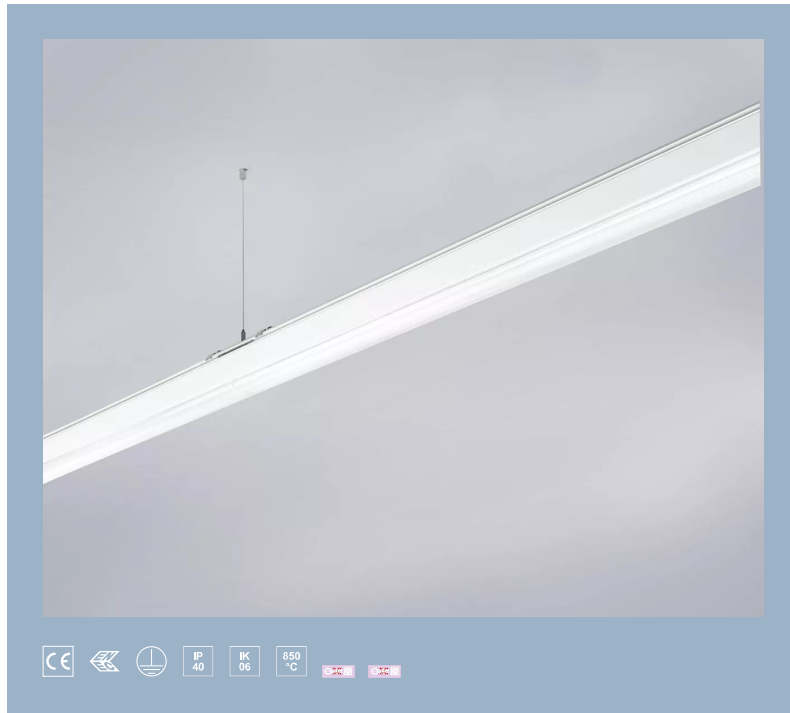


# E4001/LED2N060S



industriële armatuur • langwerpig

Toepassing : Productievestigingen

behuizing: gelakt aluminium

lichtbron : led • 4000 K

optiek : DUAL?LENS • Polycarbonaat (PC) •  
diepstralend

UGR classificatie : <=22

lichtstroom: 6200 lm

efficiëntie : 127 lm/W

LLMF: 96% @ 50khrs (Tq=25°C)

## Product information

### Mechanische eigenschappen

afmetingen : 2000 mm x 60 mm x 135 mm

kleur: RAL9016 - verkeerswit (structuurlak)

type : lijnmontage: tussenarmatuur

IP: IP40

IK: IK06

### Elektrische uitrusting

driver: niet-dimbaar

opgenomen vermogen : 49 W

spanning : 220-240V

frequentie : 50-60Hz AC

fotobiologische veiligheid : EN 62471: RISK GROUP 1  
UNLIMITED

## Luminantie

lichtstroom : 6200 lm

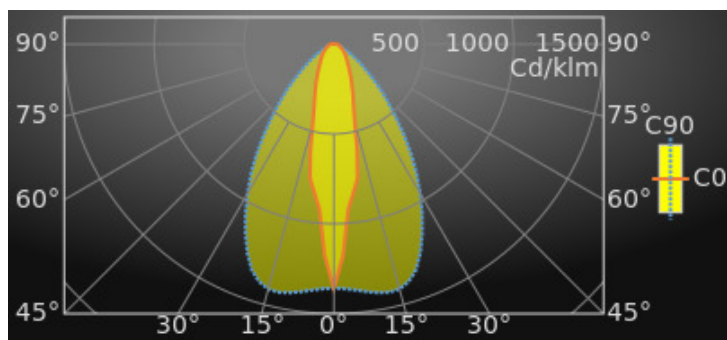
efficiëntie : 127 lm/W

UGR classificatie =: <=22

lichtgevende oppervlakte : 0.12 m²

Average Luminances (Cd/m²) for 6200lm

| Gamma | C0   | C30  | C45  | C60  | C90   |
|-------|------|------|------|------|-------|
| 45°   | 4537 | 5191 | 6509 | 9721 | 27971 |
| 50°   | 3896 | 4357 | 5278 | 7513 | 20286 |
| 55°   | 3380 | 3710 | 4278 | 5753 | 14840 |
| 60°   | 2969 | 3231 | 3451 | 4464 | 10853 |
| 65°   | 2616 | 2838 | 2832 | 3607 | 8329  |
| 70°   | 2354 | 2490 | 2382 | 3024 | 6910  |
| 75°   | 2155 | 2189 | 2056 | 2535 | 6674  |
| 80°   | 2012 | 1931 | 1751 | 2047 | 6321  |
| 85°   | 1902 | 1687 | 1433 | 1619 | 5444  |



## Classificaties

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

Lifetime Data (Tq=25.0°C)

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

## Lichtsterkten in cd

Intensity for 6200lm

| Gamma | C0     | C45    | C90    | Gamma | C0    | C45  | C90 |
|-------|--------|--------|--------|-------|-------|------|-----|
| 0°    | 8421.0 | 8421.0 | 8421.0 | 90°   | 109.9 | 50.9 | 2.4 |
| 5°    | 5724.4 | 6751.4 | 8512.6 | 95°   | 89.7  | 31.4 | 0.0 |
| 10°   | 4706.7 | 5043.1 | 8704.4 | 100°  | 69.5  | 15.7 | 0.0 |
| 15°   | 2768.3 | 4198.2 | 8749.8 | 105°  | 49.9  | 5.5  | 0.0 |
| 20°   | 1938.1 | 2847.6 | 8280.4 | 110°  | 31.5  | 1.3  | 0.0 |
| 25°   | 1455.6 | 2096.3 | 7207.8 | 115°  | 16.3  | 0.3  | 0.0 |
| 30°   | 1086.7 | 1612.0 | 5954.5 | 120°  | 5.3   | 0.0  | 0.0 |
| 35°   | 852.4  | 1251.5 | 4649.5 | 125°  | 1.1   | 0.0  | 0.0 |
| 40°   | 697.4  | 967.0  | 3379.1 | 130°  | 0.3   | 0.0  | 0.0 |
| 45°   | 577.5  | 747.6  | 2373.4 | 135°  | 0.0   | 0.0  | 0.0 |
| 50°   | 479.6  | 578.7  | 1564.8 | 140°  | 0.0   | 0.0  | 0.0 |
| 55°   | 398.8  | 443.1  | 1021.4 | 145°  | 0.0   | 0.0  | 0.0 |
| 60°   | 332.4  | 333.9  | 651.2  | 150°  | 0.0   | 0.0  | 0.0 |
| 65°   | 275.0  | 252.5  | 422.4  | 155°  | 0.0   | 0.0  | 0.0 |
| 70°   | 229.3  | 192.7  | 283.6  | 160°  | 0.0   | 0.0  | 0.0 |
| 75°   | 191.8  | 148.1  | 207.3  | 165°  | 0.0   | 0.0  | 0.0 |
| 80°   | 160.8  | 109.7  | 131.7  | 170°  | 0.0   | 0.0  | 0.0 |
| 85°   | 133.5  | 75.6   | 56.9   | 175°  | 0.0   | 0.0  | 0.0 |
| 90°   | 109.9  | 50.9   | 2.4    | 180°  | 0.0   | 0.0  | 0.0 |

## UGR classificatie =

Corrected Glare Ratings for a Total Lamp Flux of 6200lm (S = 0.25H)

|                                                                | Room Reflection Factors (%) |       |       |      |      |                |      |      |      |      |
|----------------------------------------------------------------|-----------------------------|-------|-------|------|------|----------------|------|------|------|------|
|                                                                | Ceiling                     | Walls | Floor | 70   | 70   | 50             | 50   | 30   | 30   | 30   |
|                                                                | 70                          | 50    | 20    | 70   | 30   | 50             | 30   | 50   | 30   | 20   |
| Room Dimensions                                                | Viewed Crosswise            |       |       |      |      | Viewed Endwise |      |      |      |      |
| X = 2H Y = 2H                                                  | 14.0                        | 15.5  | 14.3  | 15.7 | 16.0 | 19.9           | 21.3 | 20.2 | 21.6 | 21.8 |
| Y = 3H                                                         | 15.1                        | 16.4  | 15.5  | 16.7 | 17.0 | 20.4           | 21.7 | 20.7 | 22.0 | 22.3 |
| Y = 4H                                                         | 15.7                        | 16.9  | 16.0  | 17.2 | 17.5 | 20.7           | 21.9 | 21.0 | 22.2 | 22.5 |
| Y = 6H                                                         | 16.2                        | 17.4  | 16.6  | 17.7 | 18.0 | 20.9           | 22.1 | 21.3 | 22.4 | 22.7 |
| Y = 8H                                                         | 16.5                        | 17.6  | 16.9  | 17.9 | 18.3 | 21.0           | 22.1 | 21.4 | 22.4 | 22.8 |
| Y = 12H                                                        | 16.7                        | 17.8  | 17.1  | 18.1 | 18.5 | 21.1           | 22.1 | 21.4 | 22.4 | 22.8 |
| X = 4H Y = 2H                                                  | 14.5                        | 15.8  | 14.9  | 16.1 | 16.4 | 19.7           | 21.0 | 20.1 | 21.3 | 21.6 |
| Y = 3H                                                         | 15.9                        | 16.9  | 16.3  | 17.3 | 17.6 | 20.4           | 21.4 | 20.8 | 21.8 | 22.1 |
| Y = 4H                                                         | 16.6                        | 17.5  | 17.0  | 17.9 | 18.3 | 20.8           | 21.7 | 21.2 | 22.1 | 22.4 |
| Y = 6H                                                         | 17.3                        | 18.1  | 17.7  | 18.5 | 18.9 | 21.1           | 21.9 | 21.6 | 22.3 | 22.8 |
| Y = 8H                                                         | 17.6                        | 18.4  | 18.1  | 18.8 | 19.2 | 21.3           | 22.0 | 21.7 | 22.4 | 22.9 |
| Y = 12H                                                        | 18.0                        | 18.7  | 18.4  | 19.1 | 19.6 | 21.3           | 22.0 | 21.8 | 22.5 | 22.9 |
| X = 8H Y = 4H                                                  | 16.8                        | 17.6  | 17.2  | 18.0 | 18.4 | 20.7           | 21.5 | 21.2 | 21.9 | 22.4 |
| Y = 6H                                                         | 17.7                        | 18.3  | 18.1  | 18.8 | 19.2 | 21.2           | 21.8 | 21.6 | 22.3 | 22.7 |
| Y = 8H                                                         | 18.1                        | 18.7  | 18.6  | 19.2 | 19.7 | 21.3           | 21.9 | 21.8 | 22.4 | 22.9 |
| Y = 12H                                                        | 18.6                        | 19.1  | 19.1  | 19.6 | 20.1 | 21.5           | 22.0 | 22.0 | 22.5 | 23.0 |
| X = 12H Y = 4H                                                 | 16.8                        | 17.5  | 17.3  | 17.9 | 18.4 | 20.7           | 21.4 | 21.2 | 21.9 | 22.3 |
| Y = 6H                                                         | 17.7                        | 18.3  | 18.2  | 18.7 | 19.2 | 21.2           | 21.7 | 21.6 | 22.2 | 22.7 |
| Y = 8H                                                         | 18.2                        | 18.7  | 18.7  | 19.2 | 19.7 | 21.4           | 21.9 | 21.9 | 22.3 | 22.9 |
| 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 |      |      |      |

## Kleureigenschappen

Correlated Colour Temperature : 4000

Ra: CRI (Ra) 80

## Rendement

| Utilisation Factors according to IES (%) |                             |     |     |     |    |    |    |    |    |    |
|------------------------------------------|-----------------------------|-----|-----|-----|----|----|----|----|----|----|
|                                          | Room Reflection Factors (%) |     |     |     |    |    |    |    |    |    |
| 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 (%) |     |     |    |     |     |    |    |    |    |
| 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 |

## Accessoires

E7H301 Aansluitstekker, 5- of 7-polig, per stuk

E4H1000 Lijneindstuk, per stuk

E4H111 Enkelvoudige ophangbeugel voor plafondmontage

E4H112 Dubbele ophangbeugel voor plafondmontage

E4H121 Enkelvoudige ophangbeugel voor draadstang

E4H122 Dubbele ophangbeugel voor draadstang

E4H131 Enkelvoudige ophangbeugel voor ketting

E4H141 Enkele ophangbeugel voor staaldraad

E4H142 Dubbele ophangbeugel voor staaldraad

E4H132 Dubbelvoudige ophangbeugel voor ketting

E4H103 Uitlijnbeugel

