

US01I1/LEDN30D

luminária de encastrar • quadrada

aplicação : Escritório, Saúde, Ensino, Horeca, Retalho, Lazer

base: aço lacada com proteção fechada da lâmpada

fonte de luz : LED LP • 4000 K

óptica : Softlight • extensiva

classificação UGR : <=19

fluxo luminoso: 3050 lm

fluxo luminoso específico : 145 lm/W

LLMF: 97% @ 50khrs (Tq=25°C)



Medidas

dimensões : 595 mm x 595 mm x 120 mm

medida encastrável : 580 mm x 580 mm

módulo do tecto : M600

cor: RAL9210-branco

tipo : luminária individual

IP: IP20

Luminance

fluxo luminoso : 3050 lm

fluxo luminoso específico : 145 lm/W

luminância @ 65° : 3000 cd/m²

classificação UGR: <=19

área luminosa : 0.33 m²

Equipamento eléctrico

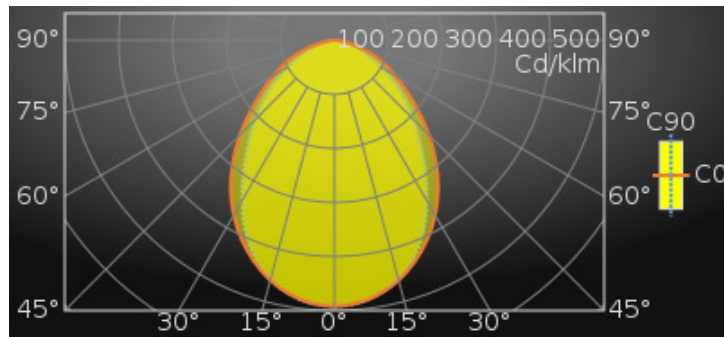
driver: DALI regulável

consumo de corrente : 21 W

tensão : 220-240V

frequência : 50-60Hz AC

segurança fotobiológica : EN 62471: RISK GROUP 0 UNLIMITED



Average Luminances (Cd/m²) for 3050lm

| Gamma | C0 | C30 | C45 | C60 | C90 |
|-------|------|------|------|------|------|
| 45° | 3224 | 3119 | 2948 | 2812 | 2710 |
| 50° | 2893 | 2760 | 2539 | 2419 | 2443 |
| 55° | 2608 | 2407 | 2129 | 2081 | 2167 |
| 60° | 2377 | 2103 | 1872 | 1902 | 1824 |
| 65° | 2204 | 1905 | 1784 | 1742 | 1545 |
| 70° | 1903 | 1747 | 1732 | 1550 | 1421 |
| 75° | 1524 | 1485 | 1561 | 1461 | 1380 |
| 80° | 978 | 1202 | 1258 | 1317 | 1212 |
| 85° | 464 | 530 | 590 | 811 | 755 |

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Classificações

CIE: 583 / 860 / 975 / 1000 / 1000

CIE FLUXCODE : 0.58 / 0.86 / 0.97 / 1.00 / 1.00

BZ: BZ3

CAE: Symmetrical

DIN: A50 (Nach Arbeitsblatt 7)

DIN_U: Phi u = 1.00

DIN_SU: Phi su = 0.62

UTE: 1.00 D + 0.00 T

Intensidades luminosas em cd

Lifetime Data (Tq=25.0°C)

| Time(khrs) | LLMF(%) | Cx(%) |
|------------|---------|-------|
| 10 | 100 | 2 |
| 20 | 99 | 4 |
| 30 | 99 | 6 |
| 40 | 98 | 8 |
| 50 | 98 | 10 |
| 60 | 97 | 12 |

Intensity for 3050lm

| Gamma | C0 | C45 | C90 |
|-------|--------|--------|--------|
| 0° | 1500.1 | 1500.1 | 1500.1 |
| 5° | 1488.7 | 1489.1 | 1489.8 |
| 10° | 1454.7 | 1459.5 | 1456.0 |
| 15° | 1402.5 | 1402.1 | 1395.9 |
| 20° | 1328.2 | 1320.1 | 1310.0 |
| 25° | 1240.3 | 1220.2 | 1189.9 |
| 30° | 1138.7 | 1101.2 | 1045.5 |
| 35° | 1023.2 | 969.2 | 894.7 |
| 40° | 890.4 | 834.4 | 754.7 |
| 45° | 753.8 | 689.3 | 633.5 |
| 50° | 614.8 | 539.6 | 519.2 |
| 55° | 494.5 | 403.8 | 410.9 |
| 60° | 392.9 | 309.5 | 301.6 |
| 65° | 308.0 | 249.2 | 215.9 |
| 70° | 215.2 | 195.9 | 160.7 |
| 75° | 130.4 | 133.6 | 118.1 |
| 80° | 56.1 | 72.2 | 69.6 |
| 85° | 13.4 | 17.0 | 21.7 |
| 90° | 0.2 | 0.2 | 0.2 |

classificação UGR

Corrected Glare Ratings for a Total Lamp Flux of 3050lm (S = 0.25H)

| Ceiling Walls Floor | Room Reflection Factors (%) | | | | | | | | | |
|--|-----------------------------|------|------|------|------|----------------|------|------|------|------|
| | 70 | 70 | 50 | 50 | 30 | 70 | 70 | 50 | 50 | 30 |
| | 50 | 30 | 50 | 30 | 30 | 50 | 30 | 50 | 30 | 30 |
| | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| Room Dimensions | Viewed Crosswise | | | | | Viewed Endwise | | | | |
| X = 2H Y = 2H | 15.5 | 17.2 | 15.8 | 17.5 | 17.7 | 14.2 | 15.9 | 14.6 | 16.2 | 16.5 |
| Y = 3H | 16.7 | 18.3 | 17.1 | 18.5 | 18.8 | 15.2 | 16.7 | 15.5 | 17.0 | 17.3 |
| Y = 4H | 17.1 | 18.5 | 17.5 | 18.8 | 19.2 | 15.6 | 17.0 | 15.9 | 17.3 | 17.6 |
| Y = 6H | 17.2 | 18.6 | 17.6 | 18.9 | 19.2 | 15.9 | 17.2 | 16.2 | 17.5 | 17.9 |
| Y = 8H | 17.3 | 18.5 | 17.6 | 18.9 | 19.2 | 16.0 | 17.3 | 16.3 | 17.6 | 17.9 |
| Y = 12H | 17.2 | 18.5 | 17.6 | 18.8 | 19.2 | 16.0 | 17.2 | 16.4 | 17.6 | 17.9 |
| X = 4H Y = 2H | 15.8 | 17.2 | 16.2 | 17.5 | 17.9 | 14.8 | 16.2 | 15.1 | 16.5 | 16.8 |
| Y = 3H | 17.2 | 18.4 | 17.6 | 18.8 | 19.1 | 15.9 | 17.1 | 16.3 | 17.5 | 17.8 |
| Y = 4H | 17.7 | 18.8 | 18.1 | 19.2 | 19.5 | 16.4 | 17.5 | 16.9 | 17.9 | 18.3 |
| Y = 6H | 18.0 | 18.9 | 18.4 | 19.3 | 19.7 | 16.9 | 17.9 | 17.3 | 18.3 | 18.7 |
| Y = 8H | 18.0 | 18.9 | 18.4 | 19.3 | 19.7 | 17.0 | 17.9 | 17.5 | 18.3 | 18.7 |
| Y = 12H | 18.0 | 18.8 | 18.5 | 19.2 | 19.7 | 17.1 | 17.9 | 17.5 | 18.3 | 18.8 |
| X = 8H Y = 4H | 17.9 | 18.8 | 18.3 | 19.2 | 19.6 | 16.7 | 17.6 | 17.2 | 18.0 | 18.5 |
| Y = 6H | 18.2 | 19.0 | 18.7 | 19.4 | 19.9 | 17.3 | 18.1 | 17.8 | 18.5 | 19.0 |
| Y = 8H | 18.3 | 19.0 | 18.8 | 19.4 | 19.9 | 17.5 | 18.2 | 18.0 | 18.6 | 19.1 |
| Y = 12H | 18.3 | 18.9 | 18.8 | 19.4 | 19.9 | 17.6 | 18.2 | 18.1 | 18.6 | 19.2 |
| X = 12H Y = 4H | 17.9 | 18.7 | 18.3 | 19.1 | 19.6 | 16.7 | 17.6 | 17.2 | 18.0 | 18.4 |
| Y = 6H | 18.3 | 18.9 | 18.7 | 19.4 | 19.9 | 17.3 | 18.0 | 17.8 | 18.5 | 18.9 |
| Y = 8H | 18.3 | 18.9 | 18.8 | 19.4 | 19.9 | 17.6 | 18.1 | 18.1 | 18.6 | 19.1 |
| UGR Variations with Observer Position for Luminaire Spacings S | | | | | | | | | | |
| S = 1.0H | +0.3 | | -0.3 | | +0.2 | | -0.3 | | | |
| S = 1.5H | +0.3 | | -0.7 | | +0.3 | | -0.6 | | | |
| S = 2.0H | +0.8 | | -1.0 | | +0.8 | | -1.1 | | | |

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Colour properties

Correlated Colour Temperature : 4000

Ra: 80

Eficiência

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 | 105 | 103 | 101 | 99 | 97 | 95 | 95 | 93 | 92 | 87 |
| 2 | 93 | 88 | 85 | 88 | 84 | 81 | 84 | 81 | 79 | 74 |
| 3 | 83 | 77 | 72 | 78 | 73 | 70 | 76 | 71 | 68 | 64 |
| 4 | 74 | 67 | 62 | 70 | 65 | 61 | 68 | 63 | 60 | 56 |
| 5 | 67 | 60 | 54 | 64 | 58 | 53 | 62 | 57 | 53 | 50 |
| 6 | 61 | 54 | 48 | 58 | 52 | 47 | 57 | 51 | 47 | 44 |
| 7 | 56 | 48 | 43 | 54 | 47 | 42 | 52 | 46 | 42 | 40 |
| 8 | 52 | 44 | 39 | 49 | 43 | 38 | 48 | 42 | 38 | 36 |
| 9 | 48 | 40 | 35 | 46 | 39 | 35 | 45 | 39 | 35 | 33 |
| 10 | 44 | 37 | 32 | 43 | 36 | 32 | 42 | 36 | 32 | 30 |

Utilisation Factors according to LiTG (%)

| | 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 | 50 | 30 | 50 | 30 | 50 | 30 | 30 | 0 |
| Floor | 30 | 30 | 10 | 10 | 30 | 30 | 10 | 10 | 10 | 0 |
| k = 0.60 | 54 | 46 | 51 | 44 | 52 | 45 | 50 | 44 | 43 | 37 |
| 0.80 | 65 | 56 | 61 | 54 | 62 | 55 | 59 | 53 | 53 | 46 |
| 1.00 | 74 | 65 | 68 | 62 | 70 | 63 | 66 | 60 | 60 | 54 |
| 1.25 | 83 | 75 | 76 | 70 | 78 | 72 | 74 | 69 | 68 | 62 |
| 1.50 | 90 | 81 | 81 | 76 | 84 | 78 | 79 | 74 | 73 | 67 |
| 2.00 | 98 | 90 | 87 | 82 | 91 | 85 | 84 | 80 | 79 | 74 |
| 2.50 | 104 | 97 | 92 | 87 | 96 | 91 | 89 | 85 | 84 | 79 |
| 3.00 | 108 | 103 | 95 | 91 | 100 | 96 | 92 | 89 | 88 | 83 |
| 4.00 | 113 | 108 | 98 | 95 | 103 | 100 | 95 | 92 | 91 | 86 |
| 5.00 | 117 | 112 | 100 | 98 | 106 | 103 | 97 | 95 | 93 | 89 |

Acessórios

US01H010/600 *Moldura de encastrar, para tecto de pladur, madeira, ...*

Esboço

