



Łukasiewicz- IMiF PREDOM Division
53, Krakowiaków Str.
02-255 WARSAW, POLAND

ENEC Certification Body registered under ID 30. Validity of ENEC+ licences can be checked at www.enecplus.eu
 Jednostka Certyfikująca ENEC zarejestrowana pod numerem ID 30. Ważność licencji ENEC+ można sprawdzić na www.enecplus.eu

LICENCE

to use the ENEC+ Mark



Licence/Certificate No. / Licencja/ Certyfikat Nr **0077/ENEC+/22**

Under the conditions given in the following pages of this document, the licence to use the ENEC+ Mark in conjunction with the suffix 30, as shown above, has been issued to:

Zgodnie z warunkami przedstawionymi na następujących stronach tego dokumentu, licencja na używanie Znaku ENEC+ w połączeniu z przyrostkiem 30, jak ukazano powyżej, została wydana dla:

LUG Light Factory Sp. z o.o.
 ul. Gorzowska 11; 65-127 Zielona Góra, Poland

For the product: *Dla wyrobów:*

Luminaires for road and street lighting *Oprawy oświetleniowe drogowe i uliczne*

Trade name(s): *Znak towarowy:*



Type(s)/Model(s): *Typ(y), model(e):*

URBINO LED S family – see the Appendix/ *szczegóły – patrz Załącznik*

Complying with the following EPRS for performance: *Zgodnymi z następującym EPRS dot. cech funkcjonalnych*

EPRS 003:2018-05 based on/ *opartym na*

EN 62722-2-1:2016 – see the test report / *patrz raport z badań*

B10-3/102/B/22 dated/ *z dnia* 21.07.2022 performed by the Testing Laboratory Łukasiewicz-IMiF PREDOM Division (Accreditation PCA AB 003) + (Appendix No 1 – lists of the luminaires – on CD).

This ENEC+ Licence/Certificate is only valid in conjunction with: *Niniejsza Licencja/certyfikat ENEC+ jest ważna tylko w połączeniu z*

ENEC Licence/Certificate No.: *Licencją/ Certyfikatem ENEC Nr:*

0288/ENEC/22 dated 15-07-2022 **issued by:** Łukasiewicz- IMiF PREDOM Division

Date: *Data* 29-07-2022

Signatures:

Name:

Józef Foks

Filip Walczak

Position:

Certification Office
 Łukasiewicz- IMiF PREDOM
 Division

Leader of the Łukasiewicz- IMiF
 PREDOM Division

This licence has been issued under the presumption and conditional on the fact that the licensee holds all necessary legal rights with regard to the product presented for testing and certification.

Niniejsza licencja została wydana zgodnie z założeniem i pod warunkiem, że licencjodawca posiada wszelkie niezbędne prawa w odniesieniu do wyrobu przedstawionego do badań i certyfikacji.

Additional information – see the Appendix. *Dodatkowe informacje – patrz Załącznik.*



Łukasiewicz- IMiF PREDOM Division
53, Krakowiaków Str.
02-255 WARSAW, POLAND

APPENDIX TO THE LICENCE No. 0077/ENEC+/22 – page 1/4

Name and address of the license/certificate holder:	LUG Light Factory Sp. z.o.o. ul. Gorzowska 11; 65-127 Zielona Góra, Poland									
Name and address of manufacturer:	LUG Light Factory Sp. z.o.o. ul. Gorzowska 11; 65-127 Zielona Góra, Poland									
Name and address of manufacturing place:	LUG Light Factory Sp. z.o.o. ul. Gorzowska 11; 65-127 Zielona Góra, Poland									
Name of product:	Luminaires for road and street lighting									
Type (model):	URBINO LED S family (see below)									
Trade mark:										
Technical data:										
rated voltage	220-240V									
rated frequency	50/60Hz									
max power	74W									
type of lamp	LED modules (see below)									
protection against electric shock	Class II									
degree of protection	IP66; IK10									
ta	<table border="1"> <tr> <td>ta</td> <td>4,5W - 36W</td> <td>Ta= -40°C / -35°C* / -30°C** ... +55°C</td> </tr> <tr> <td></td> <td>37W - 51W</td> <td>Ta= -40°C / -35°C* / -30°C**/-25°C*** ... +50°C</td> </tr> <tr> <td></td> <td>52W - 74W</td> <td>Ta= -40°C / -35°C* / -30°C**/-25°C*** ... +40°C</td> </tr> </table> <p>* - For luminaires equipped with: ▪ Vossloh Schwabe SP/230/10K/i</p> <p>** - For luminaires equipped with: ▪ SPD Vossloh Schwabe SP/230/10K ▪ Xi FP 110W 0.3-0.1A NLP C150 230V ▪ Tridonic LCA 120W 300-1050mA</p> <p>*** - For luminaires equipped with: ▪ LACROIX DL-PAK 70</p>	ta	4,5W - 36W	Ta= -40°C / -35°C* / -30°C** ... +55°C		37W - 51W	Ta= -40°C / -35°C* / -30°C**/-25°C*** ... +50°C		52W - 74W	Ta= -40°C / -35°C* / -30°C**/-25°C*** ... +40°C
ta	4,5W - 36W	Ta= -40°C / -35°C* / -30°C** ... +55°C								
	37W - 51W	Ta= -40°C / -35°C* / -30°C**/-25°C*** ... +50°C								
	52W - 74W	Ta= -40°C / -35°C* / -30°C**/-25°C*** ... +40°C								
Input Power (W) :	URBINO LED S family cl II – series – from 4,5W to 74W For details see the Appendix No.1 – Lists of the luminaires – on CD									
Luminous Flux (lm) :	URBINO LED S family cl II – series – from 400lm to 10800lm For details see the Appendix No.1 – Lists of the luminaires – on CD									
Colour temperature (CCT) :	2200 2700 3000 4000 5700 6500									
Colour rendering index (CRI) :	CRI>70 CRI>80									
Efficacy (lm/W) :	URBINO LED S family cl II – series – from 79lm/W to 164lm/W For details see the Appendix No.1 – Lists of the luminaires – on CD									
Lamp Type/Rating :	ML21XXXYY.WQQQ.UUV (LUXEON 5050 modules) (choice sheet below) ML21XXXYY.WQQQ.UUV <table border="0"> <tr> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td> </tr> </table> <p>Designations used on the marking of LED boards:</p> <p>1. ML - PCB designation (ML – LED module):</p> <p>2. 21 - Year of the project:</p> <p>3. XXX - Number of the project: Luxeon modules: 660, 661, 663, 670, 671, 672, 673, 680, 681, 682, 683, 690, 691, 692, 693</p> <p>4. YY - Project variant (PCB design, milling, dimensions, soldermask color, laminate thickness, LED configuration). 00...99 Light color: W: White</p> <p>5. W - CRI and CCT: 722: CRI 70 and 2200K 727: CRI 70 and 2700K 730: CRI 70 and 3000K 735: CRI 70 and 3500K 740: CRI 70 and 4000K 750: CRI 70 and 5000K 757: CRI 70 and 5700K 765: CRI 70 and 6500K 822: CRI 80 and 2200K 827: CRI 80 and 2700K 830: CRI 80 and 3000K 835: CRI 80 and 3500K 840: CRI 80 and 4000K 850: CRI 80 and 5000K 857: CRI 80 and 5700K 865: CRI 80 and 6500K</p> <p>7. UU - Assembly variant (selected components not mounted). 01...99</p> <p>8. V - NTC Thermistor type: A - none B - 10K C - 47K</p>	1	2	3	4	5	6	7	8	
1	2	3	4	5	6	7	8			



Łukasiewicz- IMiF PREDOM Division
53, Krakowiaków Str.
02-255 WARSAW, POLAND

APPENDIX TO THE LICENCE No. 0077/ENEC+/22 – page 2/4

	<p>ML21XXXYY.WQQQ.UUV (CREE XPG3 modules) (choice sheet below) ML21XXXYY.WQQQ.UUV</p> <p style="text-align: center;">1 2 3 4 5 6 7 8</p> <p>Designations used on the marking of LED boards:</p> <p>1. ML - PCB designation (ML – LED module): 2. 21 - Year of the project: 3. XXX - Number of the project: Cree modules: 600, 601, 610, 611 4. YY - Project variant (PCB design, milling, dimensions, soldermask color, laminate thickness, LED configuration): 00..99 5. W - Light color: W - White 6. QQQ - CRI and CCT 722: CRI 70 and 2200K 727: CRI 70 and 2700K 730: CRI 70 and 3000K 735: CRI 70 and 3500K 740: CRI 70 and 4000K 750: CRI 70 and 5000K 757: CRI 70 and 5700K 765: CRI 70 and 6500K 822: CRI 80 and 2200K 827: CRI 80 and 2700K 830: CRI 80 and 3000K 835: CRI 80 and 3500K 840: CRI 80 and 4000K 850: CRI 80 and 5000K 857: CRI 80 and 5700K 865: CRI 80 and 6500K 7. UU - Assembly variant (selected components not mounted): 01..99 8. V - NTC Thermistor type: A - none B - 10K C - 47K</p>
Luminaire (Type A, B, C) :	Type A - Luminaires using LED modules where compliance with EN 62717 has been proven
Ambient Temperature Rating (ta) :	25°C

Choice sheet of the luminaires URBINO LED S family cl II – series:

Example of symbol:

130772.7LR7B40S895.201.N.P

1 2 3 4 5 6 7 8 9

Designations used on the marking of luminaires (some designation may not appear in the name) :

1	13077 13078	-	Code of the series URBINO LED S - XPG3 SERIES Code of the series URBINO LED S - LUXEON SERIES
2	2	-	Color: 2: grey 5: graphite 0: another
3	7L	-	Type of power supply: 2L - DIMM 1-10V 3L - DALI 5L - on-off 6L - on-off / DALI 7L - ZHAGA D4i PL - programmable
4	R7	-	CRI: R7 = 70-79 R8 = 80-89
5	B40	-	Color temperature: B22 = 2200 B27 = 2700 B30 = 3000 B40 = 4000 B57 = 5700 B65 = 6500
6	S895	-	Max. luminous flux (e.g. S895 = 8950lm)
7	2	-	Safety Class II



Łukasiewicz- IMiF PREDOM Division
53, Krakowiaków Str.
02-255 WARSAW, POLAND

APPENDIX TO THE LICENCE No. 0077/ENEC+/22 – page 3/4

8	01	-	Optic: 01 O1 - for road lighting type O1 02 O2 - for road lighting type O2 ... 99 O99 - for road lighting type O99
9	N.P	-	Additional equipment A - additional corrosion protection B - Tool-free access to the LED Driver U - ϕ 76mm pole N - NEMA Socket Z - ZHAGA Socket T - NTC Sensor W - Twilight Sensor V - Surge Device Protector 10kV P- Anti pressure vent I- iBloc ("URBAN" smart city system) K- Knife switch connector

Information on LED Modules:

Luminaire	Used LED module	LED module ratings	ENEC for luminaire	Report for module
URBINO LED S - family	<p>LUXEON 5050 modules</p> <p>ML21XXXYY.WQQQ.UUV</p> <p>1 2 3 4 5 6 7 8</p> <p>Designations used on the marking of LED boards:</p> <p>1. ML - PCB designation (ML – LED module): 2. 21 - Year of the project 3. XXX - Number of the project: Luxeon modules: 660, 661, 663, 670, 671, 672, 673, 680, 681, 682, 683, 690, 691, 692, 693 4. YY - Project variant (PCB design, milling, dimensions, soldermask color, laminate thickness, LED configuration): 00...99 Light color: W: White 6. QQQ - CRI and CCT: 722: CRI 70 and 2200K 727: CRI 70 and 2700K 730: CRI 70 and 3000K 735: CRI 70 and 3500K 740: CRI 70 and 4000K 750: CRI 70 and 5000K 757: CRI 70 and 5700K 765: CRI 70 and 6500K 822: CRI 80 and 2200K 827: CRI 80 and 2700K 830: CRI 80 and 3000K 835: CRI 80 and 3500K 840: CRI 80 and 4000K 850: CRI 80 and 5000K 857: CRI 80 and 5700K 865: CRI 80 and 6500K 7. UU - Assembly variant (selected components not mounted): 01.. 99 8. V - NTC Thermistor type: A - none B - 10K C - 47K</p>	Max 1200mA	0288/ENEC/22 dated 15-07-2022	ENEC+ for modules: 0066/ENEC+/21 Report No. Z7-3/144/B/21 Ł-IMiF PREDOM Division
	<p>CREE XPG3 modules</p> <p>ML21XXXYY.WQQQ.UUV</p> <p>1 2 3 4 5 6 7 8</p> <p>Designations used on the marking of LED boards:</p> <p>1. ML - PCB designation (ML – LED module) 2. 21 - Year of the project 3. XXX - Number of the project: Cree modules: 600, 601, 610, 611 4. YY - Project variant (PCB design, milling, dimensions, soldermask color, laminate thickness, LED configuration): 00...99 Light color: W: White 6. QQQ - CRI and CCT: 722: CRI 70 and 2200K 727: CRI 70 and 2700K 730: CRI 70 and 3000K 735: CRI 70 and 3500K 740: CRI 70 and 4000K 750: CRI 70 and 5000K 757: CRI 70 and 5700K 765: CRI 70 and 6500K 822: CRI 80 and 2200K</p>			ENEC+ for modules: 0078/ENEC+/22 Report No. B10-3/090/B/22 Ł-IMiF PREDOM Division



Łukasiewicz- IMiF PREDOM Division
53, Krakowiaków Str.
02-255 WARSAW, POLAND

APPENDIX TO THE LICENCE No. 0077/ENEC+/22 – page 4/4

		827: CRI 80 and 2700K 830: CRI 80 and 3000K 835: CRI 80 and 3500K 840: CRI 80 and 4000K 850: CRI 80 and 5000K 857: CRI 80 and 5700K 865: CRI 80 and 6500K			
	7. UU	- Assembly variant (selected components not mounted): 01...99			
	8. V	- NTC Thermistor type A - none B - 10K C - 47K			

Possible configurations of luminaires and more information - see the Appendix No.1 to the TR B10-3/102/B/22 – Lists of the luminaires – on CD

Certification Body:

Łukasiewicz- IMiF PREDOM Division

Place: **WARSAW**

Signed:

Józef Foks

Filip Walczak

Date: **29-07-2022**


.....
Certification Office
Łukasiewicz- IMiF PREDOM
Division


.....
Leader of the Łukasiewicz- IMiF
PREDOM Division