

**NOESI M
GENERAL CHARACTERISTICS**

Applications	Outdoor lighting
Optics	1E: Forward Wide E-L01; 1F: Front-Back V10; 1U: Roto-Wide U-V04; 13: Rotosymmetric 13°; 25: Rotosymmetric 25°; 40: Rotosymmetric 40°; 1H: Asymmetrical H-L20;
Colour temperature	2: Warm White 3,000K; 8: Neutral White 4,000K; 1: Cool White 5,500K;
CRI and color tolerance (SDCM)	Min. > 80, on request 90 (LED type: B; flux multiplier 0.8) Colour tolerance between several luminaires Max. 5 MacAdam steps; on request 3 MacAdam steps
Photobiological safety class	Exempt Group
Insulation class	Class I , Class II upon request
Degree of protection	IK09
IP Grade	IP66
Wiring	Quick plug-in IP65 connector
Dimensions	461 x 381 x 158mm
Weight	6 kg

ELECTRICAL CHARACTERISTICS

Power supply	220-240Vac 50/60Hz, su richiesta 120-270V
Power factor	> 0,97 (at full load)
Control system	1-10V, "virtual midnight" automatic dimming system up to 5 steps, CLO and DALI-2 function; Zhaga 18 on request
Operating temperature	-20°C +50°C
Optical unit life (Ta from -10°C to 45°C)	L90 B10 > 100.000 hr @ tA max 50 °C

MATERIALS

Fixing	By means of an aluminium bracket
Heatsink	Die-cast aluminium
Frame	Die-cast aluminium
Optics	Multi-layer PMMA lenses
Screen	Flat tempered glass 5 mm thick, resistant to thermal shock and impact

The characteristics of the product are subject to change and will be confirmed when the order is placed. The values indicated are to be considered with a tolerance of +/- 7% on the LED lux and +/- 5% on the absorbed power.

POWER AND OPTICAL FLUX | 1E
(T_{amb}=25°C)

CODE	4000K			3000K		
	Power (W)	Flux (lm)	Efficiency	Power (W)	Flux (lm)	Efficiency
NOMA__012__	61,6	8.906	145	61,6	8.563	139
NOMA__022__	94,0	13.094	139	94,0	12.589	134
NOMA__032__	137,0	18.078	132	137,0	17.382	127

POWER AND OPTICAL FLUX | 1F
(T_{amb}=25°C)

CODE	4000K			3000K		
	Power (W)	Flux (lm)	Efficiency	Power (W)	Flux (lm)	Efficiency
NOMA__012__	61,6	9.950	162	61,6	9.566	155
NOMA__022__	94,0	14.627	156	94,0	14.064	150
NOMA__032__	137,0	20.196	147	137,0	19.418	142

POWER AND OPTICAL FLUX | 1U
(T_{amb}=25°C)

CODE	4000K			3000K		
	Power (W)	Flux (lm)	Efficiency	Power (W)	Flux (lm)	Efficiency
NOMA__012__	61,6	10.540	171	61,6	10.134	165
NOMA__022__	94,0	15.496	165	94,0	14.899	159
NOMA__032__	137,0	21.396	156	137,0	20.571	150

POWER AND OPTICAL FLUX | 13
(T_{amb}=25°C)

CODE	4000K			3000K		
	Power (W)	Flux (lm)	Efficiency	Power (W)	Flux (lm)	Efficiency
NOMA__012__	61,6	8.562	139	61,6	8.049	131
NOMA__022__	94,0	13.066	139	94,0	12.282	131
NOMA__032__	137,0	19.043	139	137,0	17.900	131

POWER AND OPTICAL FLUX | 25
(T_{amb}=25°C)

CODE	4000K			3000K		
	Power (W)	Flux (lm)	Efficiency	Power (W)	Flux (lm)	Efficiency
NOMA__012__	61,6	8.421	137	61,6	7.915	128
NOMA__022__	94,0	12.850	137	94,0	12.079	129
NOMA__032__	137,0	18.728	137	137,0	17.604	128

POWER AND OPTICAL FLUX | 40
(T_{amb}=25°C)

CODE	4000K			3000K		
	Power (W)	Flux (lm)	Efficiency	Power (W)	Flux (lm)	Efficiency
NOMA__012__	61,6	7.885	128	61,6	7.412	120
NOMA__022__	94,0	12.032	128	94,0	11.310	120
NOMA__032__	137,0	17.536	128	137,0	16.484	120

** Flux tolerance +/- 5%.
Other powers and flows on request.
External connections on request.

POWER AND OPTICAL FLUX | 1H
(T_{amb}=25°C)

CODE	4000K			3000K		
	Power (W)	Flux (lm)	Efficiency	Power (W)	Flux (lm)	Efficiency
NOMA__012__	61,6	10.215	166	61,6	9.821	159
NOMA__022__	94,0	15.017	160	94,0	14.439	154
NOMA__032__	137,0	20.735	151	137,0	19.936	146

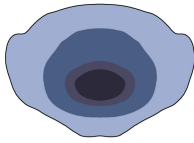
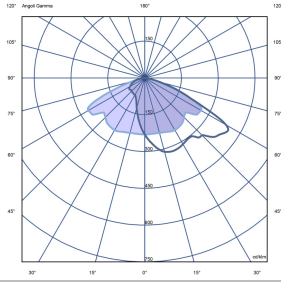
** Flux tolerance +/- 5%.
Other powers and flows on request.
External connections on request.

OPTICS

Product Data Sheet

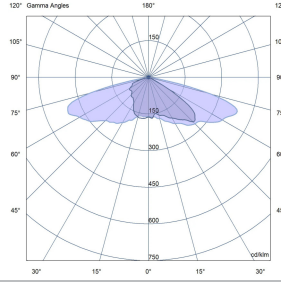
Outdoor lighting

Forward Wide E-L01



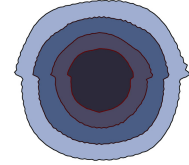
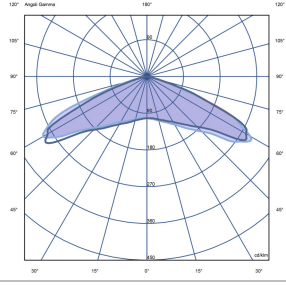
Asymmetrical optics - Very wide beam
L / H = 1,5-2,0

Front-Back V10



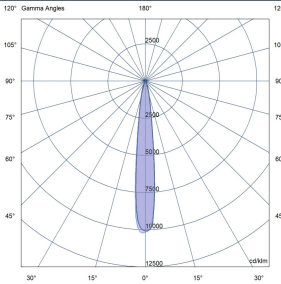
Asymmetrical Street Optics - Front-Back
L / H = 1,2 ÷ 1,5

Roto-Wide U-V04



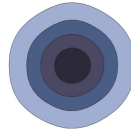
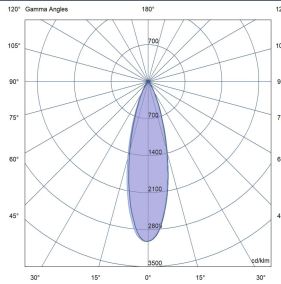
Rotosymmetrical road optics - Wide beam

Rotosymmetrical 13°



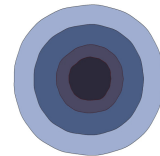
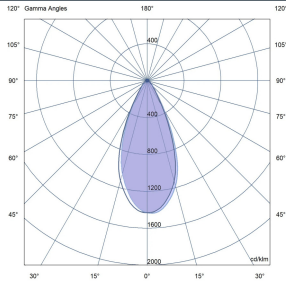
13° Rotosymmetrical Optics

Rotosymmetrical 25°



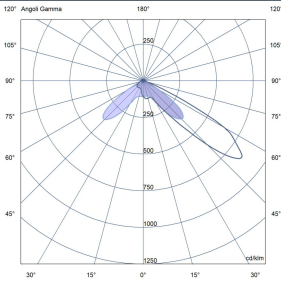
25° Rotosymmetrical Optics

Rotosymmetrical 40°



40° Rotosymmetrical Optics

Asymmetrical H-L20



Asymmetrical Front Optics
L / H = 1,8 - 2,0

** Flux tolerance +/- 5%.
Other powers and flows on request.
External connections on request.

CODING									
	Optics	LED Color Temperature	Power *	Insulation Class (Input Range)	Control	Various	Cable	Protection	Program
NOMA	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
	1E Forward Wide E-L01	2 Warm White 3,000K	01 61.6	1 Class I (120-270V)	N No Dimming	L Standard	1 0,4 m	0 No	00 No dimming
	1F Front-Back V10	8 Neutral White 4,000K	02 94		Y Zhaga 18 + Virtual Midnight** + CLO	B Extra Suppressor			0M Virtual Midnight -2h70%
	1U Roto-Wide U-V04	1 Cool White 5,500K	03 137		F NEMA+Photocell				1Z Virtual Midnight -2h70% + CLO
	13 Rotosymmetric 13°				D Dali				
	25 Rotosymmetric 25°				S Nema Socket				
	40 Rotosymmetric 40°				A SkylarkNet+Virtual Midnight+CLO				1C No Dimming + CLO
	1H Asymmetrical H-L20								

** Flux tolerance +/- 5%.
Other powers and flows on request.
External connections on request.