

## RANA NEO Surface 1200

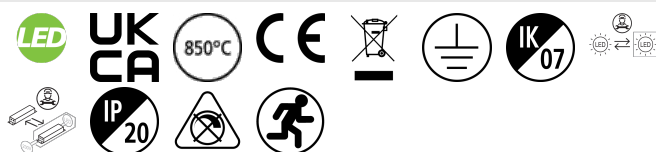
RANA NEO 6800LM S 1200 830 CC EM 2L WHITE

0054240



### Product features

- Surface or Suspended LED luminaire with Micro Prismatic Optic, Direct Light Distribution, Luminaire Dimensions: 1160x187x56mm, White body colour, IP20, IK07, Constant Current, Emergency 3 hours, Low LED flicker (+/-5%), Warm White (3000K) LED Colour Temperature, 6800lm, 59W, 115lm/W efficacy, CRI>80, 3 SDCM (3-step MacAdam ellipse) LED Colour Consistency, UGR<18, Luminance at 65° < 3000 cd/m2, Lifespan: 96,000 hours L80B20, Quick electrical connection with push-connectors in the luminaire, Glow Wire Test 850°C.



## PRODUCT OVERVIEW

|                                 |                                           |
|---------------------------------|-------------------------------------------|
| Product name                    | RANA NEO 6800LM S 1200 830 CC EM 2L WHITE |
| Technology                      | LED (3 SDCM)                              |
| Cap/Base                        | N/A                                       |
| Housing                         | Steel                                     |
| Mount                           | Ceiling surface mounting, Suspended       |
| General application             | Education, Office                         |
| ETIM Class                      | EC002892                                  |
| Warranty                        | 5 years                                   |
| Fixture luminous flux (lm)      | 6800                                      |
| Luminous flux (lm)              | 6800                                      |
| Luminaire efficacy (lm/W)       | 115                                       |
| Colour temperature (K)          | 3000                                      |
| Light colour                    | Warm White                                |
| CRI (Ra)                        | 80                                        |
| Colour Variation Initial (SDCM) | SDCM3                                     |
| Glare control                   | < 18                                      |
| Photobiological Risk Group      | RG0                                       |
| Luminous flux (emergency) (lm)  | 80                                        |
| Total power consumption (W)     | 59                                        |
| Electrical protection           | Class I                                   |
| Control gear type               | LED driver constant current               |
| Dimmable                        | No                                        |
| Dimming method                  | N/A                                       |
| LED Flickering Rate             | Ultra low (5% or less)                    |
| Housing colour                  | RAL 9016 - Traffic white / Bezel          |
| IP rating                       | IP20                                      |
| IK rating                       | IK07                                      |
| Product EAN number              | 5410288542409                             |

## DATA TABLE

General data

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|                                                     |                                           |
|-----------------------------------------------------|-------------------------------------------|
| Product name                                        | RANA NEO 6800LM S 1200 830 CC EM 2L WHITE |
| Technology                                          | LED (3 SDCM)                              |
| Cap/Base                                            | N/A                                       |
| Housing                                             | Steel                                     |
| Mount                                               | Ceiling surface mounting, Suspended       |
| General application                                 | Education, Office                         |
| Operating temperature range (°C)                    | 0°C...+25°C                               |
| Performance ambient temperature T <sub>a</sub> (°C) | 25                                        |
| ETIM Class                                          | EC002892                                  |
| Warranty                                            | 5 years                                   |

### Optical data

|                                 |            |
|---------------------------------|------------|
| Fixture luminous flux (lm)      | 6800       |
| Luminous flux (lm)              | 6800       |
| Luminaire efficacy (lm/W)       | 115        |
| Colour temperature (K)          | 3000       |
| Light colour                    | Warm White |
| CRI (Ra)                        | 80         |
| Colour Variation Initial (SDCM) | SDCM3      |
| Glare control                   | < 18       |
| Photobiological Risk Group      | RG0        |
| Luminous flux (emergency) (lm)  | 80         |
| Emergency duration (h)          | 3          |

### Electrical data

|                                                          |                             |
|----------------------------------------------------------|-----------------------------|
| Total power consumption (W)                              | 59                          |
| Mains voltage (V)                                        | 220-240V                    |
| Lamp power factor                                        | 0.95                        |
| Electrical protection                                    | Class I                     |
| Control gear required                                    | No                          |
| Control gear type                                        | LED driver constant current |
| Dimmable                                                 | No                          |
| Dimming method                                           | N/A                         |
| Drive current (mA)                                       | 300                         |
| Inrush Current (A)                                       | 12                          |
| Inrush Duration (µs)                                     | 25                          |
| Glow Wire Test (°C)                                      | 850                         |
| Energy Efficiency Class (A->G) of contained light source | C                           |
| Nominal Frequency (Hz)                                   | 50/60Hz                     |
| LED Flickering Rate                                      | Ultra low (5% or less)      |
| Max. Luminaires per 10A C Breaker                        | 24                          |
| Max. Luminaires per 13A C Breaker                        | 32                          |
| Max. Luminaires per 16A C Breaker                        | 39                          |
| Max. Luminaires per 20A C Breaker                        | 49                          |
| Max. Luminaires per 10A B Breaker                        | 24                          |
| Max. Luminaires per 13A B Breaker                        | 32                          |
| Max. Luminaires per 16A B Breaker                        | 39                          |
| Max. Luminaires per 20A B Breaker                        | 49                          |

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### Lifetime data

|                  |        |
|------------------|--------|
| Lifespan L70 B50 | 100000 |
| Lifespan L80 B20 | 96000  |

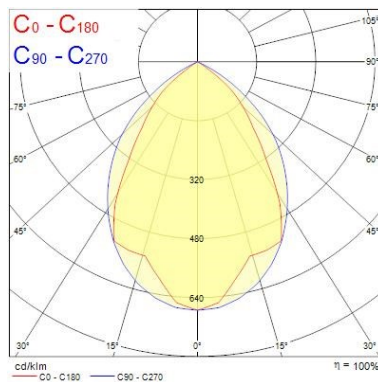
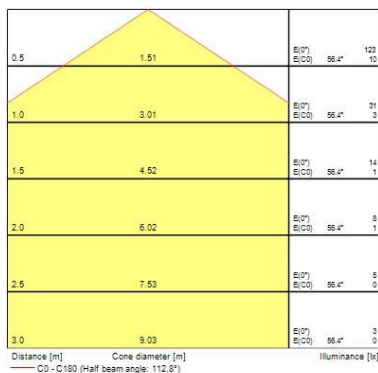
### Physical data

|                             |                                  |
|-----------------------------|----------------------------------|
| Housing colour              | RAL 9016 - Traffic white / Bezel |
| IP rating                   | IP20                             |
| IK rating                   | IK07                             |
| Diffuser finish             | Opal                             |
| Diffuser material           | PC Polycarbonate                 |
| Nominal Product Length (mm) | 1160                             |
| Nominal Product Width (mm)  | 187                              |
| Nominal Product Height (mm) | 47                               |
| Weight (kg)                 | 3.2                              |

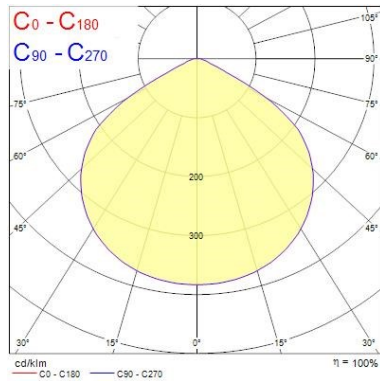
### Packaging

|                                       |                |
|---------------------------------------|----------------|
| Single packaging type                 | Carton         |
| Product EAN number                    | 5410288542409  |
| Packaging single length / height (cm) | 153.5          |
| Packaging single width (cm)           | 6.5            |
| Packaging single depth (cm)           | 21.0           |
| DUN14 (outer)                         | 05410288542409 |
| Units per outer package               | 1              |
| Packaging outer length / height (cm)  | 153.5          |
| Packaging outer width (cm)            | 6.5            |
| Packaging outer depth (cm)            | 21.0           |

## PHOTOMETRY



**RANA NEO Surface 1200**  
*RANA NEO 6800LM S 1200 830 CC EM 2L WHITE*  
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| Distance [m] | Cone diameter [m] | Illuminance [lx]                              |
|--------------|-------------------|-----------------------------------------------|
| 0.5          | 0.90<br>0.68      | 8107<br>E(C90) 41.9° 3511<br>E(C0) 34.4° 5209 |
| 1.0          | 1.79<br>1.37      | 4615<br>E(C90) 41.9° 360<br>E(C0) 34.4° 1302  |
| 1.5          | 2.69<br>2.05      | 2052<br>E(C90) 41.9° 424<br>E(C0) 34.4° 579   |
| 2.0          | 3.59<br>2.74      | 1154<br>E(C90) 41.9° 238<br>E(C0) 34.4° 355   |
| 2.5          | 4.49<br>3.42      | 739<br>E(C90) 41.9° 153<br>E(C0) 34.4° 208    |
| 3.0          | 5.38<br>4.11      | 513<br>E(C90) 41.9° 108<br>E(C0) 34.4° 145    |

## TECHNICAL DRAWINGS

