



## PRODUCT SPECIFICATION

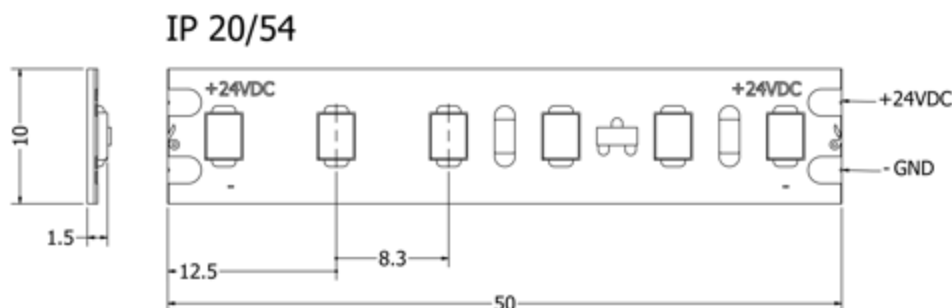
|                     |  |
|---------------------|--|
| Dimension           | L20000/W10mm                               |
| PCB increment       | Power connection and cut point every 100mm |
| LED pitch           | 8.33mm                                     |
| Chip                | Epistar                                    |
| Beam angle          | 120°                                       |
| Colours             | White                                      |
| Bin/step            | 3 Step MacAdam ellipse                     |
| CRI                 | 96.4                                       |
| Lifetime            | 50000hrs @45°                              |
| Operating temp.     | 0 - 50°C                                   |
| IP rating           | IP20/65                                    |
| Mounting            | 3M VHB backing tape                        |
| Minimum bend radius | 10mm                                       |
| Connection          | Hardwire tails or male/female connectors   |
| Control             | 0-10V/1-10V/DMX/DALI                       |



## PERFORMANCE DATA (for 1000mm)

|                   |             |
|-------------------|-------------|
| Power consumption | 23W         |
| Supply voltage    | 24V DC      |
| Supply current    | 0.958A      |
| Luminous flux     | 1502.32lm/M |

## TECHNICAL DRAWING



## PRODUCT DETAILS

|   |                                      |
|---|--------------------------------------|
| Product name                              | LUMEN LINE 120 EX                    |
| Stated output                             | 1502.32lm per metre                  |
| Description                               | Flexible LED Tape, 2700K, 24V, 23W/m |
| Quantity/length of product tested         | 1 x 1000mm                           |
| Bin tolerance/#. MacAdams ellipse of chip | 3 Step MacAdam ellipse               |

## ELECTRICAL CHARACTERISTICS

|                       |       |
|-----------------------|-------|
| Input Voltage (V DC)  | 24    |
| Input power (W DC)    | 23    |
| Input Current (mA DC) | 958mA |

## LIGHT OUTPUT

|                             |         |
|-----------------------------|---------|
| Total light output (Lumens) | 1502.32 |
| Luminaire efficacy (lm/W)   | 65.32   |
| Beam angle                  | 120°    |

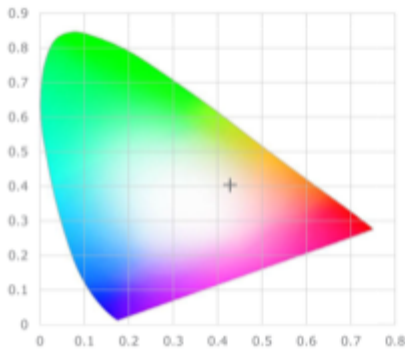
## COLOUR CHARACTERISTICS

|   |                |
|---|----------------|
| Correlated colour temperature (CCT)       | 2706K          |
| Colour rendering index (CRI, Ra)          | 96.4           |
| Chromaticity coordinates (CIE 1931 - x,y) | 0.4383, 0.4074 |

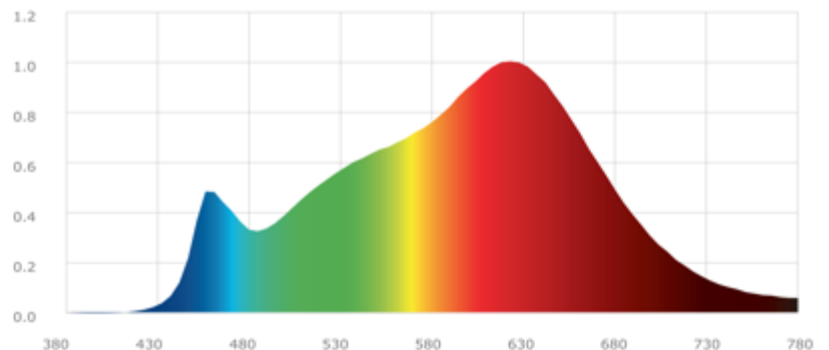
## COLOUR RENDERING INDEX

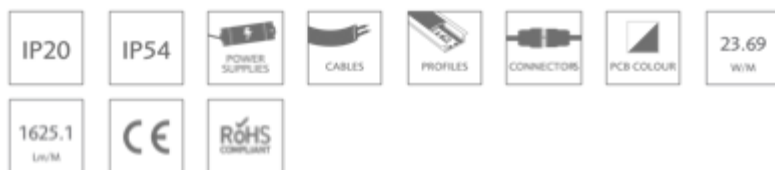
|    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |
|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|
| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
| 99 | 98 | 99 | 94 | 96 | 97 | 94 | 94 | 91 | 98  | 96  | 81  | 99  | 99  | 97  |

## CHROMATICITY DIAGRAM



## SPECTRAL RADIANT FLUX VERSUS WAVELENGTH





## ■ PRODUCT SPECIFICATION

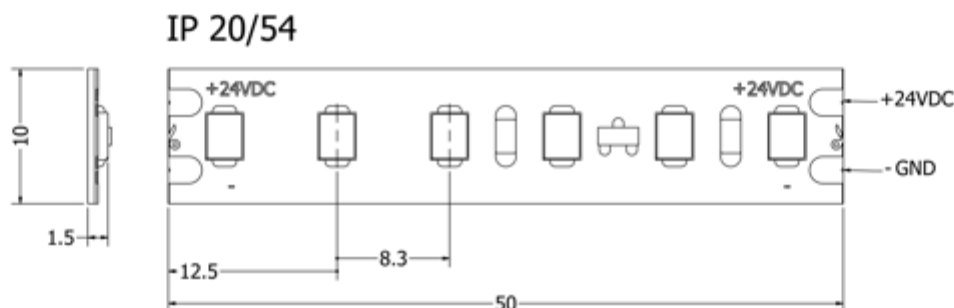
|                     |  |
|---------------------|--|
| Dimension           | L20000/W10mm                               |
| PCB increment       | Power connection and cut point every 100mm |
| LED pitch           | 8.33mm                                     |
| Chip                | Epistar                                    |
| Beam angle          | 120°                                       |
| Colours             | White                                      |
| Bin/step            | 3 Step MacAdam ellipse                     |
| CRI                 | 96.4                                       |
| Lifetime            | 50000hrs @45°                              |
| Operating temp.     | 0 - 50°C                                   |
| IP rating           | IP20/54                                    |
| Mounting            | 3M VHB backing tape                        |
| Minimum bend radius | 10mm                                       |
| Connection          | Hardwire tails or male/female connectors   |
| Control             | 0-10V/1-10V/DMX/DALI                       |



## ■ PERFORMANCE DATA (for 1000mm)

|                   |            |
|-------------------|------------|
| Power consumption | 23.69W     |
| Supply voltage    | 24V DC     |
| Supply current    | 0.987A     |
| Luminous flux     | 1625.1lm/M |

## TECHNICAL DRAWING



## PRODUCT DETAILS

|   |   |
|---|---|
| Product name                              | LUMEN LINE 120 EX                       |
| Stated output                             | 1625.1lm per metre                      |
| Description                               | Flexible LED Tape, 3000K, 24V, 23.69W/m |
| Quantity/length of product tested         | 1 x 1000mm                              |
| Bin tolerance/#. MacAdams ellipse of chip | 3 Step MacAdam ellipse                  |

## ELECTRICAL CHARACTERISTICS

|                       |       |
|-----------------------|-------|
| Input Voltage (V DC)  | 24    |
| Input power (W DC)    | 23.69 |
| Input Current (mA DC) | 987mA |

## LIGHT OUTPUT

|                             |        |
|-----------------------------|--------|
| Total light output (Lumens) | 1625.1 |
| Luminaire efficacy (lm/W)   | 68.6   |
| Beam angle                  | 120°   |

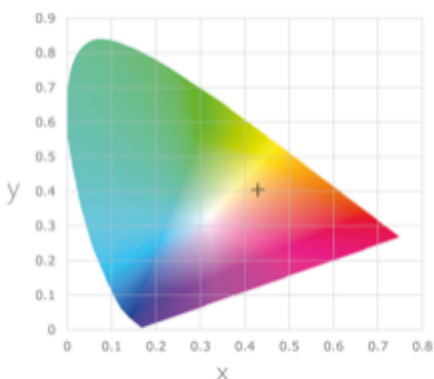
## COLOUR CHARACTERISTICS

|   |                |
|---|----------------|
| Correlated colour temperature (CCT)       | 3004K          |
| Colour rendering index (CRI, Ra)          | 96.4           |
| Chromaticity coordinates (CIE 1931 - x,y) | 0.4383, 0.4074 |

## COLOUR RENDERING INDEX

|    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |
|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|
| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
| 99 | 98 | 99 | 94 | 96 | 97 | 94 | 94 | 91 | 98  | 96  | 81  | 99  | 99  | 97  |

## CHROMATICITY DIAGRAM



## SPECTRAL RADIANT FLUX VERSUS WAVELENGTH

