

ROENER ENERGYPRO

MODERNIZARE ILUMINAT PUBLIC IN MUNICIPIUL CALARASI, JUDETUL CALARASI

## PROIECT TEHNIC

## MODERNIZARE ILUMINAT PUBLIC IN MUNICIPIUL CALARASI, JUDETUL CALARASI

## ANEXA 4 – BILANT ENERGETIC



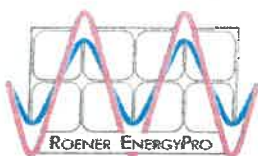
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Pagina 1/5



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MODERNIZARE ILUMINAT PUBLIC IN MUNICIPIUL CALARASI, JUDETUL CALARASI

Breviar de calcul energetic

1. Situatia existenta

Situatia existenta a puterii instalate a sistemului de iluminat public

Nr. Crt.	Tip sursa de lumina	Pne -puterea nominala a surselor de iluminat existente [kW]	Pbe -puterea balastului 15% (pentru corpurile de iluminat cu balast) [kW]	Cantitate [buc]	Pie -puterea totala instalata a corpurilor de iluminat existente [kW]
1	2	3	4	5	6
		(a)	(b)	(c)	(a+b)* (c)
1	Hg 250	0.250	0.02500	9	2.47500
2	Hg 70	0.070	0.00700	1	0.07700
3	Na 150	0.150	0.01500	1,583	261.19500
4	Na 100	0.100	0.01000	2	0.22000
5	Na 70	0.070	0.00700	550	42.35000
6	Led 50	0.050		3	0.15000
7	Led 30	0.030		3	0.09000
8	Led 15	0.015		3	0.04500
9	Economic 60	0.060		2	0.12000
10	Neo 100	0.100		1	0.10000
11	NA 30	0.030		2	0.06000
Total				2,159	306.88

Situatia consumului de energie electrica pentru sistemul de iluminat public existent:

Nr. Crt.	Tip sursa de lumina	Pne -puterea nominala a surselor de iluminat existente [kW]	Pbe -puterea balastului 15% (pentru corpurile de iluminat cu balast) [kW]	Cantitate [buc]	Pie -puterea totala instalata a corpurilor de iluminat existente [kW]	Energie electrica consumata / an [kWh/an]
1	2	3	4	5	6	7
		(a)	(b)	(c)	(a+b)* (c)	(a+b)*4150/1000)
1	Hg 250	0.250	0.02500	9	2.47500	10,271.25
2	Hg 70	0.070	0.00700	1	0.07700	319.55
3	Na 150	0.150	0.01500	1,583	261.19500	1,083,959.25
4	Na 100	0.100	0.01000	2	0.22000	913.00
5	Na 70	0.070	0.00700	550	42.35000	175,752.50
6	Led 50	0.050		3	0.15000	622.50
7	Led 30	0.030		3	0.09000	373.50
8	Led 15	0.015		3	0.04500	186.75
9	Economic 60	0.060		2	0.12000	498.00
10	Neo 100	0.100		1	0.10000	415.00
11	NA 30	0.030		2	0.06000	249.00
Total				2,159	306.88	1,273,560

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Pagina 2/5

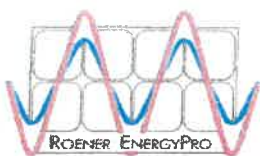
CODERIE CONSTANTIN

CNP 1500527510029

Verificat proiect de instalatie electrica

Autorizatia nr. 201923276/24-nov-2018

Valabilita până la data de: 16-nov-2018



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MODERNIZARE ILUMINAT PUBLIC-ÎN MUNICIPIUL CALARASI, JUDETUL CALARASI

Consum anual de energie electrica existent – 1,273.560,00kWh

2. Situatia dupa implementarea proiectului

Situatia puterii instalate a sistemului de iluminat public dupa implementarea proiectului

Nr. Crt.	Tip sursa de lumina	Pnn -puterea nominala a surselor de iluminat nou montate [kW]*	Putere modul de telegestiune	Cantitate [buc]	Pin -puterea totala instalata a corpurilor de iluminat nou montate [kW]
1	2	3	4	5	6
		(a)	(b)	(c)	(a+b)* (c)
1	LED STRADAL AIL 1	0.0660	0.0030	16	1.104
2	LED STRADAL AIL 2	0.0590	0.0030	552	34.224
3	LED STRADAL AIL 3	0.0530	0.0030	4	0.224
4	LED STRADAL AIL 4	0.0450	0.0030	903	43.344
5	LED STRADAL AIL 5	0.0330	0.0030	36	1.296
6	LED STRADAL AIL 6	0.0250	0.0030	509	14.252
Total				2,020	94.44

Autoritatea Natională de Reglementare  
în Domeniul Energiei

CODERIE CONSTANTIN

CNP 1500527510029

Verificator de proiecte de instalatii electrice

Autorizatie nr. 201020276/24-10v-2016

Valabilă până la data de: 16-11-2020

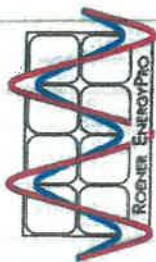
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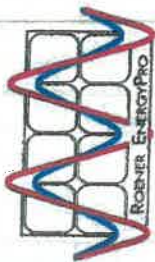


MODERNIZARE ILUMINAT PUBLIC IN MUNICIPIUL CALARASI, JUDETUL CALARASI

Situatia consumului de energie electrica pentru sistemul de iluminat public dupa implementarea proiectului

Nr. Crt.	Tip sursa de lumina	Pnn puterea nominala a surselor de iluminat nou montate [kW]*	Putere modul de telegestiune	Cantitate [buc]	Pin puterea totala instalata a corpurilor de iluminat nou montate [kW]	Energie electrica consumata / an [KWh/an] in regim de consum de 100%	Energie electrica consumata / an [KWh/an] in regim de consum cu telegestiune
1	2	3	4	5	6	7	8
		(a)	(b)	(c)	(a+b)* (c)	((a+b)* (c) )*4150/1000	((a+b)* (c) )*4150/1000)*0,85
1	LED STRADAL AIL 1	0.0660	0.0030	16	1.104	4.581.60	3.894.36
2	LED STRADAL AIL 2	0.0590	0.0030	552	34.224	142.029.60	120.725.16
3	LED STRADAL AIL 3	0.0530	0.0030	4	0.224	929.60	790.16
4	LED STRADAL AIL 4	0.0450	0.0030	903	43.344	179.877.60	152.895.96
5	LED STRADAL AIL 5	0.0330	0.0030	36	1.296	5.378.40	4.571.64
6	LED STRADAL AIL 6	0.0250	0.0030	509	14.252	59.145.80	50.273.93
	<b>Total</b>			<b>2.020</b>	<b>94.44</b>	<b>391.943</b>	<b>333.151</b>

Consum anual de energie electrica dupa implementare – 50.381,12 kWh

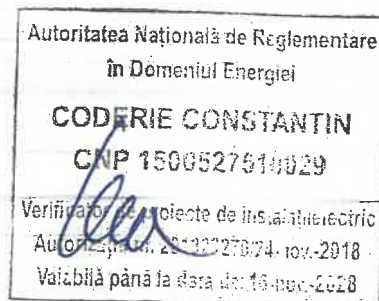


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# MODERNIZARE ILUMINAT PUBLIC IN MUNICIPIUL CALARASI, JUDETUL CALARASI

Proiectant

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Pagina 5/5