

220-240V  
50/60 HzIK  
03IP  
20/40

Modern surface mounted luminaire for LED light sources emitting light with it's entire diffuser surface. The subject of modification is adapting the luminaire to a surface-mounted and economical version.

**TECHNICAL DATA**
**Mounting:** directly on the ceiling

**Body:** powder-painted steel sheet

**Colour:** white

**Diffuser:** opal plexiglass (PLX)

**ELECTRICAL DATA**
**Power supply efficiency:** 88%

**Power:** 220-240V 50/60Hz

**Includes light source:** yes

**Type of equipment:** ED

**Electrical connection:** max 2x1,5 mm<sup>2</sup> wire

**Light distribution:** rotationally-symmetric

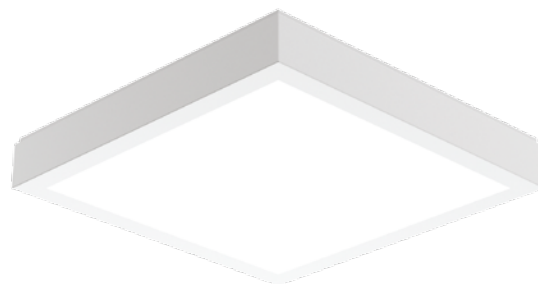
**OPTICAL DATA**
**Way of lighting:** direct

**GENERAL DATA**
**Lifetime (L80B10):** 100 000 h

**Lifetime (TM21 L90B10):** 30 000 h

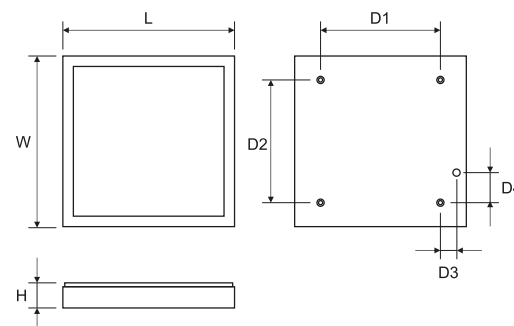
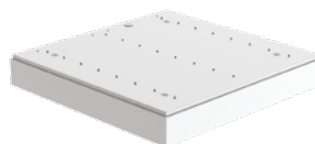
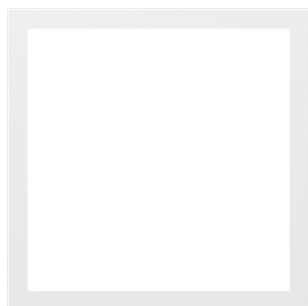
**Operating temperature range:** 0° C ... +40° C

**Warranty:** 3 years

**Application:** offices, classrooms, auditorium


Code	Luminaire power [W]	Lumen luminaire [lm]	Efficacy [lm/W]	Colour temperature [K]	CRI/Ra
903061.00918	40	4300	108	4000	≥80

Code	Dimensions [mm] L W H D1 D2 D3 D4	Pallet quantity	Quantity in package	Net weight [kg]
903061.00918	605 605 95 424 430 55 106	36	1	4.4


**OTHER PICTURES**


Luminous flux tolerance +/- 10%.

Power tolerance +/- 5%.

Lighting beam, light intensity distribution and light efficiency were examined in accordance with the EN ISO 17025:2005 norm for EN13032 norm series and the LM-79 norm.

## PHOTOMETRIC TEST REPORT LM79 & EN 13032



LUG Light Factory Ltd ul. Gorzowska 11 65-127 Zielona Góra, POLAND KRS 0000290498 REGON 080212116 NIP PL 929-17-85-452		LUG Testing Laboratory address ul. Nowa 7 66-002 Nowy Kisielin, POLAND	TEST SPECIFICATION – STANDARDS: PN – EN 13032 – 4 :2015 LM79 – 08
Test Report No./Test protocol BF_06_6045_18		Tested by: Krzysztof Olek	Compiled by: Krzysztof Olek
Sample No. 327/1/18		Approved by: Marcin Białas	Client name: LUG Light Factory
Date :	2018-10-11	Model name:	6045 LUGCLASSIC LB 600x600 nt 4350lm 840 PLX biały
Index:	903061.00918	Company:	LUG Light Factory
This protocol shall not be reproduced except in full without the written approval of the Laboratory. The results in this report apply to the test sample(s) mentioned above at the time of the testing period only and are not to be used to indicate applicability to other similar products.			

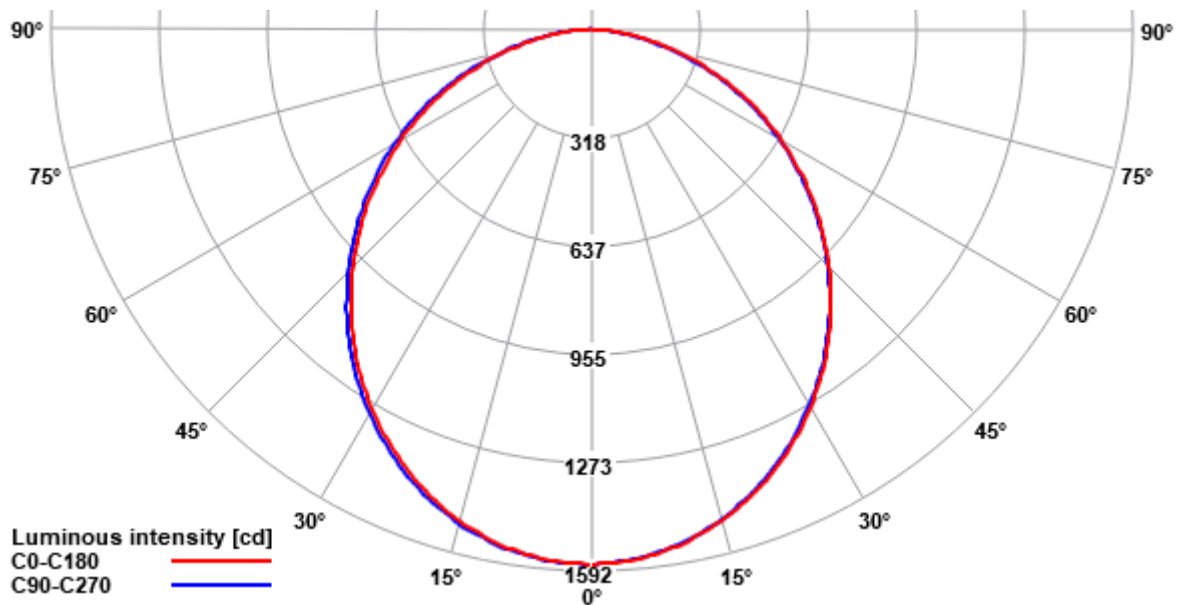
### Eulumdat Fields

<p><b>Dimensions of luminaire</b> Length: 604 mm Width: 604 mm Height: 93 mm</p> <p><b>Dimensions of luminous area</b> Length: 525 mm Width: 525 mm C0-plane 0 mm C90-plane 0 mm C180-plane 0 mm C270-plane 0 mm</p> <p><b>Utilization factors:</b> k = 0.60 0,291      k = 2.00 0,680 k = 0.80 0,379      k = 2.50 0,730 k = 1.00 0,457      k = 3.00 0,768 k = 1.25 0,533      k = 4.00 0,819 k = 1.50 0,591      k = 5.00 0,850</p>	<p><b>Lamps:</b> Type of lamps: LED Total luminous flux: 4275,86 lm Color temperature: 3956.55 K Color rendering index: 82,12 Wattage including ballast: 41,13 W</p> <p><b>Electrical parameters:</b> U = 229,717 V I = 0,185 A P = 41,129 W Power factor = 0,968 Power apparent = 42,475 VA Power Reactive = -10,609 var Frequency = 50,002 Hz THDI = 13,508 % Temperature = 25,0 C</p>
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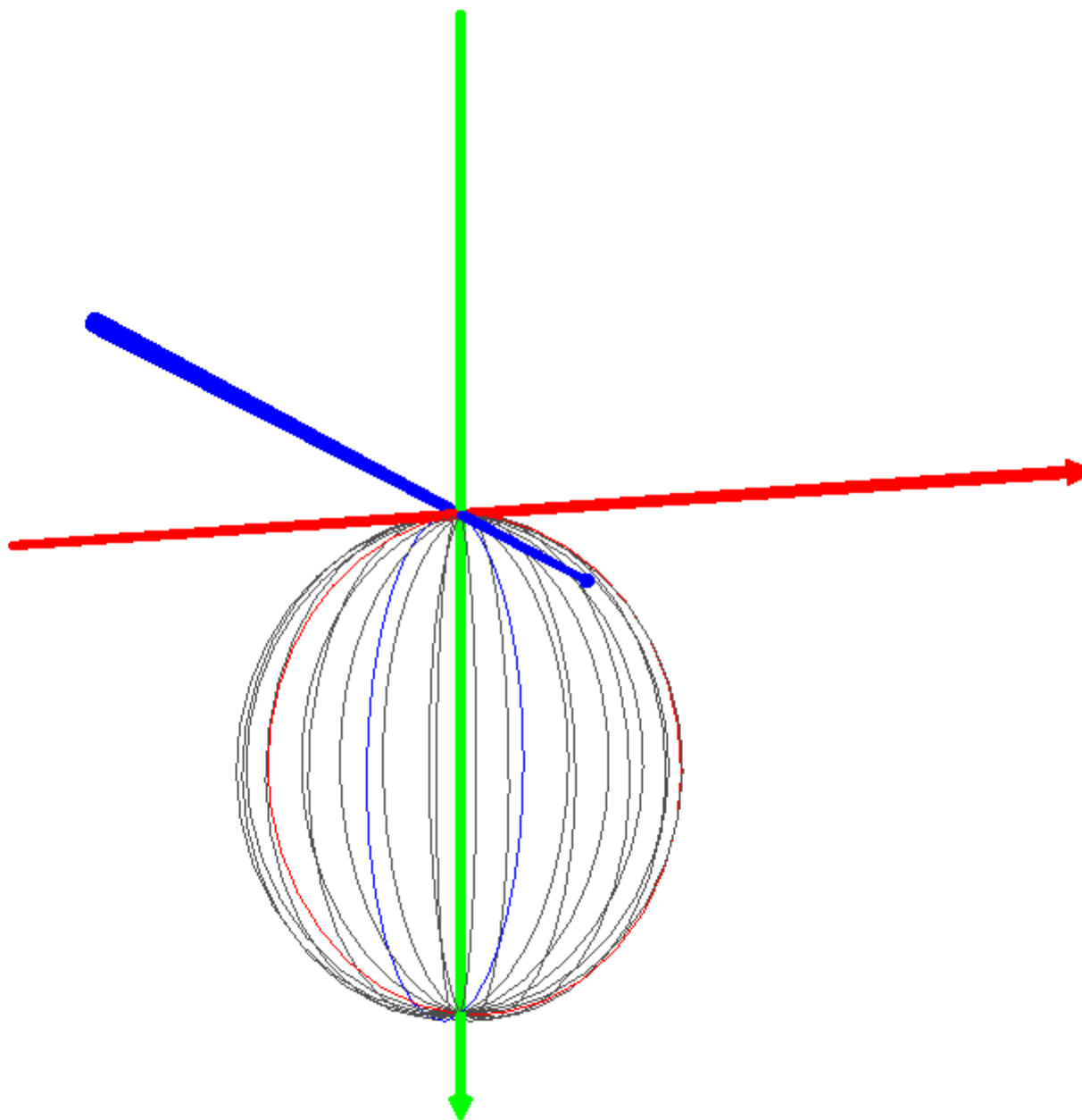
## Goniometric measurement results

Total flux (utilized luminaire flux)	4275,86 lm
Flux in lower hemisphere	100,00 %
Flux in upper hemisphere	0,00 %
Maximum luminous intensity	1576,08 cd
Light output ratio (LOR)	100,00 %
Luminous efficacy	103,96 lm/W

## Light intensity distribution diagram



### 3D Chart



## Legend



- C0-C180



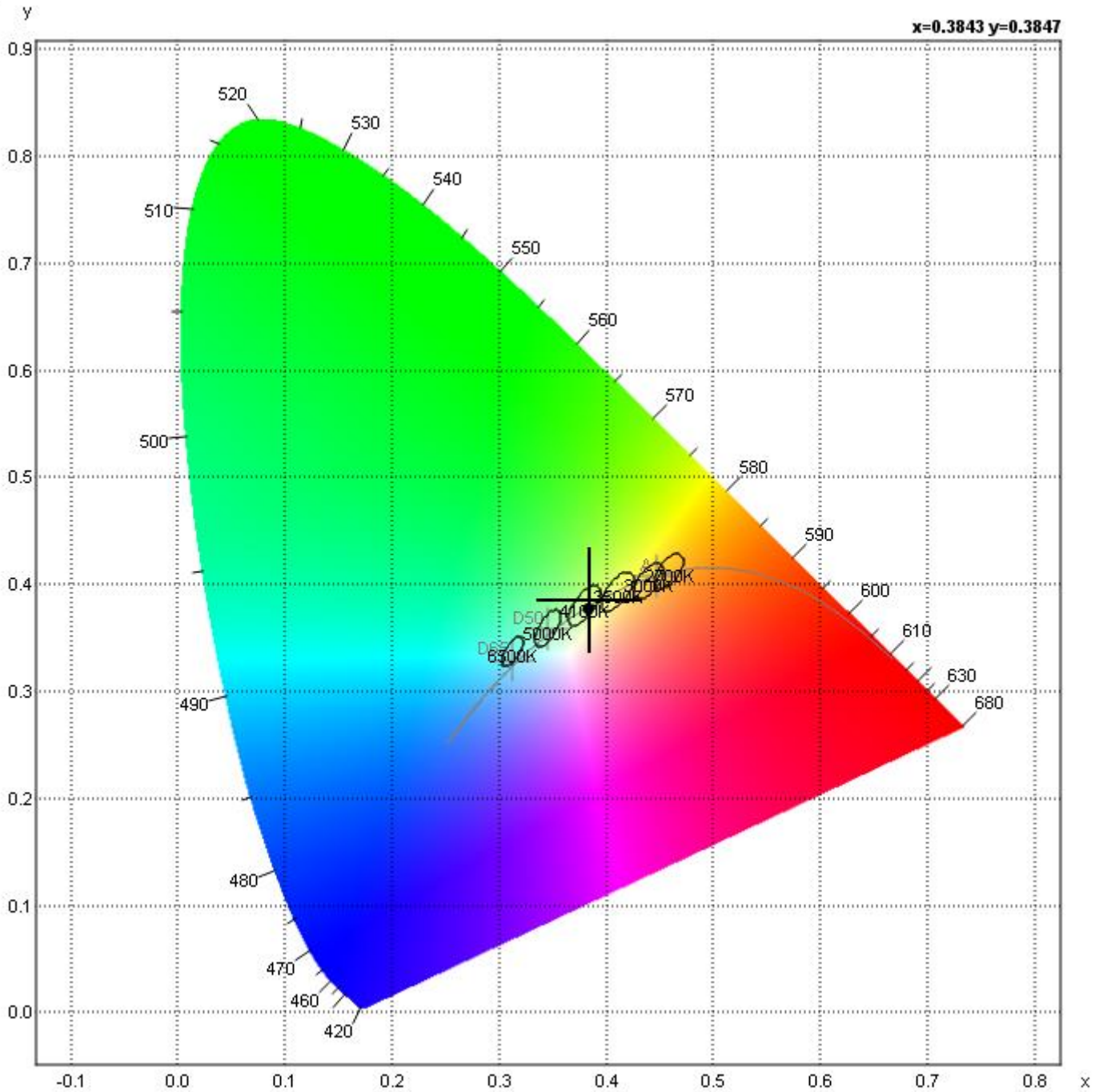
- C90-C270



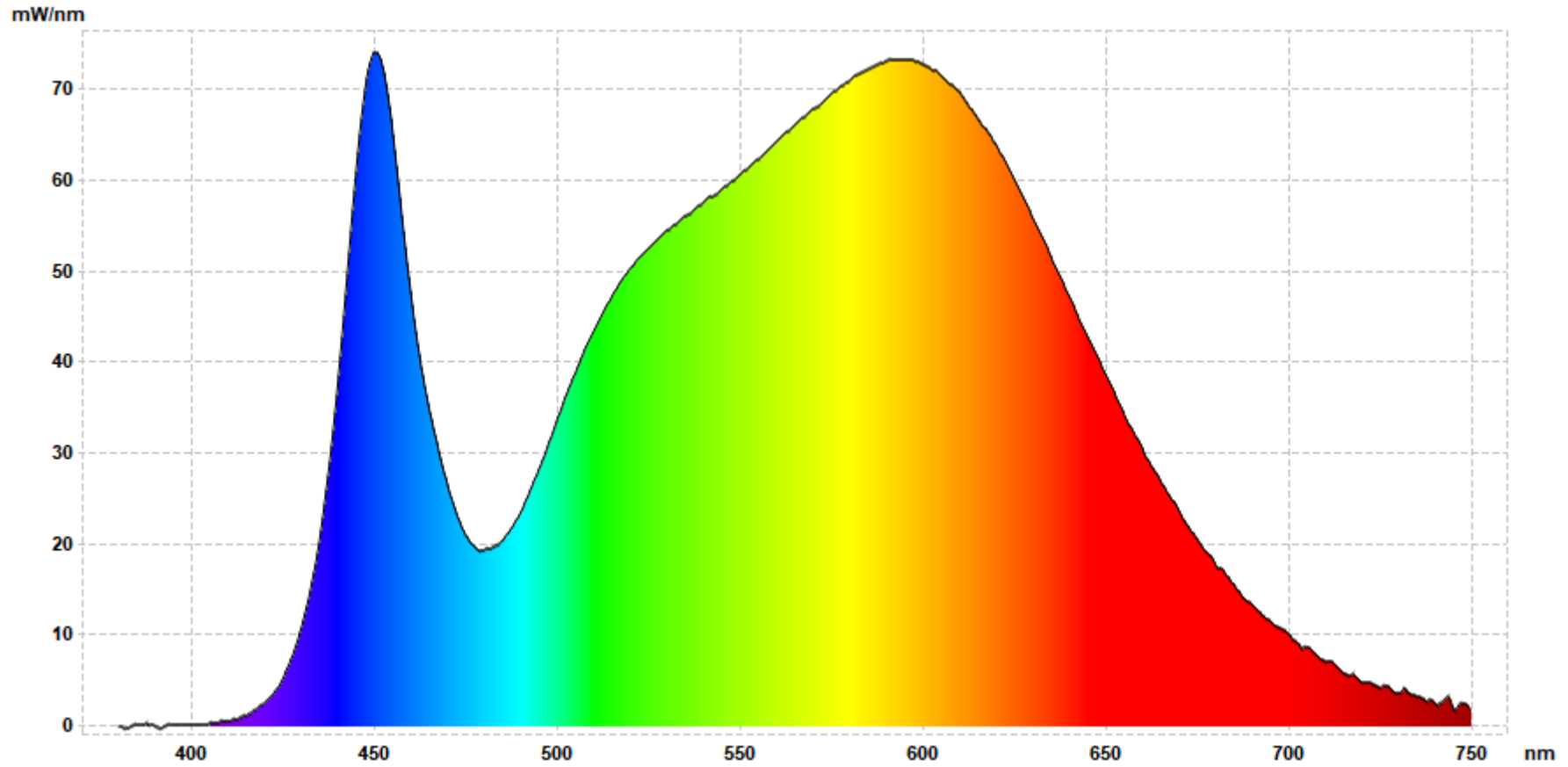
- G0-G180

## CIE 1931 diagram

x 0,3843  
 y 0,3847  
 Angular Colour Uniformity 0,0000



## Spectrum



## Luminous intensity [cd/klm]

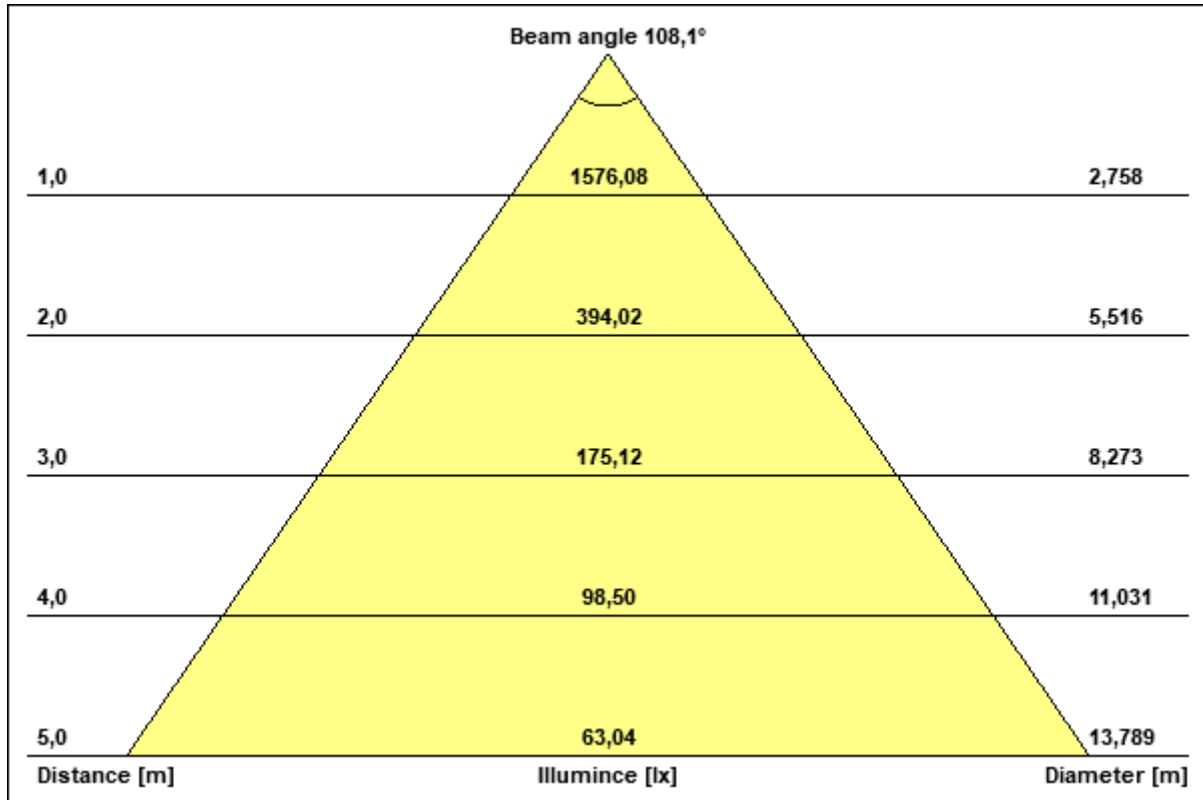
G \ C	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°	165°
0°	368,60	368,60	368,60	368,60	368,60	368,60	368,60	368,60	368,60	368,60	368,60	368,60
5°	366,53	366,45	366,50	366,34	366,16	366,06	366,14	366,18	365,97	366,13	366,11	366,21
10°	360,30	360,21	360,24	360,20	359,78	359,79	359,68	359,55	359,28	359,54	359,48	359,41
15°	350,44	350,54	350,11	350,07	349,69	349,56	349,37	349,40	349,16	348,94	349,00	348,98
20°	337,06	337,16	336,79	336,70	336,28	336,18	335,71	335,62	335,61	335,27	335,06	335,41
25°	320,94	320,39	320,36	320,23	319,79	319,38	319,37	318,89	318,87	318,45	318,35	318,18
30°	301,62	301,37	300,90	301,11	300,73	300,47	300,19	299,97	299,63	299,11	298,89	299,02
35°	280,30	280,02	279,75	279,66	279,54	279,33	279,02	278,61	278,12	277,85	277,51	277,50
40°	256,89	256,86	256,70	256,07	255,88	255,93	255,48	255,08	254,71	253,93	253,85	253,71
45°	231,87	232,31	231,56	231,53	231,04	231,08	230,62	230,34	229,56	229,11	228,58	228,61
50°	205,70	205,77	205,14	205,79	204,77	204,84	204,05	204,22	203,10	203,05	202,20	202,60
55°	178,61	178,61	177,91	177,94	177,49	177,67	176,78	176,59	175,69	175,82	174,96	175,08
60°	150,33	150,62	149,81	149,93	149,15	149,29	148,55	148,52	147,51	147,48	146,79	146,97
65°	121,89	121,80	121,31	120,81	120,70	120,08	119,72	119,34	118,70	118,10	118,09	118,06
70°	91,87	91,91	91,49	90,86	90,79	90,26	89,74	89,21	88,78	88,32	87,97	88,11
75°	62,27	62,48	61,87	61,92	61,11	61,33	60,28	60,18	59,32	59,28	59,07	59,12
80°	34,70	34,58	33,97	33,97	33,28	33,09	32,46	32,42	31,87	31,71	31,65	31,46
85°	11,42	11,29	10,91	10,36	10,56	9,82	10,01	9,18	9,85	8,95	9,58	9,14
90°	0,00	0,00	0,00	0,00	0,01	0,00	0,00	0,00	0,00	0,00	0,22	0,09





G \ C	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°	330°	345°
0°	368,60	368,60	368,60	368,60	368,60	368,60	368,60	368,60	368,60	368,60	368,60	368,60
5°	366,60	366,49	366,76	366,82	367,05	366,86	367,00	367,05	367,44	367,12	367,35	367,43
10°	360,62	360,61	360,70	361,09	361,30	361,36	361,59	361,68	361,95	361,77	361,77	361,68
15°	350,82	350,65	351,07	351,38	351,62	351,94	352,37	352,51	352,58	352,48	352,38	352,22
20°	337,08	337,34	337,76	338,24	338,62	339,13	339,66	339,78	339,77	339,79	339,63	339,33
25°	320,71	320,75	321,34	322,20	322,64	323,15	323,79	323,88	324,32	323,78	323,80	323,25
30°	301,69	301,47	302,55	303,34	303,87	304,49	305,18	305,55	305,56	305,06	305,05	304,35
35°	280,43	280,18	281,34	282,11	283,13	283,33	284,38	284,40	284,60	284,01	284,14	283,36
40°	257,13	257,17	257,95	258,90	260,12	260,39	261,47	261,32	261,71	260,99	261,09	260,09
45°	231,80	231,87	233,02	233,97	234,70	235,78	236,25	236,62	237,00	236,52	236,20	235,76
50°	205,66	205,68	206,60	207,45	208,56	209,16	210,39	210,34	210,75	210,32	210,08	209,27
55°	178,48	178,42	179,12	180,48	181,29	182,43	183,05	183,24	183,35	183,22	182,76	182,43
60°	150,21	150,32	151,07	151,96	152,99	153,88	154,69	154,89	154,97	154,99	154,77	154,20
65°	121,50	121,31	122,29	122,81	124,22	124,85	125,75	125,74	126,38	126,08	126,13	125,54
70°	91,58	91,65	92,52	92,85	93,88	94,69	95,65	95,51	96,43	96,13	96,02	95,70
75°	61,97	61,86	62,43	63,23	63,84	64,97	65,43	65,58	66,21	66,48	66,28	65,85
80°	34,19	34,19	34,58	35,77	35,75	36,63	37,08	37,49	38,07	38,45	38,12	38,07
85°	10,84	11,33	11,25	12,38	11,90	13,30	12,89	13,59	13,65	14,47	13,67	14,54
90°	0,04	0,00	0,00	0,00	0,00	0,28	0,26	0,17	0,29	0,54	0,74	0,84


## Beam cone

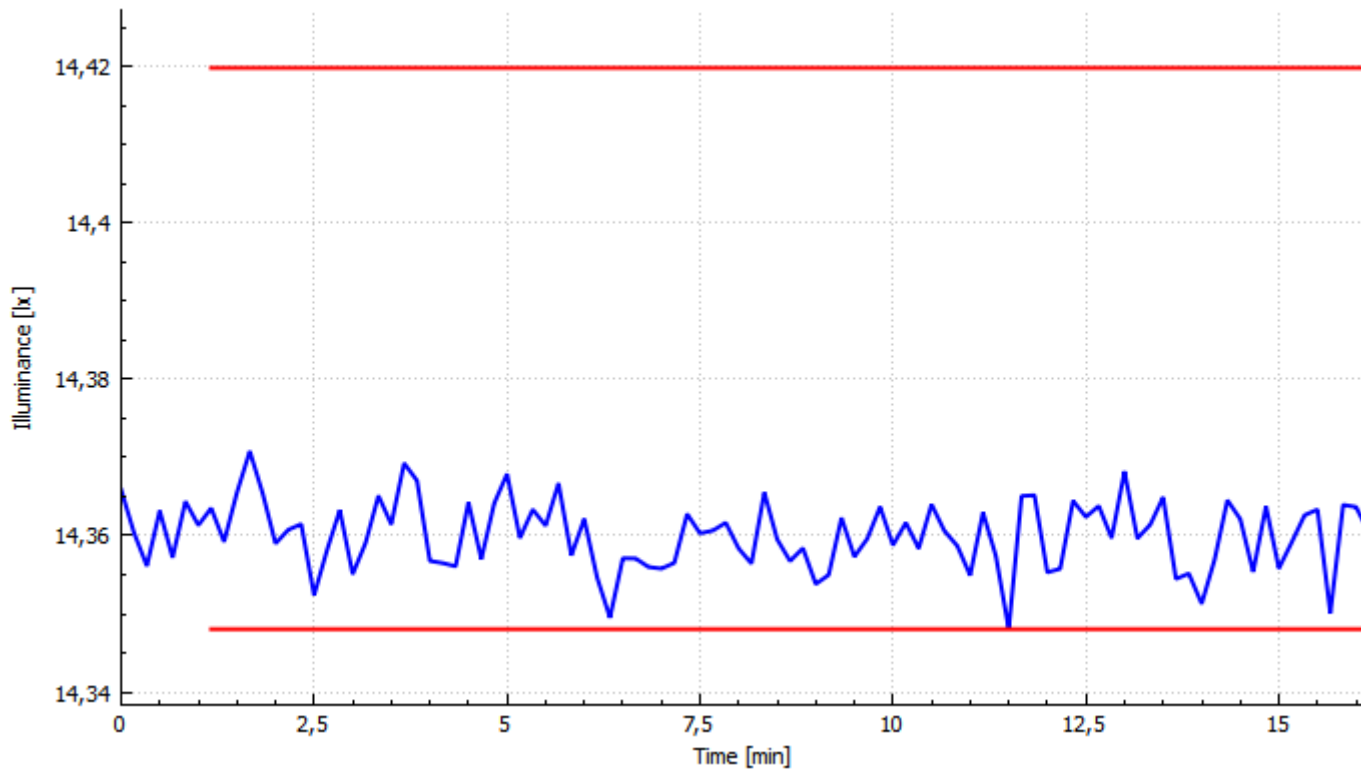


Distance [m]	Max illuminance [lx]	Diameter [m]
1	1576,0776	2,758
2	394,0194	5,516
3	175,1197	8,273
4	98,5049	11,031
5	63,0431	13,789

## Beam angles

C plane	Beam angle [°]	Gamma max [°]	Start [°]	Stop [°]
<b>0-180</b>	107,9	0,0	-53,9	54,0
<b>15-195</b>	107,9	0,0	-53,9	54,0
<b>30-210</b>	107,9	0,0	-54,1	53,8
<b>45-225</b>	108,1	0,0	-54,3	53,9
<b>60-240</b>	108,2	0,0	-54,4	53,8
<b>75-255</b>	108,4	0,0	-54,6	53,8
<b>90-270</b>	108,4	0,0	-54,8	53,6
<b>105-285</b>	108,4	0,0	-54,8	53,6
<b>120-300</b>	108,3	0,0	-54,8	53,4
<b>135-315</b>	108,2	0,0	-54,8	53,4
<b>150-330</b>	108,0	0,0	-54,7	53,3
<b>165-345</b>	108,0	0,0	-54,7	53,3

## Stabilization







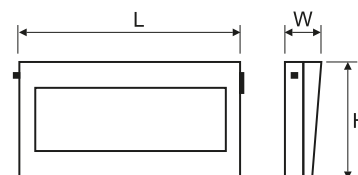
Emergency light luminaire, single - (NM) or double-function (M), single-sided.

**TECHNICAL DATA****Mounting:** surface mounted**Body:** powder-painted steel sheet**ELECTRICAL DATA****Power:** 230V**Includes light source:** no**GENERAL DATA****Available on request:** available with connection to a central battery power supply**Warranty:** 1 year

Code	Power [W]	Light source / lamp	Emergency kit	Maintained / non-maintained	Emergency operating time	Type of emergency power supply	Type
110072.11111.21	1x8	LED	A****	1	1h	X	one-sided
110072.11113.21	1x8	LED	A***	1	3h	X	one-sided

110072.11 1 11.21  
 1 Type of module  
 1 with test button

Code	Dimensions [mm] L W H	Mounting dimensions [mm] L	Net weight [kg]
110072.11111.21	360 60 172	360	1.8
110072.11113.21	360 60 172	360	1.8



**ACCESSORIES**

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150140.00426

NERO "A" arrow down



150140.00424

NERO "D" EXIT



150140.00422

NERO "B" arrow left



150140.00425

NERO "E" emergency exit



150140.00423

NERO "C" arrow right





# EU DECLARATION OF CONFORMITY

LG/2016/03/267



We

LUG Light Factory Ltd.  
Gorzowska 11  
65-127 Zielona Góra, Poland

declare under our sole responsibility that the product

Name	<b>NERO 1</b>
Group	<b>Emergency lighting</b>
Factory number	<b>ATTACHMENT</b>

is in conformity with the provisions of the following acts:

Directive 2014/30/EU of the European Parliament and of the Council of 26 February 2014 on the harmonisation of the laws of the Member States relating to electromagnetic compatibility

Directive 2014/35/EU of the European Parliament and of the Council of 26 February 2014 on the harmonisation of the laws of the Member States relating to the making available on the market of electrical equipment designed for use within certain voltage limits

Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment

Directive 2009/125/EC of the European Parliament and of the Council of 21 October 2009 establishing a framework for the setting of ecodesign requirements for energy-related products

and the following harmonized standards:

**PN-EN 60598-1:2015-04**  
**EN 60598-2-1:1989**  
**PN-EN 55015:2013-10**  
**PN-EN 61547:2009**  
**PN-EN 61000-3-2:2014-10**

**PN-EN 61000-3-3:2013-10**  
**PN-EN 50581:2013**  
**PN-EN 62471:2010**  
**PN-EN 60598-2-22:2015-01**

LUG Light Factory Sp. z o. o.  
Kierownik Laboratorium/Laboratory Manager  
**mgr inż. Marcin Białas**

Issued by

**DYREKTOR**  
DS. TECHNICZNYCH

*mgr inż. Mariusz Ejsmont*

Authorized person signature



# EU DECLARATION OF CONFORMITY

LG/2016/03/267



## ATTACHMENT

### Factory numbers

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110072.11111.21                      110072.11113.21

### Accessory factory numbers

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150140.00426                      150140.00423                      150140.00425  
150140.00422                      150140.00424

This declaration applies to all serial numbers produced under the given factory symbol.