

### Characteristic

Ingress protection of optical system and driver	IP 66
Protection class	II
Nominal input voltage	220 - 240 V AC
Frequency	50/60 Hz
Power factor	≥0.95
Inrush electric current	53A / 200µs (for LUNOIDA LED 48W), 57A / 210µs (for LUNOIDA LED 60, 72W)
Level of surge protection	10kV
Control system ready input	DALI
Operating temperatures	-40°C to +40°C
Material <sup>1)</sup>	cast aluminium, paint coated
Colour	RAL 7038
Mounting	pole top mounted Ø60 -Ø76x100, or on the extension arm; recommended mount height 6 to 10 m
Tilt angle	0° to 110° every 4,5°
Optical system	PMMA lens, replaceable LED module
LEDs lifetime L90F10	>50 000h
Warranty	5 years



**CREE**  
LEDs



**Technical parameters**

Type	LUNOIDA LED 48		LUNOIDA LED 60		LUNOIDA LED 72	
Code	2202033/6/... <sup>2)</sup>	2202033/3/... <sup>2)</sup>	2202034/6/... <sup>2)</sup>	2202034/3/... <sup>2)</sup>	2202035/6/... <sup>2)</sup>	2202035/3/... <sup>2)</sup>
Correlated colour temperature [K]	5 000	3 500	5 000	3 500	5 000	3 500
Color rendering index CRI	75 <sup>3)</sup>	>80	75 <sup>3)</sup>	>80	75 <sup>3)</sup>	>80
Corrective factor S/P	1,8	1,45	1,8	1,45	1,8	1,45
LEDs type	CREE XT-E		CREE XP-L		CREE XP-L	
LEDs quantity	24					
Supply current [mA]	650		850		1 000	
LEDs power [W]	48		60		72	
LEDs luminous flux <sup>1)</sup> [lm]	5 950	5 150	8 650	8 050	10 450	9 600
<b>Power consumption [W]</b>	<b>55</b>		<b>68</b>		<b>80</b>	
<b>Luminaire luminous flux<sup>1)</sup> [lm]</b>	5 500	4 750	<b>8 100</b>	<b>7 500</b>	<b>9 750</b>	<b>8 950</b>
Luminaire efficacy [lm/W]	100	86	119	110	122	112
Weight [kg]	12					
Volume [m <sup>3</sup> ]	0,07					
Windage [m <sup>2</sup> ]	0,13					

- 1) tolerance +/- 3% due to LEDs accuracy
- 2) code of chosen optics configuration - example: 2202033/6/T2 is a LUNOIDA LED 48 with optical system T2
- 3) tolerance +/-2

- Low voltage directive LVD 2006/95/WE, norm PN-EN 60598-1, PN-EN 60598-2-3
- Directive EMC 2004/108/WE, norms: PN-EN 55015, PN-EN 61547, PN-EN 61000-3-2, PN-EN 61000-3-3
- Shown parameters based on measurements according to IESNA LM 79-08

**Acceptable quantity of luminaires LUNOIDA LED on one circuit, protected by:**

Overcurrent switches MCB type B or C									Fuse – type gG and GL								
		2A	4A	6A	10A	16A	20A	25A			2A	4A	6A	10A	16A	20A	25A
LUNOIDA LED 48, 60, 72W	Type B	1	2	4	7	12	15	18	LUNOIDA LED 48W	4	8	12	19	31	39	49	
	Type C	1	4	7	12	20	24	31	LUNOIDA LED 60, 72W	2	6	9	17	27	34	43	

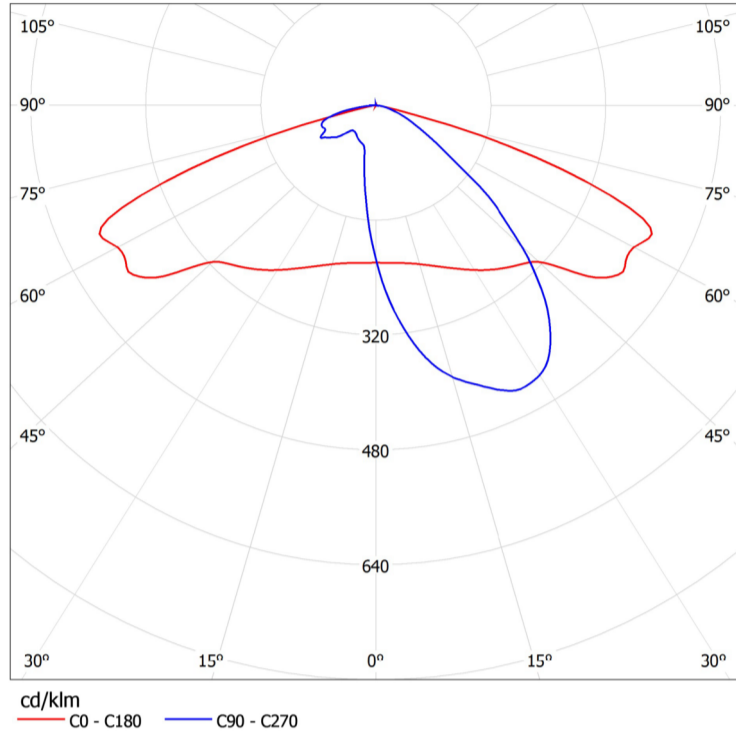
**Luminaire LUNOIDA LED in standard has following functions of intelligent power supply:**

- Connection to outside control system by DALI interface (operation of analog signal 1-10V as an option),
- Possibility of programming multistage dimming of luminaire, up to 5 intervals in the range of from 10 to 100% of nominal power,
- Temperature protection of LED module (from overheating) in case of unintentional luminaire operation during the,
- Regulation of power / luminous flux – the option of setting another value than the catalogue in the range of 30-100% of nominal one,

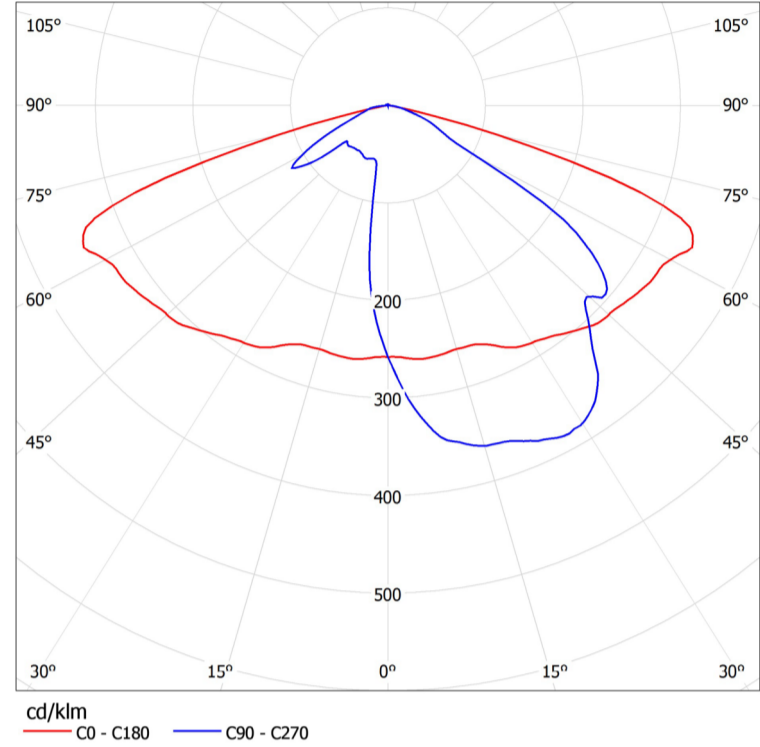


Optics configurations for LUNOIDA LED

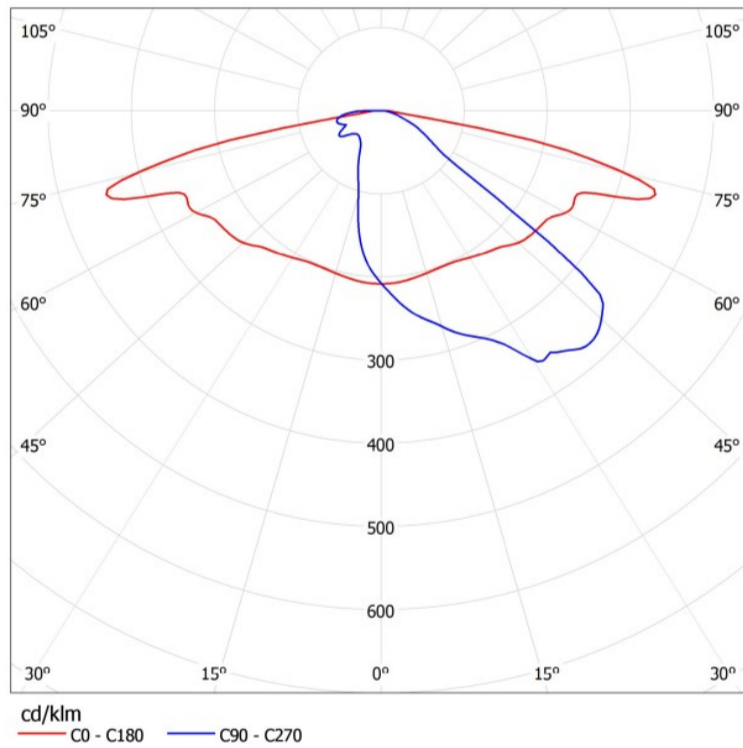
**T2**



**T3**



**ME**



**DW**

