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**tempLED**



HIGH TEMPERATURE HALL LIGHT

# tempLED RayBeam Hi V2 HT

400 | 500 | 600

Our customer  
Elbe-Stahlwerke Feralpi

HALL LIGHTS   
HIGH TEMPERATURES 

# tempLED

initial system efficiency  
up to 165 lm / w



**two** energy-efficient constant current power supplies with integrated DALI-2 dimming and optional constant lumen output (CLO)



powerful, dust-permeable heat sink made of die-cast aluminum



optional control and safety systems:



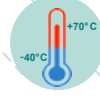
modular overall structure with exchangeable and replaceable main components



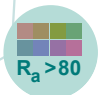
pressure compensation membrane to prevent condensation



solid luminaire housing optimized for high-temperature surroundings up to **+70° Celsius**



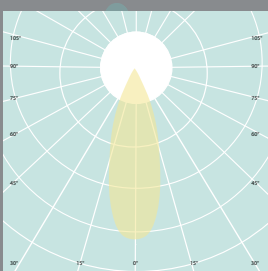
**five** durable and bright LED light fields



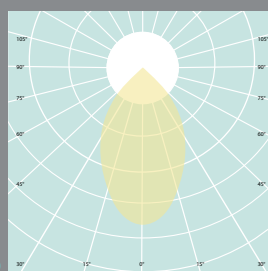
impact and UV-resistant high-performance optical system in linear technology for stray light reduction with three practical beam angles



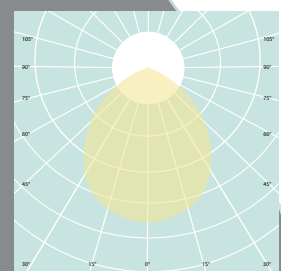
## Light distribution curves tempLED RayBeam Hi V2 HT 400 | 500 | 600



30 degrees symmetrical linear technology



60 degrees symmetrical linear technology

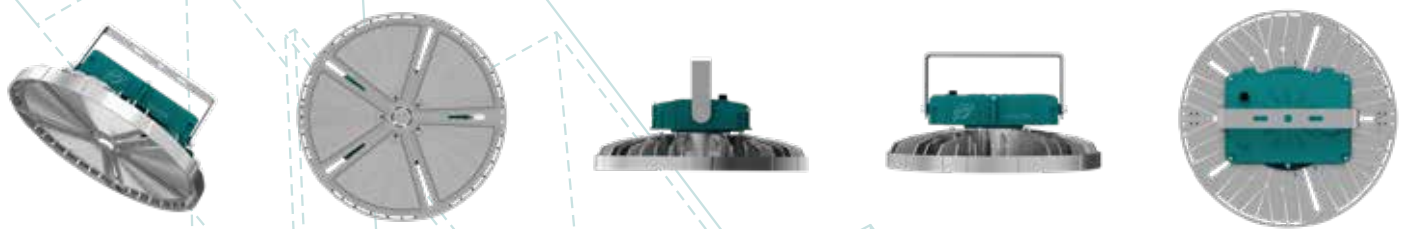


90 degrees symmetrical linear technology

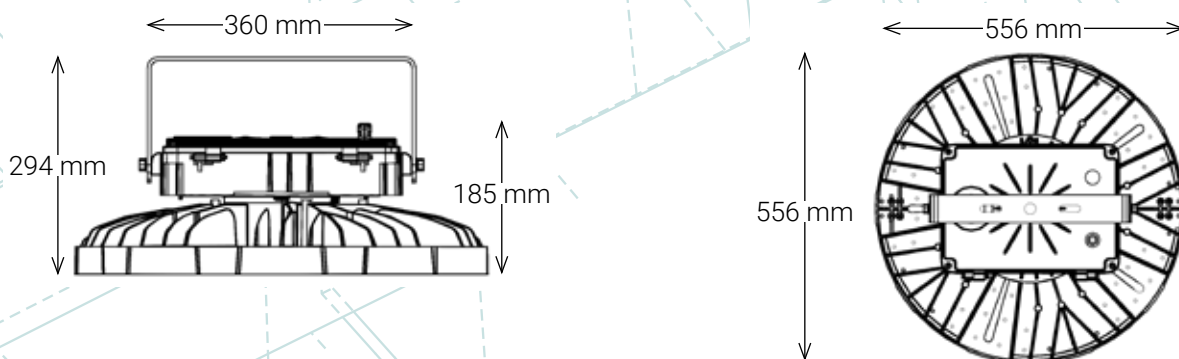




## tempLED RayBeam Hi V2 HT 400 | 500 | 600



## Dimensions tempLED RayBeam Hi V2 HT 400 | 500 | 600



## Mounting options tempLED RayBeam Hi V2 HT 400 | 500 | 600

bracket mounting<sup>1,2</sup>



<sup>1</sup>Adjustment range for surface mounting with standard ceiling bracket: -45 to +45 degrees.

<sup>2</sup>Adjustment range for surface mounting with optional wall bracket (934040): 0 to 90 degrees.

## General technical data

according to IEC, identical for all types of luminaires



### Lighting properties:

|                                          |                                            |
|------------------------------------------|--------------------------------------------|
| initial luminous flux:                   | 66,000 to 99,000 lumens                    |
| luminous flux tolerance:                 | ± 10 percent                               |
| initial system efficiency:               | up to 165 lumens / watt                    |
| initial, most similar color temperature: | 4,000 kelvins   5,000 kelvins <sup>1</sup> |
| initial color rendering index (CRI):     | Ra > 80                                    |
| initial color consistency:               | < 5 SDCM                                   |
| available symmetrical beam angles:       | 30   60   90 degrees                       |
| photobiological safety:                  | IEC/TR 62778: 1                            |
| compact flicker degree (CFD):            | 1 percent                                  |
| stray light reduction:                   | yes, with linear technology                |

### Electrotechnical properties:

|                                    |                               |
|------------------------------------|-------------------------------|
| power supply AC:                   | 90 to 240 volts <sup>2</sup>  |
| supply frequency:                  | 50 / 60 hertz                 |
| power supply DC:                   | 140 to 250 volts <sup>3</sup> |
| system performance:                | 400 to 600 watts              |
| system performance tolerance:      | ± 10 percent                  |
| integrated power supplies:         | two                           |
| power factor:                      | > 0.90                        |
| overvoltage protection:            | yes                           |
| overheating protection:            | yes                           |
| temperature monitoring:            | yes                           |
| total harmonic distortion (THD):   | < 20 percent                  |
| temperature classification (ATEX): | T5                            |
| Tc - temperature:                  | +89 degrees Celsius           |

### Energy characteristics:

|                                         |                                                                    |
|-----------------------------------------|--------------------------------------------------------------------|
| Valid for all tempLED RayBeam Hi V2 HT: | This product contains a light source of energy efficiency class C. |
|-----------------------------------------|--------------------------------------------------------------------|

### Mounting options:

|                            |                                                             |
|----------------------------|-------------------------------------------------------------|
| standard mounting options: | ceiling bracket with adjustment range -45 to +45 degrees    |
| optional mounting options: | wall bracket with adjustment range 0 to 90 degrees (934040) |

<sup>1</sup> additional color temperatures on request.

<sup>2</sup> power supply 249 to 528 VAC - 50/60 Hz on request.

<sup>3</sup> power supply 352 to 500 VDC on request.

**Control and safety properties:**

|                                  |                                               |
|----------------------------------|-----------------------------------------------|
| dimming:                         | DALI-2                                        |
| minimum dimming level:           | 10 percent                                    |
| constant lumen output (CLO):     | optional                                      |
| control via the Casambi network: | optional <sup>1</sup>                         |
| emergency light module:          | optional <sup>2</sup>                         |
| human centric lighting:          | on request                                    |
| daylight control system:         | optional via the Casambi network <sup>1</sup> |

**Housing properties:**

|                                                         |                                                                                      |
|---------------------------------------------------------|--------------------------------------------------------------------------------------|
| ambient temperature:                                    | –40 to +70 degrees Celsius                                                           |
| ingress protection:                                     | IP 65                                                                                |
| impact resistance level:                                | IK08                                                                                 |
| electrical protection class:                            | I                                                                                    |
| limited surface temperatur (D):                         | yes                                                                                  |
| pressure compensation membrane:                         | yes                                                                                  |
| housing and heat sink material(s):                      | die-cast aluminum                                                                    |
| material(s) and finish of the standard ceiling bracket: | stainless steel, powder-coated in white aluminium according to RAL 9006 <sup>3</sup> |
| material of optical system:                             | impact- and UV-resistant polycarbonate                                               |
| luminaire housing color:                                | white aluminium according to RAL 9006 <sup>3</sup>                                   |
| power supply housing color:                             | water blue according to RAL 5021 <sup>3</sup>                                        |
| surface finish:                                         | powder coating <sup>3</sup>                                                          |
| supply cable type:                                      | H05SS-F 5G1                                                                          |
| supply cable length:                                    | 250 centimeters                                                                      |
| supply cable inlet:                                     | plug connector                                                                       |
| supply cable connection type:                           | open cable end                                                                       |
| number of poles:                                        | 3 grid / 2 DALI                                                                      |

**Additional information:**

|                                              |                                                |
|----------------------------------------------|------------------------------------------------|
| certificates:                                | ENEC in preparation                            |
| conformities:                                | CE and RoHS                                    |
| lifespan (L70B10C1) @ Ta 25 degrees Celsius: | approx. 100,000 hours                          |
| lifespan (L70B10C1) @ Ta 70 degrees Celsius: | approx. 100,000 hours                          |
| lifespan (L90B10C1) @ Ta 25 degrees Celsius: | approx. 50,000 hours                           |
| guarantee:                                   | 5 years <sup>4</sup>                           |
| spare part guarantee:                        | 10 years                                       |
| delievery includes:                          | luminaire, ceiling bracket and fall protection |

<sup>1</sup> can only be used at ambient temperatures of max. +50 degrees Celsius.<sup>2</sup> can only be used at ambient temperatures from +5 to +50 degrees Celsius.<sup>3</sup> optional luminaire housing colors and finishes: Paintings according to RAL colour chart, powder coatings according to RAL colour chart or synthetic resin coating.<sup>4</sup> according to the warranty conditions of tempLED GmbH, excluding accessories.**Logistic information:**

| luminaire:                        | RayBeam Hi V2 400 HT | RayBeam Hi V2 500 HT | RayBeam Hi V2 600 HT |
|-----------------------------------|----------------------|----------------------|----------------------|
| number of luminaires per package: | 1                    | 1                    | 1                    |
| number of luminaires per pallet:  | 8                    | 8                    | 8                    |
| net weight of the luminaire:      | 17,400 g             | 18,700 g             | 19,700 g             |
| gross weight per package:         | 20,200 g             | 21,500 g             | 22,500 g             |
| package dimensions L x W x H:     | 750 x 700 x 330 mm   | 750 x 700 x 330 mm   | 750 x 700 x 330 mm   |

## tempLED 400

|                                          | RayBeam Hi V2 400 - 30 HT | RayBeam Hi V2 400 - 60 HT | RayBeam Hi V2 400 - 90 HT |
|------------------------------------------|---------------------------|---------------------------|---------------------------|
| article number:                          | 336434                    | 336464                    | 336494                    |
| GTIN / EAN:                              | 4260745230766             | 4260745230780             | 4260745230803             |
| initial luminous flux:                   | 66,000 lm                 | 66,000 lm                 | 66,000 lm                 |
| initial system efficiency:               | 165 lm/w                  | 165 lm/w                  | 165 lm/w                  |
| initial, most similar color temperature: | 4,000 K                   | 4,000 K                   | 4,000 K                   |
| light distribution:                      | symmetrical               | symmetrical               | symmetrical               |
| beam angle:                              | 30 degrees                | 60 degrees                | 90 degrees                |
| dimming / control:                       | DALI-2                    | DALI-2                    | DALI-2                    |
| system performance:                      | 400 W                     | 400 W                     | 400 W                     |
| power consumption:                       | 1.74 A                    | 1.74 A                    | 1.74 A                    |
| maximum inrush current:                  | 65 A                      | 65 A                      | 65 A                      |
| dimensions (Ø x H):                      | 556 x 294 mm              | 556 x 294 mm              | 556 x 294 mm              |

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## tempLED 400

|                                          | RayBeam Hi V2 400 - 30 HT | RayBeam Hi V2 400 - 60 HT | RayBeam Hi V2 400 - 90 HT |
|------------------------------------------|---------------------------|---------------------------|---------------------------|
| article number:                          | 336435                    | 336465                    | 336495                    |
| GTIN / EAN:                              | 4260745230773             | 4260745230797             | 4260745230810             |
| initial luminous flux:                   | 66,000 lm                 | 66,000 lm                 | 66,000 lm                 |
| initial system efficiency:               | 165 lm/w                  | 165 lm/w                  | 165 lm/w                  |
| initial, most similar color temperature: | 5,000 K                   | 5,000 K                   | 5,000 K                   |
| light distribution:                      | symmetrical               | symmetrical               | symmetrical               |
| beam angle:                              | 30 degrees                | 60 degrees                | 90 degrees                |
| dimming / control:                       | DALI-2                    | DALI-2                    | DALI-2                    |
| system performance:                      | 400 W                     | 400 W                     | 400 W                     |
| power consumption:                       | 1.74 A                    | 1.74 A                    | 1.74 A                    |
| maximum inrush current:                  | 65 A                      | 65 A                      | 65 A                      |
| dimensions (Ø x H):                      | 556 x 294 mm              | 556 x 294 mm              | 556 x 294 mm              |

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## tempLED 500

|                                          | RayBeam Hi V2 500 - 30 HT | RayBeam Hi V2 500 - 60 HT | RayBeam Hi V2 500 - 90 HT |
|------------------------------------------|---------------------------|---------------------------|---------------------------|
| article number:                          | 336534                    | 336564                    | 336594                    |
| GTIN / EAN:                              | 4260745230827             | 4260745230841             | 4260745230865             |
| initial luminous flux:                   | 82,500 lm                 | 82,500 lm                 | 82,500 lm                 |
| initial system efficiency:               | 165 lm/w                  | 165 lm/w                  | 165 lm/w                  |
| initial, most similar color temperature: | 4,000 K                   | 4,000 K                   | 4,000 K                   |
| light distribution:                      | symmetrical               | symmetrical               | symmetrical               |
| beam angle:                              | 30 degrees                | 60 degrees                | 90 degrees                |
| dimming / control:                       | DALI-2                    | DALI-2                    | DALI-2                    |
| system performance:                      | 500 W                     | 500 W                     | 500 W                     |
| power consumption:                       | 2.17 A                    | 2.17 A                    | 2.17 A                    |
| maximum inrush current:                  | 80 A                      | 80 A                      | 80 A                      |
| dimensions (Ø x H):                      | 556 x 294 mm              | 556 x 294 mm              | 556 x 294 mm              |

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## tempLED 500

|                                          | RayBeam Hi V2 500 - 30 HT | RayBeam Hi V2 500 - 60 HT | RayBeam Hi V2 500 - 90 HT |
|------------------------------------------|---------------------------|---------------------------|---------------------------|
| article number:                          | 336535                    | 336565                    | 336595                    |
| GTIN / EAN:                              | 4260745230834             | 4260745230858             | 4260745230872             |
| initial luminous flux:                   | 82,500 lm                 | 82,500 lm                 | 82,500 lm                 |
| initial system efficiency:               | 165 lm/w                  | 165 lm/w                  | 165 lm/w                  |
| initial, most similar color temperature: | 5,000 K                   | 5,000 K                   | 5,000 K                   |
| light distribution:                      | symmetrical               | symmetrical               | symmetrical               |
| beam angle:                              | 30 degrees                | 60 degrees                | 90 degrees                |
| dimming / control:                       | DALI-2                    | DALI-2                    | DALI-2                    |
| system performance:                      | 500 W                     | 500 W                     | 500 W                     |
| power consumption:                       | 2.17 A                    | 2.17 A                    | 2.17 A                    |
| maximum inrush current:                  | 80 A                      | 80 A                      | 80 A                      |
| dimensions (Ø x H):                      | 556 x 294 mm              | 556 x 294 mm              | 556 x 294 mm              |

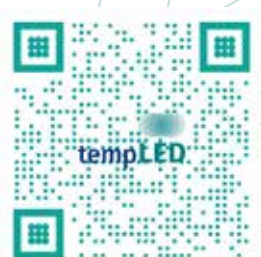
## tempLED 600

|                                          | RayBeam Hi V2 600 - 30 HT | RayBeam Hi V2 600 - 60 HT | RayBeam Hi V2 600 - 90 HT |
|------------------------------------------|---------------------------|---------------------------|---------------------------|
| article number:                          | 336634                    | 336664                    | 336694                    |
| GTIN / EAN:                              | 4260745230889             | 4260745230902             | 4260745230926             |
| initial luminous flux:                   | 99,000 lm                 | 99,000 lm                 | 99,000 lm                 |
| initial system efficiency:               | 165 lm/w                  | 165 lm/w                  | 165 lm/w                  |
| initial, most similar color temperature: | 4,000 K                   | 4,000 K                   | 4,000 K                   |
| light distribution:                      | symmetrical               | symmetrical               | symmetrical               |
| beam angle:                              | 30 degrees                | 60 degrees                | 90 degrees                |
| dimming / control:                       | DALI-2                    | DALI-2                    | DALI-2                    |
| system performance:                      | 600 W                     | 600 W                     | 600 W                     |
| power consumption:                       | 2.51 A                    | 2.51 A                    | 2.51 A                    |
| maximum inrush current:                  | 96 A                      | 96 A                      | 96 A                      |
| dimensions (Ø x H):                      | 556 x 294 mm              | 556 x 294 mm              | 556 x 294 mm              |

## tempLED 600

|                                          | RayBeam Hi V2 600 - 30 HT | RayBeam Hi V2 600 - 60 HT | RayBeam Hi V2 600 - 90 HT |
|------------------------------------------|---------------------------|---------------------------|---------------------------|
| article number:                          | 336635                    | 336665                    | 336695                    |
| GTIN / EAN:                              | 4260745230896             | 4260745230919             | 4260745230933             |
| initial luminous flux:                   | 99,000 lm                 | 99,000 lm                 | 99,000 lm                 |
| initial system efficiency:               | 165 lm/w                  | 165 lm/w                  | 165 lm/w                  |
| initial, most similar color temperature: | 5,000 K                   | 5,000 K                   | 5,000 K                   |
| light distribution:                      | symmetrical               | symmetrical               | symmetrical               |
| beam angle:                              | 30 degrees                | 60 degrees                | 90 degrees                |
| dimming / control:                       | DALI-2                    | DALI-2                    | DALI-2                    |
| system performance:                      | 600 W                     | 600 W                     | 600 W                     |
| power consumption:                       | 2.51 A                    | 2.51 A                    | 2.51 A                    |
| maximum inrush current:                  | 96 A                      | 96 A                      | 96 A                      |
| dimensions (Ø x H):                      | 556 x 294 mm              | 556 x 294 mm              | 556 x 294 mm              |

| tempLED                                                                            | Accessory catalogue RayBeam Hi V2 HT                                                                                                                                                                                                                                                                                                                                                                                                           | art.-no. | GTIN / EAN    |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------------|
|   | <b>wall bracket</b><br>surface bracket for wall mounting, adjustment range of the luminaire: 0 to 90 degrees, material: stainless steel, finish: natural                                                                                                                                                                                                                                                                                       | 934040   | 4260669194328 |
|   | <b>safety plug</b><br>3-pin safety plug with ingress protection IP 44, installed on the supply cable of the luminaire                                                                                                                                                                                                                                                                                                                          | 945400   | 4260491842251 |
|   | <b>supply cable extension</b><br>ready-to-use 5-pin supply cable extension up to 10 meters                                                                                                                                                                                                                                                                                                                                                     | 933566   | 4260745235570 |
|   | <b>Wieland connector RST 20i5</b><br>5-pin socket part; color coding: turquoise blue, 250 V, 20 A, with protective conductor, for cable diameter 6 - 10 mm                                                                                                                                                                                                                                                                                     | 945430   | 4260491842329 |
|   | <b>Wieland connector RST 20i5</b><br>5-pin connector part; color coding: turquoise blue, 250 V, 20 A, with protective conductor, installed on the supply cable of the luminaire                                                                                                                                                                                                                                                                | 945431   | 4260491842336 |
|   | <b>Casambi control unit</b><br>for integrating and controlling the luminaire via the Casambi network, can only be used at ambient temperatures of max. +50 degrees Celsius, mounted on the luminaire ready for use                                                                                                                                                                                                                             | 934189   | 4260669198227 |
|  | <b>emergency light module</b><br>with automatic detection of failure and return of supply voltage, display of functional status, battery type: LiFePO4, running time either approx. 1 hour with an output power of approx. 6 watts or approx. 3 hours with an output power of approx. 3 watts, recharging time: approx. 24 hours, can only be used at ambient temperatures of max. +50 degrees Celsius, mounted on the luminaire ready for use | 336900   | 4260745237284 |



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