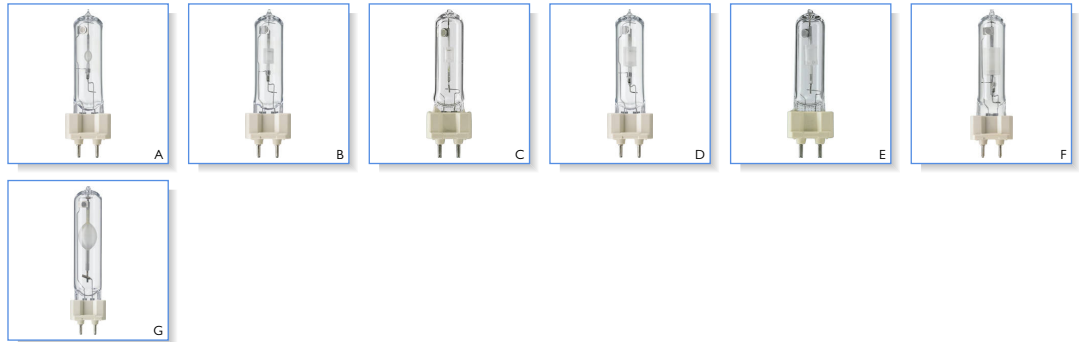


MASTERColour CDM

MASTERColour CDM-T



Beautiful sparkle, reliable life

Range of single-ended, compact, high-efficiency, discharge lamps with a stable color over lifetime and a crisp, sparkling light

Product Benefits

- Stable color impression over lifetime
- High lamp efficacy results in low operating costs and low heat generation
- Long lamp life compared with incandescent and halogen lamps
- Relatively low heat output enhances comfort for shoppers and staff
- All types are UV-Block for reduced fading risks

Product Features

- Crisp white light

- Superior color quality
- Allows small-size luminaires designs that give high beam intensities

Environment

- Good environmental choice because of high energy efficiency and long reliable life
- This product is RoHS compliant
- This product is covered by WEEE

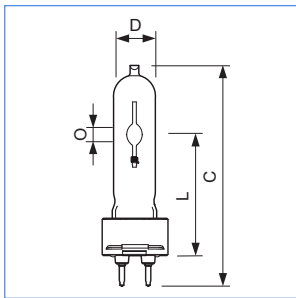
Application

- Shops and shop windows, offices and public buildings
- Decorative outdoor: floodlighting and pedestrian areas

Warnings and Safety

- Use only in totally enclosed luminaire, even during testing (IEC 61167, IEC 62035, IEC 60598)

- The luminaire must be able to contain hot lamp parts if the lamp ruptures
- Control gear must include end-of-life protection (IEC 61167, IEC 62035)
- Lamps may use electronic or electromagnetic control gear, except 35 W/942 and 20 W lamps, which must use electronic control gear.
- A lamp breaking is extremely unlikely to have any impact on your health. If a lamp breaks, ventilate the room for 30 minutes and remove the parts, preferably with gloves. Put them in a sealed plastic bag and take it to your local waste facilities for recycling. Do not use a vacuum cleaner.

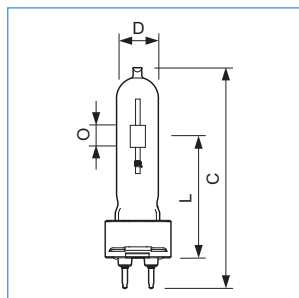


	C	D	L	O
mm	max.	max.	nom.	nom.
I	103	20	56	4

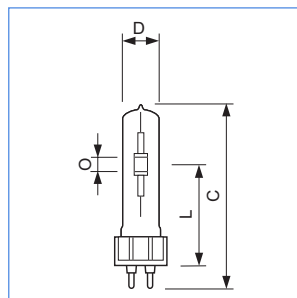
Type	Wattage/ Colour Code		Pack- ing type	Packing configu- ration	Luminous Flux Lamp EM (lm)	Luminous Flux Lamp EL (lm)	Luminous Efficacy Lamp EL (lm/W)	Operating Position		mm	Photo letter	Ordering number
MASTERColour CDM-T	20W/830	G12	ICT	12		1,800	90	any	A+	1	A	872790087156200
MASTERColour CDM-T	35W/830	G12	ICT	12	3,000	3,150	81	any	A+	2	B	692059027575300
MASTERColour CDM-T	35W/830	G12	ICT	12	3,000	3,150	81	any	A+	2	B	871150019697215
MASTERColour CDM-T	35W/830	G12	ICT	12	3,000	3,150	81	any	A+	2	B	871150020217815
MASTERColour CDM-T	35W/830	G12	ICT	12	3,000	3,150	81	any	A+	2	B	871829120074100
MASTERColour CDM-T	35W/830	G12	ICT	12	3,000	3,150	81	any	A+	2	B	871869642596100
MASTERColour CDM-T	35W/830	G12	ICT	12	3,000	3,150	81	any	A+	2	B	871869648443200
MASTERColour CDM-T	35W/830	G12	ICT	12	3,150	3,150	83	any	A+	7	C	692059027634700
MASTERColour CDM-T	35W/830	G12	ICT	12	3,150	3,150	83	any	A+	7	C	871829125852000
MASTERColour CDM-T	35W/842	G12	ICT	12		3,100	79	any	A+	2	B	692059027577700
MASTERColour CDM-T	35W/842	G12	ICT	12		3,100	79	any	A+	2	B	871150021126215
MASTERColour CDM-T	35W/842	G12	ICT	12		3,100	79	any	A+	2	B	871829120076500
MASTERColour CDM-T	35W/842	G12	ICT	12		3,100	79	any	A+	2	B	871869648445600
MASTERColour CDM-T	35W/842	G12	ICT	12		3,300	81	any	A+		C	692059027636100
MASTERColour CDM-T	35W/842	G12	ICT	12		3,300	81	any	A+		C	871829125860500
MASTERColour CDM-T	70W/830	G12	ICT	12	6,400	6,500	89	any	A+	3	D	692059027424400
MASTERColour CDM-T	70W/830	G12	ICT	12	6,400	6,500	89	any	A+	3	D	871150019699615
MASTERColour CDM-T	70W/830	G12	ICT	12	6,400	6,500	89	any	A+	3	D	871150020219215
MASTERColour CDM-T	70W/830	G12	ICT	12	6,400	6,500	89	any	A+	3	D	871829120078900
MASTERColour CDM-T	70W/830	G12	ICT	12	6,400	6,500	89	any	A+	3	D	871869642594700
MASTERColour CDM-T	70W/830	G12	ICT	12	6,400	6,500	89	any	A+	3	D	871869648447000
MASTERColour CDM-T	70W/830	G12	ICT	12	6,600	6,600		any	A+	8	E	692059027638500
MASTERColour CDM-T	70W/830	G12	ICT	12	6,600	6,600		any	A+	8	E	871829125862900
MASTERColour CDM-T	70W/942	G12	ICT	12	6,300	6,300	86	any	A+	4	D	692059027573900
MASTERColour CDM-T	70W/942	G12	ICT	12	6,300	6,300	86	any	A+	4	D	871150019927015
MASTERColour CDM-T	70W/942	G12	ICT	12	6,300	6,300	86	any	A+	4	D	871150020659615
MASTERColour CDM-T	70W/942	G12	ICT	12	6,300	6,300	86	any	A+	4	D	871829120080200
MASTERColour CDM-T	70W/942	G12	ICT	12	6,300	6,300	86	any	A+	4	D	871869648449400
MASTERColour CDM-T	70W/942	G12	ICT	12	6,600	6,600	92	any	A+	9	E	692059027664080
MASTERColour CDM-T	70W/942	G12	ICT	12	6,600	6,600	92	any	A+	9	E	871829125864300
MASTERColour CDM-T	150W/830	G12	ICT	12	13,200	13,600	91	any	A+	5	F	871150019780115
MASTERColour CDM-T	150W/830	G12	ICT	12	13,200	13,600	91	any	A+	5	F	871150020221515
MASTERColour CDM-T	150W/942	G12	ICT	12	12,000	12,700	85	any	A+	6	F	871150020005115
MASTERColour CDM-T	150W/942	G12	ICT	12	12,000	12,700	85	any	A+	6	F	871150020661915
MASTERColour CDM-T	250W/830	G12	ICT	12	27,540			any	A+	10	G	871150020801915
MASTERColour CDM-T	250W/942	G12	ICT	12	26,000			any	A+	10	G	871150021112515

MASTERColour CDM

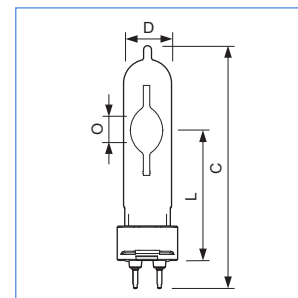
MASTERColour CDM-T



mm	C	D	L	O
	max.	max.	nom.	nom.
2	103	20	56	5
3	103	20	56	7
4	103	20	56	6
5	110	20	56	9
6	110	20	56	8



mm	C	D	L	O
	max.	max.	nom.	nom.
7	103	20	56	5
8	103	20	56	7
9	103	20	56	6



mm	C	D	L	O
	max.	max.	nom.	nom.
10	135	25	72.5	12.3

Additional technical data

Product name	Color Temperature	Color Rendering Index	Energy consumption kWh/1000h	Cap-Base Temperature	Bulb Temperature	Lamp Voltage	Lamp Current EL	Lamp Current Run-Up
	(K)	(R _a)	(kWh)	(°C [max.])	(°C [max.])	(V)	(A)	(A [max.])
MASTERColour CDM-T 35W/842 G12	4200	84	41	280	500	85	0.460	0.72
MASTERColour CDM-T 35W/830 G12	3000	81	41	280	500	88	0.470	0.80
MASTERColour CDM-T 70W/830 G12	3000	84	80	280	500	88	0.870	1.40
MASTERColour CDM-T 70W/942 G12	4200	92	80	280	500	88	0.870	1.40
MASTERColour CDM-T 35W/830 G12	3000	81	41	280	500	88	0.470	0.80
MASTERColour CDM-T 35W/842 G12	4200	84	41	280	500	85	0.460	0.72
MASTERColour CDM-T 70W/830 G12	3000	84	80	280	500	88	0.870	1.40
MASTERColour CDM-T 70W/942 G12	4200	92	80	280	500	88	0.870	1.40
MASTERColour CDM-T 20W/830 G12	3000	84	22	-	250	95	0.215	0.50
MASTERColour CDM-T 150W/830 G12	3000	88	165	280	650	96	1.620	2.50
MASTERColour CDM-T 150W/942 G12	4200	96	165	280	650	90	1.700	2.50
MASTERColour CDM-T 250W/830 G12	3000	85	273	280	700	95	-	6.00
MASTERColour CDM-T 250W/942 G12	4200	91	271	280	700	93	-	6.00

Product name	Dimmable	System Power EL (W)	System Power EM (W)	Re-ignition Time [min] (min. [max.])	Run-up time 90% (min. [max.])	Lamp Current EM (A)
MASTERColour CDM-T 35W/842 G12	no	44.0	-	15	3	-
MASTERColour CDM-T 35W/830 G12	no	44.0	47	15	3	0.53
MASTERColour CDM-T 70W/830 G12	no	83.0	88	15	3	0.98
MASTERColour CDM-T 70W/942 G12	no	80.0	88	15	3	0.98
MASTERColour CDM-T 35W/830 G12	no	44.0	47	15	3	0.53
MASTERColour CDM-T 35W/842 G12	no	44.0	-	15	3	-
MASTERColour CDM-T 70W/830 G12	no	83.0	88	15	3	0.98
MASTERColour CDM-T 70W/942 G12	no	80.0	88	15	3	0.98
MASTERColour CDM-T 20W/830 G12	no	23.5	-	15	3	-
MASTERColour CDM-T 150W/830 G12	no	167.0	165	15	3	1.80
MASTERColour CDM-T 150W/942 G12	no	167.0	165	15	3	1.90
MASTERColour CDM-T 250W/830 G12	no	271.0	271	15	3	2.99
MASTERColour CDM-T 250W/942 G12	no	271.0	271	15	3	3.04

2nd additional technical data

Product name	Life to 5% failures EL (h)	Life to 10% failures EL (h)	Life to 20% failures EL (h)	Life to 50% failures EL (h)
MASTERColour CDM-T 35W/842 G12	9000	10000	11000	12000
MASTERColour CDM-T 35W/830 G12	9000	10000	11000	12000
MASTERColour CDM-T 70W/830 G12	9000	10000	11000	12000
MASTERColour CDM-T 70W/942 G12	9000	10000	11000	12000
MASTERColour CDM-T 35W/830 G12	8000	9000	10000	12000
MASTERColour CDM-T 35W/842 G12	8000	9000	10000	12000
MASTERColour CDM-T 70W/830 G12	9000	10000	11000	12000
MASTERColour CDM-T 70W/942 G12	9000	10000	11000	12000
MASTERColour CDM-T 20W/830 G12	9000	10000	12000	15000
MASTERColour CDM-T 150W/830 G12	9000	10000	11000	12000
MASTERColour CDM-T 150W/942 G12	9000	10000	11000	12000
MASTERColour CDM-T 250W/830 G12	3500	10000	12000	15000
MASTERColour CDM-T 250W/942 G12	3500	10000	12000	15000

Product name	Lumen Maintenance EL 10000h (%)	Lumen Maintenance EL 12000h (%)	Luminous Flux Lamp EL (lm)	Design Mean Lumens EL (lm)	Design Mean Lumens EM (lm)
MASTERColour CDM-T 35W/842 G12	70	-	3100	-	-
MASTERColour CDM-T 35W/830 G12	50	-	3150	2250	2000
MASTERColour CDM-T 70W/830 G12	70	-	6500	5250	4400
MASTERColour CDM-T 70W/942 G12	65	-	6300	4900	3900
MASTERColour CDM-T 35W/830 G12	50	-	3150	2250	2000
MASTERColour CDM-T 35W/842 G12	70	-	3300	-	-
MASTERColour CDM-T 70W/830 G12	70	-	6600	5250	4400
MASTERColour CDM-T 70W/942 G12	65	-	6600	4900	3900
MASTERColour CDM-T 20W/830 G12	78	77	1800	1400	-
MASTERColour CDM-T 150W/830 G12	60	-	13600	9600	8900
MASTERColour CDM-T 150W/942 G12	70	-	12700	10800	9900
MASTERColour CDM-T 250W/830 G12	-	-	-	-	-
MASTERColour CDM-T 250W/942 G12	-	-	-	-	-

3rd additional technical data

Product name	Lamp Wattage EL 25°C, Nominal (W)	Lamp Wattage EM 25°C, Nominal (W)
MASTERColour CDM-T 35W/842 G12	35	-
MASTERColour CDM-T 35W/830 G12	35	35
MASTERColour CDM-T 70W/830 G12	70	70
MASTERColour CDM-T 70W/942 G12	70	70
MASTERColour CDM-T 35W/830 G12	35	35
MASTERColour CDM-T 35W/842 G12	35	-
MASTERColour CDM-T 70W/830 G12	70	70
MASTERColour CDM-T 70W/942 G12	70	70
MASTERColour CDM-T 20W/830 G12	20	-
MASTERColour CDM-T 150W/830 G12	150	150
MASTERColour CDM-T 150W/942 G12	150	150
MASTERColour CDM-T 250W/830 G12	-	250
MASTERColour CDM-T 250W/942 G12	-	250

Logistic data

Product name	Packing type	Packing type description	Packs per outer box	Packing configuration
MASTERCoulour CDM-T 35W/842 G12	ICT	1 Lamp in a Folding Carton	12	12
MASTERCoulour CDM-T 35W/842 G12	ICT	1 Lamp in a Folding Carton	12	12
MASTERCoulour CDM-T 35W/842 G12	ICT	1 Lamp in a Folding Carton	12	12
MASTERCoulour CDM-T 35W/830 G12	ICT	1 Lamp in a Folding Carton	12	12
MASTERCoulour CDM-T 35W/830 G12	ICT	1 Lamp in a Folding Carton	12	12
MASTERCoulour CDM-T 35W/830 G12	ICT	1 Lamp in a Folding Carton	12	12
MASTERCoulour CDM-T 35W/830 G12	ICT	1 Lamp in a Folding Carton	12	12
MASTERCoulour CDM-T 70W/830 G12	ICT	1 Lamp in a Folding Carton	12	12
MASTERCoulour CDM-T 70W/830 G12	ICT	1 Lamp in a Folding Carton	12	12
MASTERCoulour CDM-T 70W/830 G12	ICT	1 Lamp in a Folding Carton	12	12
MASTERCoulour CDM-T 70W/830 G12	ICT	1 Lamp in a Folding Carton	12	12
MASTERCoulour CDM-T 70W/942 G12	ICT	1 Lamp in a Folding Carton	12	12
MASTERCoulour CDM-T 70W/942 G12	ICT	1 Lamp in a Folding Carton	12	12
MASTERCoulour CDM-T 35W/830 G12	ICT	1 Lamp in a Folding Carton	12	12
MASTERCoulour CDM-T 35W/830 G12	ICT	1 Lamp in a Folding Carton	12	12
MASTERCoulour CDM-T 35W/842 G12	ICT	1 Lamp in a Folding Carton	12	12
MASTERCoulour CDM-T 35W/842 G12	ICT	1 Lamp in a Folding Carton	12	12
MASTERCoulour CDM-T 70W/830 G12	ICT	1 Lamp in a Folding Carton	12	12
MASTERCoulour CDM-T 70W/830 G12	ICT	1 Lamp in a Folding Carton	12	12
MASTERCoulour CDM-T 70W/942 G12	ICT	1 Lamp in a Folding Carton	12	12
MASTERCoulour CDM-T 70W/942 G12	ICT	1 Lamp in a Folding Carton	12	12
MASTERCoulour CDM-T 20W/830 G12	ICT	1 Lamp in a Folding Carton	12	12
MASTERCoulour CDM-T 35W/830 G12	ICT	1 Lamp in a Folding Carton	12	12
MASTERCoulour CDM-T 35W/842 G12	ICT	1 Lamp in a Folding Carton	12	12
MASTERCoulour CDM-T 35W/830 G12	ICT	1 Lamp in a Folding Carton	12	12
MASTERCoulour CDM-T 70W/830 G12	ICT	1 Lamp in a Folding Carton	12	12
MASTERCoulour CDM-T 70W/942 G12	ICT	1 Lamp in a Folding Carton	12	12
MASTERCoulour CDM-T 150W/830 G12	ICT	1 Lamp in a Folding Carton	12	12
MASTERCoulour CDM-T 150W/942 G12	ICT	1 Lamp in a Folding Carton	12	12
MASTERCoulour CDM-T 250W/830 G12	ICT	1 Lamp in a Folding Carton	12	12
MASTERCoulour CDM-T 250W/942 G12	ICT	1 Lamp in a Folding Carton	12	12
MASTERCoulour CDM-T 70W/830 G12	ICT	1 Lamp in a Folding Carton	12	12
MASTERCoulour CDM-T 70W/942 G12	ICT	1 Lamp in a Folding Carton	12	12
MASTERCoulour CDM-T 150W/830 G12	ICT	1 Lamp in a Folding Carton	12	12
MASTERCoulour CDM-T 150W/942 G12	ICT	1 Lamp in a Folding Carton	12	12

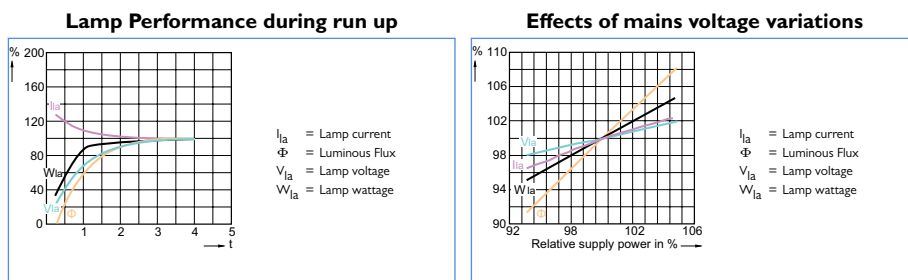
MASTERColour CDM

MASTERColour CDM-T

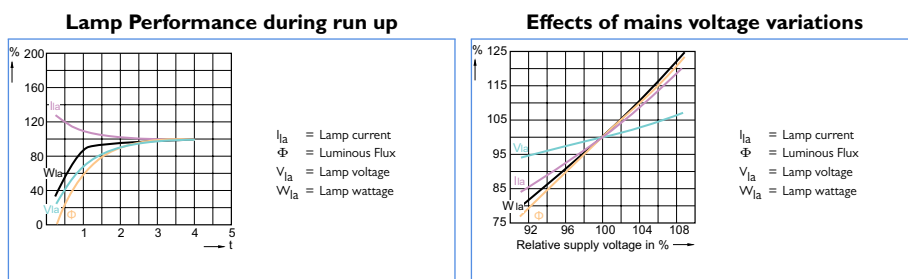
Product name	Quantity per pack	Packing length (mm)	Packing width (mm)	Packing height (mm)	Gross weight per piece (g)	Net weight per piece (g)
MASTERColour CDM-T 35W/842 G12	1	149	131	136	0.04	29
MASTERColour CDM-T 35W/842 G12	1	149	131	136	40.00	28
MASTERColour CDM-T 35W/842 G12	1	149	131	136	0.04	28
MASTERColour CDM-T 35W/830 G12	1	149	131	136	39.00	27
MASTERColour CDM-T 35W/830 G12	1	149	131	136	0.04	27
MASTERColour CDM-T 35W/830 G12	1	149	131	136	0.04	29
MASTERColour CDM-T 35W/830 G12	1	149	131	136	43.00	27
MASTERColour CDM-T 70W/830 G12	1	149	131	136	41.00	29
MASTERColour CDM-T 70W/830 G12	1	149	131	136	0.04	29
MASTERColour CDM-T 70W/830 G12	1	133	128	144	0.04	29
MASTERColour CDM-T 70W/830 G12	1	133	128	136	43.00	29
MASTERColour CDM-T 70W/942 G12	1	149	131	136	0.04	29
MASTERColour CDM-T 70W/942 G12	1	149	131	136	42.00	29
MASTERColour CDM-T 70W/942 G12	1	149	131	136	0.04	29
MASTERColour CDM-T 35W/830 G12	1	149	131	136	51.00	32
MASTERColour CDM-T 35W/830 G12	1	149	131	136	42.00	29
MASTERColour CDM-T 35W/842 G12	1	149	131	136	51.00	32
MASTERColour CDM-T 35W/842 G12	1	149	134	136	42.00	29
MASTERColour CDM-T 70W/830 G12	1	149	131	136	42.00	29
MASTERColour CDM-T 70W/830 G12	1	149	131	136	52.00	33
MASTERColour CDM-T 70W/942 G12	1	149	131	136	52.00	33
MASTERColour CDM-T 70W/942 G12	1	149	131	136	42.00	29
MASTERColour CDM-T 20W/830 G12	1	149	131	136	40.00	27
MASTERColour CDM-T 35W/830 G12	1	149	131	136	39.00	27
MASTERColour CDM-T 35W/842 G12	1	149	131	136	40.00	28
MASTERColour CDM-T 35W/830 G12	1	149	130	136	39.00	27
MASTERColour CDM-T 70W/830 G12	1	149	131	136	41.00	29
MASTERColour CDM-T 70W/942 G12	1	149	131	136	42.00	29
MASTERColour CDM-T 150W/830 G12	1	149	131	136	45.00	33
MASTERColour CDM-T 150W/942 G12	1	149	131	136	47.00	33
MASTERColour CDM-T 250W/830 G12	1	176	161	177	60.00	39
MASTERColour CDM-T 250W/942 G12	1	176	161	177	60.00	39
MASTERColour CDM-T 70W/830 G12	1	149	131	136	41.00	29
MASTERColour CDM-T 70W/942 G12	1	149	131	136	41.00	29
MASTERColour CDM-T 150W/830 G12	1	149	131	136	45.00	33
MASTERColour CDM-T 150W/942 G12	1	149	131	136	47.00	33

Performance diagrams

MASTERColour CDM-T 35W /942



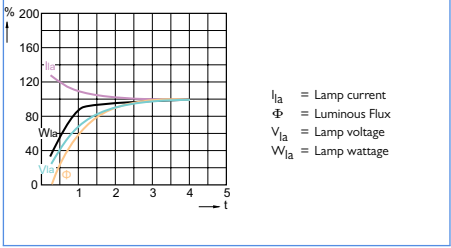
MASTERColour CDM-T /830



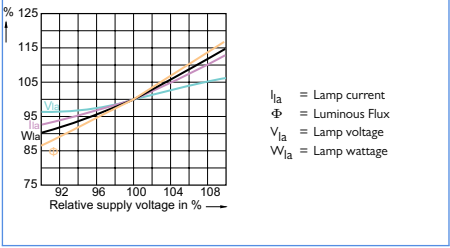
MASTERColour CDM
MASTERColour CDM-T

MASTERColour CDM-T 70W, 150W, 250W /942

Lamp Performance during run up

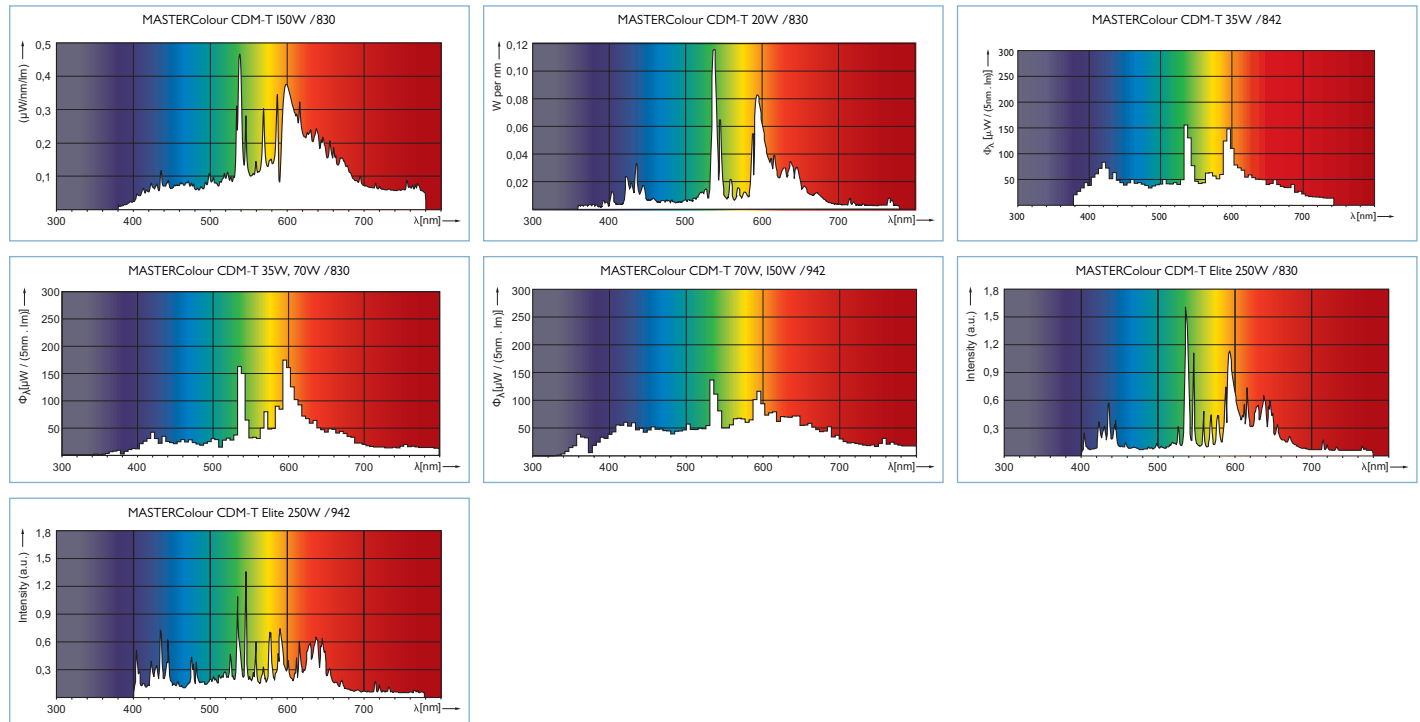


Effects of mains voltage variations

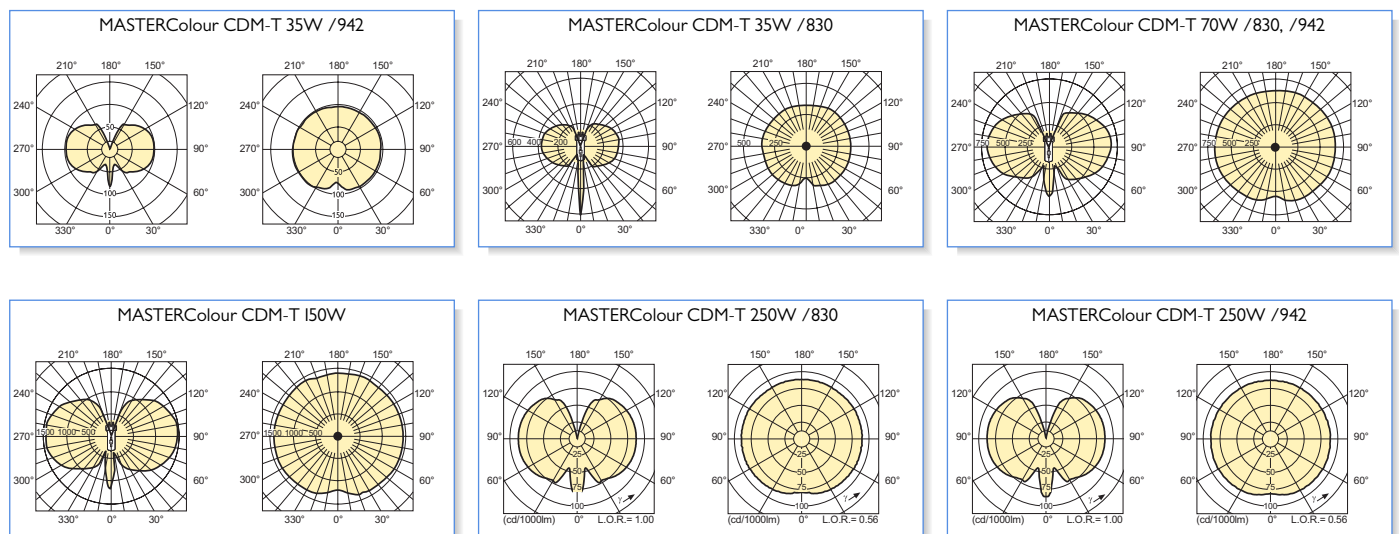


MASTERColour CDM

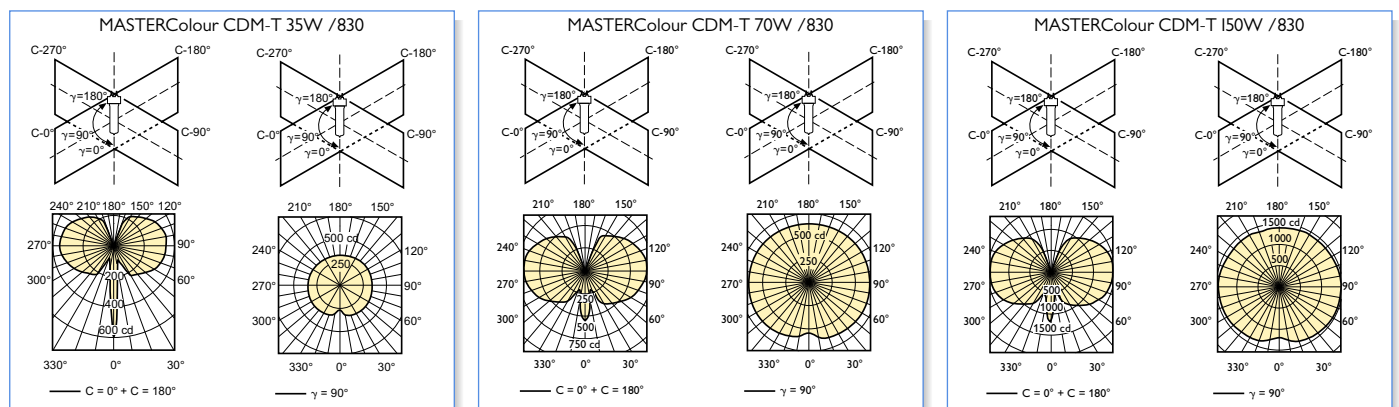
MASTERColour CDM-T



Light distribution curves

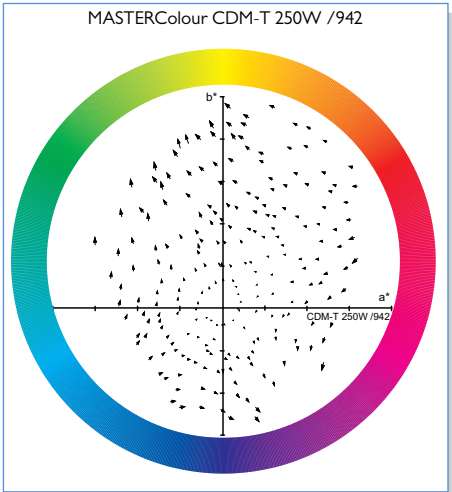
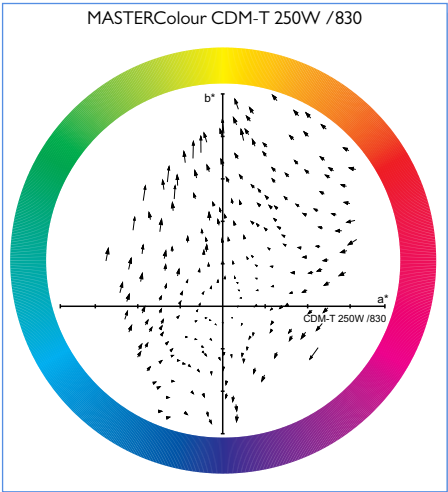
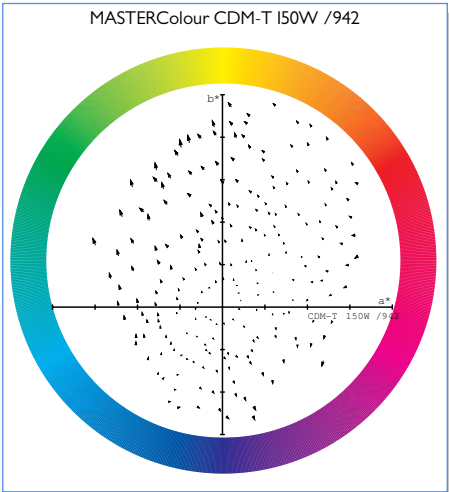
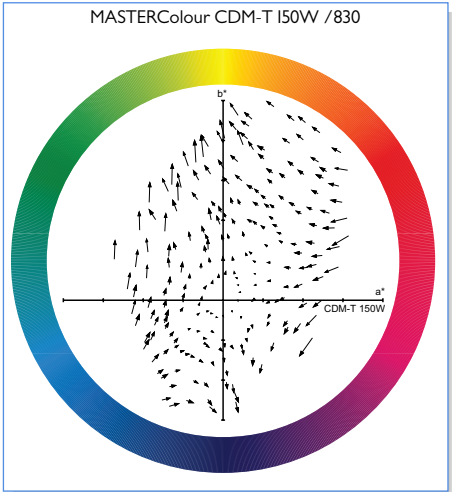
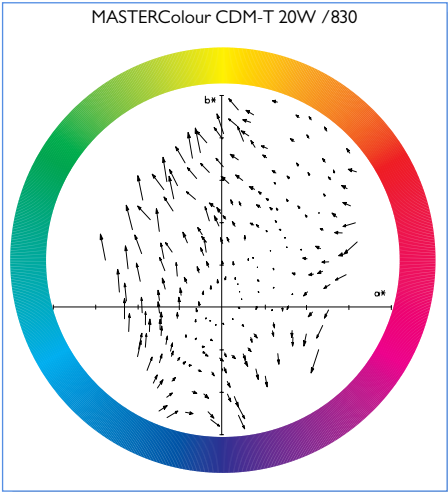
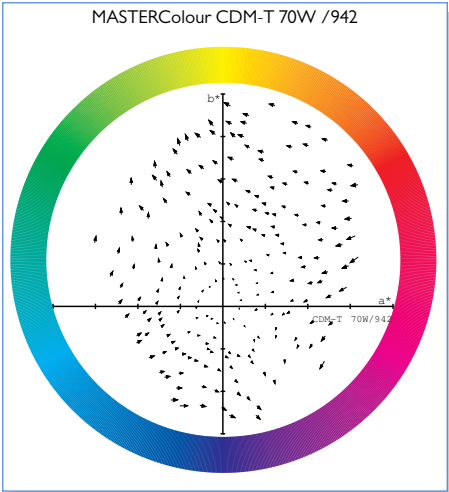
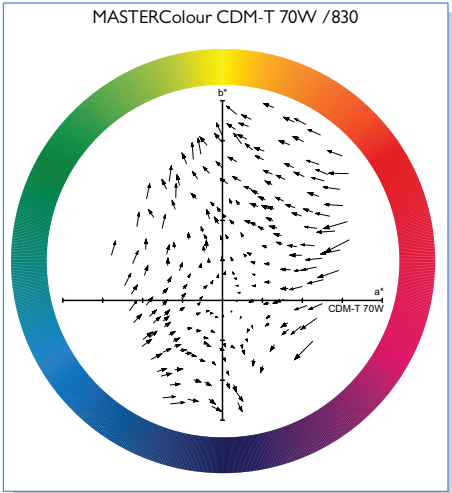
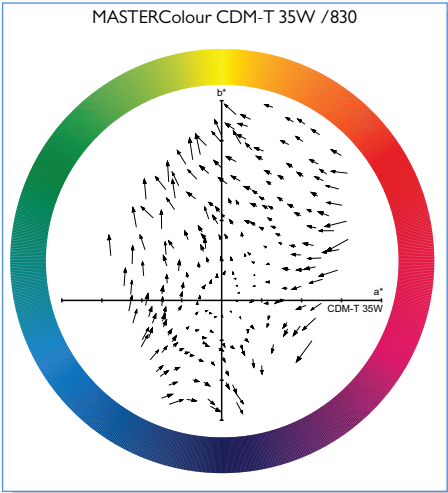
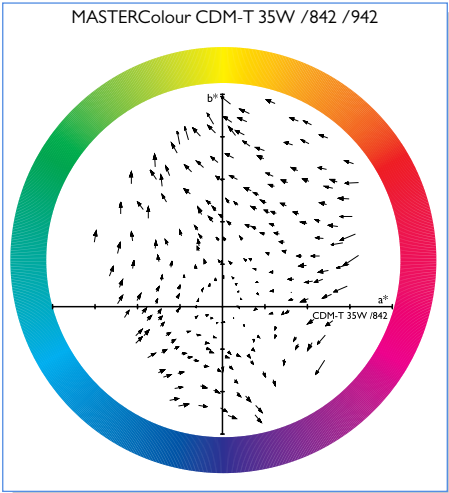


Polar light distribution



MASTERColour CDM
MASTERColour CDM-T

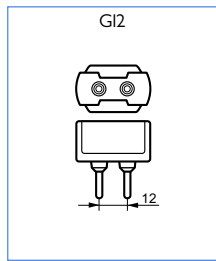
CRV diagrams



MASTERColour CDM

MASTERColour CDM-T

Cap/base

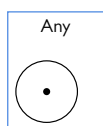


Additional extended technical data

Product name	Ignition Peak Voltage (V [max.])	Ignition Time (sec. [max.])	Luminous Efficacy Lamp EM (lm/W)	Luminous Efficacy Lamp EL (lm/W)
MASTERColour CDM-T 35W/842 G12	5000	30	-	79
MASTERColour CDM-T 35W/830 G12	5000	30	79	81
MASTERColour CDM-T 70W/830 G12	5000	30	88	89
MASTERColour CDM-T 70W/942 G12	5000	30	86	86
MASTERColour CDM-T 35W/830 G12	5000	30	83	83
MASTERColour CDM-T 35W/842 G12	5000	30	-	81
MASTERColour CDM-T 70W/830 G12	5000	30	93	-
MASTERColour CDM-T 70W/942 G12	5000	30	92	92
MASTERColour CDM-T 20W/830 G12	-	30	-	90
MASTERColour CDM-T 150W/830 G12	5000	30	90	91
MASTERColour CDM-T 150W/942 G12	5000	30	83	85
MASTERColour CDM-T 250W/830 G12	5000	30	111	-
MASTERColour CDM-T 250W/942 G12	5000	30	105	-

Product name	Color Designation (text)	Chromaticity Coordinate X	Chromaticity Coordinate Y	Bulb Finish	Bulb	Mercury (Hg) Content (mg)
MASTERColour CDM-T 35W/842 G12	Cool White	0.370	0.367	Clear	T19	2.70
MASTERColour CDM-T 35W/830 G12	Warm white	0.428	0.397	Clear	T19	3.10
MASTERColour CDM-T 70W/830 G12	Warm white	0.432	0.395	Clear	T19	4.50
MASTERColour CDM-T 70W/942 G12	Cool White	0.377	0.376	Clear	T19	6.10
MASTERColour CDM-T 35W/830 G12	Warm white	0.428	0.397	Clear	T19	3.10
MASTERColour CDM-T 35W/842 G12	Cool White	0.365	0.364	Clear	T19	2.70
MASTERColour CDM-T 70W/830 G12	Warm white	0.428	0.394	Clear	T19	4.50
MASTERColour CDM-T 70W/942 G12	Cool White	0.372	0.369	Clear	T19	6.10
MASTERColour CDM-T 20W/830 G12	Warm white	0.434	0.391	Clear	T19	3.50
MASTERColour CDM-T 150W/830 G12	Warm white	0.436	0.396	Clear	T19	14.25
MASTERColour CDM-T 150W/942 G12	Cool White	0.375	0.363	Clear	T19	10.40
MASTERColour CDM-T 250W/830 G12	Warm white	0.435	0.393	Clear	T24	27.00
MASTERColour CDM-T 250W/942 G12	Cool White	0.376	0.368	Clear	T24	19.00

Burning position



Luminance distribution

