

E62/LED2N30D

surface-mounted luminaire • linear



application : Industry, Logistics

housing: polycarbonate

light source : LED LP • 4000 K

optics : Linear lens • wide-angle

UGR classification : <=28

luminous flux: 3050 lm

luminous efficacy : 105 lm/W

LLMF: 89% @ 50khrs (Tq=25°C)



Mechanical properties

dimensions : 880 mm x 56 mm x 80 mm

colour: RAL7037-dusty grey

type : individual luminaire

IP: IP66

ambient temperature: from -20°C to 35°C •

Luminance

luminous flux : 3050 lm

luminous efficacy : 105 lm/W

UGR classification: <=28

luminous area : 0.04 m²

Electrical properties

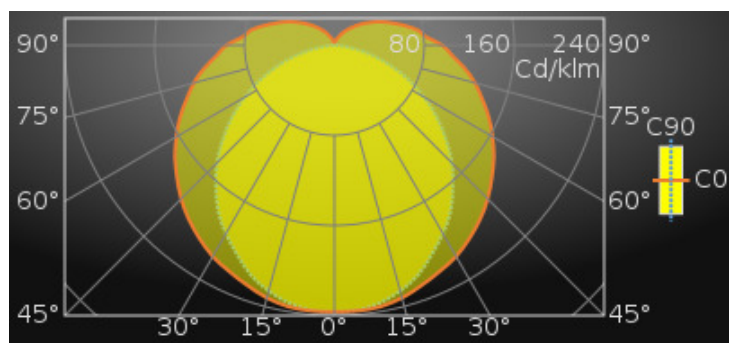
driver: DALI dimmable

power : 29 W

voltage : 220-240V

frequency : 50-60Hz AC

photobiological safety : EN 62471: RISK GROUP 1 UNLIMITED



Average Luminances (Cd/m²) for 3050lm

| Gamma | C0 | C30 | C45 | C60 | C90 |
|-------|-------|-------|-------|-------|-------|
| 45° | 12222 | 12098 | 12182 | 12407 | 14604 |
| 50° | 11941 | 11793 | 11782 | 11904 | 14077 |
| 55° | 11736 | 11505 | 11377 | 11372 | 13532 |
| 60° | 11535 | 11264 | 11005 | 10881 | 12906 |
| 65° | 11415 | 11065 | 10737 | 10429 | 12109 |
| 70° | 11286 | 10912 | 10481 | 9993 | 11043 |
| 75° | 11340 | 10835 | 10328 | 9622 | 9685 |
| 80° | 11362 | 10914 | 10311 | 9394 | 7653 |
| 85° | 11417 | 10982 | 10333 | 9259 | 4150 |

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Classifications

CIE: 326 / 570 / 741 / 852 / 1000

CIE FLUXCODE : 0.38 / 0.67 / 0.87 / 0.85 / 1.00

BZ: BZ10/1.25/BZ5/1.5/BZ10

CAE: CAE 1/5°/CAE 2/75°/CAE 3

DIN: B30 (Nach Arbeitsblatt 7 und 8)

DIN_U: Phi u = 0.85

DIN_SU: Phi su = 0.46

UTE: 0.85 H + 0.15 T

Luminous intensities in cd

Lifetime Data (Tq=25.0°C)

| Time(khrs) | LLMF(%) | Cx(%) |
|------------|---------|-------|
| 10 | 98 | 2 |
| 20 | 96 | 4 |
| 30 | 94 | 6 |
| 40 | 92 | 8 |
| 50 | 90 | 10 |
| 60 | 88 | 12 |

Intensity for 3050lm

| Gamma | C0 | C45 | C90 | Gamma | C0 | C45 | C90 |
|-------|-------|-------|-------|-------|-------|-------|------|
| 0° | 721.9 | 721.9 | 721.9 | 90° | 293.3 | 191.2 | 1.9 |
| 5° | 721.9 | 720.9 | 720.5 | 95° | 250.1 | 158.5 | 0.7 |
| 10° | 718.9 | 713.3 | 708.8 | 100° | 231.5 | 140.3 | 0.3 |
| 15° | 708.3 | 697.0 | 689.1 | 105° | 201.3 | 118.4 | 0.3 |
| 20° | 692.0 | 679.2 | 662.6 | 110° | 173.3 | 99.1 | 0.3 |
| 25° | 675.8 | 655.6 | 624.9 | 115° | 148.7 | 82.1 | 0.2 |
| 30° | 660.6 | 627.3 | 588.9 | 120° | 125.6 | 67.7 | 0.2 |
| 35° | 638.6 | 596.7 | 550.0 | 125° | 104.7 | 55.2 | 0.2 |
| 40° | 615.3 | 562.0 | 499.9 | 130° | 86.2 | 44.5 | 0.2 |
| 45° | 588.0 | 524.7 | 451.1 | 135° | 69.3 | 35.3 | 0.3 |
| 50° | 558.1 | 486.3 | 395.2 | 140° | 54.5 | 27.1 | 0.4 |
| 55° | 528.2 | 445.5 | 339.0 | 145° | 42.0 | 20.7 | 0.5 |
| 60° | 495.3 | 404.5 | 281.9 | 150° | 30.9 | 15.6 | 1.0 |
| 65° | 462.7 | 365.8 | 223.5 | 155° | 22.0 | 11.4 | 1.4 |
| 70° | 427.0 | 326.2 | 165.0 | 160° | 15.1 | 8.2 | 1.9 |
| 75° | 395.0 | 288.6 | 109.5 | 165° | 10.9 | 7.0 | 3.2 |
| 80° | 358.7 | 253.1 | 58.0 | 170° | 9.9 | 8.1 | 6.6 |
| 85° | 320.5 | 216.6 | 15.8 | 175° | 11.1 | 10.8 | 10.5 |
| 90° | 293.3 | 191.2 | 1.9 | 180° | 12.2 | 12.2 | 12.2 |

UGR classification

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

| Room Dimensions | Room Reflection Factors (%) | | | | | | | | | | | | | | |
|--|-----------------------------|-------|-------|------|------|----------------|------|------|------|------|----|----|----|----|----|
| | Ceiling | Walls | Floor | 70 | 70 | 50 | 50 | 30 | 70 | 70 | 50 | 50 | 30 | | |
| | 70 | 70 | 50 | 50 | 30 | 70 | 70 | 50 | 50 | 30 | 70 | 70 | 50 | 50 | 30 |
| | 50 | 30 | 50 | 30 | 30 | 50 | 30 | 50 | 30 | 30 | 50 | 30 | 50 | 30 | 30 |
| | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| Room Dimensions | Viewed Crosswise | | | | | Viewed Endwise | | | | | | | | | |
| X = 2H Y = 2H | 20.6 | 22.1 | 21.1 | 22.6 | 23.1 | 19.4 | 21.0 | 20.0 | 21.5 | 22.0 | | | | | |
| Y = 3H | 22.7 | 24.1 | 23.2 | 24.7 | 25.2 | 20.8 | 22.2 | 21.3 | 22.8 | 23.3 | | | | | |
| Y = 4H | 23.8 | 25.1 | 24.3 | 25.7 | 26.2 | 21.3 | 22.6 | 21.8 | 23.2 | 23.7 | | | | | |
| Y = 6H | 24.8 | 26.1 | 25.4 | 26.7 | 27.2 | 21.6 | 22.8 | 22.1 | 23.4 | 24.0 | | | | | |
| Y = 8H | 25.3 | 26.6 | 25.9 | 27.2 | 27.7 | 21.6 | 22.8 | 22.2 | 23.4 | 24.0 | | | | | |
| Y = 12H | 25.8 | 27.0 | 26.4 | 27.6 | 28.2 | 21.6 | 22.8 | 22.2 | 23.4 | 24.0 | | | | | |
| X = 4H Y = 2H | 21.1 | 22.5 | 21.7 | 23.0 | 23.6 | 20.3 | 21.6 | 20.8 | 22.2 | 22.7 | | | | | |
| Y = 3H | 23.5 | 24.7 | 24.1 | 25.3 | 25.9 | 21.9 | 23.1 | 22.5 | 23.7 | 24.2 | | | | | |
| Y = 4H | 24.8 | 25.8 | 25.4 | 26.4 | 27.0 | 22.5 | 23.6 | 23.2 | 24.2 | 24.8 | | | | | |
| Y = 6H | 26.0 | 27.0 | 26.6 | 27.6 | 28.2 | 23.0 | 24.0 | 23.6 | 24.6 | 25.2 | | | | | |
| Y = 8H | 26.6 | 27.5 | 27.3 | 28.2 | 28.8 | 23.1 | 24.0 | 23.8 | 24.7 | 25.3 | | | | | |
| Y = 12H | 27.2 | 28.0 | 27.9 | 28.7 | 29.3 | 23.1 | 24.0 | 23.8 | 24.7 | 25.3 | | | | | |
| X = 8H Y = 4H | 25.1 | 26.0 | 25.7 | 26.6 | 27.3 | 23.2 | 24.1 | 23.9 | 24.8 | 25.4 | | | | | |
| Y = 6H | 26.6 | 27.4 | 27.2 | 28.0 | 28.7 | 24.0 | 24.8 | 24.7 | 25.4 | 26.1 | | | | | |
| Y = 8H | 27.3 | 28.0 | 28.0 | 28.7 | 29.4 | 24.3 | 24.9 | 24.9 | 25.6 | 26.3 | | | | | |
| Y = 12H | 28.1 | 28.7 | 28.8 | 29.4 | 30.2 | 24.4 | 25.0 | 25.1 | 25.7 | 26.5 | | | | | |
| X = 12H Y = 4H | 25.1 | 25.9 | 25.7 | 26.6 | 27.2 | 23.4 | 24.2 | 24.0 | 24.9 | 25.5 | | | | | |
| Y = 6H | 26.7 | 27.4 | 27.4 | 28.1 | 28.7 | 24.3 | 25.0 | 25.0 | 25.7 | 26.3 | | | | | |
| Y = 8H | 27.5 | 28.1 | 28.2 | 28.8 | 29.5 | 24.7 | 25.3 | 25.4 | 26.0 | 26.7 | | | | | |
| UGR Variations with Observer Position for Luminaire Spacings S | | | | | | | | | | | | | | | |
| S = 1.0H | +0.1 | | -0.1 | | +0.1 | | -0.1 | | | | | | | | |
| S = 1.5H | +0.2 | | -0.2 | | +0.2 | | -0.2 | | | | | | | | |
| S = 2.0H | +0.2 | | -0.3 | | +0.3 | | -0.5 | | | | | | | | |

E62/LED2N30D

Colour properties

Correlated Colour Temperature : 4000

Ra: 80

Efficiency

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 | 95 | 91 | 88 | 84 | 82 | 79 | 78 | 76 | 74 | 65 |
| 2 | 81 | 75 | 71 | 72 | 67 | 64 | 66 | 62 | 60 | 52 |
| 3 | 71 | 63 | 58 | 62 | 57 | 52 | 58 | 53 | 49 | 43 |
| 4 | 62 | 54 | 48 | 55 | 49 | 44 | 51 | 46 | 41 | 36 |
| 5 | 55 | 47 | 41 | 49 | 43 | 38 | 46 | 40 | 36 | 31 |
| 6 | 50 | 41 | 35 | 44 | 38 | 33 | 41 | 35 | 31 | 27 |
| 7 | 45 | 37 | 31 | 40 | 33 | 29 | 38 | 32 | 27 | 23 |
| 8 | 41 | 33 | 27 | 37 | 30 | 25 | 34 | 28 | 24 | 21 |
| 9 | 38 | 30 | 24 | 34 | 27 | 23 | 32 | 26 | 22 | 19 |
| 10 | 35 | 27 | 22 | 31 | 25 | 20 | 29 | 24 | 20 | 17 |

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 | 41 | 32 | 39 | 31 | 37 | 30 | 36 | 29 | 28 | 20 |
| 0.80 | 52 | 42 | 48 | 40 | 46 | 38 | 44 | 37 | 35 | 27 |
| 1.00 | 60 | 49 | 55 | 47 | 53 | 45 | 50 | 43 | 41 | 32 |
| 1.25 | 68 | 58 | 63 | 55 | 61 | 53 | 57 | 51 | 48 | 39 |
| 1.50 | 75 | 65 | 68 | 60 | 66 | 58 | 62 | 56 | 53 | 44 |
| 2.00 | 84 | 74 | 75 | 68 | 73 | 66 | 68 | 62 | 59 | 50 |
| 2.50 | 90 | 82 | 80 | 73 | 79 | 72 | 73 | 68 | 64 | 55 |
| 3.00 | 96 | 88 | 84 | 78 | 83 | 77 | 76 | 72 | 68 | 59 |
| 4.00 | 101 | 94 | 88 | 83 | 88 | 83 | 80 | 76 | 72 | 63 |
| 5.00 | 106 | 100 | 91 | 87 | 91 | 87 | 83 | 80 | 76 | 67 |

Dimensional drawing

