

GL GONIOSPECTROMETER MEASUREMENT TAG LIST

Report Wizard Sample Description Lines

Client name: *Azzardo Lighting*

Model name: *Massima 40 BK*

Item No: *AZ5253*

Serial No.:

Made by: *A. Nawrot*

Eulumdat Fields

Dimensions of luminaire

Company: *Azzardo*

Report number: *AZ5253*

LuminaireName: *Massima 40 BK*

LuminaireNumber: *AZ5253*

FileName: *AZ5253.Idt*

Date: *2024-06-18*

Dimensions of luminaire

Length: *20 mm*

Width: *400 mm*

Height: *1000 mm*

Dimensions of luminous area

Length: *20 mm*

Width: *400 mm*

C0-plane *0 mm*

C90-plane *0 mm*

C180-plane *0 mm*

C270-plane *0 mm*

Lamps:

Number of lamps: *-1*

GL Optic R&D Center Sp. z o.o.

Raiffeisen Bank Polska S.A.

NIP: 783-171-97-20

ul. Poznańska 70

PLN: IBAN 78 1750 0012 0000 0000 2709 9432

REGON 360317241

PL-62-040 Puszczykowo; Poland

EUR: IBAN 06 1750 0012 0000 0000 2709 9467

KRS: 0000537079

Tel.: +48 61 819 40 03

SWIFT BIC: RCBWPLPW

Kapitał 200.000PLN

Type of lamps: *LED*
Total luminous flux: *1035,80 lm*
Color temperatur: *2993 K*
Color rendering index: *81,45*
Wattage including ballast: *27,75 W*

Utilization factors:

k = 0.60	<i>0,167</i>
k = 0.80	<i>0,229</i>
k = 1.00	<i>0,286</i>
k = 1.25	<i>0,346</i>
k = 1.50	<i>0,396</i>
k = 2.00	<i>0,478</i>
k = 2.50	<i>0,532</i>
k = 3.00	<i>0,577</i>
k = 4.00	<i>0,641</i>
k = 5.00	<i>0,687</i>

Electrical parameters

<i>U</i>	<i>= 229,614 V</i>
<i>I</i>	<i>= 0,127 A</i>
<i>P</i>	<i>= 27,754 W</i>
<i>Power factor</i>	<i>= 0,954</i>

<i>Power apparent</i>	<i>= 29,132 VA</i>
<i>Power Reactive</i>	<i>= -8,780 var</i>
<i>Frequency Voltage</i>	<i>= 50,002 Hz</i>
<i>THD</i>	<i>= 8,356 %</i>

GL Optic R&D Center Sp. z o.o.

ul. Poznańska 70

PL-62-040 Puszczykowo; Poland

Tel.: +48 61 819 40 03Raiffeisen Bank Polska S.A.

PLN: IBAN 78 1750 0012 0000 0000 2709 9432

EUR: IBAN 06 1750 0012 0000 0000 2709 9467

SWIFT BIC: RCBWPLPWNIP: 783-171-97-20

REGON 360317241

KRS: 0000537079

Kapitał 200.000PLN

GL Optic R&D Center Sp. z o.o.

ul. Poznańska 70

PL-62-040 Puszczykowo; Poland

Tel.: +48 61 819 40 03Raiffeisen Bank Polska S.A.

PLN: IBAN 78 1750 0012 0000 0000 2709 9432

EUR: IBAN 06 1750 0012 0000 0000 2709 9467

SWIFT BIC: RCBWPLPWNIP: 783-171-97-20

REGON 360317241

KRS: 0000537079

Kapitał 200.000PLN

GL Optic R&D Center Sp. z o.o.

ul. Poznańska 70

PL-62-040 Puszczykowo; Poland

Tel.: +48 61 819 40 03Raiffeisen Bank Polska S.A.

PLN: IBAN 78 1750 0012 0000 0000 2709 9432

EUR: IBAN 06 1750 0012 0000 0000 2709 9467

SWIFT BIC: RCBWPLPWNIP: 783-171-97-20

REGON 360317241

KRS: 0000537079

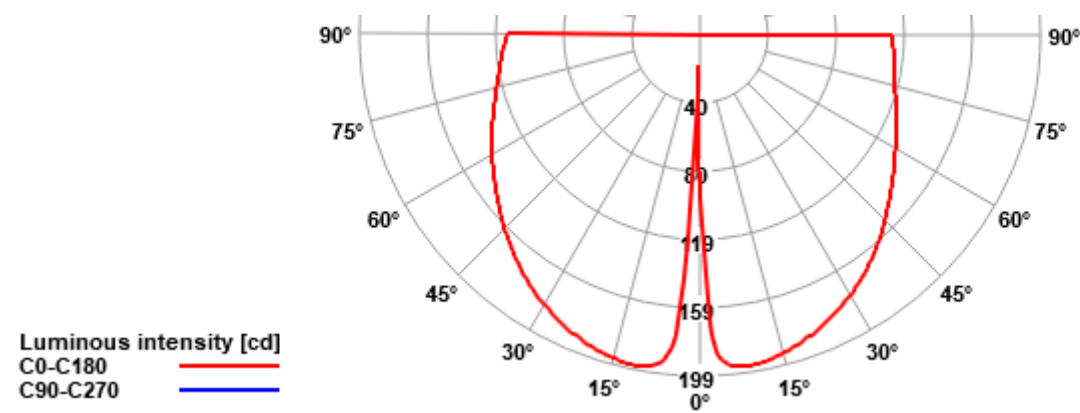
Kapitał 200.000PLN

Temperature = 25 C

Goniometric measurement results

Total flux (utilized luminarie flux)	1035,80 lm
Flux in lower hemisphere	100,00 %
Flux in upper hemisphere	0,00 %
Maximum luminous intensity	196,96 cd
Light output ratio (LOR)	100,00 %
Luminous efficacy	37,33 lm/W

Light intensity distribution diagram



CIE 1931 diagram

x	0,4356
y	0,4005
Angular Colour Uniformity	0,0020

GL Optic R&D Center Sp. z o.o.

ul. Poznańska 70

PL-62-040 Puszczykowo; Poland

Tel.: +48 61 819 40 03Raiffeisen Bank Polska S.A.

PLN: IBAN 78 1750 0012 0000 0000 2709 9432

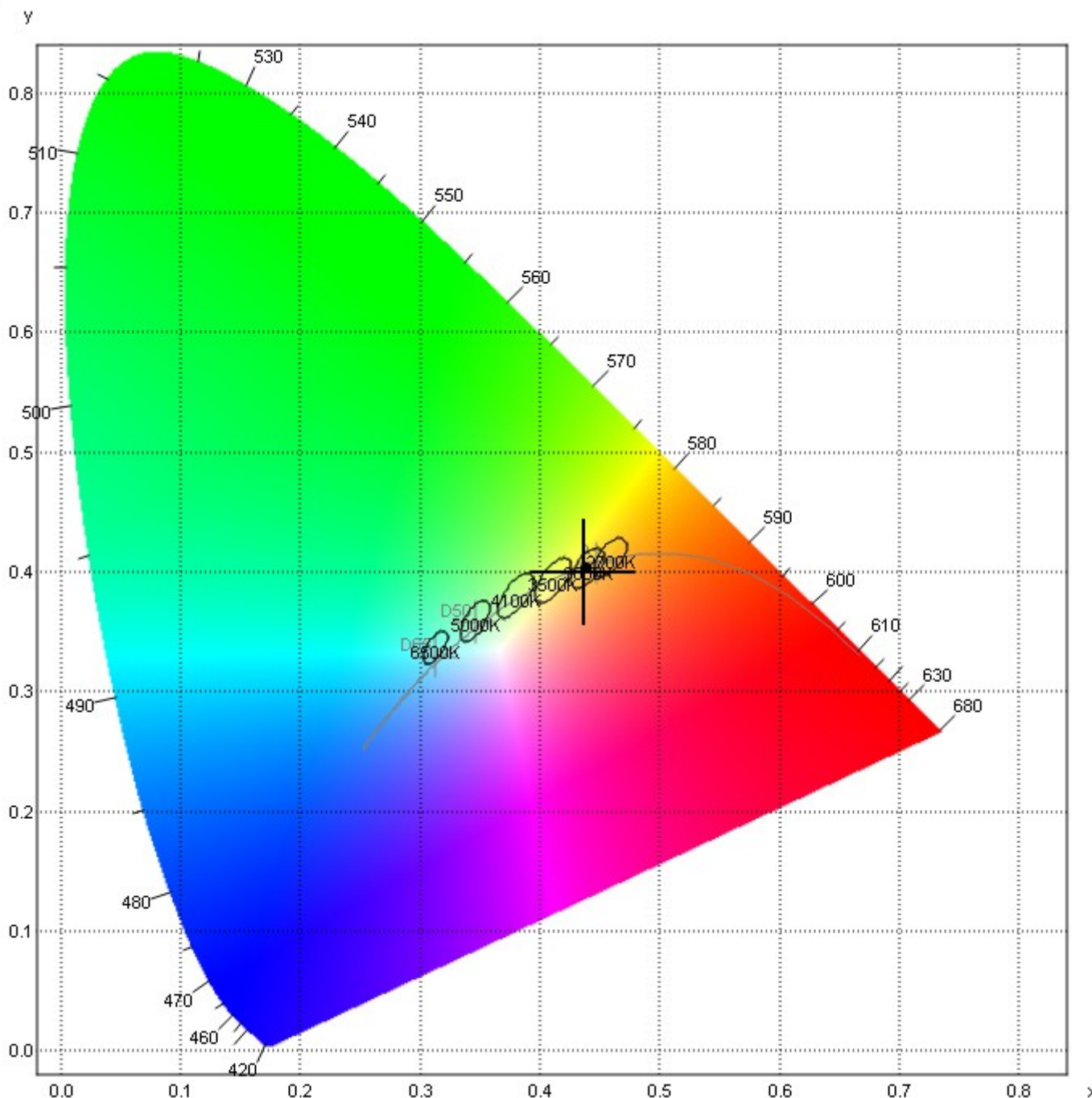
EUR: IBAN 06 1750 0012 0000 0000 2709 9467

SWIFT BIC: RCBWPLPWNIP: 783-171-97-20

REGON 360317241

KRS: 0000537079

Kapitał 200.000PLN



Beam cone

GL Optic R&D Center Sp. z o.o.

ul. Poznańska 70

PL-62-040 Puszczykowo; Poland

Tel.: +48 61 819 40 03Raiffeisen Bank Polska S.A.

PLN: IBAN 78 1750 0012 0000 0000 2709 9432

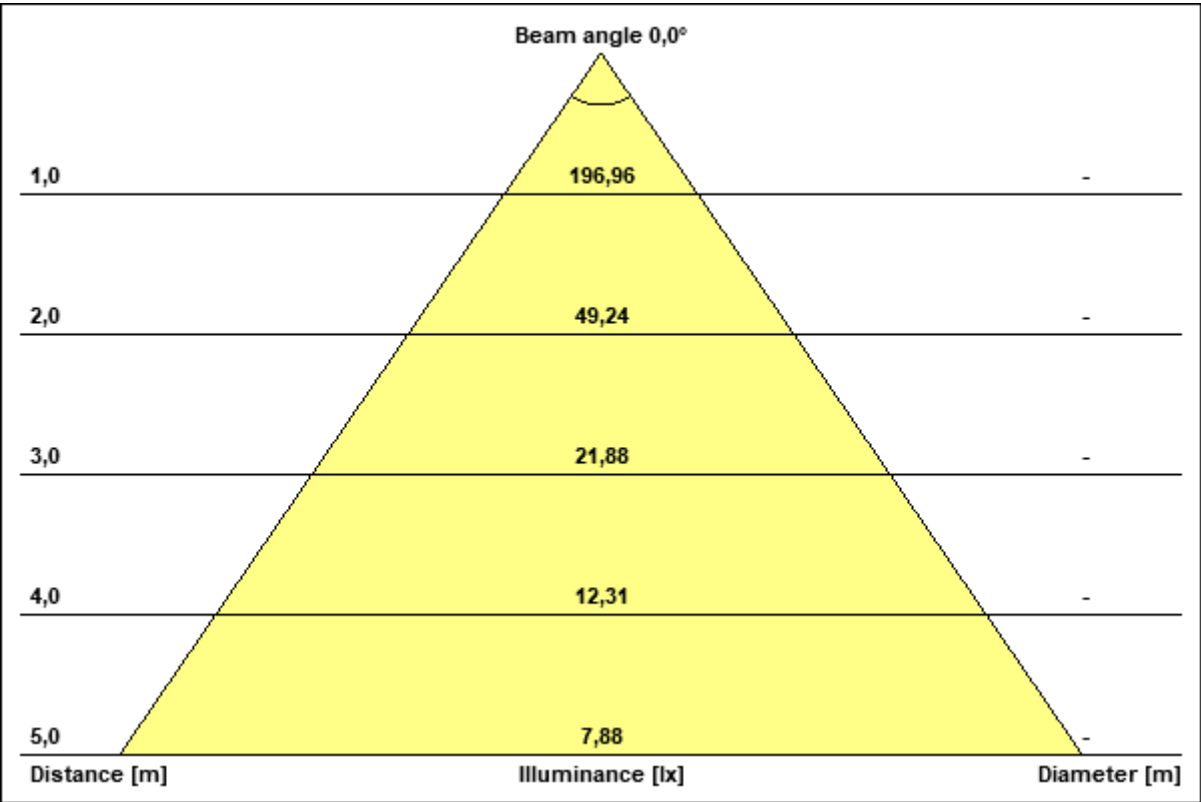
EUR: IBAN 06 1750 0012 0000 0000 2709 9467

SWIFT BIC: RCBWPLPWNIP: 783-171-97-20

REGON 360317241

KRS: 0000537079

Kapitał 200.000PLN



Stabilization

GL Optic R&D Center Sp. z o.o.

ul. Poznańska 70

PL-62-040 Puszczykowo; Poland

Tel.: +48 61 819 40 03Raiffeisen Bank Polska S.A.

PLN: IBAN 78 1750 0012 0000 0000 2709 9432

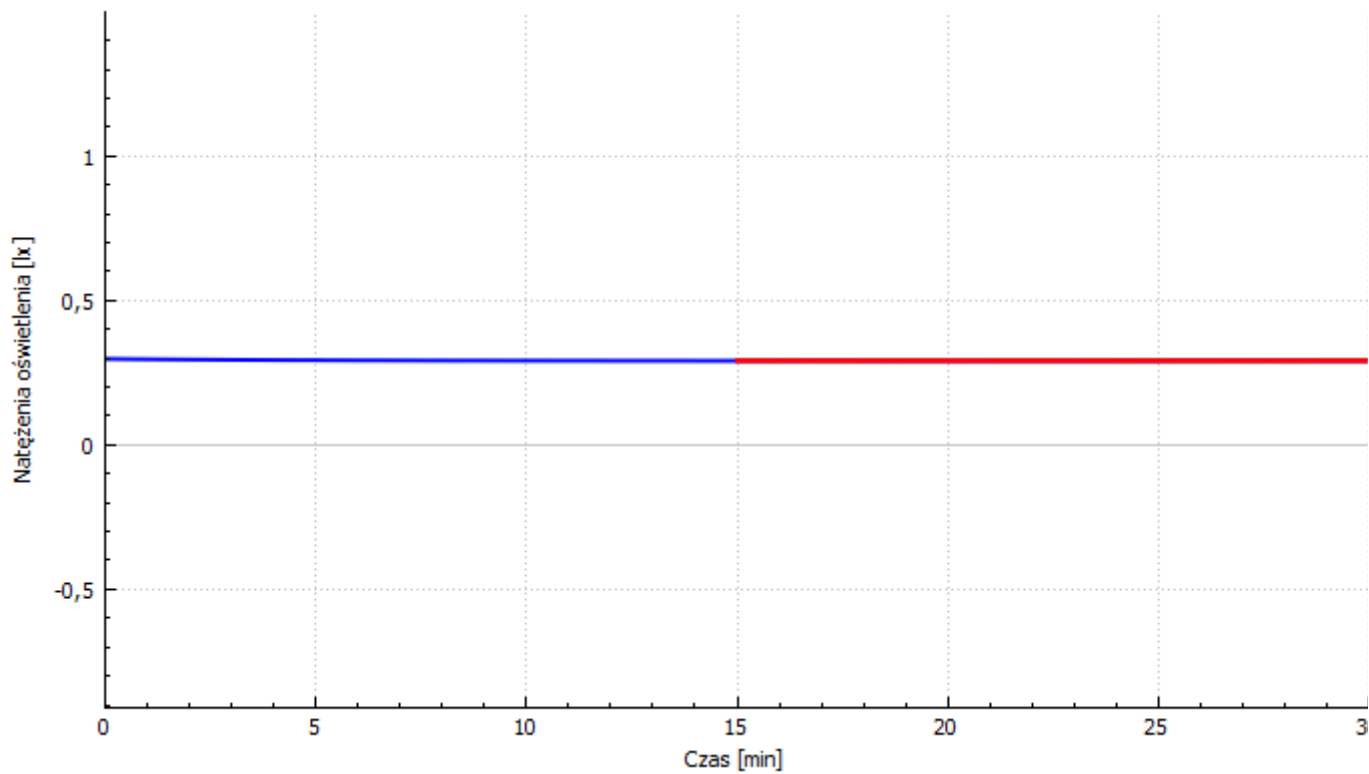
EUR: IBAN 06 1750 0012 0000 0000 2709 9467

SWIFT BIC: RCBWPLPWNIP: 783-171-97-20

REGON 360317241

KRS: 0000537079

Kapitał 200.000PLN



3D Chart

GL Optic R&D Center Sp. z o.o.

ul. Poznańska 70

PL-62-040 Puszczykowo; Poland

Tel.: +48 61 819 40 03Raiffeisen Bank Polska S.A.

PLN: IBAN 78 1750 0012 0000 0000 2709 9432

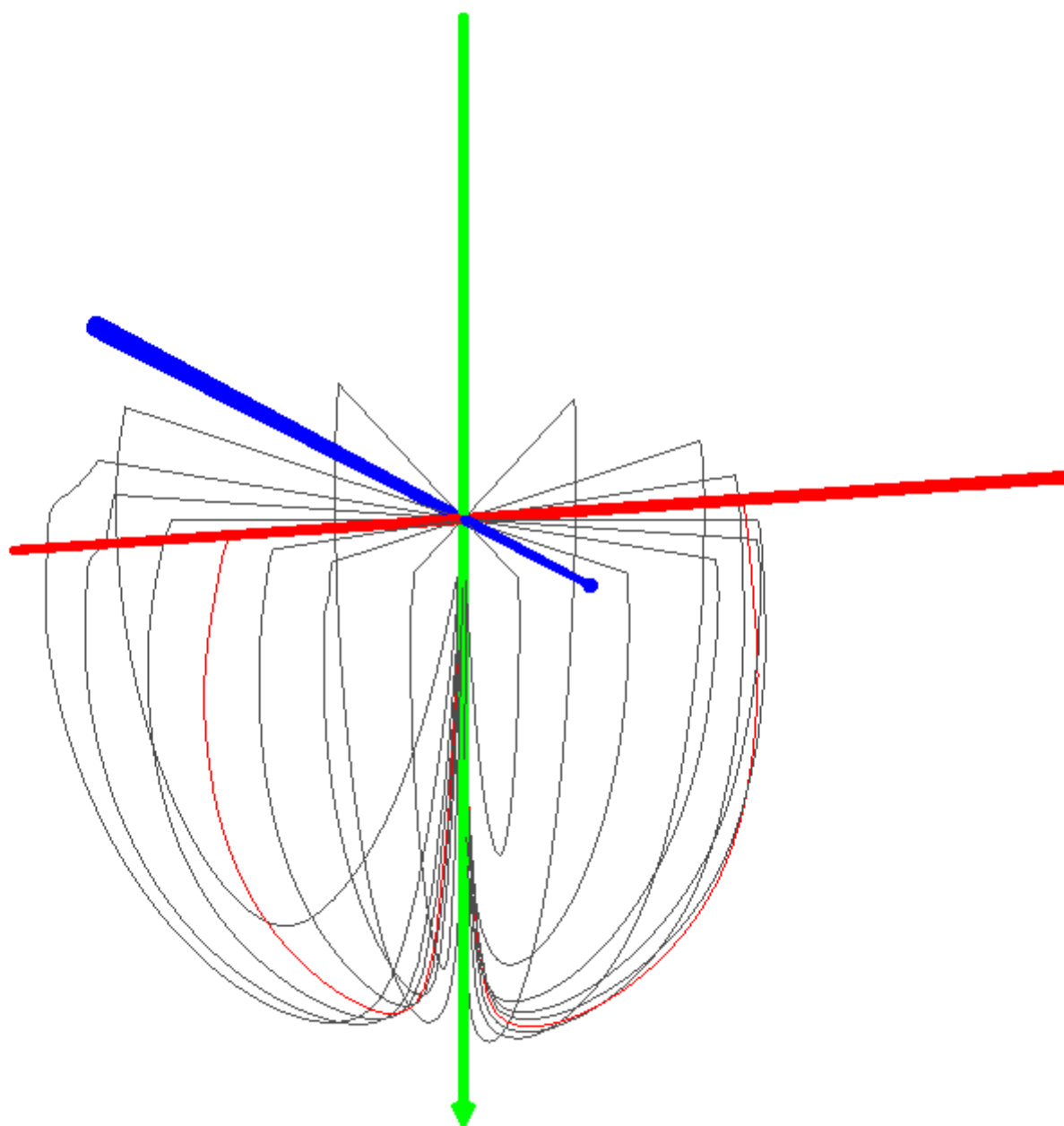
EUR: IBAN 06 1750 0012 0000 0000 2709 9467

SWIFT BIC: RCBWPLPWNIP: 783-171-97-20

REGON 360317241

KRS: 0000537079

Kapitał 200.000PLN



Legend

- C0-C180

GL Optic R&D Center Sp. z o.o.

ul. Poznańska 70

PL-62-040 Puszczykowo; Poland

Tel.: +48 61 819 40 03Raiffeisen Bank Polska S.A.

PLN: IBAN 78 1750 0012 0000 0000 2709 9432

EUR: IBAN 06 1750 0012 0000 0000 2709 9467

SWIFT BIC: RCBWPLPWNIP: 783-171-97-20

REGON 360317241

KRS: 0000537079

Kapitał 200.000PLN



- C90-C270
- G0-G180

U(%f)

I(%f)

**Ext
end
ed
elec
tric
al
rep
ort**

U(%f)			I(%f)	P(%f)
0	0	0	0	
1	100,000	100,000	100,000	
2	0,00502	0,0737	-1,58e-06	
3	0,00769	5,848	0,000273	
4	0,0029	0,0951	-1,06e-06	
5	0,0047	2,334	7,1e-05	
6	0,00121	0,106	-1,94e-08	
7	0,00147	3,132	-6,73e-05	
8	0	0,120	0	
9	0,00364	2,960	-2,16e-05	
10	0	0,108	0	
11	0,0068	2,022	1,59e-05	
12	0	0,102	0	
13	0,00484	1,388	-4,31e-06	
14	0	0,0452	-6,65e-07	
15	0,0026	1,151	1,48e-05	
16	0	0,0596	9,21e-07	
17	0,00153	1,078	1,5e-05	
18	0,000928	0,0654	-9,3e-07	
19	0,000854	0,519	6,74e-06	
20	0,000948	0,0393	0	
21	0,00172	0,195	-3,58e-06	

GL Optic R&D Center Sp. z o.o.

ul. Poznańska 70

PL-62-040 Puszczykowo; Poland

Tel.: +48 61 819 40 03Raiffeisen Bank Polska S.A.

PLN: IBAN 78 1750 0012 0000 0000 2709 9432

EUR: IBAN 06 1750 0012 0000 0000 2709 9467

SWIFT BIC: RCBWPLPWNIP: 783-171-97-20

REGON 360317241

KRS: 0000537079

Kapitał 200.000PLN

22	0,000977	0,0889	4,73e-07
23	0,00212	0,0937	-1,42e-06
24	0	0,102	0
25	0,0022	0,426	4,03e-08
26	0	0,0786	0
27	0,00165	0,517	-7,61e-07
28	0,000887	0,079	0
29	0,00332	0,627	2,95e-06
30	0	0,099	0
31	0	0,539	3,2e-06
32	0,00108	0,0905	7,22e-07
33	0	0,346	0
34	0,0009	0,104	-1,53e-07
35	0	0,380	3,67e-06
36	0,00123	0,053	7,67e-07
37	0,00125	0,306	-1,08e-06
38	0,00101	0,0729	-1,48e-07
39	0,0009	0,254	0
40	0,00113	0,0748	9,93e-08
41	0,00209	0,320	-5,21e-06
42	0,00106	0,0965	-9,49e-08
43	0,00132	0,151	0
44	0,00108	0,112	5,75e-07
45	0,00127	0,328	8,81e-06
46	0,00151	0,0999	-3,4e-08
47	0,00113	0,350	0
48	0,00147	0,0724	-6,92e-07
49	0	0,456	6,7e-06
50	0	0,0772	0

GL Optic R&D Center Sp. z o.o.

ul. Poznańska 70

PL-62-040 Puszczykowo; Poland

Tel.: +48 61 819 40 03Raiffeisen Bank Polska S.A.

PLN: IBAN 78 1750 0012 0000 0000 2709 9432

EUR: IBAN 06 1750 0012 0000 0000 2709 9467

SWIFT BIC: RCBWPLPWNIP: 783-171-97-20

REGON 360317241

KRS: 0000537079

Kapitał 200.000PLN