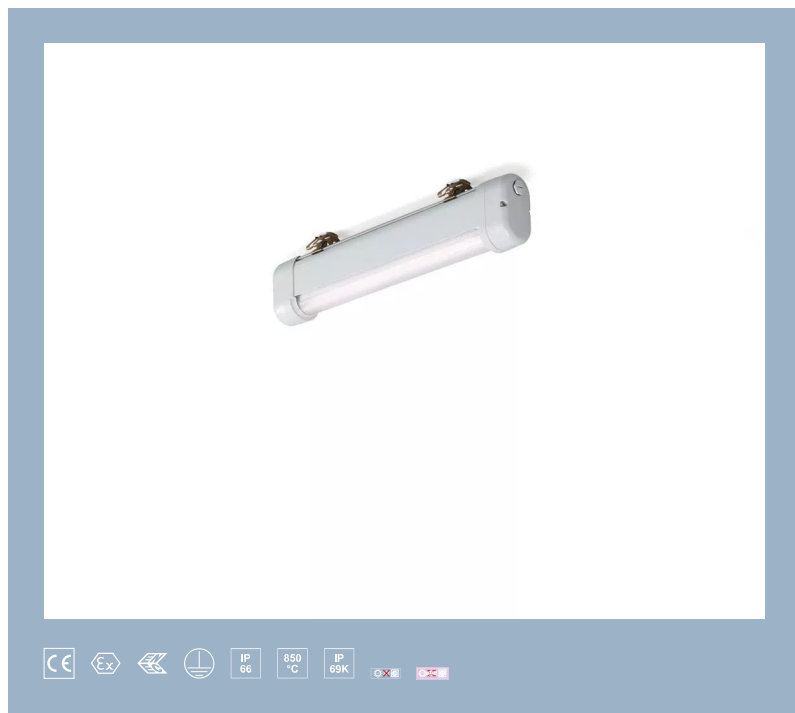


# E21/LED2N030S-ATEX1



**luminária de montagem saliente • linear**

**aplicação :** Ambientes ATEX

**base:** alumínio lacado

**fonte de luz :** LED • 4000 K

**óptica :** lente linear • Policarbonato (PC) • extensiva média

**classificação UGR :** <=28

**fluxo luminoso:** 3300 lm

**fluxo luminoso específico :** 122 lm/W

**LLMF:** 96% @ 50khrs (Tq=25°C)

## Product information

### Medidas

**dimensões :** 620 mm x 80 mm x 135 mm

**cor:** RAL7035 - cinzento

**tipo :** luminária individual

**IP:** IP66, IP69K

**temperatura ambiental:** -20°C - 40°C •

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

### Equipamento eléctrico

**driver:** não regulável

**potência :** 27 W

**tensão :** 220-240V

**frequência :** 50-60Hz AC

**segurança fotobiológica :** EN 62471: RISK GROUP 1 UNLIMITED

Luminance

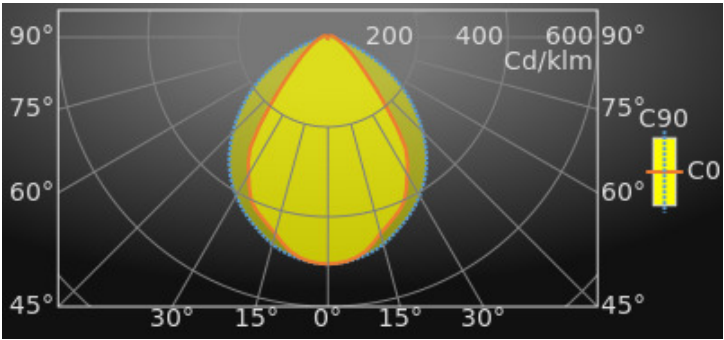
fluxo luminoso : 3300 lm

fluxo luminoso específico : 122 lm/W

classificação UGR =: <=28

área luminosa : 0.03 m²

| Average Luminances (Cd/m²) for 3300lm |       |       |       |       |       |
|---------------------------------------|-------|-------|-------|-------|-------|
| Gamma                                 | C0    | C30   | C45   | C60   | C90   |
| 45°                                   | 12985 | 17746 | 25435 | 32263 | 43142 |
| 50°                                   | 9360  | 12238 | 18253 | 27927 | 40258 |
| 55°                                   | 7204  | 9013  | 12927 | 22153 | 37028 |
| 60°                                   | 5659  | 7074  | 9549  | 16700 | 32580 |
| 65°                                   | 4751  | 5664  | 7435  | 12270 | 26910 |
| 70°                                   | 3923  | 4860  | 6138  | 9151  | 20976 |
| 75°                                   | 3437  | 4238  | 5156  | 6996  | 15676 |
| 80°                                   | 3217  | 3716  | 4543  | 5556  | 10977 |
| 85°                                   | 3079  | 3433  | 4058  | 4536  | 5326  |



Classificações

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     |

## Intensidades luminosas em cd

Intensity for 3300lm

| Gamma | C0     | C45    | C90    | Gamma | C0   | C45  | C90 |
|-------|--------|--------|--------|-------|------|------|-----|
| 0°    | 1666.3 | 1666.3 | 1666.3 | 90°   | 46.5 | 41.0 | 0.7 |
| 5°    | 1650.4 | 1646.1 | 1653.4 | 95°   | 39.3 | 30.1 | 0.0 |
| 10°   | 1596.6 | 1622.9 | 1623.8 | 100°  | 36.3 | 23.3 | 0.0 |
| 15°   | 1492.5 | 1546.3 | 1575.1 | 105°  | 31.8 | 17.5 | 0.0 |
| 20°   | 1413.5 | 1443.8 | 1504.4 | 110°  | 25.2 | 13.2 | 0.0 |
| 25°   | 1327.1 | 1368.6 | 1431.3 | 115°  | 19.6 | 10.0 | 0.0 |
| 30°   | 1163.0 | 1292.1 | 1347.2 | 120°  | 14.9 | 7.2  | 0.0 |
| 35°   | 993.7  | 1124.4 | 1246.5 | 125°  | 10.6 | 4.7  | 0.0 |
| 40°   | 665.3  | 983.8  | 1125.1 | 130°  | 7.4  | 2.6  | 0.0 |
| 45°   | 430.2  | 766.3  | 987.2  | 135°  | 4.8  | 0.2  | 0.0 |
| 50°   | 298.6  | 522.9  | 837.4  | 140°  | 2.5  | 0.0  | 0.0 |
| 55°   | 219.2  | 348.4  | 687.3  | 145°  | 0.0  | 0.0  | 0.0 |
| 60°   | 162.6  | 239.2  | 527.2  | 150°  | 0.0  | 0.0  | 0.0 |
| 65°   | 127.4  | 170.7  | 368.0  | 155°  | 0.0  | 0.0  | 0.1 |
| 70°   | 96.8   | 127.0  | 232.2  | 160°  | 0.0  | 0.0  | 0.1 |
| 75°   | 76.9   | 94.2   | 131.3  | 165°  | 0.1  | 0.0  | 0.1 |
| 80°   | 64.0   | 71.4   | 61.7   | 170°  | 0.4  | 0.3  | 0.2 |
| 85°   | 53.1   | 52.9   | 15.0   | 175°  | 0.9  | 0.8  | 0.6 |
| 90°   | 46.5   | 41.0   | 0.7    | 180°  | 0.8  | 0.8  | 0.8 |

## classificação UGR =

Corrected Glare Ratings for a Total Lamp Flux of 3300lm (S = 0.25H)

|                 | Room Reflection Factors (%)                                    |      |      |      |      |                |      |      |      |      |
|-----------------|----------------------------------------------------------------|------|------|------|------|----------------|------|------|------|------|
| Ceiling         | 70                                                             | 70   | 50   | 50   | 30   | 70             | 70   | 50   | 50   | 30   |
| Walls           | 50                                                             | 30   | 50   | 30   | 30   | 50             | 30   | 50   | 30   | 30   |
| Floor           | 20                                                             | 20   | 20   | 20   | 20   | 20             | 20   | 20   | 20   | 20   |
| Room Dimensions | Viewed Crosswise                                               |      |      |      |      | Viewed Endwise |      |      |      |      |
| X = 2H Y = 2H   | 18.6                                                           | 20.3 | 19.0 | 20.6 | 20.9 | 24.2           | 25.9 | 24.6 | 26.2 | 26.5 |
| Y = 3H          | 19.0                                                           | 20.5 | 19.4 | 20.8 | 21.1 | 25.1           | 26.6 | 25.5 | 26.9 | 27.2 |
| Y = 4H          | 19.2                                                           | 20.6 | 19.6 | 20.9 | 21.2 | 25.4           | 26.8 | 25.8 | 27.1 | 27.4 |
| Y = 6H          | 19.4                                                           | 20.6 | 19.8 | 21.0 | 21.3 | 25.5           | 26.8 | 25.9 | 27.1 | 27.5 |
| Y = 8H          | 19.5                                                           | 20.7 | 19.9 | 21.1 | 21.4 | 25.5           | 26.7 | 25.9 | 27.1 | 27.4 |
| Y = 12H         | 19.6                                                           | 20.7 | 20.0 | 21.1 | 21.5 | 25.5           | 26.6 | 25.9 | 27.0 | 27.4 |
| X = 4H Y = 2H   | 19.2                                                           | 20.6 | 19.6 | 20.9 | 21.3 | 24.1           | 25.5 | 24.5 | 25.8 | 26.2 |
| Y = 3H          | 19.7                                                           | 20.9 | 20.2 | 21.3 | 21.7 | 25.1           | 26.3 | 25.6 | 26.7 | 27.1 |
| Y = 4H          | 20.0                                                           | 21.0 | 20.4 | 21.4 | 21.8 | 25.5           | 26.5 | 25.9 | 26.9 | 27.3 |
| Y = 6H          | 20.3                                                           | 21.2 | 20.7 | 21.6 | 22.1 | 25.7           | 26.6 | 26.1 | 27.0 | 27.5 |
| Y = 8H          | 20.4                                                           | 21.3 | 20.9 | 21.7 | 22.2 | 25.7           | 26.6 | 26.2 | 27.0 | 27.5 |
| Y = 12H         | 20.6                                                           | 21.4 | 21.1 | 21.8 | 22.3 | 25.7           | 26.5 | 26.2 | 27.0 | 27.4 |
| X = 8H Y = 4H   | 20.3                                                           | 21.1 | 20.7 | 21.6 | 22.0 | 25.4           | 26.3 | 25.9 | 26.7 | 27.2 |
| Y = 6H          | 20.7                                                           | 21.4 | 21.2 | 21.9 | 22.4 | 25.7           | 26.4 | 26.2 | 26.9 | 27.4 |
| Y = 8H          | 20.9                                                           | 21.6 | 21.4 | 22.0 | 22.6 | 25.8           | 26.4 | 26.3 | 26.9 | 27.4 |
| Y = 12H         | 21.2                                                           | 21.7 | 21.7 | 22.2 | 22.8 | 25.8           | 26.4 | 26.4 | 26.9 | 27.4 |
| X = 12H Y = 4H  | 20.3                                                           | 21.1 | 20.8 | 21.5 | 22.0 | 25.4           | 26.2 | 25.9 | 26.7 | 27.1 |
| Y = 6H          | 20.8                                                           | 21.4 | 21.3 | 21.9 | 22.4 | 25.7           | 26.3 | 26.2 | 26.8 | 27.3 |
| Y = 8H          | 21.1                                                           | 21.6 | 21.6 | 22.1 | 22.7 | 25.8           | 26.4 | 26.3 | 26.9 | 27.4 |
|                 | UGR Variations with Observer Position for Luminaire Spacings S |      |      |      |      |                |      |      |      |      |
| S = 1.0H        | +1.0                                                           |      | -1.0 |      |      | +0.2           |      | -0.3 |      |      |
| S = 1.5H        | +1.4                                                           |      | -1.5 |      |      | +0.7           |      | -0.9 |      |      |
| S = 2.0H        | +2.2                                                           |      | -1.9 |      |      | +1.9           |      | -2.0 |      |      |

## Colour properties

Correlated Colour Temperature : 4000

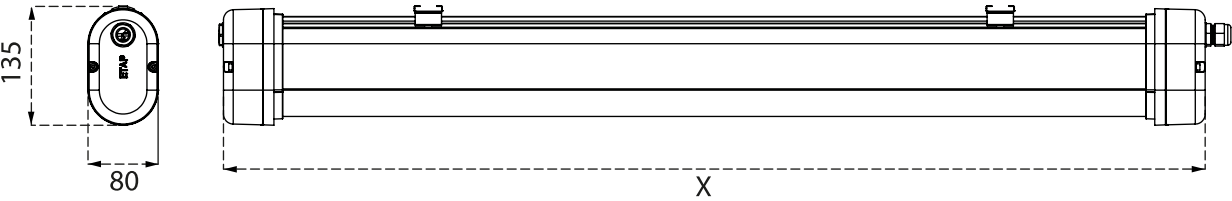
Ra: CRI (Ra) 80

Eficiência

| 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                                  | 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 (%) |                             |     |     |    |     |     |    |    |    |    |
|-------------------------------------------|-----------------------------|-----|-----|----|-----|-----|----|----|----|----|
|                                           | 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                                  | 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 |

Esboço



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