

## RANA Linear Surface&Suspended - Opal Diffuser

RANA LINEAR S 3KLM NW OPAL EM  
0051283



### Product features

- Surface or Suspended LED Linear luminaire with Opal diffuser, Dimensions: 1150mm x 87mm x 87mm, Direct, White Body, Emergency 3 hours maintained, Neutral White LED (4000K), 3210lm, 35W, 92lm/W efficacy, CRI>80, 3 SDCM (3-step MacAdam ellipse), Low LED Flicker (+/-5%), UGR<23, L90B10 at 50,000 hours, Electric Class1, Glow Wire Test 850°C



### PRODUCT OVERVIEW

Product name	RANA LINEAR S 3KLM NW OPAL EM
Technology	LED
Cap/Base	N/A
Housing	Steel
Mount	Ceiling surface mounting, Suspended
Fixture rating	Enclosed
Environment	Internal
General application	Office, Hospitality, Retail, Education
ETIM Class	EC002892
Warranty	5 years
Fixture luminous flux (lm)	3210
Luminaire efficacy (lm/W)	91.71
LOR (%)	100
Colour temperature (K)	4000
Light colour	Neutral White
CRI (Ra)	80
Colour Variation Initial (SDCM)	SDCM3
Colour Consistency (SDCM)	3
Glare control	< 23
Photobiological Risk Group	RG0
Luminous flux (emergency) (lm)	437
Total power consumption (W)	35
Electrical protection	Class I
Control gear type	Electronic ballast
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	IK01
Product EAN number	5410288512839

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### DATA TABLE

#### General data

<b>Product name</b>	RANA LINEAR S 3KLM NW OPAL EM
<b>Technology</b>	LED
<b>Cap/Base</b>	N/A
<b>Housing</b>	Steel
<b>Mount</b>	Ceiling surface mounting, Suspended
<b>Fixture rating</b>	Enclosed
<b>Environment</b>	Internal
<b>General application</b>	Office, Hospitality, Retail, Education
<b>Operating temperature range (°C)</b>	5°C...+30°C
<b>Performance ambient temperature Tq (°C)</b>	25
<b>ETIM Class</b>	EC002892
<b>Warranty</b>	5 years

#### Optical data

<b>Fixture luminous flux (lm)</b>	3210
<b>Luminaire efficacy (lm/W)</b>	91.71
<b>LOR (%)</b>	100
<b>Colour temperature (K)</b>	4000
<b>Light colour</b>	Neutral White
<b>CRI (Ra)</b>	80
<b>Colour Variation Initial (SDCM)</b>	SDCM3
<b>Colour Consistency (SDCM)</b>	3
<b>Adjustable chromaticity</b>	N
<b>Distribution type</b>	Symmetric
<b>Glare control</b>	< 23
<b>Photobiological Risk Group</b>	RG0
<b>Luminous flux (emergency) (lm)</b>	437
<b>Emergency duration (h)</b>	3.0

#### Electrical data

<b>Total power consumption (W)</b>	35
<b>Mains voltage (V)</b>	220-240V
<b>Lamp power factor</b>	0.95
<b>THD (at 230 V, 50 Hz, full load, at 100% dimming level) xx.x %</b>	20
<b>Electrical protection</b>	Class I
<b>Control gear type</b>	Electronic ballast
<b>Transformer required</b>	Yes
<b>Dimmable</b>	No
<b>Dimming method</b>	N/A
<b>Drive current (mA)</b>	300
<b>Inrush Current (A)</b>	22
<b>Inrush Duration (µs)</b>	250
<b>Glow Wire Test (°C)</b>	850

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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	40
Max. Luminaires per 13A C Breaker	51
Max. Luminaires per 16A C Breaker	63
Max. Luminaires per 20A C Breaker	80
Max. Luminaires per 10A B Breaker	15
Max. Luminaires per 13A B Breaker	31
Max. Luminaires per 16A B Breaker	25
Max. Luminaires per 20A B Breaker	48

### Lifetime data

Lifespan L70 B50	60000
Lifespan L70 B20	60000
Lifespan L70 B10	60000
Lifespan L80 B50	60000
Lifespan L80 B20	60000
Lifespan L80 B10	60000
Lifespan L90 B50	60000
Lifespan L90 B20	60000
Lifespan L90 B10	60000

### Physical data

Housing colour	RAL 9016 - Traffic white / Bezel
IP rating	IP20
IK rating	IK01
Diffuser finish	Opal
Diffuser material	PC Polycarbonate
Nominal Product Length (mm)	1150
Nominal Product Width (mm)	87
Nominal Product Height (mm)	87
Weight (kg)	3.45

### Packaging

Single packaging type	Carton
Product EAN number	5410288512839
Packaging single length / height (cm)	116.59
Packaging single width (cm)	10.52
Packaging single depth (cm)	10.01
DUN14 (outer)	05410288512839
Units per outer package	1
Packaging outer length / height (cm)	116.59
Packaging outer width (cm)	10.52
Packaging outer depth (cm)	10.01

### Safety data

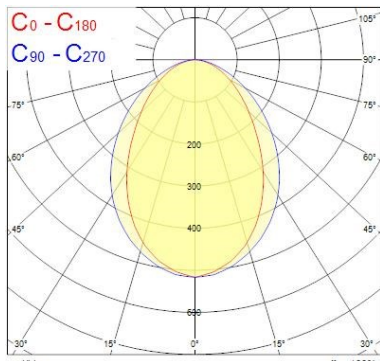
Optimal operating condition (°C)	5-30
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### PHOTOMETRY

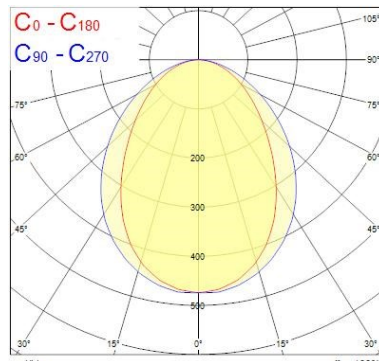


Distance [m]	Cone diameter [m]	E(0°)	E(C90)	E(C0)	Illuminance [lx]
0.5	1.13 0.90	8089	48.5° 809	38.5° 1480	
1.0	2.26 1.59	1522	48.5° 222	38.5° 396	
1.5	3.39 2.39	677	48.5° 99	38.5° 162	
2.0	4.52 3.18	351	48.5° 59	38.5° 91	
2.5	5.65 3.98	244	48.5° 38	38.5° 53	
3.0	6.78 4.77	169	48.5° 28	38.5° 41	

Distance [m]    Cone diameter [m]    Illuminance [lx]

— C0 - C180 (Half beam angle: 77.0°)

— C90 - C270 (Half beam angle: 37.0°)



Distance [m]	Cone diameter [m]	E(0°)	E(C90)	E(C0)	Illuminance [lx]
0.5	1.02 0.74	924	48.5° 161	38.5° 243	
1.0	2.04 1.48	233	48.5° 62	38.5° 61	
1.5	3.05 2.22	104	48.5° 13	38.5° 27	
2.0	4.07 2.96	58	48.5° 10	38.5° 15	
2.5	5.09 3.70	37	48.5° 6	38.5° 10	
3.0	6.11 4.44	26	48.5° 4	38.5° 7	

Distance [m]    Cone diameter [m]    Illuminance [lx]

— C0 - C180 (Half beam angle: 73.0°)

— C90 - C270 (Half beam angle: 31.0°)

### TECHNICAL DRAWINGS

