	-	159	44%	-	62%
		step	stop strobe	160	-	161	63%	-	63%
		proportional	random strobe effect with variable speed from slow to fast and synchronised colours	162	-	207	64%	-	81%
		step	stop strobe	208	-	209	82%	-	82%
		proportional	random strobe effect with variable speed from slow to fast and non-synchronised colours	210	-	255	82%	-	100%
5	**automated functions**	step	no effect	0	-	9	0%	-	4%
			automated program 1	10	-	50	4%	-	20%
			automated program 2	51	-	91	20%	-	36%
			automated program 3	92	-	132	36%	-	52%
			automated program 4	133	-	173	52%	-	68%
			random program repeat	174	-	214	68%	-	84%
			repeat all programs in sequence	215	-	255	84%	-	100%
Projector: PinLite Led RGB			**Table name: DMX 512 functions**						
Table number: 285	**Edition: 1**		**Date: 08/07/2010**						

dip-switch	DMX function	DR1 function	AUTO function			LIGHT ON function				dip-switch general functions
1	dmx channel 1	Id value 1	program 1 (only 1 program per time can be selected)			dip-switch 1	dip-switch 2	dip-switch 4	**red channel**	Dip-switches (from 1 to 256) functions will change depending on Function mode buttons selected
						on	off	off	luminous intensity 20%	
2	dmx channel 2	Id value 2	program 2 (only 1 program per time can be selected)			off	on	off	luminous intensity 30%	
						on	on	off	luminous intensity 40%	
						off	off	on	luminous intensity 50%	
4	dmx channel 4	Id value 4	program 3 (only 1 program per time can be selected)			on	off	on	luminous intensity 60%	
						off	on	on	luminous intensity 80%	
						on	on	on	luminous intensity 100%	
8	dmx channel 8	Id value 8	program 4 (only 1 program per time can be selected)			dip-switch 8	dip-switch 16	dip-switch 32	**green channel**	
						on	off	off	luminous intensity 20%	
16	dmx channel 16	Id value 16	**time (wait time)**			off	on	off	luminous intensity 30%	
			dip-switch 16	dip-switch 32	wait time	on	on	off	luminous intensity 40%	
			off	off	3 seconds	off	off	on	luminous intensity 50%	
32	dmx channel 32	Id value 32	on	off	10 seconds	on	off	on	luminous intensity 60%	
			off	on	30 seconds	off	on	on	luminous intensity 80%	
			on	on	1 minute	on	on	on	luminous intensity 100%	
64	dmx channel 64	Id value 64	**speed (fade time)**			dip-switch 64	dip-switch 128	dip-switch 256	**blue channel**	
			dip-switch 64	dip-switch 128	fade time	on	off	off	luminous intensity 20%	
			off	off	3 seconds	off	on	off	luminous intensity 30%	
128	dmx channel 128	Id value 128	on	off	10 seconds	on	on	off	luminous intensity 40%	
			off	on	30 seconds	off	off	on	luminous intensity 50%	
			on	on	1 minute	on	off	on	luminous intensity 60%	
256	dmx channel 256	Id value 256	run all programs in sequence (only 1 program per time can be selected)			off	on	on	luminous intensity 80%	
						on	on	on	luminous intensity 100%	

dip-switch	DMX function	DR1 function	AUTO function	LIGHT ON function	dip-switch general functions
AUTO	OFF	OFF	**ON**	OFF	Selection of master/slave function. Slave function = when dip-switches from 1 to 256 are OFF. Master function = by selecting a program on the dip-switches.
TEST	OFF	OFF	OFF	OFF	Quick test of the sequence of colours.
LIGHT ON	OFF	OFF	OFF	**ON**	Leds are on. Intensity is on 7 levels which are set by a combinations of the dip-switches. Dip-switches from 1 to 4 for red channel, dip-switches from 8 to 32 for green channel, dip-switches from 64 to 256 for blue channel.
N.F.	OFF	OFF	OFF	OFF	no function
N.F.	OFF	OFF	OFF	OFF	no function
DR1	OFF	**ON**	OFF	OFF	To by-pass hardware information and to communicate with DR1. All the other dip-switch functions are disabled. The DR1 display allows to operate with every PinLite Led (for example to change address and many other functions). The dip-switch from 1 to 256 is used to set up PinLite Led ID.
3 CH	**ON**	OFF	OFF	OFF	Allow to operate with 3 channel mode without master dimmer. The dmx chart turns: CH1=RED CH2=GREEN CH3=BLU CH4,CH5,CH6=—>

Note 1: the dip-switch AUTO-TEST-LIGHT ON-DR1 must be set correctly to avoid function conflicts.

led	function	led ON	led OFF	flashing led
green	power	present	lacking	not required
yellow	dmx state	dmx present but poor connection	DMX not connected	DMX ok

Projector: PinLite Led RGB	**Chart name: dip-switch function**	**Software version: 1.70**
Chart number: 285	**Date: 08/07/2010**	

12° Lenses

Distance (m.)	1	2	3	4	5	6	7	8	9	10
Red	2700	675	300	169	108	75	55	42	33	27
Green	6480	1620	720	405	259	180	132	101	80	65
Luminous emittance (Lux) Blue	1539	385	171	96	62	43	31	24	19	15
Superwhite	10800	2700	1200	675	432	300	220	169	133	108
1/2 peak angle ø (m.)	0,19	0,39	0,56	0,77	0,96	1,16	1,35	1,54	1,73	1,93
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
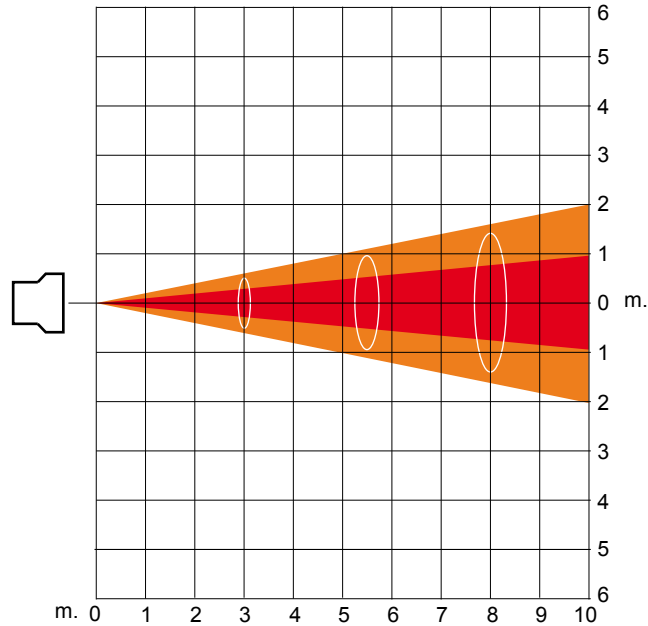
1/2 peak angle: 11° **1/10 peak angle: 23°**

30° Lenses

Distance (m.)	1	2	3	4	5	6	7	8	9	10
Red	972	243	108	61	39	27	15	12	10	8
Green	1782	446	198	111	71	50	36	28	22	18
Luminous emittance (Lux) Blue	450	113	50	28	18	13	9	7	6	5
Superwhite	3195	799	355	200	128	89	65	50	39	32
1/2 peak angle ø (m.)	0,33	0,67	1,00	1,34	1,67	2,01	2,34	2,68	3,01	3,35
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
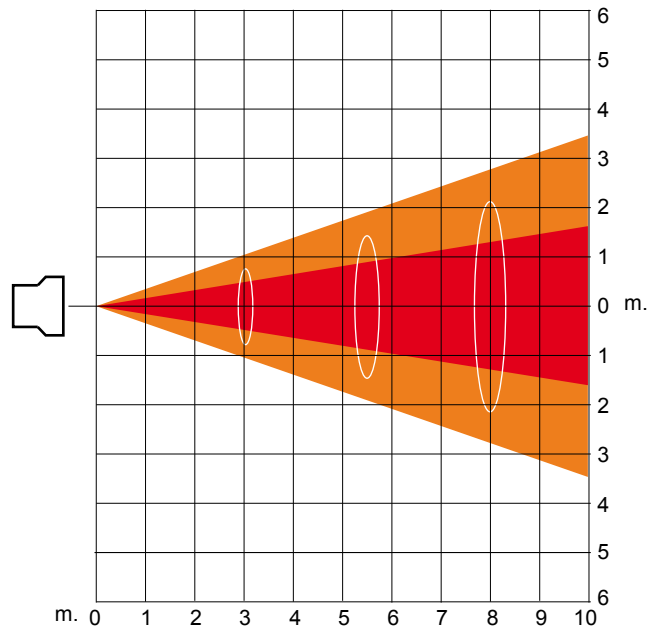
1/2 peak angle: 19° **1/10 peak angle: 38°**

50° Lenses

Distance (m.)	1	2	3	4	5	6	7	8	9	10
Red	369	92	41	23	15	10	8	6	5	4
Green	558	140	62	35	22	16	11	9	7	6
Luminous emittance (Lux) Blue	162	41	18	10	6	5	3	3	2	2
Superwhite	1089	272	121	68	44	30	22	17	13	11
1/2 peak angle ø (m.)	0,63	1,26	1,89	2,52	3,15	3,78	4,41	5,04	5,68	6,31
1/10 peak angle ø (m.)	1,09	2,17	3,26	4,34	5,43	6,52	7,60	8,69	9,77	10,86
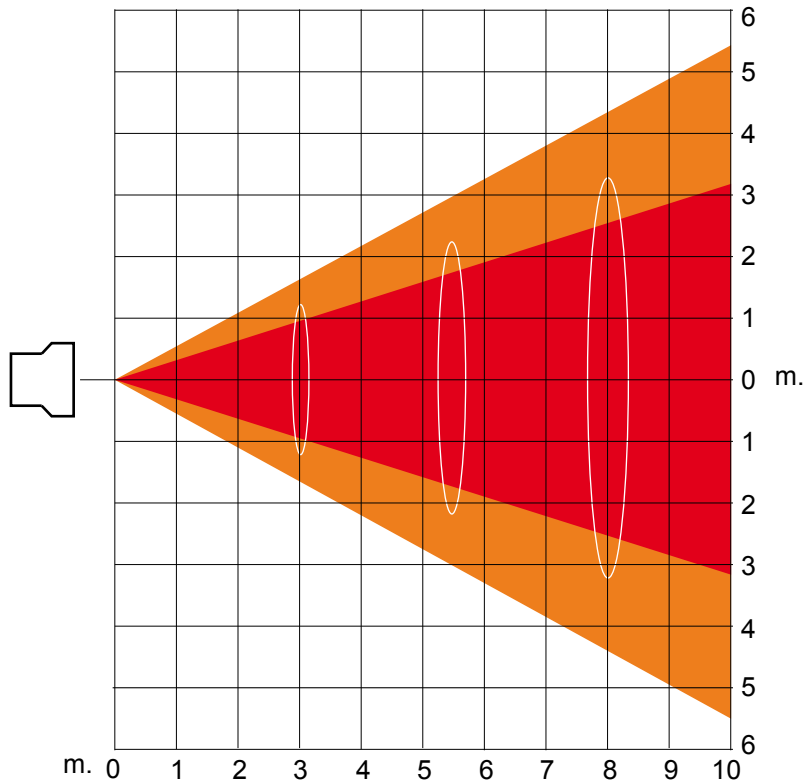
1/2 peak angle: 35°   1/10 peak angle: 57°

Elliptic lenses- Vertical beam

Distance (m.)	1	2	3	4	5	6	7	8	9	10
Red	747	187	83	47	30	21	15	12	9	7
Green	1440	360	160	90	58	40	29	23	18	14
Blue	389	97	43	24	16	11	8	6	5	4
Superwhite	2565	641	285	160	103	71	52	40	32	26
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.)	0,48	0,96	1,44	1,92	2,40	2,88	3,36	3,84	4,32	4,80

Luminous emittance (Lux)
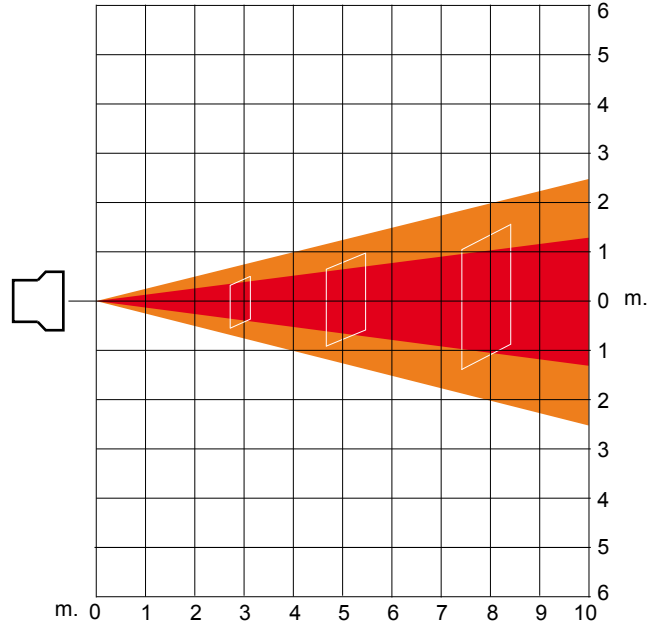
1/2 peak angle: 15°	1/10 peak angle: 27°

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.	0,95	1,91	2,86	3,82	4,77	5,72	6,68	7,63	8,58	9,54
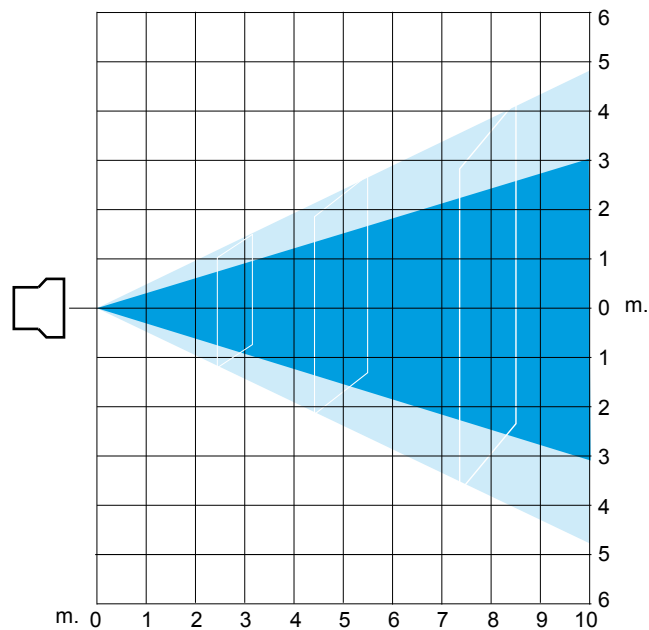
1/2 peak angle: 35°	1/10 peak angle: 51°

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