



Product Description

MASTERColour CDM-T

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

Benefits

- Stable colour 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

Features

- Warm or cool white colour impression
- Colour rendering good to excellent
- Allows small-size luminaire designs that give high beam intensities

Application

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

Warnings and Safety

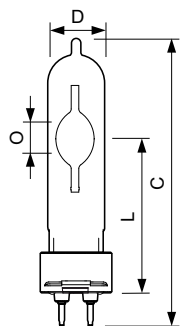
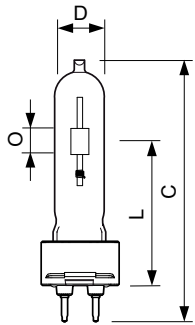
- Use only in totally enclosed luminaire, even during testing (IEC61167, IEC 62035, IEC60598)
- The luminaire must be able to contain hot lamp parts if the lamp ruptures
- Control gear must include end-of-life protection (IEC61167, IEC 62035)
- Lamps may use electronic or electromagnetic control gear, except 35W/942 and 20W 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.

MASTERColour CDM-T

Versions



Dimensional drawing



| Product | D (max) | D | O | L (min) | L (max) | L | C (max) |
|--|---------|---------|------|---------|---------|----|---------|
| MASTERColour CDM-T 150W/942 G12 1CT | 20 mm | 0.75 in | 8 mm | 55 mm | 57 mm | 56 | 110 mm |
| MASTERColour CDM-T 35W/842 G12 1CT/12 | 20 mm | 0.75 in | 5 mm | 55 mm | 57 mm | 56 | 103 mm |
| MASTERColour CDM-T 35W/842 G12 1CT/12 | 20 mm | 0.75 in | 5 mm | 55 mm | 57 mm | 56 | 103 mm |
| MASTERColour CDM-T 35W/830 G12 1CT/12 | 20 mm | 0.75 in | 5 mm | 55 mm | 57 mm | 56 | 103 mm |
| MASTERColour CDM-T 35W/830 G12 1CT/12 | 20 mm | 0.75 in | 5 mm | 55 mm | 57 mm | 56 | 103 mm |
| MASTERColour CDM-T 150W/830 G12 1CT | 20 mm | 0.75 in | 9 mm | 55 mm | 57 mm | 56 | 110 mm |
| MASTERColour CDM-T 70W/942 G12 1CT/12 | 20 mm | 0.75 in | 6 mm | 55 mm | 57 mm | 56 | 103 mm |
| MASTERColour CDM-T 70W/942 G12 1CT/12 | 20 mm | 0.75 in | 6 mm | 55 mm | 57 mm | 56 | 103 mm |
| MASTERColour CDM-T 70W/830 G12 1CT/12 | 20 mm | 0.75 in | 7 mm | 55 mm | 57 mm | 56 | 103 mm |

| Product | D (max) | O | L (min) | L (max) | L | C (max) |
|---|---------|---------|---------|---------|------|---------|
| MASTERColour CDM-T 250W/942 G12 1CT/12 | 25 mm | 12.3 mm | 71.5 mm | 73.5 mm | 72.5 | 135 mm |

MASTERColour CDM-T

| Controls and Dimming | |
|------------------------------|-----------|
| Dimmable | No |
| Operating and Electrical | |
| Re-ignition Time (Min) (Max) | 15 min |
| General Information | |
| Cap-Base | G12 |
| Life To 10% Failures (Nom) | 10000 h |
| Operating Position | UNIVERSAL |
| Mechanical and Housing | |
| Bulb Finish | Clear |

Approval and Application

| Order Code | Full Product Name | Energy Consumption kWh/1000 h | Mercury (Hg) Content (Max) | Mercury (Hg) Content (Nom) |
|--------------|---------------------------------------|-------------------------------|----------------------------|----------------------------|
| 928082305129 | MASTERColour CDM-T 70W/830 G12 1CT/12 | 80 kWh | - | 4.6 mg |
| 928084505129 | MASTERColour CDM-T 70W/942 G12 1CT/12 | 80 kWh | - | 6.1 mg |
| 928084505131 | MASTERColour CDM-T 70W/942 G12 1CT/12 | 74 kWh | 6.1 mg | 6.1 mg |
| 928083105125 | MASTERColour CDM-T 35W/830 G12 1CT/12 | 40 kWh | 3.2 mg | 3.1 mg |
| 928083105129 | MASTERColour CDM-T 35W/830 G12 1CT/12 | 43 kWh | - | 3.1 mg |

| Order Code | Full Product Name | Energy Consumption kWh/1000 h | Mercury (Hg) Content (Max) | Mercury (Hg) Content (Nom) |
|--------------|--|-------------------------------|----------------------------|----------------------------|
| 928094305125 | MASTERColour CDM-T 35W/842 G12 1CT/12 | 40 kWh | 2.7 mg | 2.7 mg |
| 928094305129 | MASTERColour CDM-T 35W/842 G12 1CT/12 | 43 kWh | - | 2.7 mg |
| 928083705125 | MASTERColour CDM-T 150W/830 G12 1CT | 151 kWh | 14.3 mg | 14.3 mg |
| 928084605131 | MASTERColour CDM-T 150W/942 G12 1CT | 151 kWh | 10.4 mg | 10.4 mg |
| 928094205131 | MASTERColour CDM-T 250W/942 G12 1CT/12 | 250 kWh | 20 mg | 20.0 mg |

Operating and Electrical

| Order Code | Full Product Name | Lamp Current (EM) (Nom) | Voltage (Max) | Voltage (Min) | Voltage (Nom) | Power (Rated) (Nom) |
|--------------|--|-------------------------|---------------|---------------|---------------|---------------------|
| 928082305129 | MASTERColour CDM-T 70W/830 G12 1CT/12 | 0.98 A | 96 V | 80 V | 88 V | 73.2 W |
| 928084505129 | MASTERColour CDM-T 70W/942 G12 1CT/12 | 0.98 A | 96 V | 80 V | 88 V | 73.2 W |
| 928084505131 | MASTERColour CDM-T 70W/942 G12 1CT/12 | 0.98 A | 96 V | 80 V | 88 V | 73.2 W |
| 928083105125 | MASTERColour CDM-T 35W/830 G12 1CT/12 | 0.53 A | 90 V | 76 V | 82 V | 39.1 W |
| 928083105129 | MASTERColour CDM-T 35W/830 G12 1CT/12 | 0.53 A | 90 V | 76 V | 82 V | 39.1 W |
| 928094305125 | MASTERColour CDM-T 35W/842 G12 1CT/12 | - | 93 V | 77 V | 85 V | 39.1 W |
| 928094305129 | MASTERColour CDM-T 35W/842 G12 1CT/12 | - | 93 V | 77 V | 85 V | 39.1 W |
| 928083705125 | MASTERColour CDM-T 150W/830 G12 1CT | 1.8 A | 106 V | 86 V | 96 V | 150.1 W |
| 928084605131 | MASTERColour CDM-T 150W/942 G12 1CT | 1.9 A | 98 V | 82 V | 90 V | 150.1 W |
| 928094205131 | MASTERColour CDM-T 250W/942 G12 1CT/12 | 3.04 A | 104 V | 84 V | 93 V | 250.0 W |

General Information

| Order Code | Full Product Name | Life To 20% Failures (Nom) | Life To 50% Failures (Nom) | Life To 5% Failures (Nom) |
|--------------|---------------------------------------|----------------------------|----------------------------|---------------------------|
| 928082305129 | MASTERColour CDM-T 70W/830 G12 1CT/12 | 11000 h | 12000 h | 9000 h |

| Order Code | Full Product Name | Life To 20% Failures (Nom) | Life To 50% Failures (Nom) | Life To 5% Failures (Nom) |
|--------------|---------------------------------------|----------------------------|----------------------------|---------------------------|
| 928084505129 | MASTERColour CDM-T 70W/942 G12 1CT/12 | 11000 h | 12000 h | 9000 h |

MASTERColour CDM-T

| Order Code | Full Product Name | Life To 20% Failures (Nom) | Life To 50% Failures (Nom) | Life To 5% Failures (Nom) |
|--------------|---------------------------------------|----------------------------|----------------------------|---------------------------|
| 928084505131 | MASTERColour CDM-T 70W/942 G12 1CT/12 | 11000 h | 12000 h | 9000 h |
| 928083105125 | MASTERColour CDM-T 35W/830 G12 1CT/12 | 11000 h | 12000 h | 9000 h |
| 928083105129 | MASTERColour CDM-T 35W/830 G12 1CT/12 | 11000 h | 12000 h | 9000 h |
| 928094305125 | MASTERColour CDM-T 35W/842 G12 1CT/12 | 11000 h | 12000 h | 9000 h |

| Order Code | Full Product Name | Life To 20% Failures (Nom) | Life To 50% Failures (Nom) | Life To 5% Failures (Nom) |
|--------------|--|----------------------------|----------------------------|---------------------------|
| 928094305129 | MASTERColour CDM-T 35W/842 G12 1CT/12 | 11000 h | 12000 h | 9000 h |
| 928083705125 | MASTERColour CDM-T 150W/830 G12 1CT | 11000 h | 12000 h | 9000 h |
| 928084605131 | MASTERColour CDM-T 150W/942 G12 1CT | 11000 h | 12000 h | 9000 h |
| 928094205131 | MASTERColour CDM-T 250W/942 G12 1CT/12 | 12000 h | 15000 h | 3500 h |

Luminaire Design Requirements

| Order Code | Full Product Name | Bulb Temperature (Max) |
|--------------|---------------------------------------|------------------------|
| 928082305129 | MASTERColour CDM-T 70W/830 G12 1CT/12 | 500 °C |
| 928084505129 | MASTERColour CDM-T 70W/942 G12 1CT/12 | 500 °C |
| 928084505131 | MASTERColour CDM-T 70W/942 G12 1CT/12 | 500 °C |
| 928083105125 | MASTERColour CDM-T 35W/830 G12 1CT/12 | 500 °C |
| 928083105129 | MASTERColour CDM-T 35W/830 G12 1CT/12 | 500 °C |

| Order Code | Full Product Name | Bulb Temperature (Max) |
|--------------|--|------------------------|
| 928094305125 | MASTERColour CDM-T 35W/842 G12 1CT/12 | 500 °C |
| 928094305129 | MASTERColour CDM-T 35W/842 G12 1CT/12 | 500 °C |
| 928083705125 | MASTERColour CDM-T 150W/830 G12 1CT | 650 °C |
| 928084605131 | MASTERColour CDM-T 150W/942 G12 1CT | 650 °C |
| 928094205131 | MASTERColour CDM-T 250W/942 G12 1CT/12 | 700 °C |

Light Technical (1/2)

| Order Code | Full Product Name | Chromaticity | Chromaticity | Correlated Colour | | Colour | Lumen | |
|--------------|--|--------------------|--------------------|-------------------|-----------------------|---------------------------|-------|------|
| | | Coordinate X (Nom) | Coordinate Y (Nom) | Temperature (Nom) | Rendering Index (Nom) | Maintenance 10000 h (Nom) | | |
| 928082305129 | MASTERColour CDM-T 70W/830 G12 1CT/12 | 0.432 | 0.395 | 830 | Warm white (WW) | 3000 K | 84 | 70 % |
| 928084505129 | MASTERColour CDM-T 70W/942 G12 1CT/12 | 0.377 | 0.376 | 942 | Cool White (CW) | 4200 K | 92 | 65 % |
| 928084505131 | MASTERColour CDM-T 70W/942 G12 1CT/12 | 0.371 | 0.366 | 942 | Cool White (CW) | 4200 K | 92 | 65 % |
| 928083105125 | MASTERColour CDM-T 35W/830 G12 1CT/12 | 0.434 | 0.398 | 830 | Warm white (WW) | 3000 K | 83 | 50 % |
| 928083105129 | MASTERColour CDM-T 35W/830 G12 1CT/12 | 0.428 | 0.397 | 830 | Warm white (WW) | 3000 K | 83 | 50 % |
| 928094305125 | MASTERColour CDM-T 35W/842 G12 1CT/12 | 0.371 | 0.366 | 842 | Cool White (CW) | 4200 K | 84 | 70 % |
| 928094305129 | MASTERColour CDM-T 35W/842 G12 1CT/12 | 0.370 | 0.367 | 842 | Cool White (CW) | 4200 K | 84 | 70 % |
| 928083705125 | MASTERColour CDM-T 150W/830 G12 1CT | 0.434 | 0.398 | 830 | Warm white (WW) | 3000 K | 88 | 60 % |
| 928084605131 | MASTERColour CDM-T 150W/942 G12 1CT | 0.371 | 0.366 | 942 | Cool White (CW) | 4200 K | 96 | 70 % |
| 928094205131 | MASTERColour CDM-T 250W/942 G12 1CT/12 | 0.371 | 0.366 | 942 | Cool White (CW) | 4200 K | 91 | 86 % |

Light Technical (2/2)

MASTERColour CDM-T

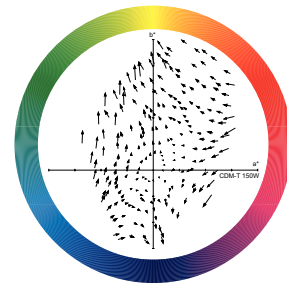
| Order Code | Full Product Name | Lumen | Lumen | Lumen | Lumen | Luminous | Luminous | Luminous | Luminous | Ratio |
|--------------|--|--------------|--------------|--------------|--------------|---------------|------------|--------------|----------|--------------|
| | | Maintenance | Maintenance | Maintenance | Maintenance | Efficacy | | Flux (Rated) | | Flux (Rated) |
| | | 2000 h (Min) | 2000 h (Nom) | 5000 h (Min) | 5000 h (Nom) | (rated) (Nom) | Flux (Nom) | (Min) | (Nom) | Photopic/ |
| | | | | | | | | | | Lumens |
| 928082305129 | MASTERColour CDM-T 70W/830 G12 1CT/12 | 75 % | 85 % | 70 % | 80 % | 85 lm/W | - | 5600 lm | 6200 lm | - |
| 928084505129 | MASTERColour CDM-T 70W/942 G12 1CT/12 | 75 % | 85 % | 65 % | 75 % | 85 lm/W | - | - | 6200 lm | - |
| 928084505131 | MASTERColour CDM-T 70W/942 G12 1CT/12 | 75 % | 85 % | 65 % | 75 % | 85 lm/W | 6200 lm | - | 6200 lm | - |
| 928083105125 | MASTERColour CDM-T 35W/830 G12 1CT/12 | 70 % | 80 % | 60 % | 70 % | 79 lm/W | 3100 lm | - | 3100 lm | - |
| 928083105129 | MASTERColour CDM-T 35W/830 G12 1CT/12 | 70 % | 80 % | 60 % | 70 % | 79 lm/W | - | - | 3100 lm | - |
| 928094305125 | MASTERColour CDM-T 35W/842 G12 1CT/12 | 80 % | 90 % | 75 % | 85 % | 77 lm/W | 3000 lm | - | 3000 lm | - |
| 928094305129 | MASTERColour CDM-T 35W/842 G12 1CT/12 | 80 % | 90 % | 75 % | 85 % | 77 lm/W | - | - | 3000 lm | - |
| 928083705125 | MASTERColour CDM-T 150W/830 G12 1CT | 65 % | 75 % | 60 % | 70 % | 88 lm/W | 13000 lm | 11700 lm | 13000 lm | - |
| 928084605131 | MASTERColour CDM-T 150W/942 G12 1CT | 75 % | 85 % | 70 % | 80 % | 82 lm/W | 12100 lm | 10900 lm | 12100 lm | - |
| 928094205131 | MASTERColour CDM-T 250W/942 G12 1CT/12 | - | 98 % | - | 94 % | 105 lm/W | 26250 lm | 23400 lm | 26250 lm | 1.75 |

Mechanical and Housing

| Order Code | Full Product Name | Bulb Shape |
|--------------|---------------------------------------|------------|
| 928082305129 | MASTERColour CDM-T 70W/830 G12 1CT/12 | T19 |
| 928084505129 | MASTERColour CDM-T 70W/942 G12 1CT/12 | T19 |
| 928084505131 | MASTERColour CDM-T 70W/942 G12 1CT/12 | T19 |
| 928083105125 | MASTERColour CDM-T 35W/830 G12 1CT/12 | T19 |
| 928083105129 | MASTERColour CDM-T 35W/830 G12 1CT/12 | T19 |

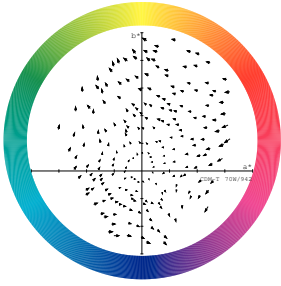
| Order Code | Full Product Name | Bulb Shape |
|--------------|--|------------|
| 928094305125 | MASTERColour CDM-T 35W/842 G12 1CT/12 | T19 |
| 928094305129 | MASTERColour CDM-T 35W/842 G12 1CT/12 | T19 |
| 928083705125 | MASTERColour CDM-T 150W/830 G12 1CT | T19 |
| 928084605131 | MASTERColour CDM-T 150W/942 G12 1CT | T19 |
| 928094205131 | MASTERColour CDM-T 250W/942 G12 1CT/12 | T24 |

Color Rendering Diagrams

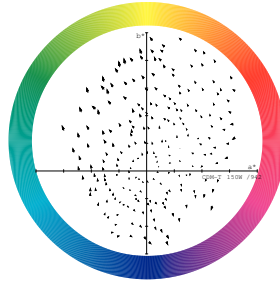


LDCR_CDM-T_150W_830-Colour rendering diagram

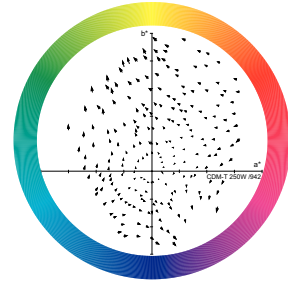
Color Rendering Diagrams



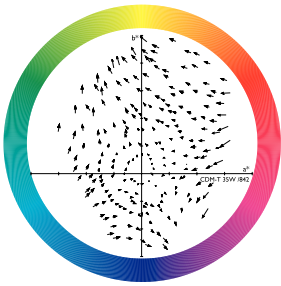
LDCR_CDM-T_70W_942-Colour rendering diagram



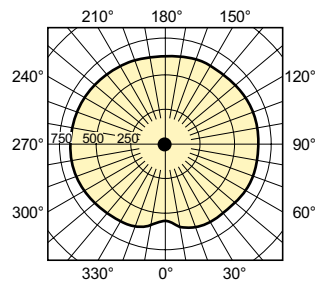
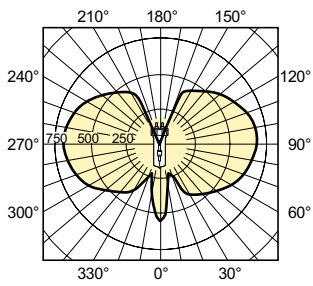
LDCR_CDM-T_150W_942-Colour rendering diagram

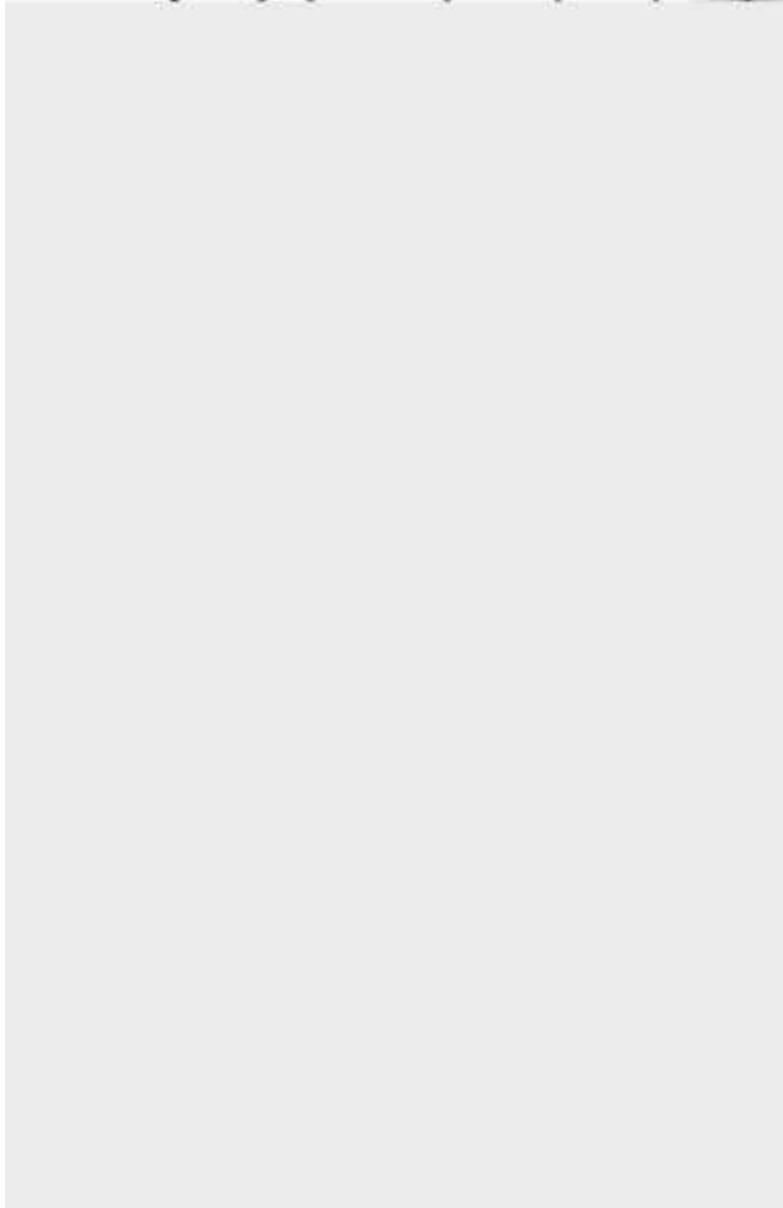
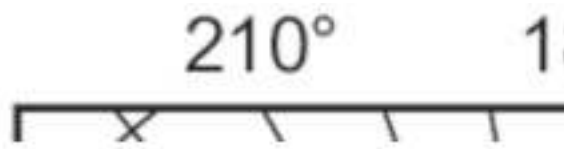


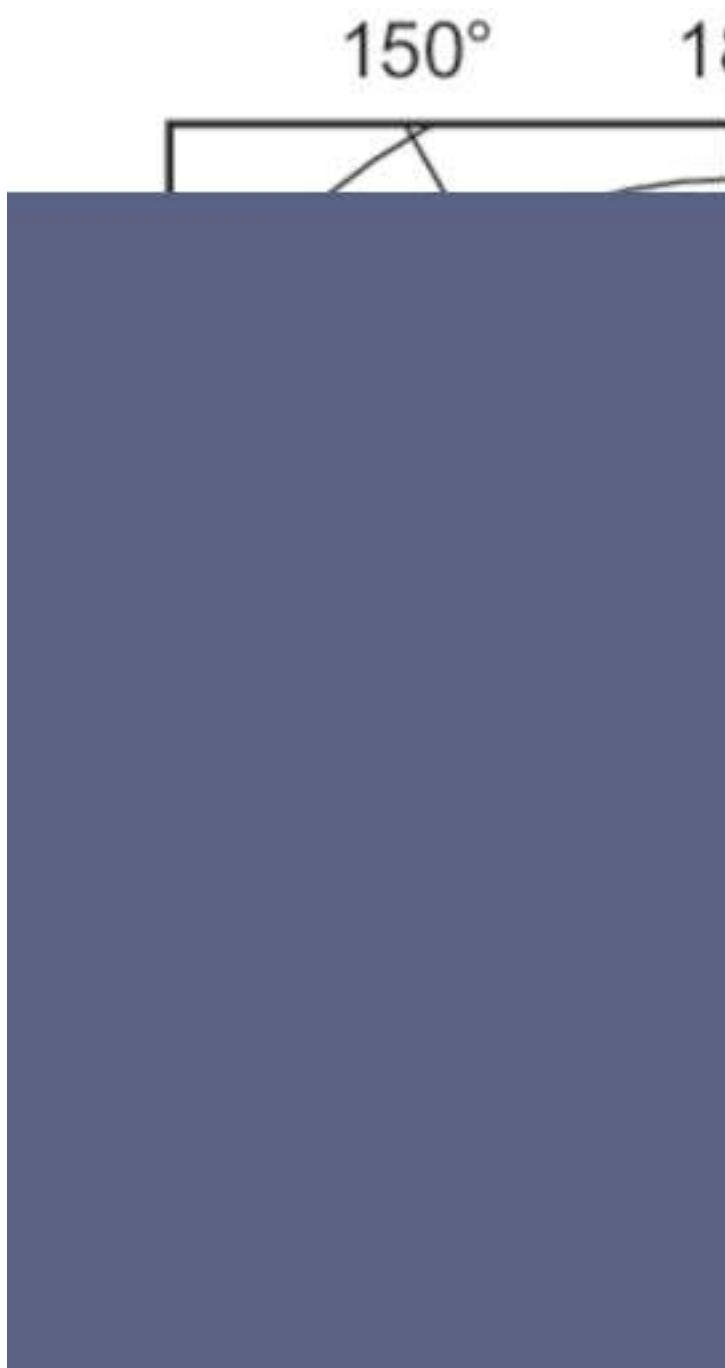
LDCR_CDM-T_250W_942-Colour rendering diagram



LDCR_CDM-T_35W_842_942-Colour rendering diagram



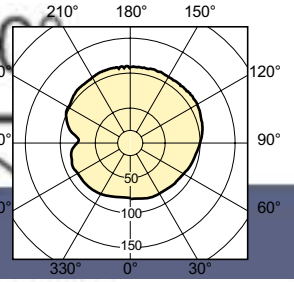
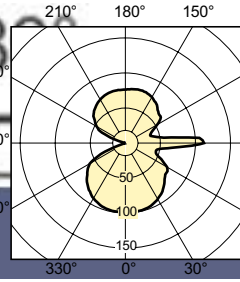




150°

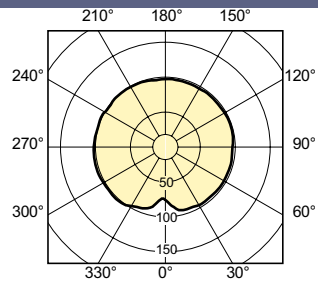
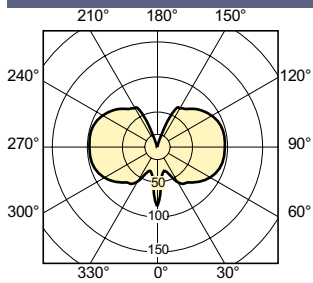
180°

150°



210°

180°



MASTERColour CDM-T

