

R3111/LEDW445DX1



Pendelleuchte • linear

Anwendung : Arbeitsbereiche, Klassenräume

Gehäuse: Lackiertes Stahlblech

Lichtquelle : LED • 3000 K

Optik : Shielded lens • Polycarbonat (PC)
Aluminium-bedampft • mittelbreit strahlend

UGR-Klassifizierung : ≤ 16

Lichtstrom: 4200 lm

Spezifischer Lichtstrom : 145 lm/W

LLMF: 98% @ 50khrs (Tq=25°C)

Product information

Mechanische Merkmale

Abmessungen : 1380 mm x 260 mm x 35 mm

Farbe: RAL9003 - signalweiß (Strukturlack)

Typ : Einzelleuchte

IP: IP20

Elektrische Ausrüstung

Betriebsgerät: DALI dimmbar

Anschlussleistung : 29 W

Spannung : 220-240V

Frequenz : 50-60Hz AC

Fotobiologische Sicherheit : EN 62471: RISK GROUP 1
UNLIMITED

Leuchtdichte

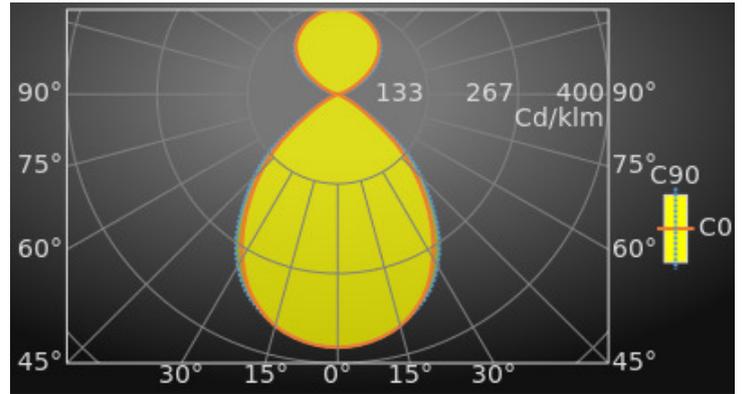
Lichtstrom : 4200 lm

Spezifischer Lichtstrom : 145 lm/W

Leuchtdichte @ 65° = : 3000 cd/m²

UGR-Klassifizierung =: <=16

leuchtende Fläche : 0.12 m²



Average Luminances (Cd/m²) for 4200lm

| Gamma | C0 | C30 | C45 | C60 | C90 |
|-------|------|------|------|------|------|
| 45° | 7810 | 8902 | 9386 | 9068 | 8772 |
| 50° | 6016 | 7505 | 8089 | 7832 | 7136 |
| 55° | 3381 | 5384 | 6689 | 6308 | 4389 |
| 60° | 2099 | 3272 | 4592 | 3457 | 2074 |
| 65° | 619 | 1264 | 2032 | 1623 | 1431 |
| 70° | 363 | 449 | 653 | 1003 | 920 |
| 75° | 257 | 296 | 360 | 556 | 752 |
| 80° | 58 | 137 | 195 | 283 | 576 |
| 85° | 0 | 0 | 0 | 30 | 361 |

Klassifikationen

CIE: 459 / 648 / 671 / 672 / 1000

CIE FLUXCODE : 0.68 / 0.96 / 1.00 / 0.67 / 1.00

BZ: BZ2

CAE: Symmetrical

DIN: B52 (Nach Arbeitsblatt 7 und 8)

DIN_U: Phi u = 0.67

DIN_SU: Phi su = 0.70

UTE: 0.67 C + 0.33 T

Lifetime Data (Tq=25.0°C)

| Time(khrs) | LLMF(%) | Cx(%) |
|------------|---------|-------|
| 10 | 99 | 1 |
| 20 | 99 | 2 |
| 30 | 99 | 3 |
| 40 | 98 | 4 |
| 50 | 98 | 5 |
| 60 | 98 | 6 |

UGR-Klassifizierung =

Corrected Glare Ratings for a Total Lamp Flux of 4200lm (S = 0.25H)

| | Room Reflection Factors (%) | | | | | | | | | | |
|--|-----------------------------|------|------|------|------|----------------|------|------|------|------|----|
| | Ceiling | 70 | 70 | 50 | 50 | 30 | 70 | 70 | 50 | 50 | 30 |
| Walls | 50 | 30 | 50 | 30 | 30 | 50 | 30 | 50 | 30 | 30 | 50 |
| Floor | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| Room Dimensions | Viewed Crosswise | | | | | Viewed Endwise | | | | | |
| X = 2H Y = 2H | 15.0 | 16.1 | 15.7 | 16.9 | 17.5 | 15.5 | 16.6 | 16.2 | 17.3 | 18.0 | |
| Y = 3H | 14.8 | 15.8 | 15.5 | 16.5 | 17.2 | 15.3 | 16.3 | 16.1 | 17.0 | 17.7 | |
| Y = 4H | 14.7 | 15.6 | 15.4 | 16.3 | 17.0 | 15.2 | 16.1 | 16.0 | 16.9 | 17.6 | |
| Y = 6H | 14.5 | 15.4 | 15.3 | 16.1 | 16.9 | 15.1 | 15.9 | 15.9 | 16.7 | 17.4 | |
| Y = 8H | 14.5 | 15.3 | 15.3 | 16.1 | 16.8 | 15.1 | 15.9 | 15.9 | 16.6 | 17.4 | |
| Y = 12H | 14.4 | 15.2 | 15.2 | 16.0 | 16.7 | 15.0 | 15.8 | 15.8 | 16.6 | 17.3 | |
| X = 4H Y = 2H | 15.1 | 15.9 | 15.8 | 16.7 | 17.4 | 15.4 | 16.3 | 16.2 | 17.1 | 17.8 | |
| Y = 3H | 14.8 | 15.6 | 15.6 | 16.4 | 17.1 | 15.3 | 16.1 | 16.1 | 16.9 | 17.6 | |
| Y = 4H | 14.7 | 15.3 | 15.5 | 16.2 | 16.9 | 15.2 | 15.9 | 16.0 | 16.7 | 17.4 | |
| Y = 6H | 14.6 | 15.1 | 15.4 | 16.0 | 16.8 | 15.1 | 15.7 | 16.0 | 16.5 | 17.3 | |
| Y = 8H | 14.5 | 15.0 | 15.4 | 15.9 | 16.7 | 15.1 | 15.6 | 15.9 | 16.4 | 17.2 | |
| Y = 12H | 14.5 | 14.9 | 15.3 | 15.8 | 16.6 | 15.0 | 15.5 | 15.9 | 16.3 | 17.2 | |
| X = 8H Y = 4H | 14.5 | 15.0 | 15.4 | 15.9 | 16.7 | 15.0 | 15.6 | 15.9 | 16.4 | 17.2 | |
| Y = 6H | 14.4 | 14.8 | 15.3 | 15.7 | 16.5 | 15.0 | 15.4 | 15.8 | 16.2 | 17.1 | |
| Y = 8H | 14.3 | 14.7 | 15.2 | 15.6 | 16.4 | 14.9 | 15.3 | 15.8 | 16.1 | 17.0 | |
| Y = 12H | 14.3 | 14.6 | 15.2 | 15.5 | 16.4 | 14.8 | 15.1 | 15.7 | 16.0 | 16.9 | |
| X = 12H Y = 4H | 14.5 | 14.9 | 15.3 | 15.8 | 16.6 | 15.0 | 15.4 | 15.8 | 16.3 | 17.1 | |
| Y = 6H | 14.3 | 14.7 | 15.2 | 15.6 | 16.4 | 14.9 | 15.2 | 15.8 | 16.1 | 17.0 | |
| Y = 8H | 14.3 | 14.6 | 15.2 | 15.5 | 16.4 | 14.8 | 15.1 | 15.7 | 16.0 | 16.9 | |
| UGR Variations with Observer Position for Luminaire Spacings S | | | | | | | | | | | |
| S = 1.0H | +1.1 | | -2.3 | | +0.7 | | -1.5 | | | | |
| S = 1.5H | +2.3 | | -7.5 | | +2.1 | | -6.6 | | | | |
| S = 2.0H | +3.6 | | 14.7 | | +3.3 | | -8.3 | | | | |

Lichtstärken in cd

Intensity for 4200lm

| Gamma | C0 | C45 | C90 | Gamma | C0 | C45 | C90 |
|-------|--------|--------|--------|-------|-------|-------|-------|
| 0° | 1580.2 | 1580.2 | 1580.2 | 90° | 0.2 | 0.3 | 1.3 |
| 5° | 1571.9 | 1567.8 | 1566.6 | 95° | 3.4 | 4.7 | 8.2 |
| 10° | 1543.8 | 1542.0 | 1542.3 | 100° | 12.8 | 17.9 | 25.4 |
| 15° | 1498.1 | 1495.7 | 1493.6 | 105° | 30.2 | 39.7 | 53.5 |
| 20° | 1420.9 | 1429.6 | 1430.9 | 110° | 59.0 | 75.0 | 95.6 |
| 25° | 1320.9 | 1347.4 | 1353.4 | 115° | 104.5 | 127.0 | 149.9 |
| 30° | 1180.1 | 1231.9 | 1239.9 | 120° | 167.5 | 191.8 | 215.5 |
| 35° | 1021.1 | 1104.2 | 1096.7 | 125° | 237.5 | 259.3 | 280.9 |
| 40° | 839.2 | 945.2 | 914.1 | 130° | 304.1 | 315.5 | 333.3 |
| 45° | 656.0 | 788.4 | 736.9 | 135° | 358.2 | 360.8 | 376.4 |
| 50° | 459.4 | 617.7 | 545.0 | 140° | 402.4 | 399.0 | 410.5 |
| 55° | 230.4 | 455.8 | 299.1 | 145° | 433.9 | 433.6 | 439.3 |
| 60° | 124.7 | 272.7 | 123.2 | 150° | 459.4 | 457.4 | 463.2 |
| 65° | 31.1 | 102.0 | 71.8 | 155° | 481.9 | 480.6 | 482.8 |
| 70° | 14.7 | 26.5 | 37.4 | 160° | 498.5 | 498.1 | 498.4 |
| 75° | 7.9 | 11.1 | 23.1 | 165° | 513.2 | 517.3 | 516.3 |
| 80° | 1.2 | 4.0 | 11.9 | 170° | 525.3 | 521.9 | 524.7 |
| 85° | 0.0 | 0.0 | 3.7 | 175° | 530.7 | 531.6 | 531.2 |
| 90° | 0.2 | 0.3 | 1.3 | 180° | 524.8 | 524.8 | 524.8 |

Colour properties

Correlated Colour Temperature : 3000

Farbwiedergabeindex Ra: CRI (Ra) 80



Leuchten-Betriebwirkungsgrad

Utilisation Factors according to IES (%)

| | Room Reflection Factors (%) | | | | | | | | | |
|---------|-----------------------------|----|----|----|----|----|----|----|----|----|
| | 80 | 80 | 80 | 50 | 50 | 50 | 30 | 30 | 30 | 0 |
| Ceiling | 80 | 80 | 80 | 50 | 50 | 50 | 30 | 30 | 30 | 0 |
| Walls | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |
| Floor | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 0 |
| RCR = 1 | 101 | 99 | 97 | 85 | 83 | 82 | 75 | 74 | 73 | 61 |
| 2 | 91 | 87 | 84 | 76 | 74 | 72 | 68 | 66 | 65 | 54 |
| 3 | 81 | 76 | 73 | 69 | 66 | 63 | 62 | 59 | 57 | 48 |
| 4 | 73 | 67 | 63 | 63 | 58 | 55 | 56 | 53 | 50 | 42 |
| 5 | 66 | 60 | 55 | 57 | 52 | 49 | 51 | 48 | 45 | 38 |
| 6 | 60 | 53 | 49 | 52 | 47 | 43 | 47 | 43 | 40 | 34 |
| 7 | 55 | 48 | 43 | 48 | 42 | 39 | 43 | 39 | 36 | 31 |
| 8 | 50 | 43 | 39 | 44 | 39 | 35 | 40 | 36 | 32 | 28 |
| 9 | 46 | 39 | 35 | 40 | 35 | 32 | 37 | 33 | 30 | 25 |
| 10 | 43 | 36 | 31 | 37 | 32 | 29 | 34 | 30 | 27 | 23 |

Utilisation Factors according to LiTG (%)

| | Room Reflection Factors (%) | | | | | | | | | |
|----------|-----------------------------|-----|----|----|----|----|----|----|----|----|
| | 80 | 80 | 80 | 50 | 50 | 50 | 50 | 30 | 30 | 0 |
| Ceiling | 80 | 80 | 80 | 50 | 50 | 50 | 50 | 30 | 30 | 0 |
| Walls | 50 | 30 | 50 | 30 | 50 | 30 | 50 | 30 | 30 | 0 |
| Floor | 30 | 30 | 10 | 10 | 30 | 30 | 10 | 10 | 10 | 0 |
| k = 0.60 | 51 | 43 | 49 | 42 | 45 | 39 | 43 | 38 | 36 | 29 |
| 0.80 | 62 | 54 | 58 | 52 | 54 | 48 | 52 | 47 | 44 | 36 |
| 1.00 | 70 | 62 | 65 | 59 | 61 | 55 | 58 | 53 | 49 | 41 |
| 1.25 | 79 | 72 | 73 | 67 | 68 | 63 | 64 | 60 | 56 | 47 |
| 1.50 | 85 | 78 | 77 | 72 | 73 | 68 | 68 | 64 | 60 | 50 |
| 2.00 | 92 | 86 | 83 | 78 | 78 | 74 | 72 | 69 | 64 | 54 |
| 2.50 | 98 | 92 | 86 | 83 | 82 | 78 | 76 | 73 | 67 | 57 |
| 3.00 | 102 | 97 | 89 | 86 | 85 | 82 | 78 | 76 | 70 | 59 |
| 4.00 | 106 | 102 | 92 | 89 | 88 | 85 | 80 | 78 | 72 | 61 |
| 5.00 | 109 | 105 | 94 | 92 | 90 | 88 | 82 | 80 | 73 | 62 |

Zubehör

ACC-HI00-X00 Baldachin für Pendelleuchten (R7/R3/Ley) - 5-poliger Klemmstein - RAL9005 Tiefschwarz

ACC-HI00-X01 Baldachin für Pendelleuchten (R7/R3/Ley) - 5-poliger Klemmstein - RAL9003 Signalweiß

ACC-HI00-X02 Baldachin für Pendelleuchten (R7/R3/Ley) - 5-poliger Klemmstein - RAL9006 Aluminium weiß

ACC-HI01-3P-1500 Pendelsatz für R7/R3 - zur Kombination mit Baldachin- 3-poliges Anschlusskabel - 2 Stahlseile - 1 Drahtseilhalter - max. 1,5m

ACC-HI01-5P-1500 Pendelsatz für R7/R3 - zur Kombination mit Baldachin - 5-poliges Anschlusskabel - 2 Stahlseile - 1 Drahtseilhalter - max. 1,5m

ACC-HI02-3P-1500 Pendelsatz für R7/R3 - minimalistisch : ohne Baldachin - 3-poliges Anschlusskabel - 2 Stahlseile - 2 Drahtseilhalter - max. 1,5m

ACC-HI02-5P-1500 Pendelsatz für R7/R3 - minimalistisch : ohne Baldachin - 5-poliges Anschlusskabel - 2 Stahlseile - 2 Drahtseilhalter - max. 1,5m

Vermaßte Skizze

