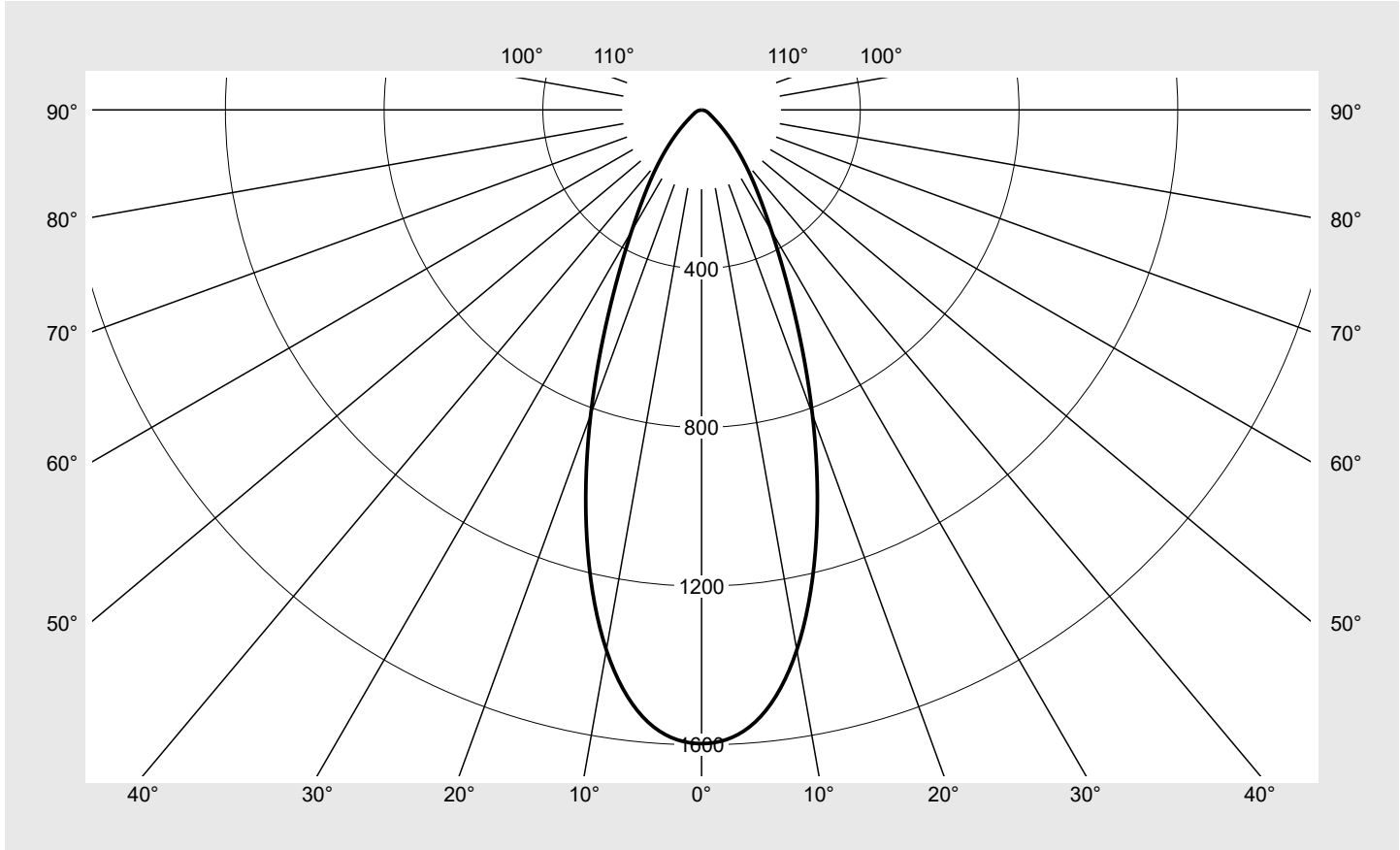


Photometric test report

| | | |
|--|---|--|
| Family Highbay 21 | Order number: 51HK41DA4JCA EAN: 4058352883426 | LP number 59527_2 |
|  | Version primary light control with lens, cover, polycarbonate, symmetric, narrow distribution, UGR≤22 | serial documentation 19.12.2023 |
| | Lamps LED 4000 K CRI ≥ 80 | |
| | Controlgear ECG-DALI | |
| | Rated values Net luminous flux = 19100 lm Power consumption = 107.0 W Luminous efficacy = 178.5 lm/W | |



Luminous intensity in cd/klm C180-0 **Imax: 1597 cd/klm**



| Classifications | |
|-----------------|------------------------------------|
| DIN 5040 | A 7 0 |
| CIE | N1=87 N2=97 N3=99 N4=100 N5=100 |

| Luminaire light output ratios | |
|-------------------------------|--------|
| η_{LB} | 100.0% |
| ϕ_u | 100.0% |
| ϕ_o | 0.0% |

| Measurement conditions |
|---------------------------|
| DIN EN 13032 and DIN 5032 |

Photometric test report

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| Family Highbay 21 | Order number: 51HK41DA4JCA EAN: 4058352883426 | LP number 59527_2 |
|----------------------|--|----------------------|

| | | |
|--|----------------------------|---------------|
| Table of values for luminous intensities | Maximum luminous intensity | sITeco |
|--|----------------------------|---------------|

| C-planes | 0° | Phi-zone | Total Phi-zone |
|----------|------------------------------|-------------------------|----------------|
| γ | Luminous intensity in cd/klm | Luminous flux in lm/klm | |
| 0° | 1596.8 | 9.5 | 9.5 |
| 5° | 1548.5 | 74.0 | 83.5 |
| 10° | 1381.9 | 131.5 | 215.1 |
| 15° | 1117.1 | 158.5 | 373.5 |
| 20° | 816.6 | 153.1 | 526.6 |
| 25° | 542.6 | 125.7 | 652.3 |
| 30° | 352.6 | 96.6 | 749.0 |
| 35° | 236.6 | 74.4 | 823.4 |
| 40° | 157.7 | 55.6 | 878.9 |
| 45° | 100.4 | 38.9 | 917.8 |
| 50° | 60.8 | 25.5 | 943.4 |
| 55° | 37.9 | 17.0 | 960.4 |
| 60° | 26.2 | 12.4 | 972.8 |
| 65° | 19.8 | 9.8 | 982.6 |
| 70° | 14.9 | 7.7 | 990.3 |
| 75° | 10.3 | 5.4 | 995.8 |
| 80° | 5.7 | 3.1 | 998.9 |
| 85° | 2.1 | 1.1 | 1000.0 |
| 90° | 0.0 | 0.0 | 1000.0 |
| 95° | 0.0 | 0.0 | 1000.0 |
| 100° | 0.0 | 0.0 | 1000.0 |
| 105° | 0.0 | 0.0 | 1000.0 |
| 110° | 0.0 | 0.0 | 1000.0 |
| 115° | 0.0 | 0.0 | 1000.0 |
| 120° | 0.0 | 0.0 | 1000.0 |
| 125° | 0.0 | 0.0 | 1000.0 |
| 130° | 0.0 | 0.0 | 1000.0 |
| 135° | 0.0 | 0.0 | 1000.0 |
| 140° | 0.0 | 0.0 | 1000.0 |
| 145° | 0.0 | 0.0 | 1000.0 |
| 150° | 0.0 | 0.0 | 1000.0 |
| 155° | 0.0 | 0.0 | 1000.0 |
| 160° | 0.0 | 0.0 | 1000.0 |
| 165° | 0.0 | 0.0 | 1000.0 |
| 170° | 0.0 | 0.0 | 1000.0 |
| 175° | 0.0 | 0.0 | 1000.0 |
| 180° | 0.0 | 0.0 | 1000.0 |

Photometric test report

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|----------------------|--|----------------------|
| Family Highbay 21 | Order number: 51HK41DA4JCA EAN: 4058352883426 | LP number 59527_2 |
|----------------------|--|----------------------|

| | | | |
|-----------|---------------|--------|--|
| UGR-Table | Standard room | siteco | |
|-----------|---------------|--------|--|

| | | | | | | | | | | | |
|------------------------------|---------------------|------|------|------|------|--------------------|------|------|------|------|------|
| Reflection factor of ceiling | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 | |
| Reflection factor of walls | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 | |
| Reflection factor of floor | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | |
| Room dimensions | View crosswise (C0) | | | | | View endwise (C90) | | | | | |
| x | y | | | | | | | | | | |
| 2H | 2H | 20.1 | 21.3 | 20.5 | 21.6 | 21.9 | 20.1 | 21.3 | 20.5 | 21.6 | 21.9 |
| | 3H | 20.5 | 21.5 | 20.9 | 21.9 | 22.2 | 20.5 | 21.5 | 20.9 | 21.9 | 22.2 |
| | 4H | 20.7 | 21.6 | 21.1 | 22.0 | 22.4 | 20.7 | 21.6 | 21.1 | 22.0 | 22.4 |
| | 6H | 20.8 | 21.7 | 21.2 | 22.0 | 22.4 | 20.8 | 21.7 | 21.2 | 22.0 | 22.4 |
| | 8H | 20.9 | 21.7 | 21.4 | 22.0 | 22.4 | 20.9 | 21.7 | 21.4 | 22.0 | 22.4 |
| | 12H | 20.9 | 21.6 | 21.4 | 22.0 | 22.4 | 20.9 | 21.6 | 21.4 | 22.0 | 22.4 |
| 4H | 2H | 20.2 | 21.1 | 20.6 | 21.5 | 21.9 | 20.2 | 21.1 | 20.6 | 21.5 | 21.9 |
| | 3H | 20.7 | 21.5 | 21.1 | 21.9 | 22.3 | 20.7 | 21.5 | 21.1 | 21.9 | 22.3 |
| | 4H | 21.0 | 21.7 | 21.4 | 22.1 | 22.5 | 21.0 | 21.7 | 21.4 | 22.1 | 22.5 |
| | 6H | 21.2 | 21.8 | 21.6 | 22.2 | 22.7 | 21.2 | 21.8 | 21.6 | 22.2 | 22.7 |
| | 8H | 21.2 | 21.8 | 21.7 | 22.2 | 22.7 | 21.2 | 21.8 | 21.7 | 22.2 | 22.7 |
| | 12H | 21.3 | 21.7 | 21.8 | 22.2 | 22.7 | 21.3 | 21.7 | 21.8 | 22.2 | 22.7 |
| 8H | 4H | 21.0 | 21.6 | 21.5 | 22.0 | 22.5 | 21.0 | 21.6 | 21.5 | 22.0 | 22.5 |
| | 6H | 21.3 | 21.7 | 21.8 | 22.2 | 22.7 | 21.3 | 21.7 | 21.8 | 22.2 | 22.7 |
| | 8H | 21.4 | 21.8 | 21.9 | 22.3 | 22.8 | 21.4 | 21.8 | 21.9 | 22.3 | 22.8 |
| | 12H | 21.4 | 21.7 | 22.0 | 22.3 | 22.8 | 21.4 | 21.7 | 22.0 | 22.3 | 22.8 |
| 12H | 4H | 21.1 | 21.5 | 21.5 | 21.9 | 22.5 | 21.1 | 21.5 | 21.5 | 21.9 | 22.5 |
| | 6H | 21.3 | 21.7 | 21.8 | 22.2 | 22.7 | 21.3 | 21.7 | 21.8 | 22.2 | 22.7 |
| | 8H | 21.4 | 21.7 | 21.9 | 22.2 | 22.8 | 21.4 | 21.7 | 21.9 | 22.2 | 22.8 |

| | | | |
|-----------------|---------------------------------|-------------------------------|--------------------|
| Luminance table | Max. for $\gamma \geq 65^\circ$ | Photometric dimensions in mm: | L = 450 B = 168 |
|-----------------|---------------------------------|-------------------------------|--------------------|

| | |
|----------|--------------------------------|
| C-planes | 0° |
| γ | Luminance in cd/m ² |
| 45° | 35855.2 |
| 50° | 23913.3 |
| 55° | 16692.2 |
| 60° | 13246.2 |
| 65° | 11831.3 |
| 70° | 11034.5 |
| 75° | 10008.4 |
| 80° | 8354.2 |
| 85° | 5988.9 |

Photometric test report

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|------------------------------------|--|------------------------------------|



Luminance values in cd/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°

