

Luminaire list

 Φ_{total}

6452 lm

 P_{total}

50.0 W

Luminous efficacy

129.0 lm/W

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
2	FAGERHULT	16087-20034	Notor 36 Beta nano rec 2400 LL 840 white single CLO	25.0 W	3226 lm	129.0 lm/W

Product data sheet

FAGERHULT - Notor 36 Beta nano rec 2400 LL 840 white single CLO



Article No.	16087-20034
P	25.0 W
Φ_{Lamp}	–
$\Phi_{\text{Luminaire}}$	3226 lm
η	–
Luminous efficacy	129.0 lm/W
CCT	4000 K
CRI	80

Installation

Recessed installation in suspended ceilings. Unventilated or ventilated ceilings. For installation in suspended ceilings with visible T-bars, VTB (24 mm) or one-piece suspended ceilings.

Connection

For permanent connection with 230 V; built-in LED ballast in luminaire. Single and Start luminaires in systems are equipped with 1.5 m connection cable 5 x 0.75 mm². System units are equipped with a change-over cable (5 x 1.5 mm²) and a quick-connector between the luminaire units. Use Configure for options on the type of connection cable and entry.

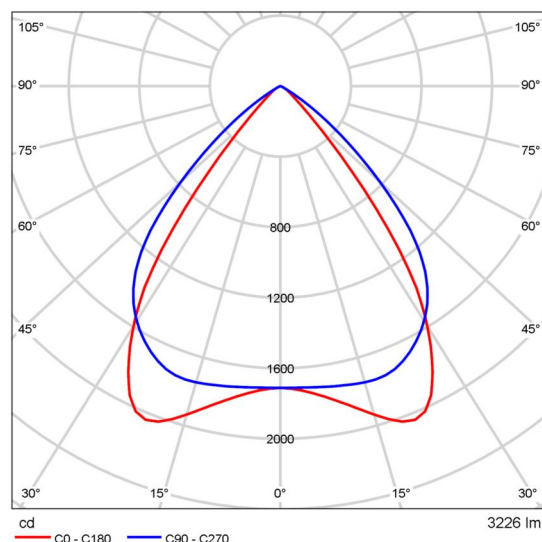
Design

Frame painted in white (RAL 9016), silver (RAL 7035 metallic) or black (RAL 9005). Endcaps included in Start/Single luminaires.

Louvre

Opal – opal plate in frosted acrylic (PMMA).

Beta Opti Nano – side and cross blades in satin matte, metallised aluminium with an integrated opal surface that minimises the risk of uncomfortable glare from the LEDs and multiple shadows.



Polar LDC

Glare evaluation according to RUG											
p Ceiling		70	70	50	50	30	70	70	50	50	30
p Walls		50	30	50	30	30	50	30	50	30	30
p Floor		20	20	20	20	20	20	20	20	20	20
Room size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	16.9	17.8	17.1	18.0	18.3	19.2	20.2	19.5	20.4	20.6
	3H	16.7	17.6	17.0	17.9	18.1	19.1	20.0	19.4	20.2	20.4
	4H	16.7	17.5	17.0	17.7	18.0	19.0	19.8	19.3	20.1	20.4
	6H	16.6	17.3	16.9	17.6	17.9	18.9	19.7	19.3	20.0	20.3
	8H	16.6	17.3	16.9	17.6	17.9	18.9	19.6	19.2	19.9	20.2
4H	12H	16.5	17.2	16.9	17.5	17.8	18.9	19.5	19.2	19.9	20.2
	2H	16.8	17.6	17.1	17.9	18.1	19.1	19.9	19.4	20.1	20.4
	3H	16.7	17.3	17.0	17.6	18.0	18.9	19.6	19.3	19.9	20.2
	4H	16.6	17.2	17.0	17.5	17.9	18.8	19.4	19.2	19.8	20.1
	6H	16.5	17.0	16.9	17.4	17.8	18.8	19.3	19.2	19.7	20.0
8H	8H	16.5	17.0	16.9	17.3	17.7	18.7	19.2	19.1	19.6	20.0
	12H	16.4	16.9	16.9	17.3	17.7	18.7	19.1	19.1	19.5	19.9
	4H	16.5	17.0	16.9	17.3	17.7	18.7	19.2	19.1	19.6	20.0
	6H	16.4	16.8	16.8	17.2	17.7	18.6	19.0	19.1	19.5	19.9
	8H	16.3	16.7	16.8	17.1	17.6	18.6	18.9	19.1	19.4	19.9
12H	12H	16.3	16.6	16.8	17.1	17.6	18.5	18.8	19.0	19.3	19.8
	4H	16.4	16.9	16.9	17.3	17.7	18.7	19.1	19.1	19.5	19.9
	6H	16.3	16.7	16.8	17.1	17.6	18.6	18.9	19.1	19.4	19.9
	8H	16.3	16.6	16.8	17.1	17.6	18.5	18.8	19.0	19.3	19.8
	Variation of the observer position for the luminaire distances S										
S = 1.0H		+3.4 / -6.5					+2.0 / -5.0				
S = 1.5H		+4.6 / -12.8					+3.5 / -15.3				
S = 2.0H		+6.5 / -14.6					+5.4 / -22.1				
Standard table		BK00					BK00				
Correction summand		-1.7					0.6				
Corrected glare indices referring to 3226lm Total luminous flux											

RUG diagram (SHR: 0.25)

Building 1

Luminaire list Φ_{total}

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Building 1 · Floor 1

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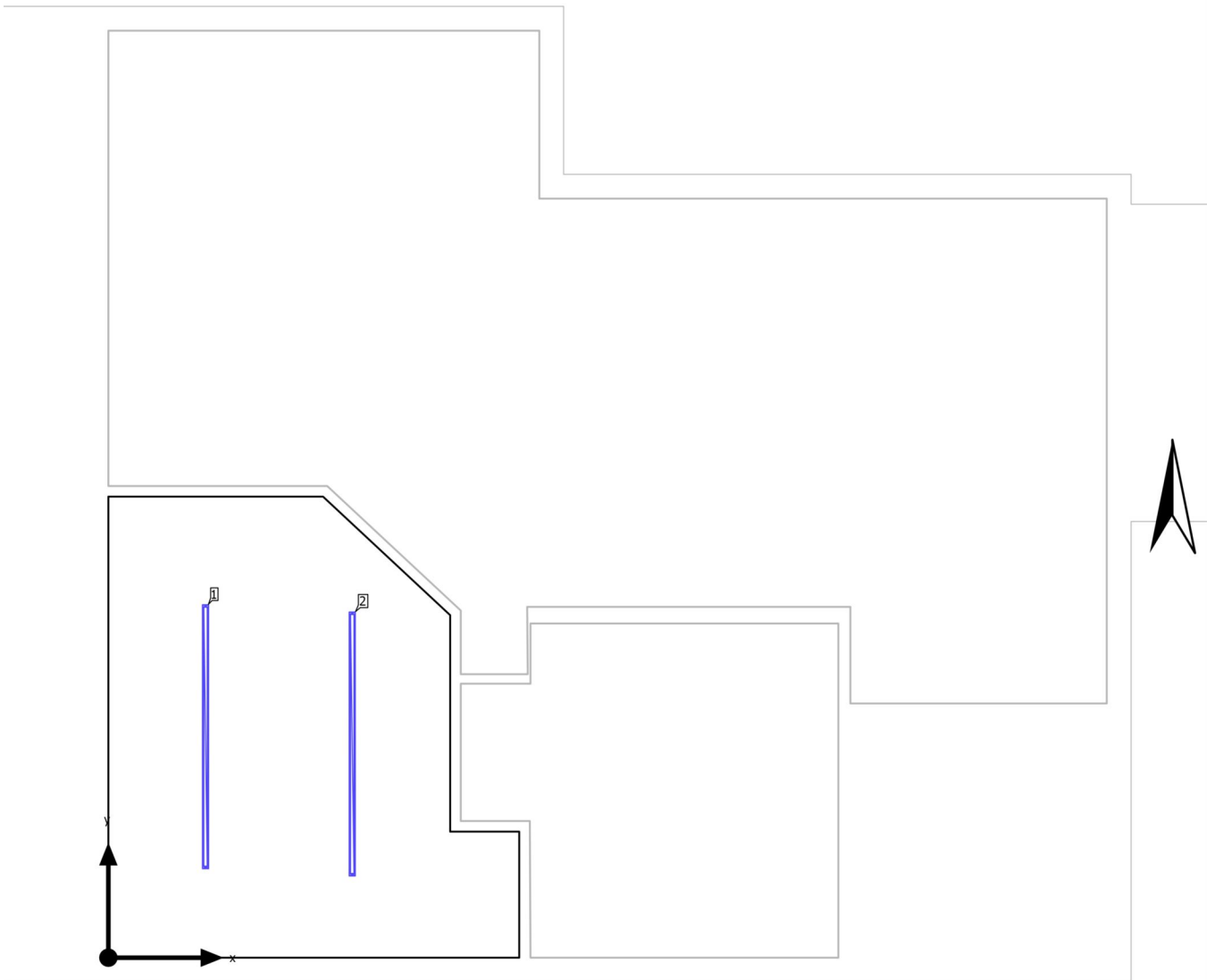
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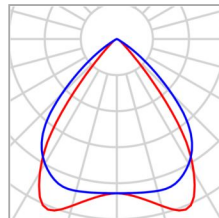
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Building 1 · Floor 1 · Room 5

Luminaire layout plan



Building 1 · Floor 1 · Room 5

Luminaire layout plan

Manufacturer	FAGERHULT	P	25.0 W
Article No.	16087-20034	$\Phi_{\text{Luminaire}}$	3226 lm
Article name	Notor 36 Beta nano rec 2400 LL 840 white single CLO		
Fitting	1x LED		

Individual luminaires

X	Y	Mounting height	Luminaire
0.879 m	2.000 m	2.401 m	1
2.207 m	1.934 m	2.401 m	2

Building 1 · Floor 1 · Room 5

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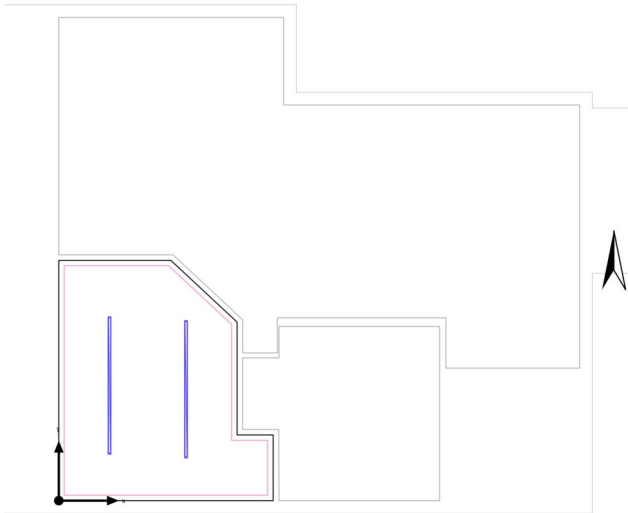
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Building 1 · Floor 1 · Room 5

Energy evaluation year

Annual energy consumption

	Uncontrolled	Controlled	Saving
Energy consumption (kWh/a)	71.5	45.2	26.3
LENI (kWh/(m² * a))	5.50	3.48	2.02
Costs (€/a)	21.45	13.57	7.88
CO ₂ (kg/a)	28.7	18.1	10.5

Daylight autonomy: 28 %

Planning data

Utilisation profile	Health care premises - Staff rooms (46.1 Staff room)
Target illuminance	500 lx
Utilisation times	7:00 - 18:00 o'clock
Days per Week	5 (Mon - Fri)