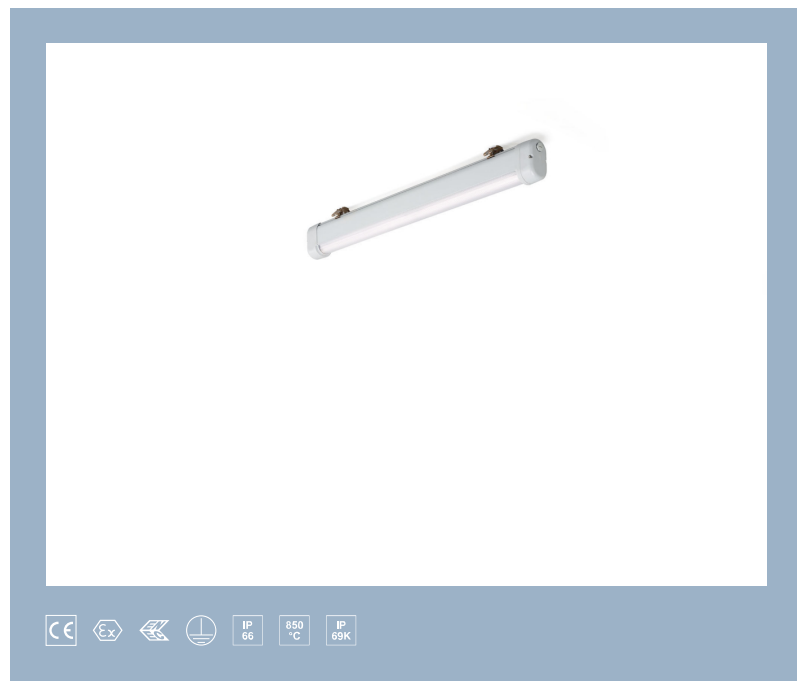


# E21/LED4N060S-ATEX1



opbouwarmatuur • langwerpig

toepassing : ATEX-omgevingen

behuizing: gelakt aluminium

lichtbron : low power led • 4000 K

optiek : lineaire lens • Polycarbonaat (PC) •  
middelbreedstralend

UGR classificatie : <=28

lichtstroom: 6650 lm

efficiëntie : 130 lm/W

LLMF: 96% @ 50khrs (Tq=25°C)

## Product information

### Mechanische eigenschappen

afmetingen : 1120 mm x 80 mm x 135 mm

kleur: RAL7035 - lichtgrijs

type : individueel armatuur

IP: IP66, IP69K

omgevingstemperatuur: van -20°C tot 40°C •

ATEX : II 2D Ex tb IIIC T80°C Db,II 3G Ex ec nA IIC T4  
Gc

### Elektrische uitrusting

driver: niet-dimbaar

opgenomen vermogen : 51 W

spanning : 220-240V

frequentie : 50-60Hz AC

fotobiologische veiligheid : EN 62471: RISK GROUP 1  
UNLIMITED

## Luminantie

lichtstroom : 6650 lm

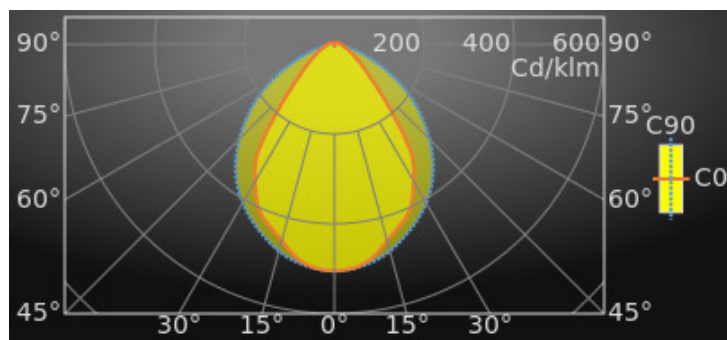
efficiëntie : 130 lm/W

UGR classificatie <=28

lichtgevende oppervlakte : 0.07 m<sup>2</sup>

Average Luminances (Cd/m<sup>2</sup>) for 6650lm

| Gamma | C0    | C30   | C45   | C60   | C90   |
|-------|-------|-------|-------|-------|-------|
| 45°   | 12857 | 17571 | 25184 | 31945 | 42717 |
| 50°   | 9268  | 12118 | 18073 | 27652 | 39861 |
| 55°   | 7133  | 8924  | 12800 | 21935 | 36663 |
| 60°   | 5603  | 7005  | 9454  | 16536 | 32259 |
| 65°   | 4704  | 5608  | 7362  | 12149 | 26645 |
| 70°   | 3885  | 4812  | 6078  | 9060  | 20769 |
| 75°   | 3403  | 4196  | 5106  | 6927  | 15522 |
| 80°   | 3185  | 3679  | 4498  | 5501  | 10869 |
| 85°   | 3049  | 3399  | 4018  | 4491  | 5274  |



## Classificaties

CIE: 607 / 867 / 954 / 983 / 1002

CIE FLUXCODE : 0.62 / 0.88 / 0.97 / 0.98 / 1.00

BZ: BZ2/1/BZ3/1.25/BZ2/1.5/BZ3

CAE: CAE 3/5°/CAE 2/55°/CAE 3

DIN: A50 (Nach Arbeitsblatt 7 und 8)

DIN\_U: Phi u = 0.98

DIN\_SU: Phi su = 0.64

UTE: 0.98 C + 0.02 T

Lifetime Data (Tq=25.0°C)

| Time(khrs) | LLMF(%) | Cx(%) |
|------------|---------|-------|
| 10         | 99      | 1     |
| 20         | 98      | 2     |
| 30         | 98      | 3     |
| 40         | 97      | 4     |
| 50         | 96      | 5     |
| 60         | 96      | 6     |

## Lichtsterkten in cd

Intensity for 6650lm

| Gamma | C0     | C45    | C90    | Gamma | C0   | C45  | C90 |
|-------|--------|--------|--------|-------|------|------|-----|
| 0°    | 3357.9 | 3357.9 | 3357.9 | 90°   | 93.7 | 82.6 | 1.5 |
| 5°    | 3325.9 | 3317.0 | 3331.9 | 95°   | 79.1 | 60.6 | 0.1 |
| 10°   | 3217.3 | 3270.4 | 3272.2 | 100°  | 73.2 | 46.9 | 0.0 |
| 15°   | 3007.7 | 3116.0 | 3174.0 | 105°  | 64.0 | 35.4 | 0.1 |
| 20°   | 2848.5 | 2909.6 | 3031.5 | 110°  | 50.8 | 26.7 | 0.0 |
| 25°   | 2674.3 | 2758.0 | 2884.3 | 115°  | 39.5 | 20.2 | 0.0 |
| 30°   | 2343.5 | 2603.7 | 2714.8 | 120°  | 30.0 | 14.4 | 0.0 |
| 35°   | 2002.5 | 2265.9 | 2511.9 | 125°  | 21.4 | 9.5  | 0.0 |
| 40°   | 1340.6 | 1982.6 | 2267.2 | 130°  | 14.8 | 5.2  | 0.0 |
| 45°   | 866.8  | 1544.2 | 1989.4 | 135°  | 9.7  | 0.3  | 0.0 |
| 50°   | 601.7  | 1053.8 | 1687.5 | 140°  | 5.0  | 0.0  | 0.0 |
| 55°   | 441.8  | 702.2  | 1385.0 | 145°  | 0.1  | 0.0  | 0.1 |
| 60°   | 327.6  | 482.1  | 1062.3 | 150°  | 0.0  | 0.0  | 0.1 |
| 65°   | 256.7  | 344.1  | 741.6  | 155°  | 0.0  | 0.0  | 0.1 |
| 70°   | 195.2  | 256.0  | 467.8  | 160°  | 0.0  | 0.0  | 0.2 |
| 75°   | 155.0  | 189.9  | 264.6  | 165°  | 0.1  | 0.0  | 0.1 |
| 80°   | 128.9  | 143.8  | 124.3  | 170°  | 0.7  | 0.5  | 0.3 |
| 85°   | 107.1  | 106.5  | 30.3   | 175°  | 1.7  | 1.5  | 1.3 |
| 90°   | 93.7   | 82.6   | 1.5    | 180°  | 1.6  | 1.6  | 1.6 |

## UGR classificatie

Corrected Glare Ratings for a Total Lamp Flux of 6650lm (S = 0.25H)

| Ceiling<br>Walls<br>Floor | Room Reflection Factors (%) |    |    |    |    |                                                                |    |    |    |    |
|---------------------------|-----------------------------|----|----|----|----|----------------------------------------------------------------|----|----|----|----|
|                           | 70                          | 70 | 50 | 50 | 30 | 70                                                             | 70 | 50 | 50 | 30 |
|                           | 50                          | 30 | 50 | 30 | 30 | 50                                                             | 30 | 50 | 30 | 30 |
| Room<br>Dimensions        | Viewed Crosswise            |    |    |    |    | Viewed Endwise                                                 |    |    |    |    |
|                           | X = 2H Y = 2H               |    |    |    |    | Y = 3H                                                         |    |    |    |    |
|                           | Y = 4H                      |    |    |    |    | Y = 6H                                                         |    |    |    |    |
| X = 2H Y = 2H             | Y = 8H                      |    |    |    |    | Y = 12H                                                        |    |    |    |    |
|                           | X = 4H Y = 2H               |    |    |    |    | Y = 3H                                                         |    |    |    |    |
|                           | Y = 4H                      |    |    |    |    | Y = 6H                                                         |    |    |    |    |
| X = 4H Y = 2H             | Y = 8H                      |    |    |    |    | Y = 12H                                                        |    |    |    |    |
|                           | X = 8H Y = 4H               |    |    |    |    | Y = 6H                                                         |    |    |    |    |
|                           | Y = 8H                      |    |    |    |    | Y = 12H                                                        |    |    |    |    |
| X = 8H Y = 4H             | Y = 12H                     |    |    |    |    | X = 12H Y = 4H                                                 |    |    |    |    |
|                           | Y = 6H                      |    |    |    |    | Y = 8H                                                         |    |    |    |    |
|                           | Y = 12H                     |    |    |    |    | UGR Variations with Observer Position for Luminaire Spacings S |    |    |    |    |
| X = 12H Y = 4H            | S = 1.0H                    |    |    |    |    | S = 1.5H                                                       |    |    |    |    |
|                           | S = 2.0H                    |    |    |    |    |                                                                |    |    |    |    |
|                           |                             |    |    |    |    |                                                                |    |    |    |    |

Kleureigenschappen

Correlated Colour Temperature : 4000

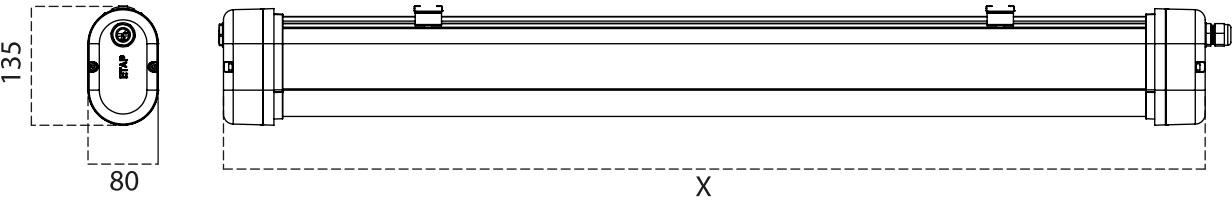
Ra: 80

Rendement

| Utilisation Factors according to IES (%) |                             |     |     |    |    |    |    |    |    |    |  |
|------------------------------------------|-----------------------------|-----|-----|----|----|----|----|----|----|----|--|
| Ceiling<br>Walls<br>Floor                | Room Reflection Factors (%) |     |     |    |    |    |    |    |    |    |  |
|                                          | 80                          | 80  | 80  | 50 | 50 | 50 | 30 | 30 | 30 | 0  |  |
|                                          | 50                          | 30  | 10  | 50 | 30 | 10 | 50 | 30 | 10 | 0  |  |
|                                          | 20                          | 20  | 20  | 20 | 20 | 20 | 20 | 20 | 20 | 0  |  |
| RCR = 1                                  | 105                         | 103 | 101 | 98 | 96 | 95 | 94 | 93 | 91 | 86 |  |
| 2                                        | 94                          | 89  | 86  | 88 | 84 | 82 | 84 | 81 | 79 | 74 |  |
| 3                                        | 84                          | 78  | 73  | 79 | 74 | 71 | 76 | 72 | 69 | 65 |  |
| 4                                        | 75                          | 69  | 64  | 71 | 66 | 62 | 69 | 64 | 61 | 57 |  |
| 5                                        | 68                          | 61  | 56  | 65 | 59 | 55 | 63 | 58 | 54 | 51 |  |
| 6                                        | 62                          | 55  | 50  | 59 | 53 | 49 | 58 | 52 | 48 | 45 |  |
| 7                                        | 57                          | 50  | 45  | 55 | 48 | 44 | 53 | 47 | 43 | 41 |  |
| 8                                        | 53                          | 45  | 40  | 50 | 44 | 40 | 49 | 43 | 39 | 37 |  |
| 9                                        | 49                          | 41  | 37  | 47 | 40 | 36 | 46 | 40 | 36 | 34 |  |
| 10                                       | 45                          | 38  | 33  | 44 | 37 | 33 | 42 | 37 | 33 | 31 |  |

| Utilisation Factors according to LiTG (%) |                             |     |     |    |     |     |    |    |    |    |  |
|-------------------------------------------|-----------------------------|-----|-----|----|-----|-----|----|----|----|----|--|
| Ceiling<br>Walls<br>Floor                 | Room Reflection Factors (%) |     |     |    |     |     |    |    |    |    |  |
|                                           | 80                          | 80  | 80  | 50 | 50  | 50  | 50 | 50 | 30 | 0  |  |
|                                           | 50                          | 30  | 50  | 30 | 50  | 30  | 50 | 30 | 30 | 0  |  |
|                                           | 30                          | 30  | 10  | 10 | 30  | 30  | 10 | 10 | 10 | 0  |  |
| k = 0.60                                  | 55                          | 47  | 52  | 46 | 53  | 46  | 51 | 45 | 44 | 38 |  |
| 0.80                                      | 67                          | 58  | 62  | 56 | 63  | 56  | 60 | 55 | 54 | 48 |  |
| 1.00                                      | 75                          | 66  | 70  | 63 | 71  | 64  | 67 | 62 | 61 | 55 |  |
| 1.25                                      | 85                          | 76  | 77  | 72 | 79  | 73  | 75 | 70 | 69 | 63 |  |
| 1.50                                      | 91                          | 83  | 82  | 77 | 85  | 79  | 79 | 75 | 74 | 68 |  |
| 2.00                                      | 98                          | 91  | 88  | 83 | 91  | 86  | 85 | 81 | 79 | 74 |  |
| 2.50                                      | 104                         | 98  | 92  | 88 | 96  | 91  | 89 | 85 | 84 | 79 |  |
| 3.00                                      | 109                         | 103 | 95  | 92 | 100 | 96  | 92 | 89 | 87 | 83 |  |
| 4.00                                      | 113                         | 108 | 98  | 95 | 103 | 99  | 94 | 92 | 90 | 85 |  |
| 5.00                                      | 117                         | 112 | 100 | 98 | 106 | 103 | 96 | 94 | 92 | 88 |  |

Maatschets



|           |         |
|-----------|---------|
| E2*/LED2* | 620 mm  |
| E2*/LED4* | 1120 mm |
| E2*/LED6* | 1620 mm |