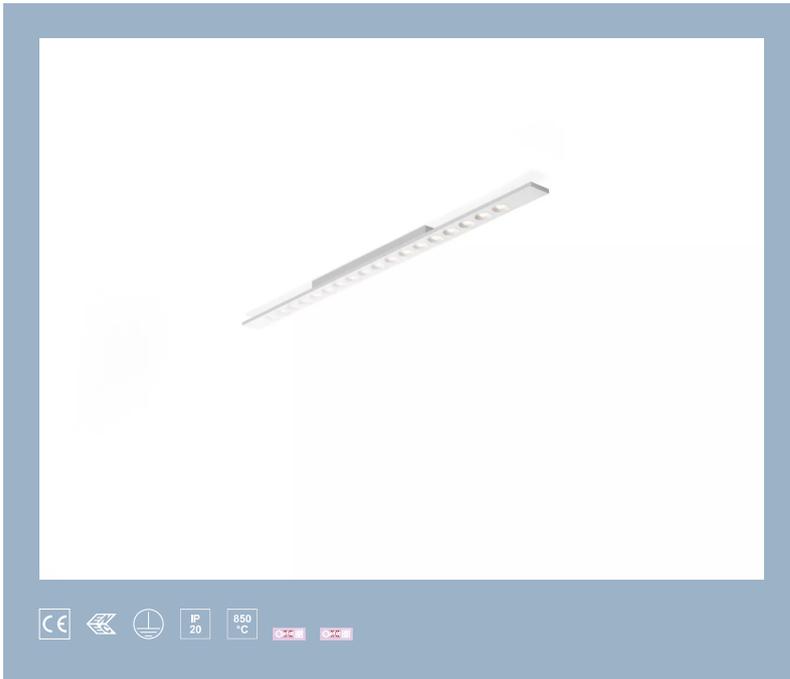


R710R1/LEDN1820SX1



luminaire en saillie • linéaire

Application : Espaces de travail, Salles de classe, Amphithéâtres

caisson: tôle d'acier laquée

source lumineuse : LED • 4000 K

optique : LED+LENS™ • Lentilles et cônes en Polycarbonate (PC) • moyennement extensive

classification UGR : <=16

flux lumineux: 2400 lm

flux lumineux spécifique : 126 lm/W

LLMF: 98% @ 50khrs (Tq=25°C)

Product information

Caractéristiques mécaniques

dimensions : 1500 mm x 75 mm x 50 mm

couleur: RAL9003 - blanc de sécurité (texturé)

type : luminaire individuel

IP: IP20

Equipement électrique

driver: non gradable

puissance : 19 W

tension : 220-240V

fréquence : 50-60Hz AC

sécurité photobiologique : EN 62471: RISK GROUP 1 UNLIMITED

Luminance

flux lumineux : 2400 lm

flux lumineux spécifique : 126 lm/W

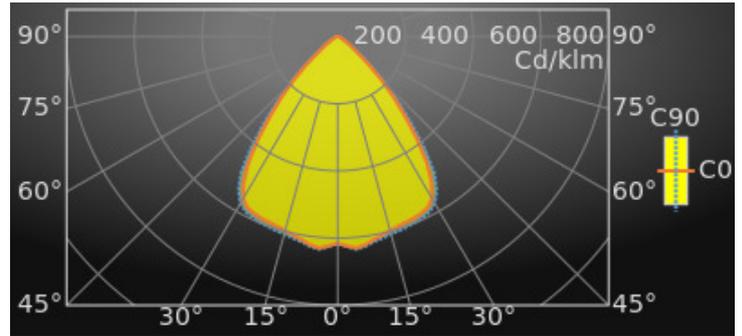
luminance @ 65° = : 1000 cd/m²

classification UGR =: <=16

surface lumineuse : 0.09 m²

Average Luminances (Cd/m²) for 2400lm

| Gamma | C0 | C30 | C45 | C60 | C90 |
|-------|------|------|------|------|------|
| 45° | 7090 | 7513 | 7056 | 7596 | 7604 |
| 50° | 3487 | 3702 | 3465 | 3808 | 4057 |
| 55° | 1874 | 1848 | 1770 | 1939 | 2042 |
| 60° | 1094 | 1143 | 1080 | 1169 | 1169 |
| 65° | 771 | 808 | 754 | 806 | 837 |
| 70° | 612 | 633 | 604 | 634 | 661 |
| 75° | 518 | 535 | 512 | 554 | 557 |
| 80° | 437 | 471 | 435 | 477 | 513 |
| 85° | 300 | 374 | 300 | 375 | 423 |



Classifications

CIE: 818 / 980 / 997 / 1000 / 1000

CIE FLUXCODE : 0.82 / 0.98 / 1.00 / 1.00 / 1.00

BZ: BZ1

CAE: Symmetrical

DIN: A60 (Nach Arbeitsblatt 7)

DIN_U: Phi u = 1.00

DIN_SU: Phi su = 0.75

UTE: 1.00 B + 0.00 T

Lifetime Data (Tq=25.0°C)

| Time(khrs) | LLMF(%) | Cx(%) |
|------------|---------|-------|
| 10 | 100 | 2 |
| 20 | 99 | 4 |
| 30 | 99 | 6 |
| 40 | 99 | 8 |
| 50 | 98 | 10 |
| 60 | 98 | 12 |

classification UGR =

Corrected Glare Ratings for a Total Lamp Flux of 2400lm (S = 0.25H)

| | Room Reflection Factors (%) | | | | | | | | | |
|--|-----------------------------|------|------|------|------|----------------|------|------|------|------|
| | 70 | 70 | 50 | 50 | 30 | 70 | 70 | 50 | 50 | 30 |
| 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 | 15.6 | 17.1 | 15.9 | 17.3 | 17.6 | 15.6 | 17.1 | 15.9 | 17.4 | 17.6 |
| Y = 3H | 15.4 | 16.8 | 15.8 | 17.1 | 17.3 | 15.5 | 16.8 | 15.8 | 17.1 | 17.4 |
| Y = 4H | 15.4 | 16.6 | 15.7 | 16.9 | 17.2 | 15.4 | 16.7 | 15.8 | 17.0 | 17.3 |
| Y = 6H | 15.3 | 16.5 | 15.7 | 16.8 | 17.1 | 15.4 | 16.5 | 15.8 | 16.8 | 17.2 |
| Y = 8H | 15.3 | 16.4 | 15.7 | 16.7 | 17.0 | 15.4 | 16.5 | 15.7 | 16.8 | 17.1 |
| Y = 12H | 15.3 | 16.3 | 15.7 | 16.6 | 17.0 | 15.3 | 16.4 | 15.7 | 16.7 | 17.0 |
| X = 4H Y = 2H | 15.4 | 16.6 | 15.7 | 16.9 | 17.2 | 15.4 | 16.7 | 15.8 | 16.9 | 17.2 |
| Y = 3H | 15.3 | 16.3 | 15.7 | 16.7 | 17.0 | 15.4 | 16.4 | 15.7 | 16.7 | 17.1 |
| Y = 4H | 15.3 | 16.2 | 15.7 | 16.5 | 16.9 | 15.3 | 16.2 | 15.7 | 16.6 | 16.9 |
| Y = 6H | 15.2 | 16.0 | 15.7 | 16.4 | 16.8 | 15.3 | 16.1 | 15.7 | 16.5 | 16.9 |
| Y = 8H | 15.2 | 15.9 | 15.6 | 16.3 | 16.8 | 15.3 | 16.0 | 15.7 | 16.4 | 16.8 |
| Y = 12H | 15.2 | 15.9 | 15.6 | 16.3 | 16.7 | 15.2 | 15.9 | 15.7 | 16.3 | 16.8 |
| X = 8H Y = 4H | 15.2 | 15.9 | 15.6 | 16.3 | 16.7 | 15.2 | 16.0 | 15.7 | 16.4 | 16.8 |
| Y = 6H | 15.2 | 15.8 | 15.6 | 16.2 | 16.7 | 15.2 | 15.8 | 15.7 | 16.3 | 16.7 |
| Y = 8H | 15.1 | 15.7 | 15.6 | 16.1 | 16.6 | 15.2 | 15.7 | 15.7 | 16.2 | 16.7 |
| Y = 12H | 15.1 | 15.6 | 15.6 | 16.1 | 16.6 | 15.2 | 15.7 | 15.7 | 16.1 | 16.7 |
| X = 12H Y = 4H | 15.2 | 15.8 | 15.6 | 16.2 | 16.7 | 15.2 | 15.9 | 15.7 | 16.3 | 16.7 |
| Y = 6H | 15.1 | 15.7 | 15.6 | 16.1 | 16.6 | 15.2 | 15.7 | 15.7 | 16.2 | 16.7 |
| Y = 8H | 15.1 | 15.6 | 15.6 | 16.1 | 16.6 | 15.2 | 15.7 | 15.7 | 16.1 | 16.7 |
| UGR Variations with Observer Position for Luminaire Spacings S | | | | | | | | | | |
| S = 1.0H | +2.6 | | -5.6 | | +2.5 | | -5.8 | | | |
| S = 1.5H | +4.7 | | -7.7 | | +4.7 | | -7.6 | | | |
| S = 2.0H | +6.6 | | -8.6 | | +6.7 | | -8.6 | | | |

Intensités lumineuses en cd

Intensity for 2400lm

| Gamma | C0 | C45 | C90 |
|-------|--------|--------|--------|
| 0° | 1477.6 | 1477.6 | 1477.6 |
| 5° | 1516.6 | 1515.6 | 1523.3 |
| 10° | 1473.0 | 1480.0 | 1486.6 |
| 15° | 1435.7 | 1447.9 | 1460.6 |
| 20° | 1412.4 | 1422.8 | 1443.6 |
| 25° | 1395.0 | 1407.6 | 1423.9 |
| 30° | 1337.2 | 1375.4 | 1375.1 |
| 35° | 1103.5 | 1159.3 | 1191.3 |
| 40° | 742.2 | 766.7 | 807.8 |
| 45° | 442.2 | 440.1 | 474.2 |
| 50° | 197.7 | 196.5 | 230.0 |
| 55° | 94.8 | 89.6 | 103.3 |
| 60° | 48.2 | 47.6 | 51.6 |
| 65° | 28.7 | 28.1 | 31.2 |
| 70° | 18.5 | 18.2 | 19.9 |
| 75° | 11.8 | 11.7 | 12.7 |
| 80° | 6.7 | 6.7 | 7.9 |
| 85° | 2.3 | 2.3 | 3.3 |
| 90° | 0.4 | 0.5 | 0.9 |

Colour properties

Correlated Colour Temperature : 4000

Ra: CRI (Ra) 80

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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 | 109 | 107 | 106 | 103 | 101 | 100 | 99 | 98 | 97 | 91 |
| 2 | 100 | 96 | 93 | 94 | 92 | 90 | 91 | 89 | 87 | 83 |
| 3 | 91 | 86 | 83 | 87 | 83 | 80 | 84 | 81 | 79 | 75 |
| 4 | 84 | 78 | 74 | 80 | 76 | 72 | 78 | 74 | 71 | 68 |
| 5 | 77 | 71 | 66 | 74 | 69 | 65 | 72 | 68 | 64 | 62 |
| 6 | 71 | 64 | 60 | 68 | 63 | 59 | 67 | 62 | 59 | 56 |
| 7 | 66 | 59 | 54 | 63 | 58 | 54 | 62 | 57 | 53 | 51 |
| 8 | 61 | 54 | 50 | 59 | 53 | 49 | 58 | 53 | 49 | 47 |
| 9 | 57 | 50 | 46 | 55 | 49 | 45 | 54 | 49 | 45 | 43 |
| 10 | 53 | 46 | 42 | 51 | 46 | 42 | 50 | 45 | 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 | 57 | 62 | 56 | 63 | 56 | 60 | 55 | 55 | 50 |
| 0.80 | 77 | 69 | 72 | 66 | 74 | 68 | 70 | 66 | 65 | 60 |
| 1.00 | 84 | 77 | 78 | 73 | 81 | 75 | 76 | 72 | 71 | 67 |
| 1.25 | 94 | 87 | 86 | 82 | 89 | 84 | 84 | 80 | 80 | 75 |
| 1.50 | 99 | 93 | 90 | 86 | 94 | 89 | 88 | 84 | 84 | 79 |
| 2.00 | 106 | 100 | 94 | 91 | 99 | 95 | 92 | 89 | 88 | 84 |
| 2.50 | 111 | 105 | 98 | 95 | 103 | 99 | 95 | 93 | 92 | 88 |
| 3.00 | 115 | 110 | 100 | 98 | 106 | 103 | 98 | 96 | 95 | 91 |
| 4.00 | 118 | 114 | 102 | 100 | 108 | 105 | 99 | 97 | 96 | 92 |
| 5.00 | 120 | 117 | 103 | 102 | 110 | 108 | 100 | 99 | 98 | 94 |

Esquisse

