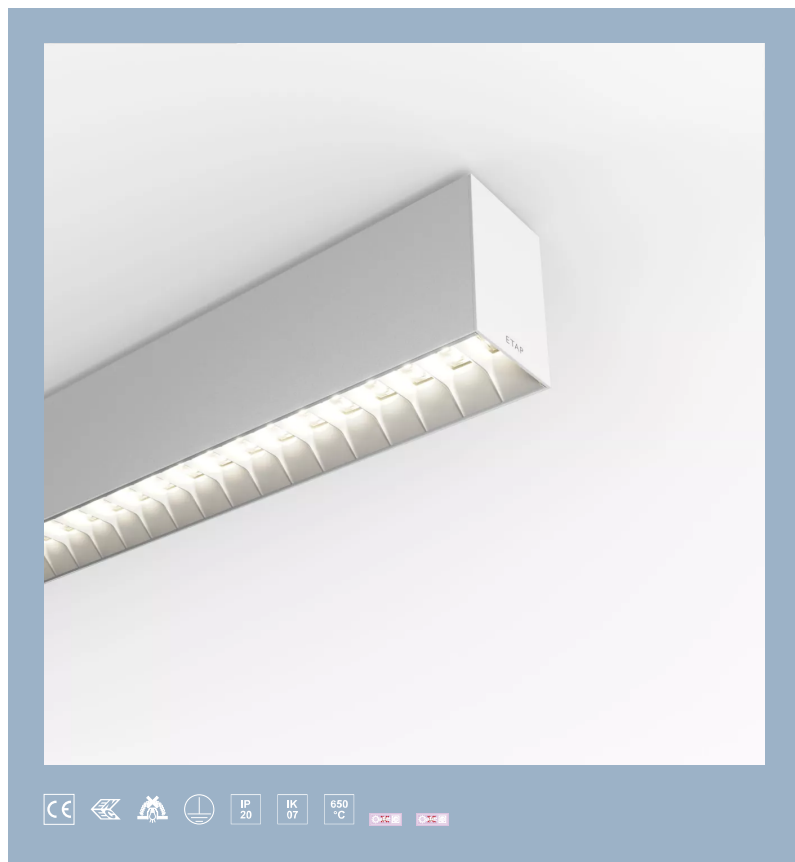


# V3RS10M/N3M0D0X1



## opbouwarmatuur • langwerpig

**Toepassing :** Werkruimten, Auditoria, Algemene onderwijsruimten, Ruimten voor algemene gezondheidszorg

**behuizing:** gelakt aluminium

**lichtbron :** led • 4000 K

**optiek :** Shielded lens • Wit polycarbonaat (PC) • middelbreedstralend

**UGR classificatie :** <=19

**lichtstroom:** 2850 lm

**efficiëntie :** 138 lm/W

**LLMF:** 96% @ 50khrs (Tq=25°C)

## Product information

### Mechanische eigenschappen

**afmetingen :** 1371 mm x 60 mm x 90 mm

**kleur:** RAL9003 - signaalwit (structuurlak)

**type :** individueel armatuur

**IP:** IP20

**IK:** IK07

### Elektrische uitrusting

**driver:** DALI dimbaar

**opgenomen vermogen :** 20.7 W

**spanning :** 220-240V

**frequentie :** 50-60Hz AC

**fotobiologische veiligheid :** EN 62471: RISK GROUP 1 UNLIMITED

## Luminantie

lichtstroom : 2850 lm

efficiëntie : 138 lm/W

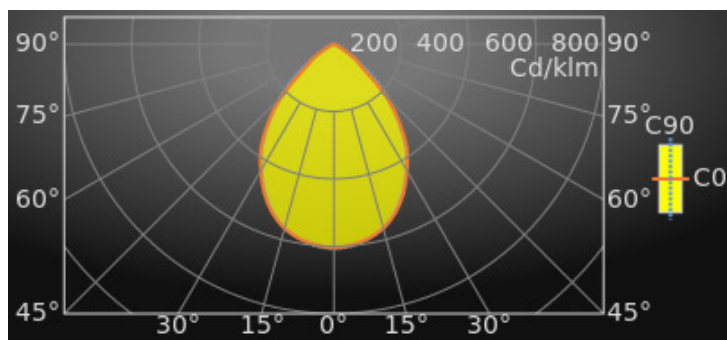
luminantie @ 65° = : 3000 cd/m²

UGR classificatie =: <=19

lichtgevende oppervlakte : 0.08 m²

Average Luminances (Cd/m²) for 2850lm

| Gamma | C0    | C30   | C45   | C60   | C90   |
|-------|-------|-------|-------|-------|-------|
| 45°   | 11658 | 13635 | 14445 | 13622 | 11888 |
| 50°   | 6711  | 10890 | 11880 | 11311 | 9325  |
| 55°   | 4964  | 6477  | 9158  | 8707  | 5490  |
| 60°   | 2145  | 4531  | 5537  | 4652  | 2770  |
| 65°   | 953   | 1677  | 2929  | 2358  | 2122  |
| 70°   | 661   | 805   | 1085  | 1526  | 1474  |
| 75°   | 515   | 571   | 691   | 927   | 1184  |
| 80°   | 348   | 430   | 486   | 599   | 995   |
| 85°   | 1     | 5     | 58    | 261   | 704   |



## Classificaties

CIE: 709 / 966 / 997 / 1000 / 1000

CIE FLUXCODE : 0.71 / 0.97 / 1.00 / 1.00 / 1.00

BZ: BZ2

CAE: Symmetrical

DIN: A60 (Nach Arbeitsblatt 7)

DIN\_U: Phi u = 1.00

DIN\_SU: Phi su = 0.71

UTE: 1.00 C + 0.00 T

Lifetime Data (Tq=25.0°C)

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

## Lichtsterkten in cd

Intensity for 2850lm

| Gamma | C0     | C45    | C90    |
|-------|--------|--------|--------|
| 0°    | 1724.9 | 1724.9 | 1724.9 |
| 5°    | 1706.8 | 1707.3 | 1713.2 |
| 10°   | 1671.2 | 1666.0 | 1667.9 |
| 15°   | 1612.9 | 1610.1 | 1606.5 |
| 20°   | 1518.8 | 1526.9 | 1501.8 |
| 25°   | 1391.0 | 1417.8 | 1366.7 |
| 30°   | 1233.1 | 1282.9 | 1217.8 |
| 35°   | 1072.2 | 1131.1 | 1042.8 |
| 40°   | 857.0  | 971.3  | 838.5  |
| 45°   | 631.5  | 782.5  | 644.0  |
| 50°   | 330.5  | 585.0  | 459.2  |
| 55°   | 218.1  | 402.4  | 241.2  |
| 60°   | 82.2   | 212.1  | 106.1  |
| 65°   | 30.8   | 94.8   | 68.7   |
| 70°   | 17.3   | 28.4   | 38.6   |
| 75°   | 10.2   | 13.7   | 23.5   |
| 80°   | 4.6    | 6.5    | 13.2   |
| 85°   | 0.0    | 0.4    | 4.7    |
| 90°   | 0.0    | 0.0    | 0.0    |

## UGR classificatie =

Corrected Glare Ratings for a Total Lamp Flux of 2850lm (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   | 18.0                                                           | 19.6 | 18.4  | 19.9 | 20.1 | 18.5           | 20.1 | 18.8 | 20.3 | 20.6 |
| Y = 3H          | 17.9                                                           | 19.3 | 18.2  | 19.6 | 19.9 | 18.5           | 19.9 | 18.8 | 20.2 | 20.4 |
| Y = 4H          | 17.8                                                           | 19.1 | 18.2  | 19.4 | 19.7 | 18.4           | 19.7 | 18.8 | 20.0 | 20.3 |
| Y = 6H          | 17.7                                                           | 19.0 | 18.1  | 19.3 | 19.6 | 18.4           | 19.6 | 18.7 | 19.9 | 20.2 |
| Y = 8H          | 17.7                                                           | 18.9 | 18.1  | 19.2 | 19.5 | 18.3           | 19.5 | 18.7 | 19.8 | 20.2 |
| Y = 12H         | 17.7                                                           | 18.8 | 18.1  | 19.1 | 19.5 | 18.3           | 19.4 | 18.7 | 19.7 | 20.1 |
| X = 4H Y = 2H   | 18.1                                                           | 19.4 | 18.5  | 19.7 | 20.0 | 18.5           | 19.9 | 18.9 | 20.1 | 20.5 |
| Y = 3H          | 18.0                                                           | 19.1 | 18.4  | 19.5 | 19.8 | 18.5           | 19.6 | 18.9 | 20.0 | 20.3 |
| Y = 4H          | 18.0                                                           | 18.9 | 18.4  | 19.3 | 19.7 | 18.5           | 19.5 | 18.9 | 19.8 | 20.2 |
| Y = 6H          | 17.9                                                           | 18.7 | 18.3  | 19.1 | 19.5 | 18.5           | 19.3 | 18.9 | 19.7 | 20.1 |
| Y = 8H          | 17.9                                                           | 18.7 | 18.3  | 19.0 | 19.5 | 18.5           | 19.3 | 18.9 | 19.7 | 20.1 |
| Y = 12H         | 17.8                                                           | 18.5 | 18.3  | 19.0 | 19.4 | 18.5           | 19.2 | 18.9 | 19.6 | 20.0 |
| X = 8H Y = 4H   | 17.9                                                           | 18.7 | 18.3  | 19.1 | 19.5 | 18.4           | 19.2 | 18.9 | 19.6 | 20.0 |
| Y = 6H          | 17.8                                                           | 18.5 | 18.3  | 18.9 | 19.4 | 18.4           | 19.1 | 18.9 | 19.5 | 20.0 |
| Y = 8H          | 17.8                                                           | 18.4 | 18.3  | 18.8 | 19.3 | 18.4           | 19.0 | 18.9 | 19.4 | 19.9 |
| Y = 12H         | 17.8                                                           | 18.3 | 18.3  | 18.7 | 19.3 | 18.4           | 18.9 | 18.9 | 19.3 | 19.9 |
| X = 12H Y = 4H  | 17.8                                                           | 18.6 | 18.3  | 19.0 | 19.4 | 18.4           | 19.1 | 18.9 | 19.5 | 20.0 |
| Y = 6H          | 17.8                                                           | 18.4 | 18.3  | 18.8 | 19.3 | 18.4           | 19.0 | 18.9 | 19.4 | 19.9 |
| Y = 8H          | 17.8                                                           | 18.3 | 18.3  | 18.7 | 19.3 | 18.4           | 18.9 | 18.9 | 19.3 | 19.9 |
|                 | UGR Variations with Observer Position for Luminaire Spacings S |      |       |      |      |                |      |      |      |      |
| S = 1.0H        | +1.4                                                           |      | -2.7  |      |      | +1.0           |      | -2.1 |      |      |
| S = 1.5H        | +2.7                                                           |      | -8.5  |      |      | +2.0           |      | -6.3 |      |      |
| S = 2.0H        | +4.2                                                           |      | -12.3 |      |      | +3.5           |      | -7.5 |      |      |

## 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                                  | 108                         | 106 | 105 | 102 | 100 | 99 | 98 | 97 | 96 | 90 |
| 2                                        | 98                          | 94  | 91  | 93  | 90  | 87 | 90 | 87 | 85 | 81 |
| 3                                        | 89                          | 84  | 80  | 84  | 80  | 77 | 82 | 78 | 76 | 72 |
| 4                                        | 81                          | 75  | 70  | 77  | 72  | 69 | 75 | 71 | 68 | 64 |
| 5                                        | 74                          | 67  | 62  | 70  | 65  | 61 | 69 | 64 | 61 | 58 |
| 6                                        | 67                          | 61  | 56  | 65  | 59  | 55 | 63 | 58 | 55 | 52 |
| 7                                        | 62                          | 55  | 50  | 60  | 54  | 50 | 58 | 53 | 49 | 47 |
| 8                                        | 57                          | 50  | 46  | 55  | 49  | 45 | 54 | 49 | 45 | 43 |
| 9                                        | 53                          | 46  | 42  | 52  | 46  | 41 | 50 | 45 | 41 | 39 |
| 10                                       | 50                          | 43  | 38  | 48  | 42  | 38 | 47 | 42 | 38 | 36 |

| 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                                  | 61                          | 53  | 58  | 51  | 59  | 52  | 56 | 51 | 50 | 45 |
| 0.80                                      | 73                          | 65  | 68  | 62  | 70  | 63  | 66 | 61 | 61 | 55 |
| 1.00                                      | 81                          | 73  | 75  | 69  | 77  | 71  | 73 | 68 | 68 | 62 |
| 1.25                                      | 91                          | 83  | 83  | 78  | 86  | 80  | 81 | 77 | 76 | 71 |
| 1.50                                      | 96                          | 89  | 87  | 83  | 91  | 86  | 85 | 81 | 80 | 76 |
| 2.00                                      | 103                         | 97  | 92  | 89  | 97  | 92  | 90 | 87 | 86 | 81 |
| 2.50                                      | 109                         | 103 | 96  | 93  | 101 | 97  | 93 | 91 | 90 | 86 |
| 3.00                                      | 113                         | 108 | 99  | 96  | 105 | 101 | 96 | 94 | 93 | 89 |
| 4.00                                      | 116                         | 112 | 101 | 99  | 107 | 104 | 98 | 96 | 95 | 91 |
| 5.00                                      | 119                         | 116 | 103 | 101 | 109 | 107 | 99 | 98 | 96 | 93 |

Accessoires

V3H2500 *Beugel voor plafondmontage*

V3H9900 *Installatiedossier*

V3H9960 *Installatiegereedschap*



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Maatschets

