

# R811R1/LEDW15D

pendelarmatuur • langwerpig

*toepassing* : Kantoor, Gezondheidszorg, Onderwijs, Horeca, Retail, Vrije tijd

*lichtbron* : LED LP • 3000 K

*optiek* : Diffusor • breedstralend

*UGR classificatie* : <=22

*lichtstroom*: 1800 lm

*efficiëntie* : 113 lm/W

*LLMF*: 97% @ 50khrs (Tq=25°C)



## Mechanische eigenschappen

*afmetingen* : 787 mm x 80 mm x 121 mm

*kleur*: RAL9003-signaalwit (structuurlak)

*type* : individueel armatuur

*IP*: IP20

## Luminantie

*lichtstroom* : 1800 lm

*efficiëntie* : 113 lm/W

*UGR classificatie*: <=22

*lichtgevende oppervlakte* : 0.06 m<sup>2</sup>

## Elektrische uitrusting

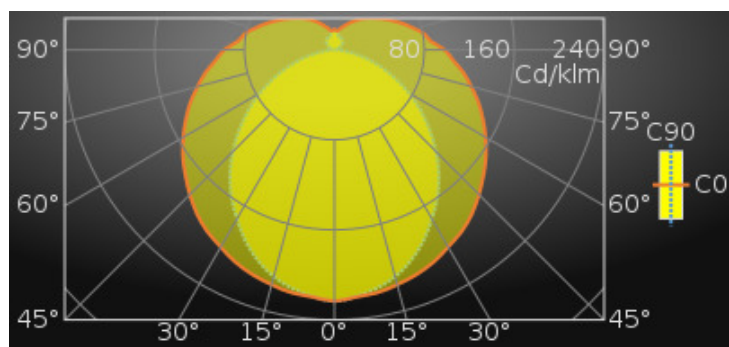
*driver*: DALI dimbaar

*opgenomen vermogen* : 16 W

*spanning* : 220-240V

*frequentie* : 50-60Hz AC

*fotobiologische veiligheid* : EN 62471: RISK GROUP 0 UNLIMITED



Average Luminances (Cd/m<sup>2</sup>) for 1800lm

| Gamma | C0   | C30  | C45  | C60  | C90  |
|-------|------|------|------|------|------|
| 45°   | 3767 | 3758 | 3778 | 3915 | 5221 |
| 50°   | 3605 | 3576 | 3574 | 3661 | 4978 |
| 55°   | 3470 | 3415 | 3372 | 3414 | 4718 |
| 60°   | 3340 | 3256 | 3191 | 3179 | 4415 |
| 65°   | 3230 | 3127 | 3030 | 2955 | 4090 |
| 70°   | 3135 | 3007 | 2897 | 2766 | 3727 |
| 75°   | 3038 | 2910 | 2785 | 2607 | 3272 |
| 80°   | 2973 | 2844 | 2697 | 2479 | 2741 |
| 85°   | 2897 | 2770 | 2623 | 2399 | 1924 |

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## Classificaties

CIE: 300 / 522 / 679 / 788 / 1000

CIE FLUXCODE : 0.38 / 0.66 / 0.86 / 0.79 / 1.00

BZ: BZ10/1.25/BZ5/1.5/BZ10

CAE: CAE 4/5°/CAE 3/25°/CAE 2/75°/CAE 3

DIN: B30 (Nach Arbeitsblatt 7 und 8)

DIN\_U: Phi u = 0.79

DIN\_SU: Phi su = 0.45

UTE: 0.79 H + 0.21 T

## Lichtsterkten in cd

Lifetime Data (Tq=25.0°C)

| Time(khrs) | LLMF(%) | Cx(%) |
|------------|---------|-------|
| 10         | 100     | 2     |
| 20         | 99      | 4     |
| 30         | 99      | 6     |
| 40         | 98      | 8     |
| 50         | 98      | 10    |
| 60         | 97      | 12    |

Intensity for 1800lm

| Gamma | C0    | C45   | C90   | Gamma | C0    | C45   | C90  |
|-------|-------|-------|-------|-------|-------|-------|------|
| 0°    | 402.0 | 402.0 | 402.0 | 90°   | 176.5 | 114.9 | 2.2  |
| 5°    | 396.9 | 396.1 | 395.9 | 95°   | 155.1 | 99.1  | 2.0  |
| 10°   | 394.4 | 390.9 | 387.6 | 100°  | 146.4 | 92.4  | 3.2  |
| 15°   | 388.9 | 382.7 | 375.8 | 105°  | 132.2 | 83.3  | 5.0  |
| 20°   | 382.9 | 371.3 | 358.5 | 110°  | 119.8 | 75.2  | 7.3  |
| 25°   | 375.0 | 356.2 | 337.1 | 115°  | 107.5 | 68.2  | 9.9  |
| 30°   | 364.3 | 339.7 | 312.1 | 120°  | 96.9  | 62.2  | 12.2 |
| 35°   | 354.9 | 321.7 | 287.6 | 125°  | 87.3  | 57.0  | 14.2 |
| 40°   | 342.5 | 301.9 | 260.5 | 130°  | 78.9  | 52.4  | 16.6 |
| 45°   | 327.4 | 280.9 | 229.8 | 135°  | 71.3  | 48.0  | 19.0 |
| 50°   | 311.8 | 260.5 | 199.2 | 140°  | 64.1  | 44.3  | 20.3 |
| 55°   | 296.4 | 238.9 | 168.4 | 145°  | 56.6  | 41.1  | 21.3 |
| 60°   | 279.5 | 217.9 | 137.4 | 150°  | 50.2  | 37.8  | 20.9 |
| 65°   | 262.6 | 197.5 | 107.6 | 155°  | 44.2  | 34.9  | 21.5 |
| 70°   | 245.5 | 178.5 | 79.3  | 160°  | 39.1  | 32.0  | 20.8 |
| 75°   | 227.0 | 160.3 | 52.7  | 165°  | 34.8  | 29.5  | 24.7 |
| 80°   | 209.8 | 143.1 | 29.6  | 170°  | 31.2  | 29.2  | 28.7 |
| 85°   | 190.8 | 126.4 | 10.4  | 175°  | 31.2  | 31.0  | 31.3 |
| 90°   | 176.5 | 114.9 | 2.2   | 180°  | 32.8  | 32.8  | 32.8 |

## UGR classificatie

Corrected Glare Ratings for a Total Lamp Flux of 1800lm (S = 0.25H)

| Room Dimensions  | Room Reflection Factors (%) |       |       |      |      |                |      |      |      |      |    |    |    |
|--|-----------------------------|-------|-------|------|------|----------------|------|------|------|------|----|----|----|
|  | Ceiling                     | Walls | Floor | 70   | 70   | 50             | 50   | 30   | 30   | 50   | 50 | 30 | 30 |
|  | 70                          | 70    | 50    | 50   | 30   | 70             | 70   | 50   | 50   | 30   | 30 | 50 | 50 |
|  | 50                          | 30    | 50    | 30   | 30   | 50             | 30   | 50   | 30   | 30   | 50 | 30 | 30 |
|  | 20                          | 20    | 20    | 20   | 20   | 20             | 20   | 20   | 20   | 20   | 20 | 20 | 20 |
| Room Dimensions  | Viewed Crosswise            |       |       |      |      | Viewed Endwise |      |      |      |      |    |    |    |
| X = 2H Y = 2H  | 16.0                        | 17.4  | 16.6  | 18.1 | 18.6 | 14.7           | 16.2 | 15.3 | 16.8 | 17.4 |    |    |    |
| Y = 3H   | 18.1                        | 19.4  | 18.7  | 20.0 | 20.6 | 16.0           | 17.3 | 16.6 | 17.9 | 18.5 |    |    |    |
| Y = 4H   | 19.1                        | 20.3  | 19.7  | 21.0 | 21.6 | 16.4           | 17.7 | 17.1 | 18.3 | 19.0 |    |    |    |
| Y = 6H   | 20.1                        | 21.3  | 20.8  | 21.9 | 22.6 | 16.7           | 17.9 | 17.4 | 18.6 | 19.2 |    |    |    |
| Y = 8H   | 20.6                        | 21.7  | 21.2  | 22.4 | 23.0 | 16.8           | 17.9 | 17.4 | 18.6 | 19.2 |    |    |    |
| Y = 12H  | 21.0                        | 22.1  | 21.7  | 22.8 | 23.5 | 16.8           | 17.9 | 17.5 | 18.6 | 19.2 |    |    |    |
| X = 4H Y = 2H  | 16.5                        | 17.7  | 17.1  | 18.4 | 19.0 | 15.5           | 16.8 | 16.2 | 17.4 | 18.0 |    |    |    |
| Y = 3H   | 18.8                        | 19.9  | 19.5  | 20.6 | 21.2 | 17.0           | 18.1 | 17.7 | 18.8 | 19.4 |    |    |    |
| Y = 4H   | 20.0                        | 21.0  | 20.7  | 21.7 | 22.4 | 17.6           | 18.6 | 18.3 | 19.3 | 20.0 |    |    |    |
| Y = 6H   | 21.2                        | 22.1  | 21.9  | 22.8 | 23.5 | 18.1           | 19.0 | 18.8 | 19.7 | 20.4 |    |    |    |
| Y = 8H   | 21.8                        | 22.6  | 22.5  | 23.4 | 24.1 | 18.2           | 19.0 | 18.9 | 19.8 | 20.5 |    |    |    |
| Y = 12H  | 22.4                        | 23.1  | 23.1  | 23.9 | 24.6 | 18.2           | 19.0 | 19.0 | 19.8 | 20.5 |    |    |    |
| X = 8H Y = 4H  | 20.3                        | 21.1  | 21.0  | 21.9 | 22.5 | 18.3           | 19.1 | 19.0 | 19.9 | 20.6 |    |    |    |
| Y = 6H   | 21.7                        | 22.5  | 22.5  | 23.2 | 23.9 | 19.0           | 19.7 | 19.8 | 20.5 | 21.2 |    |    |    |
| Y = 8H   | 22.5                        | 23.1  | 23.2  | 23.9 | 24.6 | 19.3           | 19.9 | 20.0 | 20.7 | 21.4 |    |    |    |
| Y = 12H  | 23.2                        | 23.8  | 24.0  | 24.6 | 25.4 | 19.5           | 20.0 | 20.2 | 20.8 | 21.6 |    |    |    |
| X = 12H Y = 4H   | 20.3                        | 21.1  | 21.0  | 21.8 | 22.5 | 18.4           | 19.2 | 19.2 | 19.9 | 20.7 |    |    |    |
| Y = 6H   | 21.8                        | 22.5  | 22.6  | 23.2 | 24.0 | 19.3           | 19.9 | 20.1 | 20.7 | 21.5 |    |    |    |
| Y = 8H   | 22.6                        | 23.2  | 23.4  | 24.0 | 24.8 | 19.7           | 20.3 | 20.5 | 21.0 | 21.8 |    |    |    |
| UGR Variations with Observer Position for Luminaire Spacings S |                             |       |       |      |      |                |      |      |      |      |    |    |    |
| S = 1.0H   | +0.1                        |       | -0.1  |      | +0.1 |                | -0.1 |      |      |      |    |    |    |
| S = 1.5H   | +0.2                        |       | -0.2  |      | +0.1 |                | -0.2 |      |      |      |    |    |    |
| S = 2.0H   | +0.2                        |       | -0.3  |      | +0.3 |                | -0.4 |      |      |      |    |    |    |

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## Kleureigenschappen

Correlated Colour Temperature : 3000

Ra: 80

## Rendement

Utilisation Factors according to IES (%)

|         | Room Reflection Factors (%) |    |    |    |    |    |    |    |    |    |
|---------|-----------------------------|----|----|----|----|----|----|----|----|----|
|         | 80                          | 80 | 80 | 50 | 50 | 50 | 30 | 30 | 30 | 0  |
| 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 | 94                          | 90 | 88 | 81 | 79 | 77 | 74 | 72 | 70 | 60 |
| 2       | 81                          | 75 | 70 | 69 | 65 | 62 | 63 | 59 | 56 | 48 |
| 3       | 70                          | 63 | 58 | 60 | 55 | 51 | 55 | 50 | 47 | 39 |
| 4       | 62                          | 54 | 48 | 53 | 47 | 43 | 48 | 43 | 39 | 33 |
| 5       | 55                          | 47 | 41 | 48 | 41 | 37 | 43 | 38 | 34 | 28 |
| 6       | 50                          | 41 | 35 | 43 | 36 | 32 | 39 | 34 | 29 | 24 |
| 7       | 45                          | 36 | 31 | 39 | 32 | 28 | 36 | 30 | 26 | 22 |
| 8       | 41                          | 33 | 27 | 36 | 29 | 25 | 33 | 27 | 23 | 19 |
| 9       | 37                          | 29 | 24 | 33 | 26 | 22 | 30 | 25 | 21 | 17 |
| 10      | 34                          | 27 | 22 | 30 | 24 | 20 | 28 | 22 | 19 | 15 |

Utilisation Factors according to LiTG (%)

|                | Room Reflection Factors (%) |    |    |    |    |    |    |    |    |    |
|----------------|-----------------------------|----|----|----|----|----|----|----|----|----|
|                | 80                          | 80 | 80 | 50 | 50 | 50 | 50 | 50 | 30 | 0  |
| <b>Ceiling</b> | 80                          | 80 | 80 | 50 | 50 | 50 | 50 | 50 | 30 | 0  |
| <b>Walls</b>   | 50                          | 30 | 50 | 30 | 50 | 30 | 50 | 30 | 30 | 0  |
| <b>Floor</b>   | 30                          | 30 | 10 | 10 | 30 | 30 | 10 | 10 | 10 | 0  |
| k = 0.60       | 41                          | 32 | 39 | 31 | 36 | 29 | 35 | 28 | 26 | 19 |
| 0.80           | 51                          | 41 | 48 | 39 | 44 | 37 | 42 | 36 | 33 | 25 |
| 1.00           | 59                          | 49 | 55 | 46 | 51 | 43 | 48 | 42 | 39 | 30 |
| 1.25           | 67                          | 57 | 62 | 54 | 58 | 51 | 55 | 49 | 45 | 36 |
| 1.50           | 74                          | 64 | 67 | 59 | 63 | 56 | 59 | 54 | 50 | 40 |
| 2.00           | 82                          | 73 | 74 | 67 | 70 | 64 | 65 | 60 | 56 | 46 |
| 2.50           | 89                          | 80 | 79 | 72 | 76 | 70 | 70 | 65 | 61 | 51 |
| 3.00           | 94                          | 86 | 82 | 77 | 80 | 74 | 74 | 69 | 65 | 54 |
| 4.00           | 100                         | 93 | 86 | 82 | 84 | 80 | 77 | 74 | 68 | 58 |
| 5.00           | 104                         | 98 | 89 | 85 | 88 | 84 | 80 | 77 | 72 | 61 |

## Maatschets

