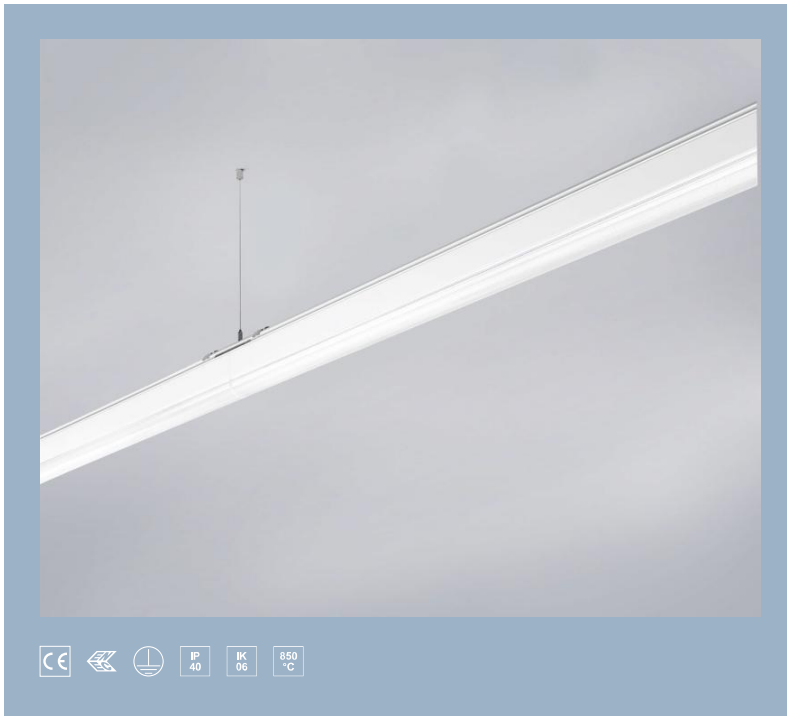


E4001/LED1W030S



industrial luminaire • linear

application : Industry, Logistics

housing: lacquered aluminium

light source : LED LP • 3000 K

optics : DUAL?LENS • polycarbonate (PC) • narrow-angle

UGR classification : <=22

luminous flux: 3050 lm

luminous efficacy : 117 lm/W

LLMF: 95% @ 50khrs (Tq=25°C)

Product information

Mechanical properties

colour: RAL9016 - traffic white (textured)

type : in-line mounting: intermediate luminaire

IP: IP40

Electrical properties

driver: not dimmable

power : 26 W

voltage : 220-240V

frequency : 50-60Hz AC

photobiological safety : EN 62471: RISK GROUP 1
UNLIMITED

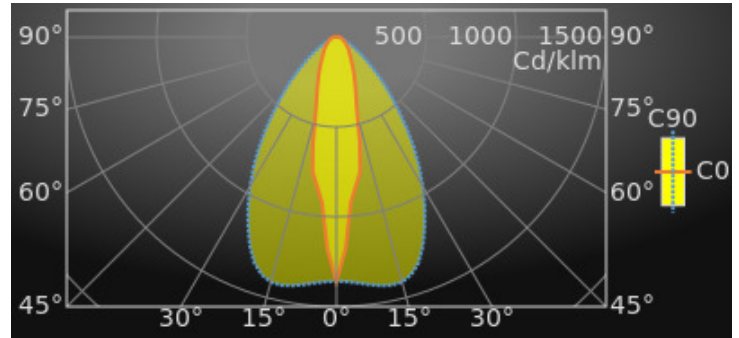
Luminance

luminous flux : 3050 lm

luminous efficacy : 117 lm/W

UGR classification ≤ 22

luminous area : 0.06 m²



Average Luminances (Cd/m²) for 3050lm

| Gamma | C0 | C30 | C45 | C60 | C90 |
|-------|------|------|------|------|-------|
| 45° | 4464 | 5108 | 6404 | 9565 | 27520 |
| 50° | 3833 | 4287 | 5193 | 7392 | 19959 |
| 55° | 3326 | 3650 | 4209 | 5660 | 14600 |
| 60° | 2921 | 3179 | 3395 | 4392 | 10678 |
| 65° | 2574 | 2792 | 2786 | 3549 | 8195 |
| 70° | 2316 | 2450 | 2343 | 2975 | 6799 |
| 75° | 2120 | 2154 | 2023 | 2494 | 6566 |
| 80° | 1980 | 1900 | 1723 | 2014 | 6219 |
| 85° | 1871 | 1659 | 1410 | 1593 | 5356 |

Classifications

CIE: 710 / 894 / 961 / 989 / 1000

CIE FLUXCODE : 0.72 / 0.90 / 0.97 / 0.99 / 1.00

BZ: BZ1/0.8/BZ2

CAE: CAE 1/15°/CAE 2/25°/CAE 4/75°/CAE 3

DIN: A60 (Nach Arbeitsblatt 7 und 8)

DIN_U: Phi u = 0.99

DIN_SU: Phi su = 0.72

UTE: 0.99 B + 0.01 T



Luminous intensities in cd

Lifetime Data (Tq=25.0°C)

| Time(khrs) | LLMF(%) | Cx(%) |
|------------|---------|-------|
| 10 | 99 | 2 |
| 20 | 98 | 4 |
| 30 | 98 | 6 |
| 40 | 97 | 8 |
| 50 | 96 | 10 |
| 60 | 95 | 12 |

Intensity for 3050lm

| Gamma | C0 | C45 | C90 | Gamma | C0 | C45 | C90 |
|-------|--------|--------|--------|-------|------|------|-----|
| 0° | 4142.6 | 4142.6 | 4142.6 | 90° | 54.1 | 25.0 | 1.2 |
| 5° | 2816.0 | 3321.3 | 4187.6 | 95° | 44.1 | 15.4 | 0.0 |
| 10° | 2315.4 | 2480.9 | 4282.0 | 100° | 34.2 | 7.7 | 0.0 |
| 15° | 1361.8 | 2065.2 | 4304.3 | 105° | 24.5 | 2.7 | 0.0 |
| 20° | 953.4 | 1400.9 | 4073.4 | 110° | 15.5 | 0.6 | 0.0 |
| 25° | 716.1 | 1031.3 | 3545.8 | 115° | 8.0 | 0.1 | 0.0 |
| 30° | 534.6 | 793.0 | 2929.2 | 120° | 2.6 | 0.0 | 0.0 |
| 35° | 419.3 | 615.7 | 2287.2 | 125° | 0.5 | 0.0 | 0.0 |
| 40° | 343.1 | 475.7 | 1662.3 | 130° | 0.1 | 0.0 | 0.0 |
| 45° | 284.1 | 367.8 | 1167.6 | 135° | 0.0 | 0.0 | 0.0 |
| 50° | 235.9 | 284.7 | 769.8 | 140° | 0.0 | 0.0 | 0.0 |
| 55° | 196.2 | 218.0 | 502.5 | 145° | 0.0 | 0.0 | 0.0 |
| 60° | 163.5 | 164.2 | 320.3 | 150° | 0.0 | 0.0 | 0.0 |
| 65° | 135.3 | 124.2 | 207.8 | 155° | 0.0 | 0.0 | 0.0 |
| 70° | 112.8 | 94.8 | 139.5 | 160° | 0.0 | 0.0 | 0.0 |
| 75° | 94.3 | 72.9 | 102.0 | 165° | 0.0 | 0.0 | 0.0 |
| 80° | 79.1 | 54.0 | 64.8 | 170° | 0.0 | 0.0 | 0.0 |
| 85° | 65.7 | 37.2 | 28.0 | 175° | 0.0 | 0.0 | 0.0 |
| 90° | 54.1 | 25.0 | 1.2 | 180° | 0.0 | 0.0 | 0.0 |

UGR classification

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 | 14.0 | 15.4 | 14.3 | 15.7 | 15.9 | 19.8 | 21.2 | 20.1 | 21.5 | 21.8 |
| Y = 3H | 15.1 | 16.4 | 15.4 | 16.7 | 17.0 | 20.3 | 21.6 | 20.7 | 21.9 | 22.2 |
| Y = 4H | 15.6 | 16.9 | 16.0 | 17.2 | 17.5 | 20.6 | 21.8 | 21.0 | 22.1 | 22.5 |
| Y = 6H | 16.2 | 17.3 | 16.5 | 17.6 | 18.0 | 20.9 | 22.0 | 21.2 | 22.3 | 22.7 |
| Y = 8H | 16.4 | 17.5 | 16.8 | 17.9 | 18.2 | 20.9 | 22.0 | 21.3 | 22.4 | 22.7 |
| Y = 12H | 16.7 | 17.7 | 17.1 | 18.1 | 18.4 | 21.0 | 22.0 | 21.4 | 22.4 | 22.8 |
| X = 4H Y = 2H | 14.5 | 15.7 | 14.9 | 16.0 | 16.3 | 19.7 | 20.9 | 20.0 | 21.2 | 21.5 |
| Y = 3H | 15.8 | 16.9 | 16.2 | 17.2 | 17.6 | 20.3 | 21.4 | 20.7 | 21.7 | 22.1 |
| Y = 4H | 16.5 | 17.4 | 16.9 | 17.8 | 18.2 | 20.7 | 21.6 | 21.1 | 22.0 | 22.4 |
| Y = 6H | 17.2 | 18.0 | 17.7 | 18.4 | 18.9 | 21.1 | 21.9 | 21.5 | 22.3 | 22.7 |
| Y = 8H | 17.6 | 18.3 | 18.0 | 18.7 | 19.2 | 21.2 | 22.0 | 21.7 | 22.4 | 22.8 |
| Y = 12H | 17.9 | 18.6 | 18.4 | 19.0 | 19.5 | 21.3 | 22.0 | 21.8 | 22.4 | 22.9 |
| X = 8H Y = 4H | 16.7 | 17.5 | 17.2 | 17.9 | 18.3 | 20.7 | 21.4 | 21.1 | 21.9 | 22.3 |
| Y = 6H | 17.6 | 18.2 | 18.1 | 18.7 | 19.2 | 21.1 | 21.7 | 21.6 | 22.2 | 22.7 |
| Y = 8H | 18.1 | 18.6 | 18.6 | 19.1 | 19.6 | 21.3 | 21.9 | 21.8 | 22.3 | 22.8 |
| Y = 12H | 18.6 | 19.0 | 19.1 | 19.5 | 20.1 | 21.4 | 21.9 | 21.9 | 22.4 | 23.0 |
| X = 12H Y = 4H | 16.7 | 17.4 | 17.2 | 17.9 | 18.3 | 20.7 | 21.4 | 21.1 | 21.8 | 22.3 |
| Y = 6H | 17.7 | 18.2 | 18.1 | 18.7 | 19.2 | 21.1 | 21.7 | 21.6 | 22.1 | 22.6 |
| Y = 8H | 18.2 | 18.7 | 18.7 | 19.2 | 19.7 | 21.3 | 21.8 | 21.8 | 22.3 | 22.8 |
| UGR Variations with Observer Position for Luminaire Spacings S | | | | | | | | | | |
| S = 1.0H | +0.3 | | -0.3 | | +1.0 | | -0.9 | | | |
| S = 1.5H | +0.4 | | -0.6 | | +2.6 | | -1.7 | | | |
| S = 2.0H | +0.4 | | -0.9 | | +4.0 | | -2.4 | | | |



Colour properties

Correlated Colour Temperature : 3000

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 | 107 | 105 | 103 | 100 | 98 | 97 | 96 | 95 | 94 | 88 |
| 2 | 97 | 93 | 90 | 91 | 88 | 86 | 88 | 85 | 83 | 78 |
| 3 | 88 | 83 | 79 | 83 | 79 | 76 | 81 | 77 | 75 | 71 |
| 4 | 81 | 75 | 71 | 77 | 72 | 69 | 75 | 70 | 67 | 64 |
| 5 | 75 | 68 | 64 | 71 | 66 | 62 | 69 | 65 | 61 | 58 |
| 6 | 69 | 63 | 58 | 66 | 61 | 57 | 65 | 60 | 56 | 54 |
| 7 | 64 | 58 | 53 | 62 | 56 | 52 | 61 | 56 | 52 | 50 |
| 8 | 60 | 54 | 49 | 58 | 52 | 49 | 57 | 52 | 48 | 46 |
| 9 | 57 | 50 | 46 | 55 | 49 | 45 | 54 | 49 | 45 | 43 |
| 10 | 53 | 47 | 43 | 52 | 46 | 42 | 51 | 46 | 42 | 40 |

Utilisation Factors according to LiTG (%)

| | Room Reflection Factors (%) | | | | | | | | | |
|----------|-----------------------------|-----|-----|----|-----|-----|----|----|----|----|
| | 80 | 80 | 80 | 50 | 50 | 50 | 50 | 50 | 30 | 0 |
| Ceiling | 80 | 80 | 80 | 50 | 50 | 50 | 50 | 50 | 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 | 65 | 58 | 62 | 56 | 63 | 57 | 61 | 56 | 55 | 50 |
| 0.80 | 75 | 67 | 70 | 64 | 72 | 65 | 68 | 63 | 63 | 58 |
| 1.00 | 82 | 75 | 76 | 71 | 78 | 72 | 74 | 70 | 69 | 64 |
| 1.25 | 91 | 83 | 83 | 78 | 86 | 80 | 81 | 77 | 76 | 71 |
| 1.50 | 96 | 89 | 87 | 82 | 90 | 85 | 84 | 81 | 79 | 75 |
| 2.00 | 103 | 96 | 92 | 88 | 95 | 91 | 89 | 86 | 84 | 80 |
| 2.50 | 107 | 102 | 95 | 91 | 99 | 95 | 92 | 89 | 88 | 83 |
| 3.00 | 111 | 106 | 97 | 95 | 103 | 99 | 94 | 92 | 91 | 86 |
| 4.00 | 115 | 110 | 99 | 97 | 105 | 102 | 96 | 94 | 93 | 88 |
| 5.00 | 118 | 114 | 101 | 99 | 107 | 105 | 98 | 96 | 94 | 90 |

Available accessories

E7H301 Connector (1 per line), 5 or 7 pole, per piece

E4H1000 Line end piece, per piece

E4H111 Single mounting bracket for ceiling mounting

E4H112 Double mounting bracket for ceiling mounting

E4H121 Single mounting bracket for threaded rod

E4H122 Double mounting bracket for threaded rod

E4H131 Single mounting bracket for chain

E4H141 Single mounting bracket for steel wire

E4H142 Double mounting bracket for steel wire

E4H132 Double mounting bracket for chain





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