

CoreLine Highbay

BY121P G3 LED205S/840 PSU WB GR



Generation 3 - LED Module, system flux 20,500 lm - 840 neutral white - Power supply unit - Wide beam - Gray

Following the successful introduction of the CoreLine Highbay in 2013, the upgrade to a new generation further improves the total cost of ownership and provides optionally DALI dimming for even further savings. Designed as a replacement for HPI 250/400 W luminaires, CoreLine High-bay G3 offers customers all the benefits of LED lighting – fresh light quality, longer service lifetime, reduced energy consumption and less maintenance – from a trusted manufacturer. At the same time, it delivers clear benefits for the installer too. The luminaire can be installed on the existing grid. Electrical connection is straightforward: there is no need to open the luminaire for installation or servicing. And being smaller and lighter than conventional luminaires, it is very easy to handle.

Product data

• General Information

| | |
|-------------------------------|---|
| Number of light sources | 1 pc |
| Lamp family code | LED205S |
| Light source color | 840 neutral white |
| Light source replaceable | No |
| Driver/power unit/transformer | Power supply unit |
| Driver included | Yes |
| Optic type | Wide beam |
| Optical cover/lens type | Flat glass |
| Cable | Cord 0.25 m with push-in connector |
| Protection class IEC | Safety class I |
| Standard RAL color | Light gray |
| Glow-wire test | Temperature 650 °C, duration 5 s |
| Flammability mark | For mounting on normally flammable surfaces |
| CE mark | CE mark |

• Operating and Electrical

| | |
|------------------------|--------------|
| Input Voltage | 200 to 240 V |
| Input Frequency | 50 to 60 Hz |
| Control signal voltage | - |

• Mechanical and Housing

| | |
|-----------------------------|--------------------------|
| Housing Material | Aluminum |
| Optical cover/lens material | Tempered laminated glass |

• Approval and Application

| | |
|------------------------------|---|
| Ingress protection code | IP65 [Dust penetration-protected, jet-proof] |
| Mech. impact protection code | IK08 [5] vandal-protected] |

• Initial Performance (IEC Compliant)

| | |
|--------------------------------|----------|
| Initial luminous flux | 20500 lm |
| Initial LED luminaire efficacy | 132 lm/W |
| Init. Corr. Color Temperature | 4000 K |
| Init. Color Rendering Index | ≥80 |
| Initial input power | 155 W |

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• Over Time Performance (IEC Compliant)

| | |
|------------------------------|---------|
| Median useful life L90B50 | 15000 h |
| Median useful life L80B50 | 30000 h |
| Median useful life L70B50 | 50000 h |

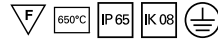
• Application Conditions

| | |
|------------------------------|----------------|
| Ambient temperature range | -30 to +40 °C |
| Maximum dim level | Not applicable |

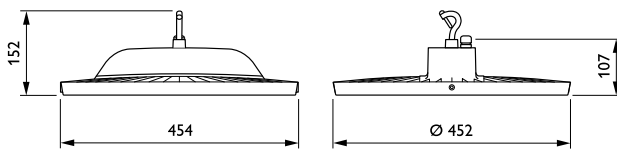
• Product Data

| | |
|-------------------|-----------------|
| Full product code | 871016330145700 |
|-------------------|-----------------|

| | |
|---------------------------------|------------------------------------|
| Order product name | BY121P G3 LED205S/840 PSU WB GR |
| EAN/UPC - Product | 8710163301457 |
| Order code | 911401505431 |
| Numerator - Quantity Per Pack | 1 |
| Numerator - Packs per outer box | 1 |
| Material Nr. (12NC) | 911401505431 |
| Net Weight (Piece) | 4.800 kg |



Dimensional drawing

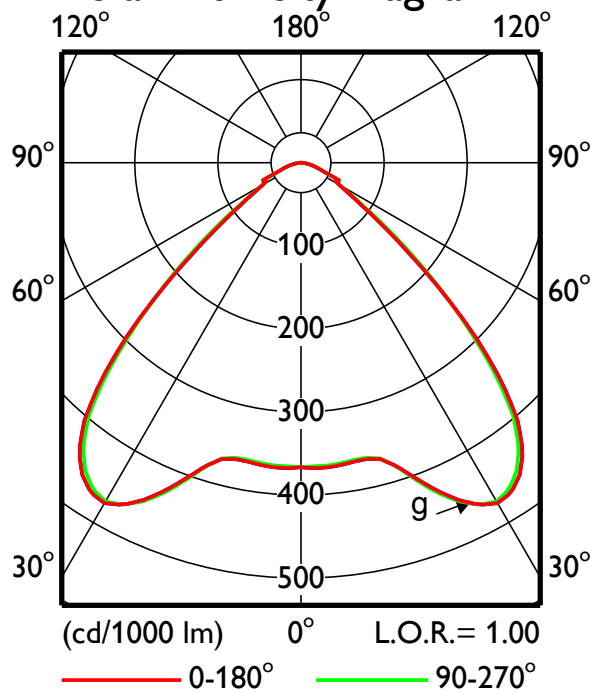


BY121P G3

BY121P G3 1xLED205S/840 WB

1 x 20500 lm

Polar intensity diagram



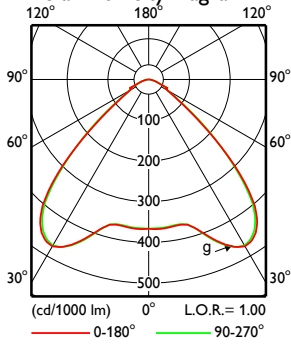
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BY121P G3 1xLED205S/840 WB

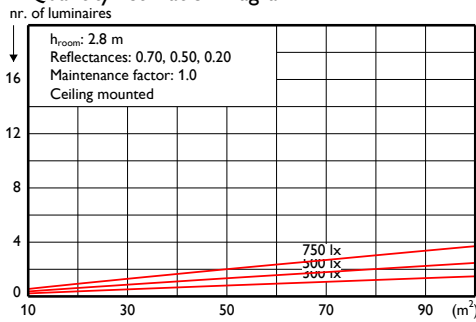
1 x 20500 lm

Polar intensity diagram



Light output ratio 1.00
 Service upward 0.00
 Service downward 1.00
 CIE flux code 67 94 99 100 100
 S/H ratio crosswise max. 1.6
 lengthwise max. 1.6
 UGR_{cen} (4Hx8H, 0.25H) 26
 UTE71-121: 1.00C + 0.00T

Quantity estimation diagram

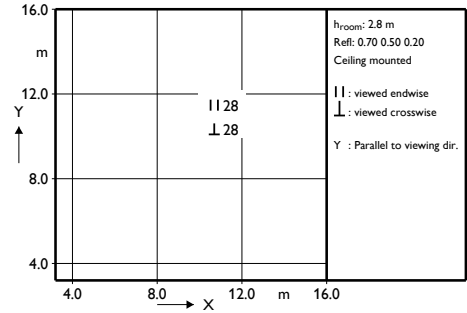


Utilisation factor table

| Room Index | Reflectances for ceiling, walls and working plane (CIE) | | | | | | | | | | | |
|------------|---|------|------|------|------|------|------|------|------|------|------|------|
| | 0.80 | 0.80 | 0.70 | 0.70 | 0.70 | 0.70 | 0.50 | 0.50 | 0.30 | 0.30 | 0.00 | 0.00 |
| 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.30 | 0.30 | 0.10 | 0.10 | 0.00 | 0.00 | 0.00 |
| 0.30 | 0.10 | 0.30 | 0.20 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.00 | 0.00 | 0.00 |
| 0.60 | 0.60 | 0.58 | 0.60 | 0.58 | 0.57 | 0.51 | 0.51 | 0.47 | 0.50 | 0.47 | 0.45 | 0.45 |
| 0.80 | 0.71 | 0.67 | 0.70 | 0.68 | 0.66 | 0.60 | 0.60 | 0.56 | 0.59 | 0.56 | 0.54 | 0.54 |
| 1.00 | 0.80 | 0.74 | 0.79 | 0.76 | 0.74 | 0.68 | 0.67 | 0.63 | 0.66 | 0.63 | 0.61 | 0.61 |
| 1.25 | 0.88 | 0.81 | 0.86 | 0.83 | 0.80 | 0.75 | 0.74 | 0.70 | 0.73 | 0.70 | 0.68 | 0.68 |
| 1.50 | 0.94 | 0.85 | 0.92 | 0.88 | 0.84 | 0.80 | 0.79 | 0.75 | 0.78 | 0.75 | 0.73 | 0.73 |
| 2.00 | 1.02 | 0.91 | 1.00 | 0.95 | 0.91 | 0.87 | 0.86 | 0.83 | 0.84 | 0.82 | 0.80 | 0.80 |
| 2.50 | 1.08 | 0.95 | 1.05 | 0.99 | 0.94 | 0.91 | 0.90 | 0.87 | 0.88 | 0.86 | 0.84 | 0.84 |
| 3.00 | 1.12 | 0.98 | 1.09 | 1.02 | 0.97 | 0.94 | 0.93 | 0.91 | 0.91 | 0.89 | 0.87 | 0.87 |
| 4.00 | 1.16 | 1.00 | 1.13 | 1.06 | 0.99 | 0.97 | 0.96 | 0.94 | 0.94 | 0.93 | 0.90 | 0.90 |
| 5.00 | 1.19 | 1.02 | 1.15 | 1.08 | 1.01 | 0.99 | 0.97 | 0.96 | 0.96 | 0.95 | 0.92 | 0.92 |

Ceiling mounted

UGR diagram



Luminance Table

| Plane Cone | 0.0 | 45.0 | 90.0 |
|------------|-------|-------|-------|
| 45.0 | 97006 | 98441 | 94496 |
| 50.0 | 61087 | 63454 | 64530 |
| 55.0 | 35535 | 36540 | 37746 |
| 60.0 | 24256 | 23841 | 24394 |
| 65.0 | 28206 | 18658 | 28697 |
| 70.0 | 17460 | 16584 | 17460 |
| 75.0 | 14432 | 13719 | 14521 |
| 80.0 | 11419 | 10888 | 11552 |
| 85.0 | 7143 | 6878 | 7936 |
| 90.0 | - | - | - |

(cd/m²)

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 data subject to change