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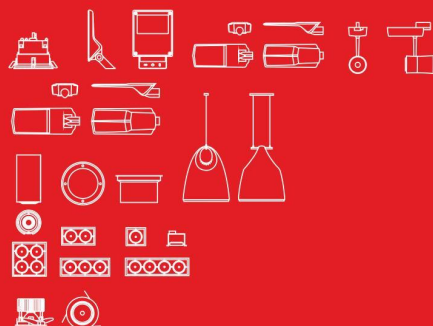
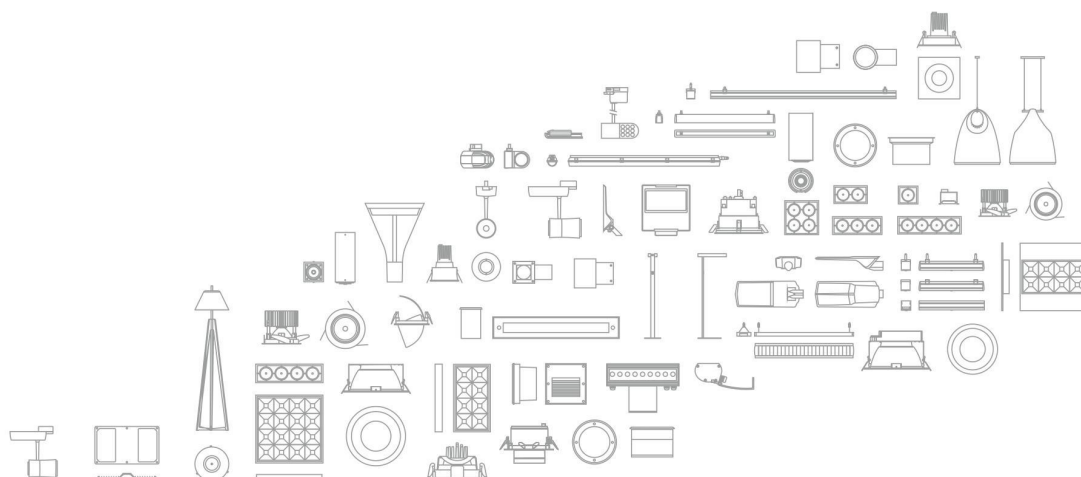
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## EXTINDEREA SISTEMULUI DE ILUMINAT STRADAL mun. Strășeni – ETAPA III

EXTINDEREA SISTEMULUI DE ILUMINAT STRADAL mun. Strășeni – ETAPA III

sit. 31 .... 46



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## Cuprins

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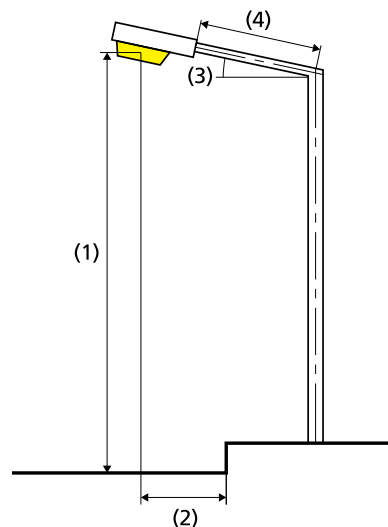
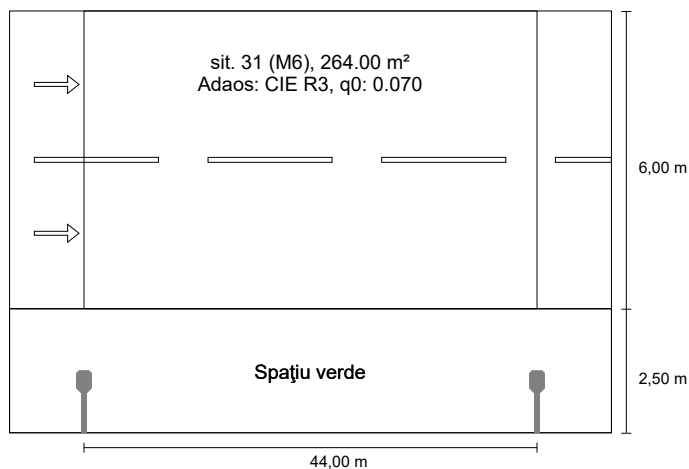
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**sit. 31 până la EN 13201:2015**

**LUG LIGHT FACTORY 130232.5L192.111.001  
4750 URBINI LED 740 O10 700 II**



**Rezultate pentru câmpurile de evaluare**  
Factorul de menținere: 0.85

sit. 31 (M6)

Lm [cd/m²] ≥ 0.30	Uo ≥ 0.35	UI ≥ 0.40	TI [%] ≤ 20	EIR ≥ 0.30
✓ 0.37	✓ 0.43	✓ 0.54	✓ 15	✓ 0.43

**Rezultate pentru indicatorii de eficiență energetică**

<b>Indicatorul densității de putere (Dp)</b>	0.018 W/lxm²
Densitatea consumului de energie	
Aranjament: 4750 URBINI LED 740 O10 700 II (108.0 kWh/an)	0.4 kWh/m² an

Lampă:	1xLED 4000K
Flux luminos (corp de iluminat):	3251.20 lm
Flux luminos (lampă):	3250.00 lm
Ore de lucru	
4000 h:	100.0 %, 27.0 W
W/km:	621.0
Aranjament:	Pe o parte Jos
Distanță stâlp:	44.000 m
Înclinare consolă (3):	5.0°
Lungime consolă (4):	0.993 m
Înălțimea deasupra planului util (1):	8.300 m
Ieșirea în consolă a punctului de lumină (2):	-1.500 m

ULR:	0.00
ULOR:	0.00

**Valori maxime ale intensității luminoase**

peste 70°	998 cd/klm *
peste 80°	402 cd/klm *
peste 90°	20.0 cd/klm *

Clasă intensitate luminoasă: /

Orice direcție ce formează unghiul dat cu verticala în jos a corpurilor de iluminat instalate pentru utilizare.

\* Luminous intensity values in [cd/klm] for calculating luminous intensity class refer to the output flux of the luminaire, according EN 13201:2015.

Aranjamentul respectă clasa cu indici de orbire D.0

## sit. 31 (M6)

### Iluminare orizontală [lx]

<b>8.000</b>	5.77	4.94	3.96	3.93	3.13	2.73	2.79	2.95	2.79	2.73	3.13	3.93	3.96	4.94	5.77
<b>7.000</b>	7.75	6.81	5.70	4.91	3.84	3.20	3.10	3.03	3.10	3.20	3.84	4.91	5.70	6.81	7.75
<b>6.000</b>	9.55	8.54	7.41	5.77	4.58	3.65	2.98	2.84	2.98	3.65	4.58	5.77	7.41	8.54	9.55
<b>5.000</b>	11.3	9.67	7.84	6.56	5.01	3.38	2.75	2.62	2.75	3.38	5.01	6.56	7.84	9.67	11.3
<b>4.000</b>	<b>12.9</b>	10.4	8.02	6.47	4.50	3.05	2.50	2.37	2.50	3.05	4.50	6.47	8.02	10.4	<b>12.9</b>
<b>3.000</b>	12.0	9.74	6.82	5.39	3.88	2.68	2.21	<b>2.10</b>	2.21	2.68	3.88	5.39	6.82	9.74	12.0
m	<b>1.467</b>	<b>4.400</b>	<b>7.333</b>	<b>10.267</b>	<b>13.200</b>	<b>16.133</b>	<b>19.067</b>	<b>22.000</b>	<b>24.933</b>	<b>27.867</b>	<b>30.800</b>	<b>33.733</b>	<b>36.667</b>	<b>39.600</b>	<b>42.533</b>

Raster: 15 x 6 Puncte

Em [lx]	Emin [lx]	Emax [lx]	g1	g2
5.56	2.10	12.9	0.378	0.163

## Observator 1

### Densitate a luminii cu carosabil uscat [cd/m<sup>2</sup>]

<b>8.000</b>	0.19	<b>0.17</b>	<b>0.17</b>	0.19	0.19	0.20	0.23	0.26	0.26	0.23	0.23	0.23	0.18	0.19	0.20
<b>7.000</b>	0.25	0.23	0.22	0.24	0.23	0.24	0.27	0.31	0.33	0.31	0.31	0.32	0.28	0.27	0.26
<b>6.000</b>	0.31	0.29	0.28	0.28	0.28	0.30	0.31	0.34	0.37	0.42	0.44	0.43	0.41	0.36	0.33
<b>5.000</b>	0.37	0.34	0.32	0.34	0.35	0.34	0.35	0.39	0.43	0.48	0.59	0.57	0.48	0.43	0.40
<b>4.000</b>	0.43	0.39	0.36	0.37	0.39	0.40	0.44	0.49	0.51	0.55	0.67	0.66	0.56	0.51	0.46
<b>3.000</b>	0.44	0.42	0.39	0.43	0.46	0.49	0.53	0.58	0.61	0.64	<b>0.71</b>	0.67	0.54	0.51	0.46
<b>m</b>	<b>1.467</b>	<b>4.400</b>	<b>7.333</b>	<b>10.267</b>	<b>13.200</b>	<b>16.133</b>	<b>19.067</b>	<b>22.000</b>	<b>24.933</b>	<b>27.867</b>	<b>30.800</b>	<b>33.733</b>	<b>36.667</b>	<b>39.600</b>	<b>42.533</b>

Raster: 15 x 6 Puncte

Lm [cd/m <sup>2</sup> ]	Lmin [cd/m <sup>2</sup> ]	Lmax [cd/m <sup>2</sup> ]	g1	g2
0.37	0.17	0.71	0.442	0.233

### Densitate a luminii cu lampă nouă [cd/m<sup>2</sup>]

<b>8.000</b>	0.22	0.20	<b>0.19</b>	0.22	0.22	0.24	0.27	0.31	0.30	0.27	0.27	0.27	0.22	0.22	0.23
<b>7.000</b>	0.29	0.27	0.26	0.28	0.27	0.28	0.32	0.37	0.39	0.36	0.37	0.38	0.33	0.32	0.31
<b>6.000</b>	0.36	0.35	0.33	0.33	0.33	0.35	0.36	0.40	0.44	0.49	0.52	0.51	0.48	0.42	0.39
<b>5.000</b>	0.43	0.40	0.38	0.40	0.41	0.40	0.41	0.46	0.51	0.56	0.70	0.67	0.57	0.50	0.47
<b>4.000</b>	0.51	0.46	0.42	0.44	0.45	0.47	0.52	0.57	0.60	0.65	0.78	0.78	0.66	0.60	0.54
<b>3.000</b>	0.51	0.49	0.46	0.51	0.54	0.57	0.62	0.68	0.72	0.75	<b>0.83</b>	0.79	0.64	0.60	0.54
<b>m</b>	<b>1.467</b>	<b>4.400</b>	<b>7.333</b>	<b>10.267</b>	<b>13.200</b>	<b>16.133</b>	<b>19.067</b>	<b>22.000</b>	<b>24.933</b>	<b>27.867</b>	<b>30.800</b>	<b>33.733</b>	<b>36.667</b>	<b>39.600</b>	<b>42.533</b>

Raster: 15 x 6 Puncte

Lm [cd/m <sup>2</sup> ]	Lmin [cd/m <sup>2</sup> ]	Lmax [cd/m <sup>2</sup> ]	g1	g2
0.44	0.19	0.83	0.442	0.233

## Observator 2

### Densitate a luminii cu carosabil uscat [cd/m<sup>2</sup>]

<b>8.000</b>	0.20	<b>0.18</b>	<b>0.18</b>	0.21	0.21	0.22	0.26	0.29	0.27	0.25	0.24	0.24	0.19	0.19	0.20
<b>7.000</b>	0.27	0.26	0.25	0.26	0.26	0.28	0.31	0.34	0.36	0.33	0.33	0.34	0.30	0.28	0.27
<b>6.000</b>	0.33	0.33	0.33	0.33	0.34	0.35	0.36	0.40	0.42	0.47	0.47	0.46	0.43	0.37	0.34
<b>5.000</b>	0.41	0.39	0.37	0.40	0.42	0.42	0.45	0.48	0.49	0.55	0.66	0.62	0.52	0.45	0.42
<b>4.000</b>	0.48	0.46	0.45	0.49	0.50	0.51	0.55	0.60	0.61	0.64	0.73	0.72	0.59	0.54	0.49
<b>3.000</b>	0.45	0.44	0.43	0.50	0.54	0.58	0.64	0.68	0.69	0.72	<b>0.77</b>	0.72	0.57	0.54	0.48
<b>m</b>	<b>1.467</b>	<b>4.400</b>	<b>7.333</b>	<b>10.267</b>	<b>13.200</b>	<b>16.133</b>	<b>19.067</b>	<b>22.000</b>	<b>24.933</b>	<b>27.867</b>	<b>30.800</b>	<b>33.733</b>	<b>36.667</b>	<b>39.600</b>	<b>42.533</b>

Raster: 15 x 6 Puncte

Lm [cd/m <sup>2</sup> ]	Lmin [cd/m <sup>2</sup> ]	Lmax [cd/m <sup>2</sup> ]	g1	g2
0.42	0.18	0.77	0.425	0.231

### Densitate a luminii cu lampă nouă [cd/m<sup>2</sup>]

<b>8.000</b>	0.23	<b>0.21</b>	<b>0.21</b>	0.25	0.25	0.26	0.30	0.34	0.32	0.29	0.29	0.29	0.23	0.23	0.24
<b>7.000</b>	0.32	0.30	0.29	0.30	0.31	0.33	0.37	0.40	0.43	0.39	0.39	0.40	0.35	0.33	0.32
<b>6.000</b>	0.39	0.39	0.38	0.39	0.40	0.41	0.42	0.47	0.50	0.55	0.55	0.55	0.51	0.43	0.40
<b>5.000</b>	0.48	0.46	0.44	0.47	0.49	0.50	0.53	0.56	0.58	0.64	0.77	0.72	0.61	0.53	0.49
<b>4.000</b>	0.57	0.54	0.53	0.58	0.59	0.60	0.64	0.70	0.72	0.75	0.86	0.84	0.70	0.63	0.57
<b>3.000</b>	0.53	0.52	0.51	0.58	0.63	0.68	0.76	0.80	0.81	0.84	<b>0.91</b>	0.85	0.68	0.63	0.56
<b>m</b>	<b>1.467</b>	<b>4.400</b>	<b>7.333</b>	<b>10.267</b>	<b>13.200</b>	<b>16.133</b>	<b>19.067</b>	<b>22.000</b>	<b>24.933</b>	<b>27.867</b>	<b>30.800</b>	<b>33.733</b>	<b>36.667</b>	<b>39.600</b>	<b>42.533</b>

Raster: 15 x 6 Puncte

Lm [cd/m <sup>2</sup> ]	Lmin [cd/m <sup>2</sup> ]	Lmax [cd/m <sup>2</sup> ]	g1	g2
0.49	0.21	0.91	0.425	0.231





## sit. 32 (M6)

### Iluminare orizontală [lx]

<b>6.500</b>	7.97	6.55	5.34	4.15	3.12	2.66	2.54	2.54	2.66	3.12	4.15	5.34	6.55	7.97
<b>5.500</b>	9.36	7.70	5.97	4.23	3.13	2.64	2.44	2.44	2.64	3.13	4.23	5.97	7.70	9.36
<b>4.500</b>	10.4	8.39	6.22	4.27	3.11	2.48	2.27	2.27	2.48	3.11	4.27	6.22	8.39	10.4
<b>3.500</b>	11.3	8.89	6.28	4.16	2.85	2.28	2.08	2.08	2.28	2.85	4.16	6.28	8.89	11.3
<b>2.500</b>	<b>11.9</b>	8.63	5.86	3.69	2.56	2.05	1.87	1.87	2.05	2.56	3.69	5.86	8.63	<b>11.9</b>
<b>1.500</b>	10.0	7.15	4.84	3.14	2.23	1.81	<b>1.65</b>	<b>1.65</b>	1.81	2.23	3.14	4.84	7.15	10.0
m	<b>1.464</b>	<b>4.393</b>	<b>7.321</b>	<b>10.250</b>	<b>13.179</b>	<b>16.107</b>	<b>19.036</b>	<b>21.964</b>	<b>24.893</b>	<b>27.821</b>	<b>30.750</b>	<b>33.679</b>	<b>36.607</b>	<b>39.536</b>

Raster: 14 x 6 Puncte

Em [lx]	Emin [lx]	Emax [lx]	g1	g2
5.00	1.65	11.9	0.329	0.139

## Observator 1

### Densitate a luminii cu carosabil uscat [cd/m<sup>2</sup>]

<b>6.500</b>	0.26	0.23	0.21	0.21	<b>0.20</b>	0.21	0.24	0.26	0.25	0.26	0.28	0.27	0.26	0.27
<b>5.500</b>	0.30	0.26	0.24	0.23	0.23	0.24	0.27	0.29	0.30	0.30	0.33	0.34	0.33	0.33
<b>4.500</b>	0.34	0.31	0.28	0.27	0.28	0.28	0.30	0.34	0.35	0.37	0.38	0.40	0.38	0.37
<b>3.500</b>	0.39	0.34	0.31	0.31	0.33	0.35	0.38	0.41	0.40	0.43	0.44	0.45	0.45	0.41
<b>2.500</b>	0.44	0.39	0.38	0.38	0.41	0.43	0.46	0.49	0.48	0.47	0.48	0.49	0.46	0.46
<b>1.500</b>	0.40	0.37	0.38	0.40	0.44	0.46	0.48	<b>0.50</b>	0.49	0.47	0.46	0.45	0.42	0.42
<b>m</b>	<b>1.464</b>	<b>4.393</b>	<b>7.321</b>	<b>10.250</b>	<b>13.179</b>	<b>16.107</b>	<b>19.036</b>	<b>21.964</b>	<b>24.893</b>	<b>27.821</b>	<b>30.750</b>	<b>33.679</b>	<b>36.607</b>	<b>39.536</b>

Raster: 14 x 6 Puncte

Lm [cd/m <sup>2</sup> ]	Lmin [cd/m <sup>2</sup> ]	Lmax [cd/m <sup>2</sup> ]	g1	g2
0.35	0.20	0.50	0.565	0.398

### Densitate a luminii cu lampă nouă [cd/m<sup>2</sup>]

<b>6.500</b>	0.30	0.27	0.25	0.25	<b>0.24</b>	0.25	0.28	0.30	0.29	0.30	0.33	0.32	0.31	0.32
<b>5.500</b>	0.36	0.31	0.28	0.27	0.27	0.29	0.31	0.34	0.35	0.36	0.38	0.40	0.38	0.38
<b>4.500</b>	0.41	0.36	0.33	0.32	0.33	0.33	0.36	0.40	0.41	0.44	0.45	0.47	0.45	0.43
<b>3.500</b>	0.45	0.40	0.36	0.37	0.39	0.41	0.45	0.48	0.48	0.50	0.52	0.53	0.52	0.48
<b>2.500</b>	0.51	0.46	0.44	0.45	0.48	0.50	0.54	0.57	0.56	0.55	0.56	0.57	0.54	0.54
<b>1.500</b>	0.47	0.44	0.45	0.48	0.52	0.54	0.56	<b>0.59</b>	0.57	0.55	0.54	0.52	0.49	0.49
<b>m</b>	<b>1.464</b>	<b>4.393</b>	<b>7.321</b>	<b>10.250</b>	<b>13.179</b>	<b>16.107</b>	<b>19.036</b>	<b>21.964</b>	<b>24.893</b>	<b>27.821</b>	<b>30.750</b>	<b>33.679</b>	<b>36.607</b>	<b>39.536</b>

Raster: 14 x 6 Puncte

Lm [cd/m <sup>2</sup> ]	Lmin [cd/m <sup>2</sup> ]	Lmax [cd/m <sup>2</sup> ]	g1	g2
0.42	0.24	0.59	0.565	0.398

## Observator 2

### Densitate a luminii cu carosabil uscat [cd/m<sup>2</sup>]

<b>6.500</b>	0.27	0.24	<b>0.23</b>	<b>0.23</b>	<b>0.23</b>	0.24	0.26	0.28	0.27	0.28	0.30	0.29	0.27	0.28
<b>5.500</b>	0.33	0.30	0.28	0.28	0.28	0.28	0.31	0.33	0.33	0.33	0.35	0.36	0.34	0.34
<b>4.500</b>	0.38	0.35	0.32	0.33	0.35	0.36	0.38	0.39	0.39	0.42	0.42	0.42	0.41	0.39
<b>3.500</b>	0.44	0.42	0.41	0.41	0.43	0.44	0.46	0.49	0.47	0.47	0.48	0.48	0.47	0.44
<b>2.500</b>	0.46	0.43	0.43	0.45	0.48	0.51	0.53	<b>0.55</b>	0.52	0.51	0.51	0.51	0.48	0.48
<b>1.500</b>	0.36	0.32	0.33	0.35	0.40	0.44	0.46	0.49	0.48	0.46	0.45	0.44	0.40	0.40
<b>m</b>	<b>1.464</b>	<b>4.393</b>	<b>7.321</b>	<b>10.250</b>	<b>13.179</b>	<b>16.107</b>	<b>19.036</b>	<b>21.964</b>	<b>24.893</b>	<b>27.821</b>	<b>30.750</b>	<b>33.679</b>	<b>36.607</b>	<b>39.536</b>

Raster: 14 x 6 Puncte

Lm [cd/m <sup>2</sup> ]	Lmin [cd/m <sup>2</sup> ]	Lmax [cd/m <sup>2</sup> ]	g1	g2
0.39	0.23	0.55	0.596	0.417

### Densitate a luminii cu lampă nouă [cd/m<sup>2</sup>]

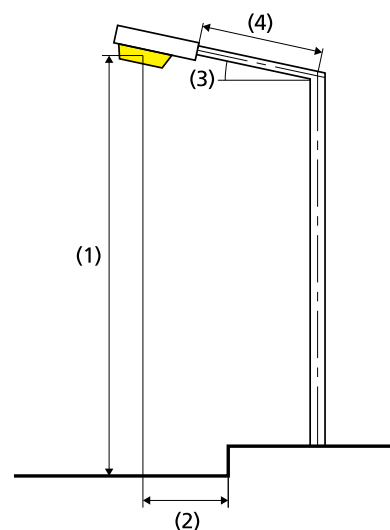
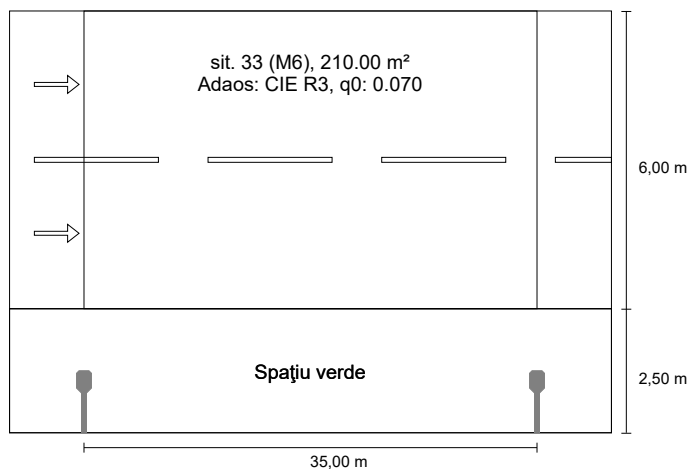
<b>6.500</b>	0.32	0.28	<b>0.27</b>	0.28	<b>0.27</b>	0.28	0.31	0.33	0.32	0.32	0.35	0.34	0.32	0.33
<b>5.500</b>	0.39	0.35	0.33	0.33	0.32	0.33	0.36	0.39	0.39	0.39	0.41	0.42	0.40	0.40
<b>4.500</b>	0.45	0.41	0.38	0.38	0.41	0.42	0.45	0.46	0.46	0.49	0.49	0.50	0.48	0.46
<b>3.500</b>	0.52	0.49	0.48	0.48	0.50	0.52	0.55	0.58	0.56	0.56	0.57	0.56	0.55	0.51
<b>2.500</b>	0.54	0.50	0.51	0.52	0.56	0.59	0.62	<b>0.65</b>	0.62	0.60	0.60	0.60	0.57	0.57
<b>1.500</b>	0.42	0.38	0.39	0.42	0.47	0.52	0.55	0.58	0.56	0.54	0.53	0.51	0.47	0.47
<b>m</b>	<b>1.464</b>	<b>4.393</b>	<b>7.321</b>	<b>10.250</b>	<b>13.179</b>	<b>16.107</b>	<b>19.036</b>	<b>21.964</b>	<b>24.893</b>	<b>27.821</b>	<b>30.750</b>	<b>33.679</b>	<b>36.607</b>	<b>39.536</b>

Raster: 14 x 6 Puncte

Lm [cd/m <sup>2</sup> ]	Lmin [cd/m <sup>2</sup> ]	Lmax [cd/m <sup>2</sup> ]	g1	g2
0.45	0.27	0.65	0.596	0.417

**sit. 33 până la EN 13201:2015**

**LUG LIGHT FACTORY 130232.5L192.101 4756  
URBINI LED 740 O9 700 II**



**Rezultate pentru câmpurile de evaluare**  
Factorul de menținere: 0.85

sit. 33 (M6)

Lm [cd/m²] ≥ 0.30	Uo ≥ 0.35	UI ≥ 0.40	TI [%] ≤ 20	EIR ≥ 0.30
✓ 0.36	✓ 0.53	✓ 0.86	✓ 11	✓ 0.67

**Rezultate pentru indicatorii de eficiență energetică**

<b>Indicatorul densității de putere (Dp)</b>	0.023 W/lx·m²
Densitatea consumului de energie	
Aranjament: 4756 URBINI LED 740 O9 700 II (108.0 kWh/an)	0.5 kWh/m² an

Lampă:	1xLED 4000K
Flux luminos (corp de iluminat):	3250.69 lm
Flux luminos (lampă):	3250.00 lm
Ore de lucru	
4000 h:	100.0 %, 27.0 W
W/km:	783.0
Aranjament:	Pe o parte Jos
Distanță stâlp:	35.000 m
Înclinare consolă (3):	0.0°
Lungime consolă (4):	1.000 m
Înălțimea deasupra planului util (1):	8.300 m
Ieșirea în consolă a punctului de lumină (2):	-1.500 m

ULR:	0.00
ULOR:	0.00

**Valori maxime ale intensității luminoase**

peste 70°	705 cd/klm *
peste 80°	211 cd/klm *
peste 90°	13.1 cd/klm *

Clasă intensitate luminoasă: /

Orice direcție ce formează unghiul dat cu verticala în jos a corpurilor de iluminat instalate pentru utilizare.

\* Luminous intensity values in [cd/klm] for calculating luminous intensity class refer to the output flux of the luminaire, according EN 13201:2015.

Aranjamentul respectă clasa cu indici de orbire D.2

## sit. 33 (M6)

### Iluminare orizontală [lx]

<b>8.000</b>	5.65	5.05	4.73	4.13	3.56	3.25	3.25	3.56	4.13	4.73	5.05	5.65
<b>7.000</b>	7.43	6.22	5.38	4.52	3.68	3.35	3.35	3.68	4.52	5.38	6.22	7.43
<b>6.000</b>	8.95	7.46	6.02	4.63	3.68	3.41	3.41	3.68	4.63	6.02	7.46	8.95
<b>5.000</b>	10.2	8.36	6.50	4.67	3.64	3.29	3.29	3.64	4.67	6.50	8.36	10.2
<b>4.000</b>	11.1	8.93	6.58	4.65	3.45	3.04	3.04	3.45	4.65	6.58	8.93	11.1
<b>3.000</b>	<b>12.0</b>	9.07	6.56	4.28	3.13	<b>2.76</b>	<b>2.76</b>	3.13	4.28	6.56	9.07	<b>12.0</b>
m	<b>1.458</b>	<b>4.375</b>	<b>7.292</b>	<b>10.208</b>	<b>13.125</b>	<b>16.042</b>	<b>18.958</b>	<b>21.875</b>	<b>24.792</b>	<b>27.708</b>	<b>30.625</b>	<b>33.542</b>

Raster: 12 x 6 Puncte

Em [lx]	Emin [lx]	Emax [lx]	g1	g2
5.65	2.76	12.0	0.489	0.230

## Observator 1

### Densitate a luminii cu carosabil uscat [cd/m<sup>2</sup>]

<b>8.000</b>	0.22	<b>0.21</b>	0.22	0.22	0.23	0.24	0.24	0.24	0.24	0.22	<b>0.21</b>	0.22
<b>7.000</b>	0.28	0.26	0.25	0.26	0.26	0.27	0.27	0.27	0.29	0.27	0.26	0.28
<b>6.000</b>	0.33	0.31	0.30	0.29	0.30	0.32	0.31	0.32	0.34	0.35	0.34	0.34
<b>5.000</b>	0.40	0.38	0.35	0.33	0.34	0.37	0.37	0.38	0.40	0.42	0.41	0.41
<b>4.000</b>	0.46	0.44	0.42	0.42	0.42	0.43	0.43	0.45	0.47	0.48	0.48	0.46
<b>3.000</b>	<b>0.57</b>	0.53	0.52	0.50	0.50	0.53	0.51	0.51	0.53	0.55	0.54	0.55
m	<b>1.458</b>	<b>4.375</b>	<b>7.292</b>	<b>10.208</b>	<b>13.125</b>	<b>16.042</b>	<b>18.958</b>	<b>21.875</b>	<b>24.792</b>	<b>27.708</b>	<b>30.625</b>	<b>33.542</b>

Raster: 12 x 6 Puncte

Lm [cd/m <sup>2</sup> ]	Lmin [cd/m <sup>2</sup> ]	Lmax [cd/m <sup>2</sup> ]	g1	g2
0.36	0.21	0.57	0.571	0.365

### Densitate a luminii cu lampă nouă [cd/m<sup>2</sup>]

<b>8.000</b>	0.26	<b>0.24</b>	0.26	0.26	0.27	0.28	0.28	0.29	0.28	0.26	<b>0.24</b>	0.26
<b>7.000</b>	0.33	0.30	0.30	0.30	0.31	0.32	0.32	0.32	0.34	0.32	0.31	0.33
<b>6.000</b>	0.39	0.37	0.35	0.34	0.35	0.38	0.37	0.37	0.40	0.41	0.40	0.40
<b>5.000</b>	0.47	0.44	0.41	0.39	0.40	0.43	0.43	0.45	0.47	0.49	0.48	0.48
<b>4.000</b>	0.54	0.52	0.50	0.49	0.50	0.51	0.51	0.53	0.55	0.57	0.57	0.54
<b>3.000</b>	<b>0.67</b>	0.63	0.61	0.58	0.59	0.62	0.60	0.59	0.62	0.65	0.64	0.65
m	<b>1.458</b>	<b>4.375</b>	<b>7.292</b>	<b>10.208</b>	<b>13.125</b>	<b>16.042</b>	<b>18.958</b>	<b>21.875</b>	<b>24.792</b>	<b>27.708</b>	<b>30.625</b>	<b>33.542</b>

Raster: 12 x 6 Puncte

Lm [cd/m <sup>2</sup> ]	Lmin [cd/m <sup>2</sup> ]	Lmax [cd/m <sup>2</sup> ]	g1	g2
0.43	0.24	0.67	0.571	0.365

## Observator 2

### Densitate a luminii cu carosabil uscat [cd/m<sup>2</sup>]

<b>8.000</b>	0.23	0.23	0.24	0.24	0.25	0.26	0.26	0.26	0.25	0.23	<b>0.21</b>	0.23
<b>7.000</b>	0.30	0.29	0.29	0.29	0.29	0.30	0.29	0.29	0.31	0.30	0.28	0.30
<b>6.000</b>	0.38	0.37	0.35	0.33	0.34	0.36	0.35	0.34	0.37	0.37	0.36	0.37
<b>5.000</b>	0.45	0.44	0.43	0.42	0.42	0.42	0.43	0.43	0.44	0.45	0.44	0.44
<b>4.000</b>	0.57	0.55	0.53	0.51	0.52	0.53	0.51	0.51	0.52	0.52	0.53	0.52
<b>3.000</b>	<b>0.62</b>	0.61	0.60	0.59	0.59	0.60	0.57	0.55	0.57	0.60	0.58	0.59
<b>m</b>	<b>1.458</b>	<b>4.375</b>	<b>7.292</b>	<b>10.208</b>	<b>13.125</b>	<b>16.042</b>	<b>18.958</b>	<b>21.875</b>	<b>24.792</b>	<b>27.708</b>	<b>30.625</b>	<b>33.542</b>

Raster: 12 x 6 Puncte

Lm [cd/m <sup>2</sup> ]	Lmin [cd/m <sup>2</sup> ]	Lmax [cd/m <sup>2</sup> ]	g1	g2
0.41	0.21	0.62	0.526	0.347

### Densitate a luminii cu lampă nouă [cd/m<sup>2</sup>]

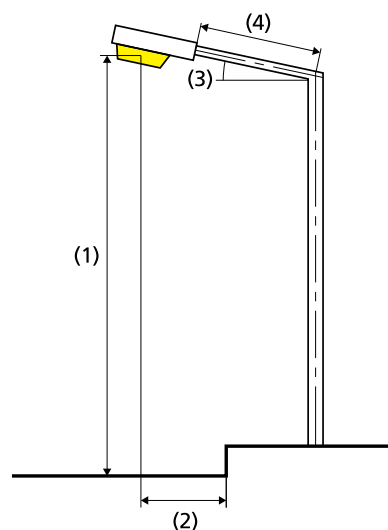
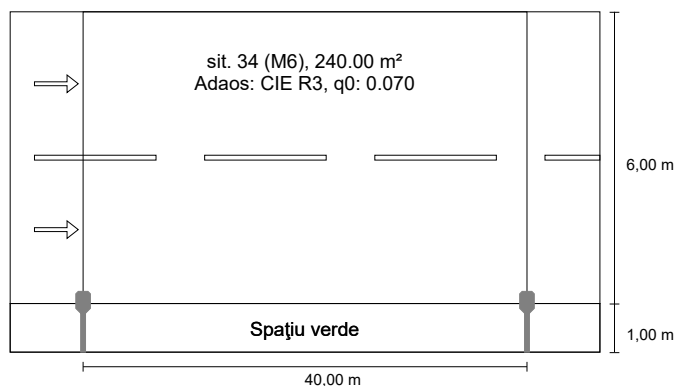
<b>8.000</b>	0.28	0.27	0.28	0.29	0.29	0.30	0.30	0.30	0.30	0.27	<b>0.25</b>	0.27
<b>7.000</b>	0.35	0.34	0.34	0.34	0.34	0.35	0.34	0.35	0.37	0.35	0.33	0.35
<b>6.000</b>	0.45	0.43	0.41	0.39	0.40	0.43	0.41	0.41	0.43	0.44	0.43	0.44
<b>5.000</b>	0.53	0.52	0.51	0.50	0.49	0.50	0.50	0.51	0.51	0.54	0.52	0.51
<b>4.000</b>	0.67	0.65	0.62	0.60	0.61	0.62	0.60	0.60	0.61	0.62	0.63	0.61
<b>3.000</b>	<b>0.73</b>	0.71	0.70	0.69	0.70	0.71	0.67	0.65	0.67	0.70	0.68	0.69
<b>m</b>	<b>1.458</b>	<b>4.375</b>	<b>7.292</b>	<b>10.208</b>	<b>13.125</b>	<b>16.042</b>	<b>18.958</b>	<b>21.875</b>	<b>24.792</b>	<b>27.708</b>	<b>30.625</b>	<b>33.542</b>

Raster: 12 x 6 Puncte

Lm [cd/m <sup>2</sup> ]	Lmin [cd/m <sup>2</sup> ]	Lmax [cd/m <sup>2</sup> ]	g1	g2
0.48	0.25	0.73	0.526	0.347

**sit. 34 până la EN 13201:2015**

**LUG LIGHT FACTORY 130232.5L192.101 4756**  
**URBINI LED 740 O9 700 II**



Rezultate pentru câmpurile de evaluare  
Factorul de mentinere: 0.85

sit. 34 (M6)

Lm [cd/m²] ≥ 0.30	Uo ≥ 0.35	UI ≥ 0.40	TI [%] ≤ 20	EIR ≥ 0.30
✓ 0.36	✓ 0.57	✓ 0.79	✓ 11	✓ 0.38

## Rezultate pentru indicatorii de eficiență energetică

Indicatorul densității de putere (Dp)	0.022 W/lxm <sup>2</sup>
---------------------------------------	--------------------------

### Densitatea consumului de energie

Aranjament: 4756 URBINI LED 740 O9 700 II (108.0 kWh/an) 0.5 kWh/m² an

Lampă:	1xLED 4000K
Flux luminos (corp de iluminat):	3250.69 lm
Flux luminos (lampă):	3250.00 lm
Ore de lucru	
4000 h:	100.0 %, 27.0 W
W/km:	675.0
Aranjament:	Pe o parte Jos
Distanță stâlp:	40.000 m
Înclinare consolă (3):	0.0°
Lungime consolă (4):	1.000 m
Înălțimea deasupra planului util (1):	8.300 m
Ieșirea în consolă a punctului de lumină (2):	0.000 m

ULR: 0.00

ULOR: 0.00

### Valori maxime ale intensității luminoase

peste 70° 705 cd/klm \*

peste 80° 211 cd/klm \*

peste 90° 13.1 cd/klm \*

Clasă intensitate luminoasă: /

Orice direcție ce formează unghiul dat cu verticala în jos a corpurilor de iluminat instalate pentru utilizare.

\* Luminous intensity values in [cd/klm] for calculating luminous intensity class refer to the output flux of the luminaire, according EN 13201:2015.

Aranjamentul respectă clasa cu indici de orbire D.2



## sit. 34 (M6)

### Iluminare orizontală [lx]

<b>6.500</b>	8.01	6.63	5.47	4.32	3.27	2.78	2.67	2.67	2.78	3.27	4.32	5.47	6.63	8.01
<b>5.500</b>	9.41	7.78	6.10	4.42	3.28	2.76	2.58	2.58	2.76	3.28	4.42	6.10	7.78	9.41
<b>4.500</b>	10.5	8.50	6.39	4.45	3.26	2.61	2.40	2.40	2.61	3.26	4.45	6.39	8.50	10.5
<b>3.500</b>	11.3	9.02	6.46	4.36	3.01	2.39	2.20	2.20	2.39	3.01	4.36	6.46	9.02	11.3
<b>2.500</b>	<b>11.9</b>	8.75	6.05	3.87	2.70	2.14	1.98	1.98	2.14	2.70	3.87	6.05	8.75	<b>11.9</b>
<b>1.500</b>	10.1	7.27	4.99	3.28	2.35	1.89	<b>1.75</b>	<b>1.75</b>	1.89	2.35	3.28	4.99	7.27	10.1
m	<b>1.429</b>	<b>4.286</b>	<b>7.143</b>	<b>10.000</b>	<b>12.857</b>	<b>15.714</b>	<b>18.571</b>	<b>21.429</b>	<b>24.286</b>	<b>27.143</b>	<b>30.000</b>	<b>32.857</b>	<b>35.714</b>	<b>38.571</b>

Raster: 14 x 6 Puncte

Em [lx]	Emin [lx]	Emax [lx]	g1	g2
5.13	1.75	11.9	0.341	0.147

## Observator 1

### Densitate a luminii cu carosabil uscat [cd/m<sup>2</sup>]

<b>6.500</b>	0.27	0.23	0.22	0.22	<b>0.21</b>	<b>0.21</b>	0.25	0.26	0.25	0.27	0.28	0.27	0.27	0.27
<b>5.500</b>	0.31	0.27	0.25	0.24	0.24	0.25	0.28	0.30	0.30	0.31	0.33	0.34	0.33	0.33
<b>4.500</b>	0.35	0.32	0.29	0.28	0.29	0.29	0.31	0.35	0.35	0.38	0.39	0.40	0.39	0.38
<b>3.500</b>	0.40	0.36	0.33	0.33	0.34	0.36	0.39	0.42	0.41	0.43	0.45	0.46	0.45	0.42
<b>2.500</b>	0.45	0.41	0.40	0.40	0.42	0.44	0.47	0.50	0.48	0.48	0.48	0.49	0.47	0.47
<b>1.500</b>	0.42	0.40	0.41	0.42	0.45	0.47	0.49	<b>0.51</b>	0.48	0.47	0.46	0.45	0.43	0.43
<b>m</b>	<b>1.429</b>	<b>4.286</b>	<b>7.143</b>	<b>10.000</b>	<b>12.857</b>	<b>15.714</b>	<b>18.571</b>	<b>21.429</b>	<b>24.286</b>	<b>27.143</b>	<b>30.000</b>	<b>32.857</b>	<b>35.714</b>	<b>38.571</b>

Raster: 14 x 6 Puncte

Lm [cd/m <sup>2</sup> ]	Lmin [cd/m <sup>2</sup> ]	Lmax [cd/m <sup>2</sup> ]	g1	g2
0.36	0.21	0.51	0.575	0.408

### Densitate a luminii cu lampă nouă [cd/m<sup>2</sup>]

<b>6.500</b>	0.31	0.27	0.26	0.26	<b>0.25</b>	<b>0.25</b>	0.29	0.31	0.30	0.31	0.33	0.32	0.31	0.32
<b>5.500</b>	0.36	0.32	0.29	0.28	0.28	0.29	0.32	0.35	0.35	0.37	0.39	0.40	0.39	0.39
<b>4.500</b>	0.42	0.37	0.34	0.33	0.34	0.34	0.37	0.41	0.41	0.45	0.45	0.47	0.46	0.44
<b>3.500</b>	0.47	0.42	0.38	0.39	0.41	0.43	0.46	0.49	0.48	0.51	0.52	0.54	0.53	0.49
<b>2.500</b>	0.53	0.48	0.47	0.47	0.50	0.52	0.55	0.58	0.56	0.56	0.57	0.58	0.55	0.55
<b>1.500</b>	0.49	0.47	0.48	0.50	0.53	0.55	0.57	<b>0.60</b>	0.57	0.55	0.54	0.53	0.50	0.51
<b>m</b>	<b>1.429</b>	<b>4.286</b>	<b>7.143</b>	<b>10.000</b>	<b>12.857</b>	<b>15.714</b>	<b>18.571</b>	<b>21.429</b>	<b>24.286</b>	<b>27.143</b>	<b>30.000</b>	<b>32.857</b>	<b>35.714</b>	<b>38.571</b>

Raster: 14 x 6 Puncte

Lm [cd/m <sup>2</sup> ]	Lmin [cd/m <sup>2</sup> ]	Lmax [cd/m <sup>2</sup> ]	g1	g2
0.43	0.25	0.60	0.575	0.408

## Observator 2

### Densitate a luminii cu carosabil uscat [cd/m<sup>2</sup>]

<b>6.500</b>	0.28	0.25	<b>0.24</b>	<b>0.24</b>	<b>0.24</b>	0.25	0.27	0.29	0.27	0.29	0.30	0.29	0.28	0.29
<b>5.500</b>	0.34	0.31	0.29	0.29	0.28	0.29	0.32	0.34	0.33	0.34	0.35	0.36	0.34	0.35
<b>4.500</b>	0.39	0.36	0.34	0.34	0.36	0.37	0.39	0.39	0.40	0.42	0.42	0.43	0.41	0.40
<b>3.500</b>	0.46	0.44	0.43	0.43	0.44	0.45	0.48	0.50	0.47	0.48	0.49	0.48	0.48	0.45
<b>2.500</b>	0.48	0.45	0.46	0.47	0.49	0.51	0.54	<b>0.56</b>	0.52	0.51	0.52	0.52	0.49	0.50
<b>1.500</b>	0.37	0.34	0.35	0.37	0.42	0.45	0.47	0.50	0.48	0.47	0.45	0.44	0.41	0.41
<b>m</b>	<b>1.429</b>	<b>4.286</b>	<b>7.143</b>	<b>10.000</b>	<b>12.857</b>	<b>15.714</b>	<b>18.571</b>	<b>21.429</b>	<b>24.286</b>	<b>27.143</b>	<b>30.000</b>	<b>32.857</b>	<b>35.714</b>	<b>38.571</b>

Raster: 14 x 6 Puncte

Lm [cd/m <sup>2</sup> ]	Lmin [cd/m <sup>2</sup> ]	Lmax [cd/m <sup>2</sup> ]	g1	g2
0.39	0.24	0.56	0.605	0.428

### Densitate a luminii cu lampă nouă [cd/m<sup>2</sup>]

<b>6.500</b>	0.33	0.29	<b>0.28</b>	0.29	<b>0.28</b>	0.29	0.32	0.34	0.32	0.34	0.36	0.34	0.33	0.34
<b>5.500</b>	0.40	0.37	0.34	0.34	0.33	0.34	0.37	0.40	0.39	0.40	0.42	0.42	0.40	0.41
<b>4.500</b>	0.46	0.43	0.40	0.40	0.42	0.43	0.45	0.46	0.47	0.50	0.49	0.50	0.48	0.47
<b>3.500</b>	0.54	0.52	0.50	0.50	0.52	0.53	0.56	0.59	0.56	0.56	0.58	0.57	0.56	0.53
<b>2.500</b>	0.56	0.53	0.54	0.55	0.58	0.60	0.64	<b>0.66</b>	0.61	0.60	0.61	0.61	0.58	0.59
<b>1.500</b>	0.44	0.40	0.41	0.44	0.49	0.52	0.56	0.59	0.56	0.55	0.53	0.52	0.48	0.49
<b>m</b>	<b>1.429</b>	<b>4.286</b>	<b>7.143</b>	<b>10.000</b>	<b>12.857</b>	<b>15.714</b>	<b>18.571</b>	<b>21.429</b>	<b>24.286</b>	<b>27.143</b>	<b>30.000</b>	<b>32.857</b>	<b>35.714</b>	<b>38.571</b>

Raster: 14 x 6 Puncte

Lm [cd/m <sup>2</sup> ]	Lmin [cd/m <sup>2</sup> ]	Lmax [cd/m <sup>2</sup> ]	g1	g2
0.46	0.28	0.66	0.605	0.428



## sit. 35 (M6)

### Iluminare orizontală [lx]

<b>6.500</b>	7.97	6.55	5.34	4.15	3.12	2.66	2.54	2.54	2.66	3.12	4.15	5.34	6.55	7.97
<b>5.500</b>	9.36	7.70	5.97	4.23	3.13	2.64	2.44	2.44	2.64	3.13	4.23	5.97	7.70	9.36
<b>4.500</b>	10.4	8.39	6.22	4.27	3.11	2.48	2.27	2.27	2.48	3.11	4.27	6.22	8.39	10.4
<b>3.500</b>	11.3	8.89	6.28	4.16	2.85	2.28	2.08	2.08	2.28	2.85	4.16	6.28	8.89	11.3
<b>2.500</b>	<b>11.9</b>	8.63	5.86	3.69	2.56	2.05	1.87	1.87	2.05	2.56	3.69	5.86	8.63	<b>11.9</b>
<b>1.500</b>	10.0	7.15	4.84	3.14	2.23	1.81	<b>1.65</b>	<b>1.65</b>	1.81	2.23	3.14	4.84	7.15	10.0
m	<b>1.464</b>	<b>4.393</b>	<b>7.321</b>	<b>10.250</b>	<b>13.179</b>	<b>16.107</b>	<b>19.036</b>	<b>21.964</b>	<b>24.893</b>	<b>27.821</b>	<b>30.750</b>	<b>33.679</b>	<b>36.607</b>	<b>39.536</b>

Raster: 14 x 6 Puncte

Em [lx]	Emin [lx]	Emax [lx]	g1	g2
5.00	1.65	11.9	0.329	0.139

## Observator 1

### Densitate a luminii cu carosabil uscat [cd/m²]

<b>6.500</b>	0.26	0.23	0.21	0.21	<b>0.20</b>	0.21	0.24	0.26	0.25	0.26	0.28	0.27	0.26	0.27
<b>5.500</b>	0.30	0.26	0.24	0.23	0.23	0.24	0.27	0.29	0.30	0.30	0.33	0.34	0.33	0.33
<b>4.500</b>	0.34	0.31	0.28	0.27	0.28	0.28	0.30	0.34	0.35	0.37	0.38	0.40	0.38	0.37
<b>3.500</b>	0.39	0.34	0.31	0.31	0.33	0.35	0.38	0.41	0.40	0.43	0.44	0.45	0.45	0.41
<b>2.500</b>	0.44	0.39	0.38	0.38	0.41	0.43	0.46	0.49	0.48	0.47	0.48	0.49	0.46	0.46
<b>1.500</b>	0.40	0.37	0.38	0.40	0.44	0.46	0.48	<b>0.50</b>	0.49	0.47	0.46	0.45	0.42	0.42
<b>m</b>	<b>1.464</b>	<b>4.393</b>	<b>7.321</b>	<b>10.250</b>	<b>13.179</b>	<b>16.107</b>	<b>19.036</b>	<b>21.964</b>	<b>24.893</b>	<b>27.821</b>	<b>30.750</b>	<b>33.679</b>	<b>36.607</b>	<b>39.536</b>

Raster: 14 x 6 Puncte

Lm [cd/m²]	Lmin [cd/m²]	Lmax [cd/m²]	g1	g2
0.35	0.20	0.50	0.565	0.398

### Densitate a luminii cu lampă nouă [cd/m²]

<b>6.500</b>	0.30	0.27	0.25	0.25	<b>0.24</b>	0.25	0.28	0.30	0.29	0.30	0.33	0.32	0.31	0.32
<b>5.500</b>	0.36	0.31	0.28	0.27	0.27	0.29	0.31	0.34	0.35	0.36	0.38	0.40	0.38	0.38
<b>4.500</b>	0.41	0.36	0.33	0.32	0.33	0.33	0.36	0.40	0.41	0.44	0.45	0.47	0.45	0.43
<b>3.500</b>	0.45	0.40	0.36	0.37	0.39	0.41	0.45	0.48	0.48	0.50	0.52	0.53	0.52	0.48
<b>2.500</b>	0.51	0.46	0.44	0.45	0.48	0.50	0.54	0.57	0.56	0.55	0.56	0.57	0.54	0.54
<b>1.500</b>	0.47	0.44	0.45	0.48	0.52	0.54	0.56	<b>0.59</b>	0.57	0.55	0.54	0.52	0.49	0.49
<b>m</b>	<b>1.464</b>	<b>4.393</b>	<b>7.321</b>	<b>10.250</b>	<b>13.179</b>	<b>16.107</b>	<b>19.036</b>	<b>21.964</b>	<b>24.893</b>	<b>27.821</b>	<b>30.750</b>	<b>33.679</b>	<b>36.607</b>	<b>39.536</b>

Raster: 14 x 6 Puncte

Lm [cd/m²]	Lmin [cd/m²]	Lmax [cd/m²]	g1	g2
0.42	0.24	0.59	0.565	0.398

## Observator 2

### Densitate a luminii cu carosabil uscat [cd/m<sup>2</sup>]

<b>6.500</b>	0.27	0.24	<b>0.23</b>	<b>0.23</b>	<b>0.23</b>	0.24	0.26	0.28	0.27	0.28	0.30	0.29	0.27	0.28
<b>5.500</b>	0.33	0.30	0.28	0.28	0.28	0.28	0.31	0.33	0.33	0.33	0.35	0.36	0.34	0.34
<b>4.500</b>	0.38	0.35	0.32	0.33	0.35	0.36	0.38	0.39	0.39	0.42	0.42	0.42	0.41	0.39
<b>3.500</b>	0.44	0.42	0.41	0.41	0.43	0.44	0.46	0.49	0.47	0.47	0.48	0.48	0.47	0.44
<b>2.500</b>	0.46	0.43	0.43	0.45	0.48	0.51	0.53	<b>0.55</b>	0.52	0.51	0.51	0.51	0.48	0.48
<b>1.500</b>	0.36	0.32	0.33	0.35	0.40	0.44	0.46	0.49	0.48	0.46	0.45	0.44	0.40	0.40
<b>m</b>	<b>1.464</b>	<b>4.393</b>	<b>7.321</b>	<b>10.250</b>	<b>13.179</b>	<b>16.107</b>	<b>19.036</b>	<b>21.964</b>	<b>24.893</b>	<b>27.821</b>	<b>30.750</b>	<b>33.679</b>	<b>36.607</b>	<b>39.536</b>

Raster: 14 x 6 Puncte

Lm [cd/m <sup>2</sup> ]	Lmin [cd/m <sup>2</sup> ]	Lmax [cd/m <sup>2</sup> ]	g1	g2
0.39	0.23	0.55	0.596	0.417

### Densitate a luminii cu lampă nouă [cd/m<sup>2</sup>]

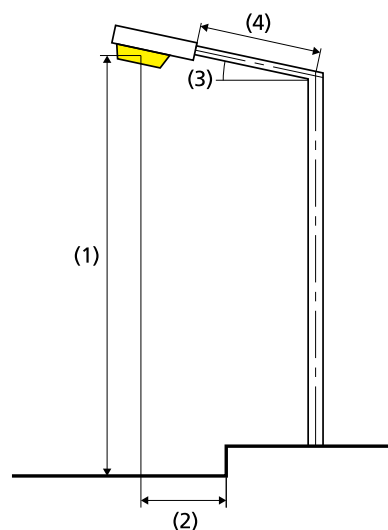
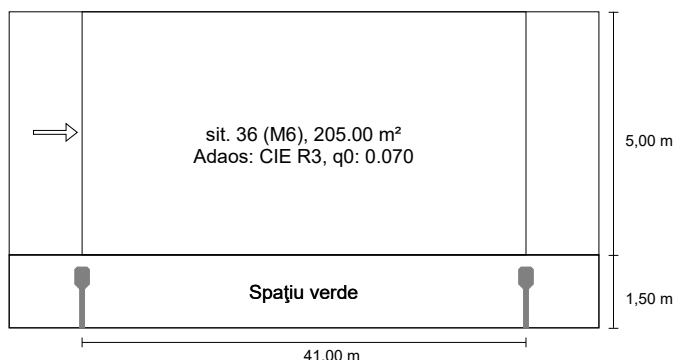
<b>6.500</b>	0.32	0.28	<b>0.27</b>	0.28	<b>0.27</b>	0.28	0.31	0.33	0.32	0.32	0.35	0.34	0.32	0.33
<b>5.500</b>	0.39	0.35	0.33	0.33	0.32	0.33	0.36	0.39	0.39	0.39	0.41	0.42	0.40	0.40
<b>4.500</b>	0.45	0.41	0.38	0.38	0.41	0.42	0.45	0.46	0.46	0.49	0.49	0.50	0.48	0.46
<b>3.500</b>	0.52	0.49	0.48	0.48	0.50	0.52	0.55	0.58	0.56	0.56	0.57	0.56	0.55	0.51
<b>2.500</b>	0.54	0.50	0.51	0.52	0.56	0.59	0.62	<b>0.65</b>	0.62	0.60	0.60	0.60	0.57	0.57
<b>1.500</b>	0.42	0.38	0.39	0.42	0.47	0.52	0.55	0.58	0.56	0.54	0.53	0.51	0.47	0.47
<b>m</b>	<b>1.464</b>	<b>4.393</b>	<b>7.321</b>	<b>10.250</b>	<b>13.179</b>	<b>16.107</b>	<b>19.036</b>	<b>21.964</b>	<b>24.893</b>	<b>27.821</b>	<b>30.750</b>	<b>33.679</b>	<b>36.607</b>	<b>39.536</b>

Raster: 14 x 6 Puncte

Lm [cd/m <sup>2</sup> ]	Lmin [cd/m <sup>2</sup> ]	Lmax [cd/m <sup>2</sup> ]	g1	g2
0.45	0.27	0.65	0.596	0.417

**sit. 36 până la EN 13201:2015**

**LUG LIGHT FACTORY 130232.5L192.101 4756  
URBINI LED 740 O9 700 II**



Rezultate pentru câmpurile de evaluare  
Factorul de menținere: 0.85

sit. 36 (M6)

Lm [cd/m²] ≥ 0.30	Uo ≥ 0.35	UI ≥ 0.40	TI [%] ≤ 20	EIR ≥ 0.30
✓ 0.38	✓ 0.63	✓ 0.72	✓ 11	✓ 0.35

Rezultate pentru indicatorii de eficiență energetică

Indicatorul densității de putere (Dp)	0.025 W/lx·m²
Densitatea consumului de energie	
Aranjament: 4756 URBINI LED 740 O9 700 II (108.0 kWh/an)	0.5 kWh/m² an

Lampă:	1xLED 4000K
Flux luminos (corp de iluminat):	3250.69 lm
Flux luminos (lampă):	3250.00 lm
Ore de lucru	
4000 h:	100.0 %, 27.0 W
W/km:	648.0
Aranjament:	Pe o parte Jos
Distanță stâlp:	41.000 m
Înclinare consolă (3):	0.0°
Lungime consolă (4):	1.000 m
Înălțimea deasupra planului util (1):	8.300 m
Ieșirea în consolă a punctului de lumină (2):	-0.500 m

ULR:	0.00
ULOR:	0.00

Valori maxime ale intensității luminoase

peste 70°	705 cd/klm *
peste 80°	211 cd/klm *
peste 90°	13.1 cd/klm *

Clasă intensitate luminoasă: /

Orice direcție ce formează unghiul dat cu verticala în jos a corpurilor de iluminat instalate pentru utilizare.

\* Luminous intensity values in [cd/klm] for calculating luminous intensity class refer to the output flux of the luminaire, according EN 13201:2015.

Aranjamentul respectă clasa cu indici de orbire D.2



## sit. 36 (M6)

### Iluminare orizontală [lx]

<b>5.667</b>	9.15	7.53	5.87	4.22	3.13	2.64	2.46	2.46	2.64	3.13	4.22	5.87	7.53	9.15
<b>4.000</b>	10.8	8.67	6.26	4.27	2.99	2.38	2.17	2.17	2.38	2.99	4.27	6.26	8.67	10.8
<b>2.333</b>	<b>11.7</b>	8.55	5.70	3.60	2.51	2.01	<b>1.83</b>	<b>1.83</b>	2.01	2.51	3.60	5.70	8.55	<b>11.7</b>
m	<b>1.464</b>	<b>4.393</b>	<b>7.321</b>	<b>10.250</b>	<b>13.179</b>	<b>16.107</b>	<b>19.036</b>	<b>21.964</b>	<b>24.893</b>	<b>27.821</b>	<b>30.750</b>	<b>33.679</b>	<b>36.607</b>	<b>39.536</b>

Raster: 14 x 3 Puncte

Em [lx]	Emin [lx]	Emax [lx]	g1	g2
5.17	1.83	11.7	0.355	0.157

## Observator 1

### Densitate a luminii cu carosabil uscat [cd/m<sup>2</sup>]

<b>5.667</b>	0.31	0.27	0.25	<b>0.24</b>	<b>0.24</b>	0.25	0.28	0.30	0.30	0.31	0.33	0.34	0.32	0.32
<b>4.000</b>	0.38	0.35	0.32	0.32	0.34	0.36	0.38	0.40	0.40	0.42	0.43	0.44	0.43	0.40
<b>2.333</b>	0.46	0.42	0.41	0.42	0.46	0.49	0.51	<b>0.53</b>	0.51	0.50	0.50	0.50	0.47	0.47
m	<b>1.464</b>	<b>4.393</b>	<b>7.321</b>	<b>10.250</b>	<b>13.179</b>	<b>16.107</b>	<b>19.036</b>	<b>21.964</b>	<b>24.893</b>	<b>27.821</b>	<b>30.750</b>	<b>33.679</b>	<b>36.607</b>	<b>39.536</b>

Raster: 14 x 3 Puncte

Lm [cd/m <sup>2</sup> ]	Lmin [cd/m <sup>2</sup> ]	Lmax [cd/m <sup>2</sup> ]	g1	g2
0.38	0.24	0.53	0.626	0.453

### Densitate a luminii cu lampă nouă [cd/m<sup>2</sup>]

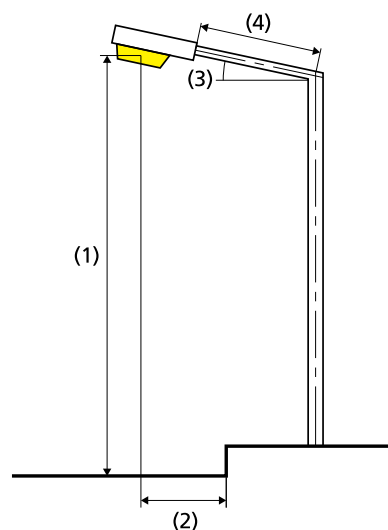
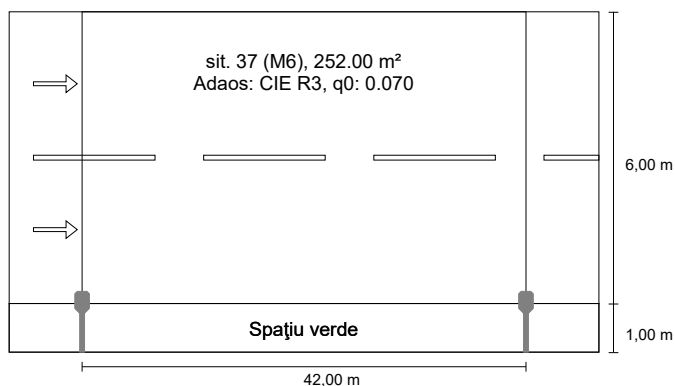
<b>5.667</b>	0.36	0.32	0.29	<b>0.28</b>	<b>0.28</b>	0.30	0.33	0.35	0.36	0.36	0.39	0.40	0.38	0.38
<b>4.000</b>	0.45	0.41	0.37	0.38	0.40	0.42	0.45	0.47	0.47	0.50	0.51	0.51	0.50	0.47
<b>2.333</b>	0.54	0.49	0.48	0.50	0.54	0.57	0.60	<b>0.62</b>	0.60	0.58	0.59	0.59	0.56	0.55
m	<b>1.464</b>	<b>4.393</b>	<b>7.321</b>	<b>10.250</b>	<b>13.179</b>	<b>16.107</b>	<b>19.036</b>	<b>21.964</b>	<b>24.893</b>	<b>27.821</b>	<b>30.750</b>	<b>33.679</b>	<b>36.607</b>	<b>39.536</b>

Raster: 14 x 3 Puncte

Lm [cd/m <sup>2</sup> ]	Lmin [cd/m <sup>2</sup> ]	Lmax [cd/m <sup>2</sup> ]	g1	g2
0.45	0.28	0.62	0.626	0.453

**sit. 37 până la EN 13201:2015**

**LUG LIGHT FACTORY 130232.5L192.101 4756**  
**URBINI LED 740 O9 700 II**



Rezultate pentru câmpurile de evaluare  
Factorul de mentinere: 0.85

sit. 37 (M6)

Lm [cd/m²] ≥ 0.30	Uo ≥ 0.35	UI ≥ 0.40	TI [%] ≤ 20	EIR ≥ 0.30
✓ 0.32	✓ 0.62	✓ 0.80	✓ 9	✓ 0.40

## Rezultate pentru indicatorii de eficiență energetică

Indicatorul densității de putere (Dp)	0.024 W/lxm <sup>2</sup>
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### Densitatea consumului de energie

Aranjament: 4756 URBINI LED 740 O9 700 II (108.0 kWh/an) 0.4 kWh/m² an

Lampă:	1xLED 4000K
Flux luminos (corp de iluminat):	3250.69 lm
Flux luminos (lampă):	3250.00 lm
Ore de lucru	
4000 h:	100.0 %, 27.0 W
W/km:	648.0
Aranjament:	Pe o parte Jos
Distanță stâlp:	42.000 m
Înclinare consolă (3):	0.0°
Lungime consolă (4):	1.000 m
Înălțimea deasupra planului util (1):	9.300 m
Ieșirea în consolă a punctului de lumină (2):	0.000 m

ULR: 0.00

ULOR: 0.00

### Valori maxime ale intensității luminoase

peste 70° 705 cd/klm \*

peste 80° 211 cd/klm \*

peste 90° 13.1 cd/klm \*

Clasă intensitate luminoasă: /

Orice direcție ce formează unghiul dat cu verticala în jos a corpurilor de iluminat instalate pentru utilizare.

\* Luminous intensity values in [cd/klm] for calculating luminous intensity class refer to the output flux of the luminaire, according EN 13201:2015.

Aranjamentul respectă clasa cu indici de orbire D.2

## sit. 37 (M6)

### Iluminare orizontală [lx]

<b>6.500</b>	7.16	6.05	4.93	3.88	2.96	2.48	2.40	2.40	2.48	2.96	3.88	4.93	6.05	7.16
<b>5.500</b>	8.05	6.73	5.35	3.94	2.96	2.45	2.29	2.29	2.45	2.96	3.94	5.35	6.73	8.05
<b>4.500</b>	8.69	7.18	5.49	3.95	2.91	2.29	2.13	2.13	2.29	2.91	3.95	5.49	7.18	8.69
<b>3.500</b>	9.35	7.49	5.50	3.82	2.68	2.11	1.96	1.96	2.11	2.68	3.82	5.50	7.49	9.35
<b>2.500</b>	<b>9.50</b>	7.16	5.09	3.39	2.41	1.90	1.78	1.78	1.90	2.41	3.39	5.09	7.16	<b>9.50</b>
<b>1.500</b>	7.99	5.95	4.24	2.91	2.12	1.69	<b>1.59</b>	<b>1.59</b>	1.69	2.12	2.91	4.24	5.95	7.99
m	<b>1.500</b>	<b>4.500</b>	<b>7.500</b>	<b>10.500</b>	<b>13.500</b>	<b>16.500</b>	<b>19.500</b>	<b>22.500</b>	<b>25.500</b>	<b>28.500</b>	<b>31.500</b>	<b>34.500</b>	<b>37.500</b>	<b>40.500</b>

Raster: 14 x 6 Puncte

Em [lx]	Emin [lx]	Emax [lx]	g1	g2
4.40	1.59	9.50	0.361	0.167

## Observator 1

### Densitate a luminii cu carosabil uscat [cd/m²]

<b>6.500</b>	0.24	0.22	<b>0.20</b>	<b>0.20</b>	<b>0.20</b>	<b>0.20</b>	0.22	0.23	0.22	0.25	0.25	0.25	0.25	0.25
<b>5.500</b>	0.27	0.25	0.23	0.22	0.22	0.23	0.25	0.26	0.27	0.29	0.29	0.31	0.29	0.30
<b>4.500</b>	0.31	0.29	0.27	0.26	0.26	0.26	0.28	0.30	0.31	0.33	0.33	0.35	0.34	0.33
<b>3.500</b>	0.35	0.33	0.30	0.30	0.31	0.32	0.35	0.35	0.35	0.37	0.37	0.39	0.38	0.37
<b>2.500</b>	0.40	0.38	0.36	0.36	0.37	0.37	0.40	<b>0.41</b>	0.39	0.39	0.40	<b>0.41</b>	0.39	0.40
<b>1.500</b>	0.37	0.36	0.36	0.37	0.38	0.38	<b>0.41</b>	<b>0.41</b>	0.38	0.38	0.38	0.37	0.36	0.37
m	<b>1.500</b>	<b>4.500</b>	<b>7.500</b>	<b>10.500</b>	<b>13.500</b>	<b>16.500</b>	<b>19.500</b>	<b>22.500</b>	<b>25.500</b>	<b>28.500</b>	<b>31.500</b>	<b>34.500</b>	<b>37.500</b>	<b>40.500</b>

Raster: 14 x 6 Puncte

Lm [cd/m²]	Lmin [cd/m²]	Lmax [cd/m²]	g1	g2
0.32	0.20	0.41	0.616	0.476

### Densitate a luminii cu lampă nouă [cd/m²]

<b>6.500</b>	0.29	0.26	0.24	0.24	<b>0.23</b>	0.24	0.26	0.28	0.26	0.29	0.30	0.29	0.30	0.30
<b>5.500</b>	0.32	0.30	0.27	0.26	0.26	0.27	0.29	0.31	0.31	0.34	0.34	0.36	0.35	0.35
<b>4.500</b>	0.37	0.34	0.32	0.31	0.31	0.31	0.33	0.35	0.36	0.39	0.39	0.41	0.40	0.38
<b>3.500</b>	0.41	0.39	0.35	0.36	0.36	0.38	0.41	0.42	0.41	0.43	0.44	0.46	0.45	0.43
<b>2.500</b>	0.47	0.44	0.42	0.42	0.43	0.44	0.47	<b>0.48</b>	0.46	0.46	0.47	<b>0.48</b>	0.46	<b>0.48</b>
<b>1.500</b>	0.43	0.43	0.43	0.44	0.45	0.45	<b>0.48</b>	<b>0.48</b>	0.45	0.45	0.44	0.44	0.42	0.44
m	<b>1.500</b>	<b>4.500</b>	<b>7.500</b>	<b>10.500</b>	<b>13.500</b>	<b>16.500</b>	<b>19.500</b>	<b>22.500</b>	<b>25.500</b>	<b>28.500</b>	<b>31.500</b>	<b>34.500</b>	<b>37.500</b>	<b>40.500</b>

Raster: 14 x 6 Puncte

Lm [cd/m²]	Lmin [cd/m²]	Lmax [cd/m²]	g1	g2
0.37	0.23	0.48	0.616	0.476

## Observator 2

### Densitate a luminii cu carosabil uscat [cd/m<sup>2</sup>]

<b>6.500</b>	0.26	0.25	<b>0.22</b>	<b>0.22</b>	<b>0.22</b>	0.23	0.25	0.26	0.25	0.27	0.27	0.27	0.27	0.27
<b>5.500</b>	0.30	0.29	0.27	0.27	0.27	0.26	0.28	0.30	0.30	0.31	0.31	0.33	0.31	0.31
<b>4.500</b>	0.35	0.34	0.31	0.32	0.33	0.33	0.35	0.35	0.35	0.37	0.36	0.37	0.36	0.35
<b>3.500</b>	0.42	0.41	0.39	0.39	0.39	0.39	0.41	0.42	0.40	0.40	0.41	0.42	0.41	0.40
<b>2.500</b>	0.42	0.41	0.40	0.41	0.42	0.42	<b>0.45</b>	<b>0.45</b>	0.42	0.42	0.42	0.43	0.42	0.43
<b>1.500</b>	0.32	0.31	0.31	0.33	0.36	0.37	0.39	0.40	0.38	0.37	0.37	0.36	0.34	0.36
m	<b>1.500</b>	<b>4.500</b>	<b>7.500</b>	<b>10.500</b>	<b>13.500</b>	<b>16.500</b>	<b>19.500</b>	<b>22.500</b>	<b>25.500</b>	<b>28.500</b>	<b>31.500</b>	<b>34.500</b>	<b>37.500</b>	<b>40.500</b>

Raster: 14 x 6 Puncte

Lm [cd/m <sup>2</sup> ]	Lmin [cd/m <sup>2</sup> ]	Lmax [cd/m <sup>2</sup> ]	g1	g2
0.35	0.22	0.45	0.644	0.495

### Densitate a luminii cu lampă nouă [cd/m<sup>2</sup>]

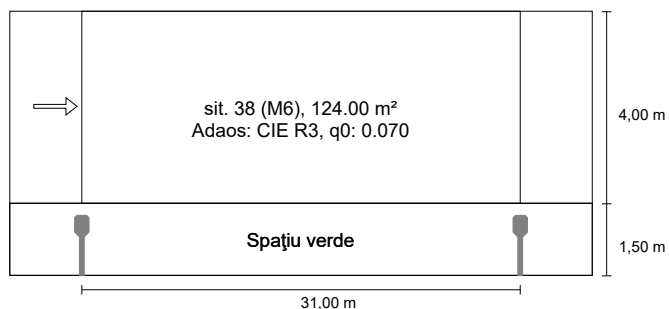
<b>6.500</b>	0.31	0.29	<b>0.26</b>	<b>0.26</b>	<b>0.26</b>	0.27	0.29	0.31	0.29	0.31	0.32	0.31	0.31	0.32
<b>5.500</b>	0.36	0.34	0.32	0.32	0.31	0.31	0.34	0.35	0.35	0.37	0.36	0.38	0.36	0.37
<b>4.500</b>	0.42	0.40	0.37	0.37	0.38	0.39	0.41	0.41	0.41	0.43	0.42	0.44	0.43	0.41
<b>3.500</b>	0.49	0.49	0.46	0.46	0.46	0.46	0.49	0.49	0.47	0.47	0.48	0.49	0.48	0.47
<b>2.500</b>	0.49	0.48	0.47	0.48	0.50	0.50	<b>0.53</b>	<b>0.53</b>	0.49	0.49	0.49	0.51	0.49	0.50
<b>1.500</b>	0.38	0.37	0.37	0.39	0.42	0.43	0.46	0.47	0.44	0.44	0.43	0.42	0.40	0.42
m	<b>1.500</b>	<b>4.500</b>	<b>7.500</b>	<b>10.500</b>	<b>13.500</b>	<b>16.500</b>	<b>19.500</b>	<b>22.500</b>	<b>25.500</b>	<b>28.500</b>	<b>31.500</b>	<b>34.500</b>	<b>37.500</b>	<b>40.500</b>

Raster: 14 x 6 Puncte

Lm [cd/m <sup>2</sup> ]	Lmin [cd/m <sup>2</sup> ]	Lmax [cd/m <sup>2</sup> ]	g1	g2
0.41	0.26	0.53	0.644	0.495

**sit. 38 până la EN 13201:2015**

**LUG LIGHT FACTORY 130232.5L192.101 4756  
URBINI LED 740 O9 700 II**



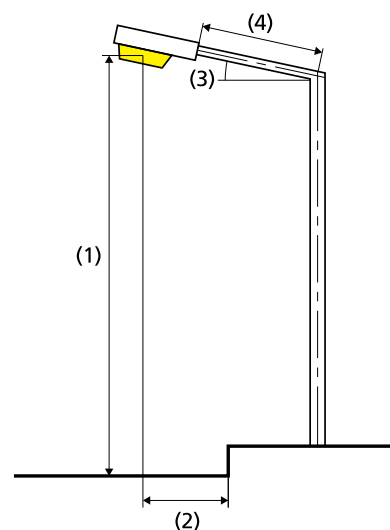
Rezultate pentru câmpurile de evaluare  
Factorul de menținere: 0.85

sit. 38 (M6)

Lm [cd/m²] ≥ 0.30	Uo ≥ 0.35	UI ≥ 0.40	TI [%] ≤ 20	EIR ≥ 0.30
✓ 0.49	✓ 0.74	✓ 0.80	✓ 9	✓ 0.30

Rezultate pentru indicatorii de eficiență energetică

Indicatorul densității de putere (Dp)	0.034 W/lxm²
Densitatea consumului de energie	
Aranjament: 4756 URBINI LED 740 O9 700 II (108.0 kWh/an)	0.9 kWh/m² an



Lampă:	1xLED 4000K
Flux luminos (corp de iluminat):	3250.69 lm
Flux luminos (lampă):	3250.00 lm
Ore de lucru	
4000 h:	100.0 %, 27.0 W
W/km:	864.0
Aranjament:	Pe o parte Jos
Distanță stâlp:	31.000 m
Înclinare consolă (3):	5.0°
Lungime consolă (4):	0.993 m
Înălțimea deasupra planului util (1):	8.300 m
Ieșirea în consolă a punctului de lumină (2):	-0.500 m

ULR:	0.00
ULOR:	0.00

Valori maxime ale intensității luminoase

peste 70°	698 cd/klm *
peste 80°	390 cd/klm *
peste 90°	30.8 cd/klm *

Clasă intensitate luminoasă: /

Orice direcție ce formează unghiul dat cu verticala în jos a corpurilor de iluminat instalate pentru utilizare.

\* Luminous intensity values in [cd/klm] for calculating luminous intensity class refer to the output flux of the luminaire, according EN 13201:2015.

Aranjamentul respectă clasa cu indici de orbire D.0

## sit. 38 (M6)

### Iluminare orizontală [lx]

<b>4.833</b>	10.3	8.59	6.63	5.00	3.99	3.57	3.99	5.00	6.63	8.59	10.3
<b>3.500</b>	<b>11.7</b>	8.91	6.62	4.57	3.56	3.19	3.56	4.57	6.62	8.91	<b>11.7</b>
<b>2.167</b>	10.1	7.45	5.33	3.77	3.03	<b>2.73</b>	3.03	3.77	5.33	7.45	10.1
m	<b>1.409</b>	<b>4.227</b>	<b>7.045</b>	<b>9.864</b>	<b>12.682</b>	<b>15.500</b>	<b>18.318</b>	<b>21.136</b>	<b>23.955</b>	<b>26.773</b>	<b>29.591</b>

Raster: 11 x 3 Puncte

Em [lx]	Emin [lx]	Emax [lx]	g1	g2
6.32	2.73	11.7	0.432	0.234



## Observator 1

### Densitate a luminii cu carosabil uscat [cd/m²]

<b>4.833</b>	0.44	0.41	0.37	0.37	0.37	<b>0.36</b>	0.40	0.42	0.45	0.45	0.46
<b>3.500</b>	0.55	0.51	0.48	0.47	0.46	0.44	0.47	0.49	0.54	0.55	0.55
<b>2.167</b>	<b>0.61</b>	0.58	0.55	0.54	0.54	0.51	0.52	0.53	0.54	0.56	0.59
m	<b>1.409</b>	<b>4.227</b>	<b>7.045</b>	<b>9.864</b>	<b>12.682</b>	<b>15.500</b>	<b>18.318</b>	<b>21.136</b>	<b>23.955</b>	<b>26.773</b>	<b>29.591</b>

Raster: 11 x 3 Puncte

Lm [cd/m²]	Lmin [cd/m²]	Lmax [cd/m²]	g1	g2
0.49	0.36	0.61	0.741	0.596

### Densitate a luminii cu lampă nouă [cd/m²]

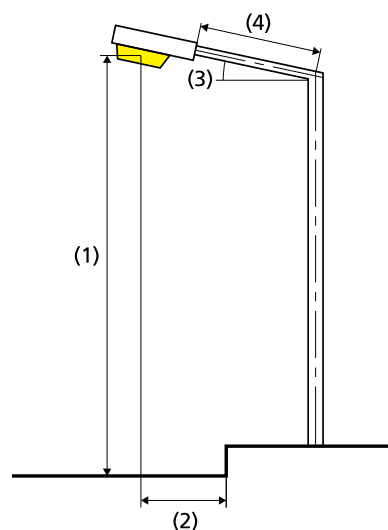
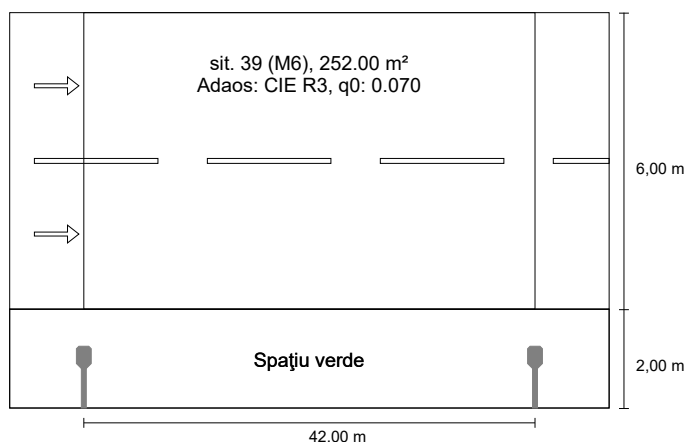
<b>4.833</b>	0.52	0.48	0.44	0.44	0.44	<b>0.43</b>	0.48	0.50	0.53	0.53	0.54
<b>3.500</b>	0.65	0.60	0.56	0.55	0.54	0.52	0.56	0.58	0.63	0.64	0.65
<b>2.167</b>	<b>0.71</b>	0.68	0.64	0.64	0.64	0.60	0.61	0.62	0.64	0.65	0.70
m	<b>1.409</b>	<b>4.227</b>	<b>7.045</b>	<b>9.864</b>	<b>12.682</b>	<b>15.500</b>	<b>18.318</b>	<b>21.136</b>	<b>23.955</b>	<b>26.773</b>	<b>29.591</b>

Raster: 11 x 3 Puncte

Lm [cd/m²]	Lmin [cd/m²]	Lmax [cd/m²]	g1	g2
0.57	0.43	0.71	0.741	0.596

**sit. 39 până la EN 13201:2015**

**LUG LIGHT FACTORY 130232.5L192.101 4756  
URBINI LED 740 O9 700 II**



**Rezultate pentru câmpurile de evaluare**  
Factorul de menținere: 0.85

sit. 39 (M6)

Lm [cd/m²] ≥ 0.30	Uo ≥ 0.35	UI ≥ 0.40	TI [%] ≤ 20	EIR ≥ 0.30
✓ 0.32	✓ 0.53	✓ 0.71	✓ 12	✓ 0.56

**Rezultate pentru indicatorii de eficiență energetică**

**Indicatorul densității de putere (Dp)** 0.022 W/lx·m²

Densitatea consumului de energie

Aranjament: 4756 URBINI LED 740 O9 700 II (108.0 kWh/an) 0.4 kWh/m² an

Lampă: 1xLED 4000K  
Flux luminos (corp de iluminat): 3250.69 lm  
Flux luminos (lampă): 3250.00 lm  
Ore de lucru  
4000 h: 100.0 %, 27.0 W  
W/km: 648.0

Aranjament: Pe o parte Jos  
Distanță stâlp: 42.000 m  
Înclinare consolă (3): 0.0°  
Lungime consolă (4): 1.000 m  
Înălțimea deasupra planului util (1): 8.300 m  
Înălțimea în consolă a punctului de lumină (2): -1.000 m

ULR: 0.00  
ULOR: 0.00

Valori maxime ale intensității luminoase

peste 70° 705 cd/klm \*  
peste 80° 211 cd/klm \*  
peste 90° 13.1 cd/klm \*

Clasă intensitate luminoasă: /

Orice direcție ce formează unghiul dat cu verticala în jos a corpurilor de iluminat instalate pentru utilizare.

\* Luminous intensity values in [cd/klm] for calculating luminous intensity class refer to the output flux of the luminaire, according EN 13201:2015.

Aranjamentul respectă clasa cu indici de orbire D.2

## sit. 39 (M6)

### Iluminare orizontală [lx]

<b>7.500</b>	6.18	5.26	4.57	3.76	2.95	2.54	2.37	2.37	2.54	2.95	3.76	4.57	5.26	6.18
<b>6.500</b>	7.93	6.49	5.23	3.98	2.98	2.54	2.41	2.41	2.54	2.98	3.98	5.23	6.49	7.93
<b>5.500</b>	9.32	7.62	5.84	4.06	2.99	2.53	2.30	2.30	2.53	2.99	4.06	5.84	7.62	9.32
<b>4.500</b>	10.4	8.28	6.05	4.10	2.95	2.37	2.14	2.14	2.37	2.95	4.10	6.05	8.28	10.4
<b>3.500</b>	11.2	8.75	6.11	3.97	2.71	2.18	1.96	1.96	2.18	2.71	3.97	6.11	8.75	11.2
<b>2.500</b>	<b>11.8</b>	8.52	5.67	3.52	2.43	1.97	<b>1.76</b>	<b>1.76</b>	1.97	2.43	3.52	5.67	8.52	<b>11.8</b>
m	<b>1.500</b>	<b>4.500</b>	<b>7.500</b>	<b>10.500</b>	<b>13.500</b>	<b>16.500</b>	<b>19.500</b>	<b>22.500</b>	<b>25.500</b>	<b>28.500</b>	<b>31.500</b>	<b>34.500</b>	<b>37.500</b>	<b>40.500</b>

Raster: 14 x 6 Puncte

Em [lx]	Emin [lx]	Emax [lx]	g1	g2
4.83	1.76	11.8	0.365	0.149

## Observator 1

### Densitate a luminii cu carosabil uscat [cd/m²]

<b>7.500</b>	0.20	<b>0.18</b>	<b>0.18</b>	0.19	<b>0.18</b>	0.19	0.20	0.22	0.22	0.23	0.23	0.22	0.20	0.21
<b>6.500</b>	0.25	0.22	0.21	0.21	0.20	0.21	0.23	0.26	0.25	0.25	0.28	0.27	0.26	0.27
<b>5.500</b>	0.30	0.27	0.24	0.23	0.23	0.25	0.27	0.29	0.31	0.30	0.33	0.34	0.32	0.32
<b>4.500</b>	0.34	0.31	0.28	0.28	0.29	0.30	0.31	0.34	0.36	0.38	0.39	0.40	0.39	0.37
<b>3.500</b>	0.39	0.35	0.32	0.32	0.34	0.37	0.40	0.43	0.42	0.43	0.45	0.45	0.45	0.41
<b>2.500</b>	0.43	0.39	0.38	0.39	0.43	0.46	0.47	<b>0.50</b>	<b>0.50</b>	0.48	0.49	0.49	0.46	0.46
m	<b>1.500</b>	<b>4.500</b>	<b>7.500</b>	<b>10.500</b>	<b>13.500</b>	<b>16.500</b>	<b>19.500</b>	<b>22.500</b>	<b>25.500</b>	<b>28.500</b>	<b>31.500</b>	<b>34.500</b>	<b>37.500</b>	<b>40.500</b>

Raster: 14 x 6 Puncte

Lm [cd/m²]	Lmin [cd/m²]	Lmax [cd/m²]	g1	g2
0.32	0.18	0.50	0.556	0.355

### Densitate a luminii cu lampă nouă [cd/m²]

<b>7.500</b>	0.24	<b>0.21</b>	0.22	0.22	<b>0.21</b>	0.23	0.24	0.26	0.26	0.27	0.27	0.25	0.24	0.25
<b>6.500</b>	0.30	0.26	0.25	0.25	0.24	0.25	0.28	0.30	0.30	0.30	0.33	0.32	0.31	0.32
<b>5.500</b>	0.36	0.32	0.29	0.27	0.27	0.29	0.32	0.34	0.36	0.35	0.39	0.41	0.38	0.38
<b>4.500</b>	0.40	0.36	0.33	0.33	0.34	0.35	0.37	0.40	0.42	0.44	0.46	0.47	0.45	0.43
<b>3.500</b>	0.46	0.42	0.38	0.38	0.40	0.43	0.47	0.50	0.50	0.51	0.53	0.53	0.52	0.48
<b>2.500</b>	0.51	0.46	0.44	0.46	0.50	0.54	0.56	<b>0.59</b>	0.58	0.57	0.57	0.58	0.54	0.54
m	<b>1.500</b>	<b>4.500</b>	<b>7.500</b>	<b>10.500</b>	<b>13.500</b>	<b>16.500</b>	<b>19.500</b>	<b>22.500</b>	<b>25.500</b>	<b>28.500</b>	<b>31.500</b>	<b>34.500</b>	<b>37.500</b>	<b>40.500</b>

Raster: 14 x 6 Puncte

Lm [cd/m²]	Lmin [cd/m²]	Lmax [cd/m²]	g1	g2
0.38	0.21	0.59	0.556	0.355

## Observator 2

### Densitate a luminii cu carosabil uscat [cd/m<sup>2</sup>]

<b>7.500</b>	0.21	<b>0.19</b>	0.20	0.21	0.20	0.21	0.22	0.24	0.24	0.24	0.25	0.23	0.21	0.22
<b>6.500</b>	0.27	0.25	0.24	0.23	0.23	0.25	0.27	0.28	0.28	0.27	0.30	0.29	0.27	0.28
<b>5.500</b>	0.33	0.30	0.28	0.28	0.29	0.30	0.31	0.34	0.34	0.34	0.36	0.36	0.34	0.34
<b>4.500</b>	0.38	0.36	0.34	0.34	0.35	0.38	0.40	0.41	0.40	0.42	0.42	0.42	0.41	0.39
<b>3.500</b>	0.44	0.41	0.41	0.43	0.45	0.47	0.48	0.51	0.49	0.48	0.49	0.48	0.47	0.43
<b>2.500</b>	0.43	0.39	0.39	0.42	0.47	0.51	0.52	<b>0.55</b>	0.54	0.51	0.51	0.51	0.47	0.47
m	<b>1.500</b>	<b>4.500</b>	<b>7.500</b>	<b>10.500</b>	<b>13.500</b>	<b>16.500</b>	<b>19.500</b>	<b>22.500</b>	<b>25.500</b>	<b>28.500</b>	<b>31.500</b>	<b>34.500</b>	<b>37.500</b>	<b>40.500</b>

Raster: 14 x 6 Puncte

Lm [cd/m <sup>2</sup> ]	Lmin [cd/m <sup>2</sup> ]	Lmax [cd/m <sup>2</sup> ]	g1	g2
0.36	0.19	0.55	0.535	0.343

### Densitate a luminii cu lampă nouă [cd/m<sup>2</sup>]

<b>7.500</b>	0.25	<b>0.22</b>	0.23	0.24	0.24	0.25	0.26	0.28	0.28	0.28	0.29	0.27	0.25	0.25
<b>6.500</b>	0.32	0.29	0.28	0.27	0.27	0.29	0.31	0.33	0.33	0.32	0.35	0.34	0.32	0.33
<b>5.500</b>	0.38	0.35	0.33	0.33	0.34	0.35	0.36	0.40	0.40	0.40	0.42	0.43	0.40	0.40
<b>4.500</b>	0.45	0.42	0.40	0.39	0.42	0.44	0.47	0.48	0.48	0.50	0.50	0.50	0.48	0.46
<b>3.500</b>	0.51	0.49	0.48	0.50	0.53	0.55	0.57	0.60	0.58	0.57	0.58	0.56	0.55	0.51
<b>2.500</b>	0.50	0.46	0.46	0.49	0.56	0.60	0.62	<b>0.65</b>	0.63	0.60	0.60	0.60	0.55	0.55
m	<b>1.500</b>	<b>4.500</b>	<b>7.500</b>	<b>10.500</b>	<b>13.500</b>	<b>16.500</b>	<b>19.500</b>	<b>22.500</b>	<b>25.500</b>	<b>28.500</b>	<b>31.500</b>	<b>34.500</b>	<b>37.500</b>	<b>40.500</b>

Raster: 14 x 6 Puncte

Lm [cd/m <sup>2</sup> ]	Lmin [cd/m <sup>2</sup> ]	Lmax [cd/m <sup>2</sup> ]	g1	g2
0.42	0.22	0.65	0.535	0.343



## sit. 40 (M6)

### Iluminare orizontală [lx]

<b>7.500</b>	6.64	5.77	4.73	4.36	3.30	2.62	2.42	2.42	2.32	2.42	2.42	2.62	3.30	4.36	4.73	5.77
<b>6.500</b>	8.72	7.67	6.47	5.25	4.06	3.15	2.64	2.29	2.18	2.29	2.64	3.15	4.06	5.25	6.47	7.67
<b>5.500</b>	10.3	9.09	7.66	6.07	4.85	3.31	2.47	2.13	2.03	2.13	2.47	3.31	4.85	6.07	7.66	9.09
<b>4.500</b>	12.3	10.2	7.94	6.81	4.74	3.03	2.26	1.95	1.86	1.95	2.26	3.03	4.74	6.81	7.94	10.2
<b>3.500</b>	<b>12.8</b>	10.2	7.75	5.88	4.17	2.69	2.03	1.75	1.67	1.75	2.03	2.69	4.17	5.88	7.75	10.2
<b>2.500</b>	10.4	8.33	5.86	4.70	3.50	2.32	1.78	1.54	<b>1.47</b>	1.54	1.78	2.32	3.50	4.70	5.86	8.33
m	<b>1.441</b>	<b>4.324</b>	<b>7.206</b>	<b>10.088</b>	<b>12.971</b>	<b>15.853</b>	<b>18.735</b>	<b>21.618</b>	<b>24.500</b>	<b>27.382</b>	<b>30.265</b>	<b>33.147</b>	<b>36.029</b>	<b>38.912</b>	<b>41.794</b>	<b>44.676</b>

<b>7.500</b>	6.64
<b>6.500</b>	8.72
<b>5.500</b>	10.3
<b>4.500</b>	12.3
<b>3.500</b>	<b>12.8</b>
<b>2.500</b>	10.4
m	<b>47.559</b>

Raster: 17 x 6 Puncte

Em [lx]	Emin [lx]	Emax [lx]	g1	g2
5.08	1.47	12.8	0.290	0.116

## Observator 1

### Densitate a luminii cu carosabil uscat [cd/m²]

7.500	0.21	0.18	0.17	0.19	0.17	0.17	0.18	0.21	0.23	0.27	0.26	0.24	0.25	0.26	0.21	0.21
6.500	0.27	0.24	0.22	0.22	0.21	0.21	0.22	0.24	0.25	0.30	0.33	0.33	0.35	0.36	0.32	0.29
5.500	0.31	0.29	0.27	0.26	0.26	0.24	0.24	0.26	0.29	0.34	0.37	0.43	0.50	0.47	0.43	0.37
4.500	0.37	0.33	0.29	0.30	0.29	0.27	0.29	0.33	0.36	0.39	0.44	0.50	0.62	0.62	0.50	0.45
3.500	0.40	0.35	0.31	0.31	0.31	0.31	0.34	0.39	0.44	0.50	0.53	0.57	0.67	0.63	0.55	0.48
2.500	0.35	0.32	0.28	0.31	0.35	0.38	0.43	0.49	0.54	0.58	0.61	0.64	0.69	0.61	0.48	0.42
m	1.441	4.324	7.206	10.088	12.971	15.853	18.735	21.618	24.500	27.382	30.265	33.147	36.029	38.912	41.794	44.676

7.500	0.21
6.500	0.28
5.500	0.33
4.500	0.40
3.500	0.43
2.500	0.38
m	47.559

Raster: 17 x 6 Puncte

Lm [cd/m²]	Lmin [cd/m²]	Lmax [cd/m²]	g1	g2
0.35	0.17	0.69	0.482	0.247

### Densitate a luminii cu lampă nouă [cd/m²]

7.500	0.24	0.22	0.20	0.22	0.20	0.20	0.22	0.25	0.27	0.31	0.31	0.29	0.30	0.31	0.25	0.24
6.500	0.31	0.28	0.26	0.26	0.24	0.24	0.26	0.28	0.30	0.35	0.39	0.39	0.42	0.42	0.38	0.35
5.500	0.37	0.34	0.31	0.31	0.31	0.28	0.28	0.31	0.34	0.40	0.44	0.50	0.59	0.55	0.50	0.43
4.500	0.43	0.38	0.34	0.36	0.34	0.32	0.34	0.38	0.42	0.46	0.51	0.59	0.72	0.72	0.59	0.52
3.500	0.47	0.41	0.36	0.36	0.37	0.36	0.40	0.46	0.52	0.59	0.63	0.67	0.79	0.74	0.64	0.57
2.500	0.41	0.37	0.33	0.37	0.41	0.45	0.51	0.57	0.63	0.69	0.71	0.75	0.81	0.72	0.56	0.50
m	1.441	4.324	7.206	10.088	12.971	15.853	18.735	21.618	24.500	27.382	30.265	33.147	36.029	38.912	41.794	44.676

7.500	0.25
6.500	0.33
5.500	0.39
4.500	0.48
3.500	0.51
2.500	0.45
m	47.559

Raster: 17 x 6 Puncte

Lm [cd/m²]	Lmin [cd/m²]	Lmax [cd/m²]	g1	g2
0.42	0.20	0.81	0.482	0.247



## Observator 2

### Densitate a luminii cu carosabil uscat [cd/m²]

<b>7.500</b>	0.21	0.19	<b>0.18</b>	0.19	<b>0.18</b>	0.19	0.21	0.24	0.25	0.30	0.28	0.26	0.27	0.28	0.22	0.21
<b>6.500</b>	0.28	0.26	0.25	0.25	0.24	0.24	0.25	0.27	0.30	0.33	0.37	0.36	0.38	0.38	0.34	0.30
<b>5.500</b>	0.33	0.31	0.29	0.29	0.30	0.29	0.31	0.33	0.35	0.39	0.43	0.48	0.56	0.50	0.45	0.38
<b>4.500</b>	0.40	0.37	0.33	0.36	0.35	0.33	0.36	0.41	0.45	0.50	0.51	0.56	0.68	0.66	0.52	0.47
<b>3.500</b>	0.43	0.38	0.35	0.37	0.39	0.42	0.46	0.51	0.56	0.60	0.63	0.66	<b>0.73</b>	0.68	0.57	0.50
<b>2.500</b>	0.34	0.31	0.28	0.32	0.36	0.41	0.48	0.54	0.60	0.65	0.67	0.68	<b>0.73</b>	0.64	0.49	0.43
<b>m</b>	<b>1.441</b>	<b>4.324</b>	<b>7.206</b>	<b>10.088</b>	<b>12.971</b>	<b>15.853</b>	<b>18.735</b>	<b>21.618</b>	<b>24.500</b>	<b>27.382</b>	<b>30.265</b>	<b>33.147</b>	<b>36.029</b>	<b>38.912</b>	<b>41.794</b>	<b>44.676</b>

<b>7.500</b>	0.22
<b>6.500</b>	0.29
<b>5.500</b>	0.34
<b>4.500</b>	0.42
<b>3.500</b>	0.45
<b>2.500</b>	0.39
<b>m</b>	<b>47.559</b>

Raster: 17 x 6 Puncte

Lm [cd/m²]	Lmin [cd/m²]	Lmax [cd/m²]	g1	g2
0.39	0.18	0.73	0.457	0.245

### Densitate a luminii cu lampă nouă [cd/m²]

<b>7.500</b>	0.25	0.23	<b>0.21</b>	0.23	0.22	0.22	0.25	0.28	0.30	0.35	0.33	0.31	0.31	0.33	0.26	0.25
<b>6.500</b>	0.33	0.31	0.29	0.29	0.28	0.28	0.29	0.32	0.35	0.39	0.43	0.43	0.45	0.45	0.40	0.36
<b>5.500</b>	0.39	0.36	0.34	0.35	0.35	0.34	0.36	0.39	0.41	0.46	0.51	0.56	0.65	0.59	0.53	0.45
<b>4.500</b>	0.47	0.43	0.39	0.42	0.41	0.39	0.42	0.48	0.53	0.58	0.60	0.66	0.80	0.77	0.62	0.55
<b>3.500</b>	0.50	0.45	0.42	0.43	0.46	0.49	0.54	0.60	0.65	0.71	0.74	0.77	<b>0.86</b>	0.80	0.67	0.59
<b>2.500</b>	0.39	0.36	0.33	0.37	0.42	0.48	0.56	0.64	0.71	0.76	0.79	0.80	<b>0.86</b>	0.76	0.58	0.51
<b>m</b>	<b>1.441</b>	<b>4.324</b>	<b>7.206</b>	<b>10.088</b>	<b>12.971</b>	<b>15.853</b>	<b>18.735</b>	<b>21.618</b>	<b>24.500</b>	<b>27.382</b>	<b>30.265</b>	<b>33.147</b>	<b>36.029</b>	<b>38.912</b>	<b>41.794</b>	<b>44.676</b>

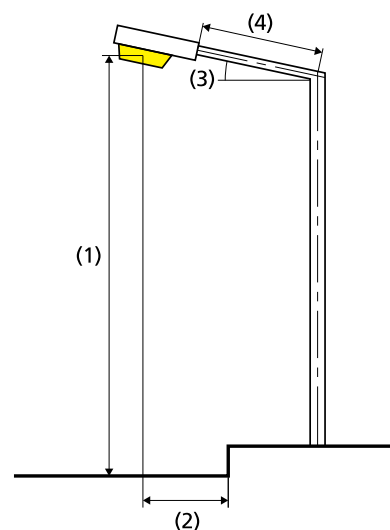
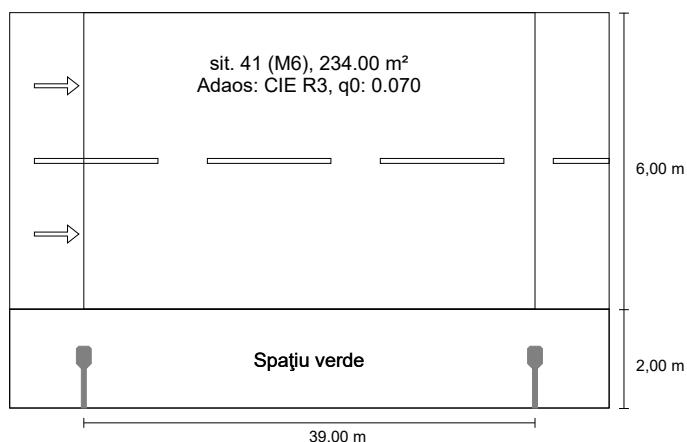
<b>7.500</b>	0.26
<b>6.500</b>	0.34
<b>5.500</b>	0.41
<b>4.500</b>	0.49
<b>3.500</b>	0.53
<b>2.500</b>	0.45
<b>m</b>	<b>47.559</b>

Raster: 17 x 6 Puncte

Lm [cd/m²]	Lmin [cd/m²]	Lmax [cd/m²]	g1	g2
0.46	0.21	0.86	0.457	0.245

**sit. 41 până la EN 13201:2015**

**LUG LIGHT FACTORY 130232.5L192.101 4756  
URBINI LED 740 O9 700 II**



**Rezultate pentru câmpurile de evaluare**  
Factorul de menținere: 0.85

sit. 41 (M6)

Lm [cd/m²] ≥ 0.30	Uo ≥ 0.35	UI ≥ 0.40	TI [%] ≤ 20	EIR ≥ 0.30
✓ 0.34	✓ 0.56	✓ 0.78	✓ 12	✓ 0.56

**Rezultate pentru indicatorii de eficiență energetică**

<b>Indicatorul densității de putere (Dp)</b>	0.022 W/lx·m²
Densitatea consumului de energie	
Aranjament: 4756 URBINI LED 740 O9 700 II (108.0 kWh/an)	0.5 kWh/m² an

Lampă:	1xLED 4000K
Flux luminos (corp de iluminat):	3250.69 lm
Flux luminos (lampă):	3250.00 lm
Ore de lucru	
4000 h:	100.0 %, 27.0 W
W/km:	702.0
Aranjament:	Pe o parte Jos
Distanță stâlp:	39.000 m
Înclinare consolă (3):	0.0°
Lungime consolă (4):	1.000 m
Înălțimea deasupra planului util (1):	8.300 m
Înălțimea în consolă a punctului de lumină (2):	-1.000 m

ULR:	0.00
ULOR:	0.00

**Valori maxime ale intensității luminoase**

peste 70°	705 cd/klm *
peste 80°	211 cd/klm *
peste 90°	13.1 cd/klm *

Clasă intensitate luminoasă: /

Orice direcție ce formează unghiul dat cu verticala în jos a corpurilor de iluminat instalate pentru utilizare.

\* Luminous intensity values in [cd/klm] for calculating luminous intensity class refer to the output flux of the luminaire, according EN 13201:2015.

Aranjamentul respectă clasa cu indici de orbire D.2

## sit. 41 (M6)

### Iluminare orizontală [lx]

<b>7.500</b>	6.28	5.37	4.71	3.94	3.18	2.81	2.71	2.81	3.18	3.94	4.71	5.37	6.28
<b>6.500</b>	8.02	6.59	5.36	4.16	3.20	2.84	2.81	2.84	3.20	4.16	5.36	6.59	8.02
<b>5.500</b>	9.41	7.72	5.97	4.23	3.19	2.80	2.71	2.80	3.19	4.23	5.97	7.72	9.41
<b>4.500</b>	10.5	8.38	6.17	4.25	3.14	2.61	2.52	2.61	3.14	4.25	6.17	8.38	10.5
<b>3.500</b>	11.3	8.84	6.21	4.11	2.88	2.39	2.31	2.39	2.88	4.11	6.21	8.84	11.3
<b>2.500</b>	<b>11.9</b>	8.60	5.77	3.65	2.59	2.15	<b>2.07</b>	2.15	2.59	3.65	5.77	8.60	<b>11.9</b>
m	<b>1.500</b>	<b>4.500</b>	<b>7.500</b>	<b>10.500</b>	<b>13.500</b>	<b>16.500</b>	<b>19.500</b>	<b>22.500</b>	<b>25.500</b>	<b>28.500</b>	<b>31.500</b>	<b>34.500</b>	<b>37.500</b>

Raster: 13 x 6 Puncte

Em [lx]	Emin [lx]	Emax [lx]	g1	g2
5.20	2.07	11.9	0.399	0.174

## Observator 1

### Densitate a luminii cu carosabil uscat [cd/m²]

<b>7.500</b>	0.22	<b>0.20</b>	<b>0.20</b>	<b>0.20</b>	0.21	0.22	0.23	0.24	0.24	0.24	0.22	0.21	0.22
<b>6.500</b>	0.27	0.25	0.23	0.23	0.23	0.25	0.27	0.27	0.27	0.29	0.28	0.27	0.28
<b>5.500</b>	0.32	0.29	0.27	0.26	0.26	0.28	0.31	0.32	0.31	0.34	0.36	0.34	0.34
<b>4.500</b>	0.37	0.34	0.32	0.32	0.32	0.33	0.36	0.37	0.39	0.40	0.41	0.40	0.39
<b>3.500</b>	0.43	0.40	0.37	0.37	0.39	0.41	0.44	0.44	0.45	0.46	0.47	0.47	0.44
<b>2.500</b>	0.49	0.46	0.45	0.46	0.48	0.49	<b>0.52</b>	0.51	0.49	0.50	0.51	0.49	0.50
m	<b>1.500</b>	<b>4.500</b>	<b>7.500</b>	<b>10.500</b>	<b>13.500</b>	<b>16.500</b>	<b>19.500</b>	<b>22.500</b>	<b>25.500</b>	<b>28.500</b>	<b>31.500</b>	<b>34.500</b>	<b>37.500</b>

Raster: 13 x 6 Puncte

Lm [cd/m²]	Lmin [cd/m²]	Lmax [cd/m²]	g1	g2
0.34	0.20	0.52	0.574	0.381

### Densitate a luminii cu lampă nouă [cd/m²]

<b>7.500</b>	0.26	<b>0.23</b>	<b>0.23</b>	0.24	0.24	0.26	0.27	0.28	0.28	0.28	0.26	0.25	0.26
<b>6.500</b>	0.32	0.29	0.28	0.27	0.27	0.29	0.32	0.31	0.31	0.34	0.33	0.32	0.33
<b>5.500</b>	0.38	0.34	0.31	0.31	0.31	0.33	0.36	0.37	0.37	0.40	0.42	0.40	0.40
<b>4.500</b>	0.44	0.40	0.37	0.38	0.38	0.38	0.42	0.44	0.46	0.47	0.48	0.48	0.46
<b>3.500</b>	0.51	0.47	0.43	0.44	0.46	0.48	0.52	0.52	0.52	0.55	0.55	0.55	0.52
<b>2.500</b>	0.57	0.54	0.52	0.54	0.56	0.57	<b>0.61</b>	0.60	0.58	0.59	0.60	0.58	0.58
m	<b>1.500</b>	<b>4.500</b>	<b>7.500</b>	<b>10.500</b>	<b>13.500</b>	<b>16.500</b>	<b>19.500</b>	<b>22.500</b>	<b>25.500</b>	<b>28.500</b>	<b>31.500</b>	<b>34.500</b>	<b>37.500</b>

Raster: 13 x 6 Puncte

Lm [cd/m²]	Lmin [cd/m²]	Lmax [cd/m²]	g1	g2
0.40	0.23	0.61	0.574	0.381

## Observator 2

### Densitate a luminii cu carosabil uscat [cd/m<sup>2</sup>]

<b>7.500</b>	0.23	<b>0.21</b>	0.22	0.23	0.22	0.24	0.25	0.25	0.25	0.26	0.24	0.22	0.23
<b>6.500</b>	0.30	0.27	0.26	0.26	0.26	0.28	0.30	0.30	0.29	0.31	0.30	0.29	0.30
<b>5.500</b>	0.36	0.34	0.32	0.32	0.32	0.33	0.36	0.36	0.35	0.37	0.38	0.36	0.36
<b>4.500</b>	0.43	0.41	0.38	0.39	0.40	0.42	0.43	0.42	0.44	0.44	0.44	0.44	0.42
<b>3.500</b>	0.49	0.48	0.48	0.49	0.49	0.50	0.53	0.51	0.50	0.51	0.50	0.50	0.47
<b>2.500</b>	0.49	0.46	0.47	0.50	0.53	0.54	<b>0.57</b>	0.55	0.52	0.53	0.53	0.51	0.51
m	<b>1.500</b>	<b>4.500</b>	<b>7.500</b>	<b>10.500</b>	<b>13.500</b>	<b>16.500</b>	<b>19.500</b>	<b>22.500</b>	<b>25.500</b>	<b>28.500</b>	<b>31.500</b>	<b>34.500</b>	<b>37.500</b>

Raster: 13 x 6 Puncte

Lm [cd/m <sup>2</sup> ]	Lmin [cd/m <sup>2</sup> ]	Lmax [cd/m <sup>2</sup> ]	g1	g2
0.38	0.21	0.57	0.555	0.373

### Densitate a luminii cu lampă nouă [cd/m<sup>2</sup>]

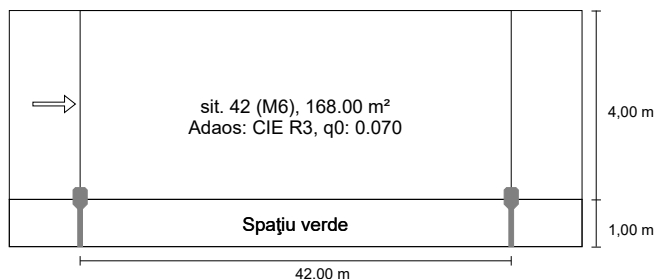
<b>7.500</b>	0.27	<b>0.25</b>	0.26	0.27	0.26	0.28	0.29	0.30	0.30	0.30	0.28	0.26	0.27
<b>6.500</b>	0.35	0.32	0.30	0.31	0.31	0.33	0.35	0.35	0.34	0.37	0.36	0.34	0.35
<b>5.500</b>	0.42	0.40	0.38	0.38	0.37	0.38	0.42	0.42	0.42	0.44	0.44	0.42	0.42
<b>4.500</b>	0.50	0.48	0.45	0.46	0.47	0.49	0.51	0.50	0.52	0.52	0.52	0.51	0.49
<b>3.500</b>	0.58	0.57	0.56	0.58	0.58	0.59	0.62	0.60	0.59	0.60	0.59	0.59	0.56
<b>2.500</b>	0.57	0.55	0.55	0.59	0.62	0.63	<b>0.67</b>	0.65	0.61	0.62	0.62	0.60	0.61
m	<b>1.500</b>	<b>4.500</b>	<b>7.500</b>	<b>10.500</b>	<b>13.500</b>	<b>16.500</b>	<b>19.500</b>	<b>22.500</b>	<b>25.500</b>	<b>28.500</b>	<b>31.500</b>	<b>34.500</b>	<b>37.500</b>

Raster: 13 x 6 Puncte

Lm [cd/m <sup>2</sup> ]	Lmin [cd/m <sup>2</sup> ]	Lmax [cd/m <sup>2</sup> ]	g1	g2
0.45	0.25	0.67	0.555	0.373

**sit. 42 până la EN 13201:2015**

**LUG LIGHT FACTORY 130232.5L192.101 4756  
URBINI LED 740 O9 700 II**



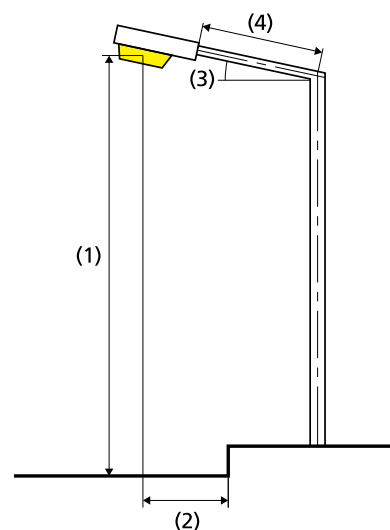
Rezultate pentru câmpurile de evaluare  
Factorul de menținere: 0.85

sit. 42 (M6)

Lm [cd/m²] ≥ 0.30	Uo ≥ 0.35	UI ≥ 0.40	TI [%] ≤ 20	EIR ≥ 0.30
✓ 0.43	✓ 0.61	✓ 0.60	✓ 12	✓ 0.30

Rezultate pentru indicatorii de eficiență energetică

<b>Indicatorul densității de putere (Dp)</b>	0.029 W/lxm²
Densitatea consumului de energie	
Aranjament: 4756 URBINI LED 740 O9 700 II (108.0 kWh/an)	0.6 kWh/m² an



Lampă:	1xLED 4000K
Flux luminos (corp de iluminat):	3250.69 lm
Flux luminos (lampă):	3250.00 lm
Ore de lucru	
4000 h:	100.0 %, 27.0 W
W/km:	648.0
Aranjament:	Pe o parte Jos
Distanță stâlp:	42.000 m
Înclinare consolă (3):	0.0°
Lungime consolă (4):	1.000 m
Înălțimea deasupra planului util (1):	7.500 m
Ieșirea în consolă a punctului de lumină (2):	0.000 m

ULR:	0.00
ULOR:	0.00

Valori maxime ale intensității luminoase

peste 70°	705 cd/klm *
peste 80°	211 cd/klm *
peste 90°	13.1 cd/klm *

Clasă intensitate luminoasă: /

Orice direcție ce formează unghiul dat cu verticala în jos a corpurilor de iluminat instalate pentru utilizare.

\* Luminous intensity values in [cd/klm] for calculating luminous intensity class refer to the output flux of the luminaire, according EN 13201:2015.

Aranjamentul respectă clasa cu indici de orbire D.2

## sit. 42 (M6)

### Iluminare orizontală [lx]

<b>4.333</b>	12.3	9.49	6.52	4.18	2.92	2.39	2.06	2.06	2.39	2.92	4.18	6.52	9.49	12.3
<b>3.000</b>	<b>13.9</b>	10.0	6.57	3.85	2.57	2.11	1.82	1.82	2.11	2.57	3.85	6.57	10.0	<b>13.9</b>
<b>1.667</b>	12.8	8.58	5.23	3.16	2.16	1.79	<b>1.54</b>	<b>1.54</b>	1.79	2.16	3.16	5.23	8.58	12.8
m	<b>1.500</b>	<b>4.500</b>	<b>7.500</b>	<b>10.500</b>	<b>13.500</b>	<b>16.500</b>	<b>19.500</b>	<b>22.500</b>	<b>25.500</b>	<b>28.500</b>	<b>31.500</b>	<b>34.500</b>	<b>37.500</b>	<b>40.500</b>

Raster: 14 x 3 Puncte

Em [lx]	Emin [lx]	Emax [lx]	g1	g2
5.52	1.54	13.9	0.279	0.111

## Observator 1

### Densitate a luminii cu carosabil uscat [cd/m<sup>2</sup>]

<b>4.333</b>	0.37	0.31	0.28	<b>0.26</b>	0.27	0.31	0.32	0.35	0.41	0.41	0.45	0.45	0.45	0.41
<b>3.000</b>	0.44	0.36	0.33	0.33	0.35	0.41	0.44	0.50	0.54	0.52	0.54	0.55	0.54	0.48
<b>1.667</b>	0.42	0.36	0.34	0.38	0.44	0.51	0.55	0.58	<b>0.62</b>	0.57	0.56	0.55	0.51	0.47
m	<b>1.500</b>	<b>4.500</b>	<b>7.500</b>	<b>10.500</b>	<b>13.500</b>	<b>16.500</b>	<b>19.500</b>	<b>22.500</b>	<b>25.500</b>	<b>28.500</b>	<b>31.500</b>	<b>34.500</b>	<b>37.500</b>	<b>40.500</b>

Raster: 14 x 3 Puncte

Lm [cd/m <sup>2</sup> ]	Lmin [cd/m <sup>2</sup> ]	Lmax [cd/m <sup>2</sup> ]	g1	g2
0.43	0.26	0.62	0.607	0.427

### Densitate a luminii cu lampă nouă [cd/m<sup>2</sup>]

<b>4.333</b>	0.44	0.37	0.32	<b>0.31</b>	0.32	0.36	0.38	0.41	0.48	0.48	0.53	0.53	0.53	0.48
<b>3.000</b>	0.51	0.43	0.39	0.39	0.42	0.48	0.52	0.58	0.63	0.61	0.64	0.65	0.63	0.56
<b>1.667</b>	0.49	0.42	0.39	0.44	0.52	0.60	0.65	0.68	<b>0.73</b>	0.68	0.66	0.65	0.60	0.55
m	<b>1.500</b>	<b>4.500</b>	<b>7.500</b>	<b>10.500</b>	<b>13.500</b>	<b>16.500</b>	<b>19.500</b>	<b>22.500</b>	<b>25.500</b>	<b>28.500</b>	<b>31.500</b>	<b>34.500</b>	<b>37.500</b>	<b>40.500</b>

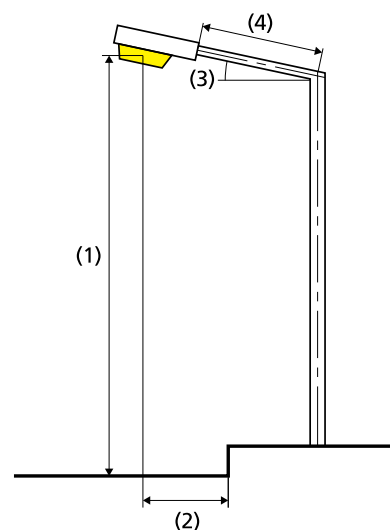
Raster: 14 x 3 Puncte

Lm [cd/m <sup>2</sup> ]	Lmin [cd/m <sup>2</sup> ]	Lmax [cd/m <sup>2</sup> ]	g1	g2
0.51	0.31	0.73	0.607	0.427



**sit. 43 până la EN 13201:2015**

**LUG LIGHT FACTORY 130232.5L192.101 4756  
URBINI LED 740 O9 700 II**



**Rezultate pentru câmpurile de evaluare**  
Factorul de menținere: 0.85

sit. 43 (M6)

Lm [cd/m²] ≥ 0.30	Uo ≥ 0.35	UI ≥ 0.40	TI [%] ≤ 20	EIR ≥ 0.30
✓ 0.43	✓ 0.66	✓ 0.84	✓ 11	✓ 0.43

**Rezultate pentru indicatorii de eficiență energetică**

<b>Indicatorul densității de putere (Dp)</b>	0.025 W/lx·m²
Densitatea consumului de energie	
Aranjament: 4756 URBINI LED 740 O9 700 II (108.0 kWh/an)	0.6 kWh/m² an

Lampă:	1xLED 4000K
Flux luminos (corp de iluminat):	3250.69 lm
Flux luminos (lampă):	3250.00 lm
Ore de lucru	
4000 h:	100.0 %, 27.0 W
W/km:	756.0
Aranjament:	Pe o parte Jos
Distanță stâlp:	36.000 m
Înclinare consolă (3):	0.0°
Lungime consolă (4):	1.000 m
Înălțimea deasupra planului util (1):	8.000 m
Înălțimea în consolă a punctului de lumină (2):	-1.000 m

ULR:	0.00
ULOR:	0.00

**Valori maxime ale intensității luminoase**

peste 70°	705 cd/klm *
peste 80°	211 cd/klm *
peste 90°	13.1 cd/klm *

Clasă intensitate luminoasă: /

Orice direcție ce formează unghiul dat cu verticala în jos a corpurilor de iluminat instalate pentru utilizare.

\* Luminous intensity values in [cd/klm] for calculating luminous intensity class refer to the output flux of the luminaire, according EN 13201:2015.

Aranjamentul respectă clasa cu indici de orbire D.2

### sit. 43 (M6)

#### Iluminare orizontală [lx]

<b>6.167</b>	8.92	7.31	5.84	4.43	3.50	3.29	3.29	3.50	4.43	5.84	7.31	8.92
<b>4.500</b>	11.2	8.89	6.50	4.48	3.40	3.03	3.03	3.40	4.48	6.50	8.89	11.2
<b>2.833</b>	<b>12.8</b>	9.31	6.38	4.02	2.90	<b>2.59</b>	<b>2.59</b>	2.90	4.02	6.38	9.31	<b>12.8</b>
m	<b>1.500</b>	<b>4.500</b>	<b>7.500</b>	<b>10.500</b>	<b>13.500</b>	<b>16.500</b>	<b>19.500</b>	<b>22.500</b>	<b>25.500</b>	<b>28.500</b>	<b>31.500</b>	<b>34.500</b>

Raster: 12 x 3 Puncte

Em [lx]	Emin [lx]	Emax [lx]	g1	g2
6.04	2.59	12.8	0.428	0.202

## Observator 1

### Densitate a luminii cu carosabil uscat [cd/m<sup>2</sup>]

<b>6.167</b>	0.32	0.30	<b>0.28</b>	<b>0.28</b>	<b>0.28</b>	0.31	0.32	0.31	0.34	0.34	0.32	0.33
<b>4.500</b>	0.43	0.40	0.38	0.39	0.38	0.39	0.42	0.43	0.45	0.46	0.45	0.44
<b>2.833</b>	<b>0.57</b>	0.55	0.53	0.53	0.54	<b>0.57</b>	<b>0.57</b>	0.54	0.55	<b>0.57</b>	0.56	0.56
m	<b>1.500</b>	<b>4.500</b>	<b>7.500</b>	<b>10.500</b>	<b>13.500</b>	<b>16.500</b>	<b>19.500</b>	<b>22.500</b>	<b>25.500</b>	<b>28.500</b>	<b>31.500</b>	<b>34.500</b>

Raster: 12 x 3 Puncte

Lm [cd/m <sup>2</sup> ]	Lmin [cd/m <sup>2</sup> ]	Lmax [cd/m <sup>2</sup> ]	g1	g2
0.43	0.28	0.57	0.662	0.494

### Densitate a luminii cu lampă nouă [cd/m<sup>2</sup>]

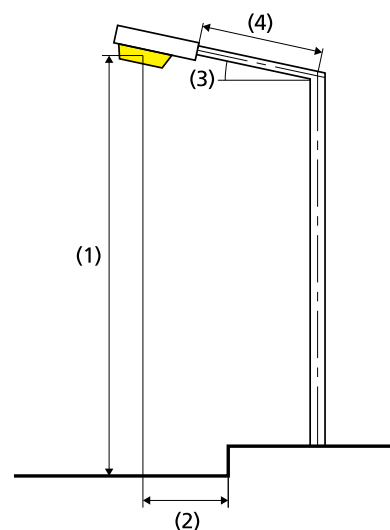
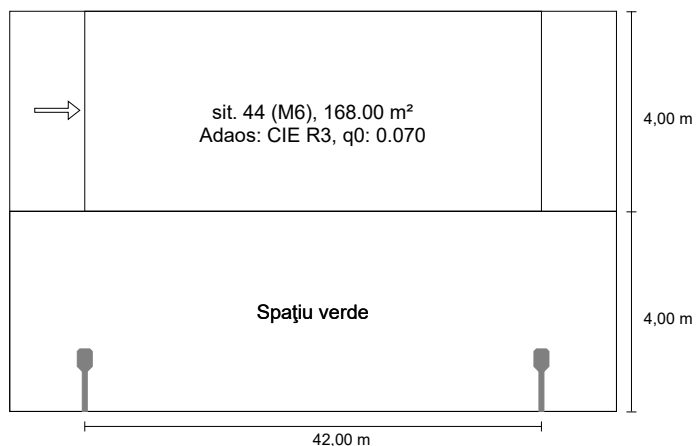
<b>6.167</b>	0.38	0.35	<b>0.33</b>	0.34	<b>0.33</b>	0.37	0.38	0.36	0.40	0.40	0.38	0.39
<b>4.500</b>	0.50	0.47	0.45	0.45	0.45	0.46	0.50	0.50	0.53	0.54	0.53	0.52
<b>2.833</b>	<b>0.67</b>	0.64	0.63	0.63	0.63	<b>0.67</b>	<b>0.67</b>	0.64	0.65	<b>0.67</b>	0.66	0.66
m	<b>1.500</b>	<b>4.500</b>	<b>7.500</b>	<b>10.500</b>	<b>13.500</b>	<b>16.500</b>	<b>19.500</b>	<b>22.500</b>	<b>25.500</b>	<b>28.500</b>	<b>31.500</b>	<b>34.500</b>

Raster: 12 x 3 Puncte

Lm [cd/m <sup>2</sup> ]	Lmin [cd/m <sup>2</sup> ]	Lmax [cd/m <sup>2</sup> ]	g1	g2
0.50	0.33	0.67	0.662	0.494

**sit. 44 până la EN 13201:2015**

**LUG LIGHT FACTORY 130232.5L192.101 4756  
URBINI LED 740 O9 700 II**



**Rezultate pentru câmpurile de evaluare**  
Factorul de menținere: 0.85

sit. 44 (M6)

Lm [cd/m²] ≥ 0.30	Uo ≥ 0.35	UI ≥ 0.40	TI [%] ≤ 20	EIR ≥ 0.30
✓ 0.30	✓ 0.63	✓ 0.67	✓ 14	✓ 0.56

**Rezultate pentru indicatorii de eficiență energetică**

<b>Indicatorul densității de putere (Dp)</b>	0.033 W/lx·m²
Densitatea consumului de energie	
Aranjament: 4756 URBINI LED 740 O9 700 II (108.0 kWh/an)	0.6 kWh/m² an

Lampă:	1xLED 4000K
Flux luminos (corp de iluminat):	3250.69 lm
Flux luminos (lampă):	3250.00 lm
Ore de lucru	
4000 h:	100.0 %, 27.0 W
W/km:	648.0

Aranjament:	Pe o parte Jos
Distanță stâlp:	42.000 m
Înclinare consolă (3):	0.0°
Lungime consolă (4):	1.000 m
Înălțimea deasupra planului util (1):	7.500 m
Ieșirea în consolă a punctului de lumină (2):	-3.000 m

ULR:	0.00
ULOR:	0.00

**Valori maxime ale intensității luminoase**

peste 70°	705 cd/klm *
peste 80°	211 cd/klm *
peste 90°	13.1 cd/klm *

Clasă intensitate luminoasă: /

Orice direcție ce formează unghiul dat cu verticala în jos a corpurilor de iluminat instalate pentru utilizare.

\* Luminous intensity values in [cd/klm] for calculating luminous intensity class refer to the output flux of the luminaire, according EN 13201:2015.

Aranjamentul respectă clasa cu indici de orbire D.2

## sit. 44 (M6)

### Iluminare orizontală [lx]

<b>7.333</b>	6.36	5.60	4.80	3.85	2.93	2.51	2.30	2.30	2.51	2.93	3.85	4.80	5.60	6.36
<b>6.000</b>	9.48	7.60	5.82	4.09	2.99	2.57	2.33	2.33	2.57	2.99	4.09	5.82	7.60	9.48
<b>4.667</b>	<b>11.9</b>	9.21	6.47	4.18	2.98	2.45	<b>2.12</b>	<b>2.12</b>	2.45	2.98	4.18	6.47	9.21	<b>11.9</b>
m	<b>1.500</b>	<b>4.500</b>	<b>7.500</b>	<b>10.500</b>	<b>13.500</b>	<b>16.500</b>	<b>19.500</b>	<b>22.500</b>	<b>25.500</b>	<b>28.500</b>	<b>31.500</b>	<b>34.500</b>	<b>37.500</b>	<b>40.500</b>

Raster: 14 x 3 Puncte

Em [lx]	Emin [lx]	Emax [lx]	g1	g2
4.88	2.12	11.9	0.435	0.179

## Observator 1

### Densitate a luminii cu carosabil uscat [cd/m<sup>2</sup>]

<b>7.333</b>	0.20	<b>0.19</b>	0.20	0.20	0.20	0.20	0.22	0.24	0.26	0.25	0.27	0.24	0.21	0.21
<b>6.000</b>	0.30	0.27	0.25	0.24	0.23	0.26	0.28	0.31	0.33	0.31	0.35	0.35	0.32	0.31
<b>4.667</b>	0.38	0.33	0.30	0.30	0.32	0.36	0.38	0.39	0.44	0.43	<b>0.46</b>	<b>0.46</b>	0.44	0.41
m	<b>1.500</b>	<b>4.500</b>	<b>7.500</b>	<b>10.500</b>	<b>13.500</b>	<b>16.500</b>	<b>19.500</b>	<b>22.500</b>	<b>25.500</b>	<b>28.500</b>	<b>31.500</b>	<b>34.500</b>	<b>37.500</b>	<b>40.500</b>

Raster: 14 x 3 Puncte

Lm [cd/m <sup>2</sup> ]	Lmin [cd/m <sup>2</sup> ]	Lmax [cd/m <sup>2</sup> ]	g1	g2
0.30	0.19	0.46	0.626	0.409

### Densitate a luminii cu lampă nouă [cd/m<sup>2</sup>]

<b>7.333</b>	0.24	<b>0.22</b>	0.23	0.24	0.23	0.24	0.26	0.28	0.30	0.30	0.31	0.29	0.25	0.24
<b>6.000</b>	0.36	0.31	0.29	0.28	0.27	0.31	0.33	0.36	0.39	0.37	0.41	0.41	0.37	0.37
<b>4.667</b>	0.45	0.39	0.35	0.35	0.37	0.42	0.44	0.46	0.52	0.51	<b>0.54</b>	<b>0.54</b>	0.52	0.48
m	<b>1.500</b>	<b>4.500</b>	<b>7.500</b>	<b>10.500</b>	<b>13.500</b>	<b>16.500</b>	<b>19.500</b>	<b>22.500</b>	<b>25.500</b>	<b>28.500</b>	<b>31.500</b>	<b>34.500</b>	<b>37.500</b>	<b>40.500</b>

Raster: 14 x 3 Puncte

Lm [cd/m <sup>2</sup> ]	Lmin [cd/m <sup>2</sup> ]	Lmax [cd/m <sup>2</sup> ]	g1	g2
0.35	0.22	0.54	0.626	0.409



## sit. 45 (M6)

### Iluminare orizontală [lx]

<b>8.875</b>	4.43	4.02	3.93	3.42	3.00	2.65	2.51	2.65	3.00	3.42	3.93	4.02	4.43
<b>7.625</b>	5.96	5.26	4.66	3.90	3.16	2.81	2.67	2.81	3.16	3.90	4.66	5.26	5.96
<b>6.375</b>	8.43	6.87	5.52	4.19	3.20	2.86	2.81	2.86	3.20	4.19	5.52	6.87	8.43
<b>5.125</b>	10.3	8.30	6.25	4.27	3.19	2.77	2.63	2.77	3.19	4.27	6.25	8.30	10.3
<b>3.875</b>	11.6	9.13	6.38	4.28	2.98	2.51	2.38	2.51	2.98	4.28	6.38	9.13	11.6
<b>2.625</b>	<b>12.8</b>	9.12	6.05	3.75	2.63	2.21	<b>2.09</b>	2.21	2.63	3.75	6.05	9.12	<b>12.8</b>
m	<b>1.500</b>	<b>4.500</b>	<b>7.500</b>	<b>10.500</b>	<b>13.500</b>	<b>16.500</b>	<b>19.500</b>	<b>22.500</b>	<b>25.500</b>	<b>28.500</b>	<b>31.500</b>	<b>34.500</b>	<b>37.500</b>

Raster: 13 x 6 Puncte

Em [lx]	Emin [lx]	Emax [lx]	g1	g2
4.98	2.09	12.8	0.419	0.164



## Observator 1

### Densitate a luminii cu carosabil uscat [cd/m²]

<b>8.875</b>	<b>0.15</b>	<b>0.15</b>	0.17	0.17	0.18	0.18	0.19	0.21	0.21	0.19	0.18	0.16	<b>0.15</b>
<b>7.625</b>	0.21	0.19	0.20	0.20	0.20	0.21	0.23	0.24	0.24	0.24	0.22	0.20	0.21
<b>6.375</b>	0.28	0.25	0.24	0.24	0.24	0.25	0.28	0.28	0.28	0.31	0.30	0.29	0.30
<b>5.125</b>	0.35	0.31	0.30	0.29	0.28	0.31	0.33	0.35	0.35	0.38	0.39	0.38	0.37
<b>3.875</b>	0.42	0.37	0.35	0.36	0.38	0.40	0.43	0.43	0.45	0.47	0.47	0.47	0.43
<b>2.625</b>	0.50	0.46	0.45	0.47	0.49	0.51	0.54	<b>0.55</b>	0.52	0.53	0.54	0.52	0.51
m	<b>1.500</b>	<b>4.500</b>	<b>7.500</b>	<b>10.500</b>	<b>13.500</b>	<b>16.500</b>	<b>19.500</b>	<b>22.500</b>	<b>25.500</b>	<b>28.500</b>	<b>31.500</b>	<b>34.500</b>	<b>37.500</b>

Raster: 13 x 6 Puncte

Lm [cd/m²]	Lmin [cd/m²]	Lmax [cd/m²]	g1	g2
0.32	0.15	0.55	0.468	0.273

### Densitate a luminii cu lampă nouă [cd/m²]

<b>8.875</b>	<b>0.18</b>	<b>0.18</b>	0.20	0.21	0.21	0.21	0.23	0.24	0.24	0.23	0.21	<b>0.18</b>	<b>0.18</b>
<b>7.625</b>	0.24	0.22	0.23	0.24	0.24	0.25	0.27	0.28	0.28	0.29	0.26	0.24	0.25
<b>6.375</b>	0.33	0.29	0.28	0.28	0.28	0.30	0.33	0.33	0.33	0.36	0.35	0.34	0.35
<b>5.125</b>	0.42	0.37	0.35	0.34	0.33	0.36	0.39	0.42	0.41	0.45	0.46	0.44	0.44
<b>3.875</b>	0.49	0.44	0.41	0.43	0.44	0.47	0.50	0.51	0.53	0.56	0.55	0.55	0.51
<b>2.625</b>	0.59	0.54	0.53	0.55	0.58	0.60	0.64	<b>0.65</b>	0.62	0.63	0.64	0.61	0.60
m	<b>1.500</b>	<b>4.500</b>	<b>7.500</b>	<b>10.500</b>	<b>13.500</b>	<b>16.500</b>	<b>19.500</b>	<b>22.500</b>	<b>25.500</b>	<b>28.500</b>	<b>31.500</b>	<b>34.500</b>	<b>37.500</b>

Raster: 13 x 6 Puncte

Lm [cd/m²]	Lmin [cd/m²]	Lmax [cd/m²]	g1	g2
0.38	0.18	0.65	0.468	0.273

## Observator 2

### Densitate a luminii cu carosabil uscat [cd/m²]

<b>8.875</b>	<b>0.16</b>	<b>0.16</b>	0.18	0.19	0.19	0.19	0.21	0.22	0.22	0.21	0.19	<b>0.16</b>	<b>0.16</b>
<b>7.625</b>	0.22	0.20	0.22	0.23	0.23	0.24	0.25	0.26	0.26	0.26	0.24	0.21	0.22
<b>6.375</b>	0.32	0.29	0.29	0.28	0.28	0.31	0.32	0.33	0.31	0.34	0.32	0.30	0.32
<b>5.125</b>	0.41	0.38	0.36	0.37	0.38	0.40	0.39	0.42	0.41	0.42	0.43	0.41	0.40
<b>3.875</b>	0.49	0.48	0.49	0.50	0.51	0.52	0.55	0.54	0.52	0.53	0.51	0.51	0.47
<b>2.625</b>	0.48	0.45	0.46	0.50	0.55	0.58	<b>0.61</b>	<b>0.61</b>	0.57	0.57	0.57	0.53	0.52
m	<b>1.500</b>	<b>4.500</b>	<b>7.500</b>	<b>10.500</b>	<b>13.500</b>	<b>16.500</b>	<b>19.500</b>	<b>22.500</b>	<b>25.500</b>	<b>28.500</b>	<b>31.500</b>	<b>34.500</b>	<b>37.500</b>

Raster: 13 x 6 Puncte

Lm [cd/m²]	Lmin [cd/m²]	Lmax [cd/m²]	g1	g2
0.36	0.16	0.61	0.435	0.258

### Densitate a luminii cu lampă nouă [cd/m²]

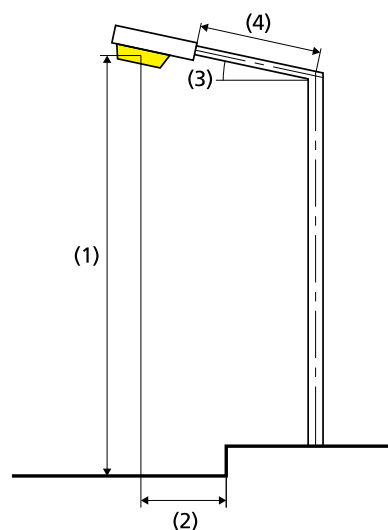
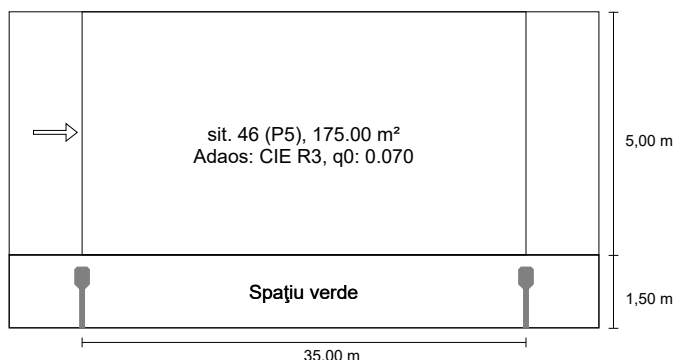
<b>8.875</b>	<b>0.19</b>	<b>0.19</b>	0.22	0.22	0.23	0.23	0.25	0.26	0.26	0.24	0.22	<b>0.19</b>	<b>0.19</b>
<b>7.625</b>	0.25	0.24	0.26	0.28	0.27	0.28	0.30	0.31	0.30	0.31	0.28	0.25	0.26
<b>6.375</b>	0.37	0.34	0.34	0.33	0.33	0.36	0.38	0.39	0.36	0.40	0.38	0.36	0.37
<b>5.125</b>	0.48	0.44	0.43	0.44	0.45	0.47	0.46	0.50	0.48	0.50	0.50	0.48	0.47
<b>3.875</b>	0.58	0.57	0.57	0.59	0.60	0.61	0.64	0.63	0.61	0.63	0.60	0.60	0.55
<b>2.625</b>	0.57	0.53	0.54	0.59	0.65	0.69	<b>0.72</b>	<b>0.72</b>	0.67	0.67	0.67	0.62	0.62
m	<b>1.500</b>	<b>4.500</b>	<b>7.500</b>	<b>10.500</b>	<b>13.500</b>	<b>16.500</b>	<b>19.500</b>	<b>22.500</b>	<b>25.500</b>	<b>28.500</b>	<b>31.500</b>	<b>34.500</b>	<b>37.500</b>

Raster: 13 x 6 Puncte

Lm [cd/m²]	Lmin [cd/m²]	Lmax [cd/m²]	g1	g2
0.43	0.19	0.72	0.435	0.258

**sit. 46 până la EN 13201:2015**

**LUG LIGHT FACTORY 130232.5L192.101 4756  
URBINI LED 740 O9 700 II**



Rezultate pentru câmpurile de evaluare  
Factorul de menținere: 0.85

sit. 46 (P5)

TI [%] ≤ 30	Em [lx] ≥ 3.00 ≤ 4.50	Emin [lx] ≥ 0.60
✓ 11	✓ 4.44	✓ 1.81

Rezultate pentru indicatorii de eficiență energetică

<b>Indicatorul densității de putere (Dp)</b>	0.035 W/lx·m²
Densitatea consumului de energie	
Aranjament: 4756 URBINI LED 740 O9 700 II (108.0 kWh/an)	0.6 kWh/m² an

Lampă:	1xLED 4000K
Flux luminos (corp de iluminat):	3250.69 lm
Flux luminos (lampă):	3250.00 lm
Ore de lucru	
4000 h:	100.0 %, 27.0 W
W/km:	783.0
Aranjament:	Pe o parte Jos
Distanță stâlp:	35.000 m
Înclinare consolă (3):	15.0°
Lungime consolă (4):	1.003 m
Înălțimea deasupra planului util (1):	7.900 m
Înălțimea în consolă a punctului de lumină (2):	-0.500 m

ULR:	0.01
ULOR:	0.00

Valori maxime ale intensității luminoase

peste 70°	702 cd/klm *
peste 80°	630 cd/klm *
peste 90°	103 cd/klm *

Clasă intensitate luminoasă: /

Orice direcție ce formează unghiul dat cu verticala în jos a corpurilor de iluminat instalate pentru utilizare.

\* Luminous intensity values in [cd/klm] for calculating luminous intensity class refer to the output flux of the luminaire, according EN 13201:2015.

Aranjamentul respectă clasa cu indici de orbire D.0

## sit. 46 (P5)

### Iluminare orizontală [lx]

<b>5.667</b>	9.36	7.54	5.57	3.93	2.92	2.53	2.53	2.92	3.93	5.57	7.54	9.36
<b>4.000</b>	<b>10.2</b>	7.45	5.09	3.40	2.54	2.26	2.26	2.54	3.40	5.09	7.45	<b>10.2</b>
<b>2.333</b>	4.13	3.64	3.22	2.42	1.93	<b>1.81</b>	<b>1.81</b>	1.93	2.42	3.22	3.64	4.13
m	<b>1.458</b>	<b>4.375</b>	<b>7.292</b>	<b>10.208</b>	<b>13.125</b>	<b>16.042</b>	<b>18.958</b>	<b>21.875</b>	<b>24.792</b>	<b>27.708</b>	<b>30.625</b>	<b>33.542</b>

Raster: 12 x 3 Puncte

Em [lx]	Emin [lx]	Emax [lx]	g1	g2
4.44	1.81	10.2	0.407	0.177

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## Observator 1