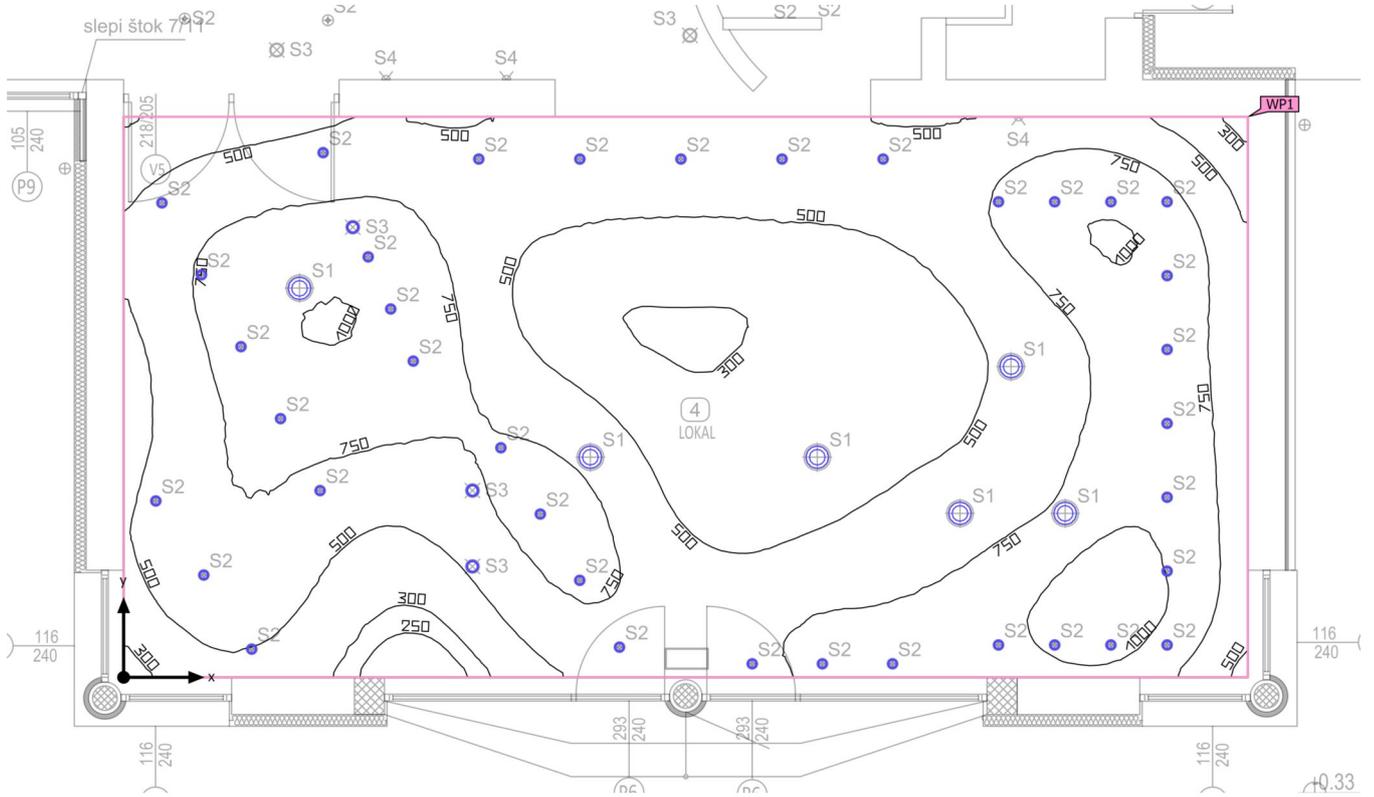


Dom Omladine, Lajkovac

Fotometrijski proračun opšteg osvetljenja

4. Lokal (Light scene 1)

Summary



| | | | |
|--------------------|---|------------------------------------|--------------------|
| Ground area | 65.32 m ² | Clearance height | 3.200 m |
| Reflection factors | Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 % | Mounting height | -0.080 m – 3.200 m |
| Maintenance factor | 0.80 (fixed) | Height _{Working plane} | 0.800 m |
| | | Wall zone _{Working plane} | 0.000 m |

4. Lokal (Light scene 1)

Summary

Results

| | Symbol | Calculated | Index |
|----------------------------------|----------------------------------|-------------------------------|-------|
| Working plane | $\bar{E}_{\text{perpendicular}}$ | 633 lx | WP1 |
| | $U_o (g_1)$ | 0.31 | WP1 |
| Energy estimation ⁽²⁾ | Consumption | 1250 kWh/a | |
| Space | Lighting power density | 7.73 W/m ² | |
| | | 1.22 W/m ² /100 lx | |

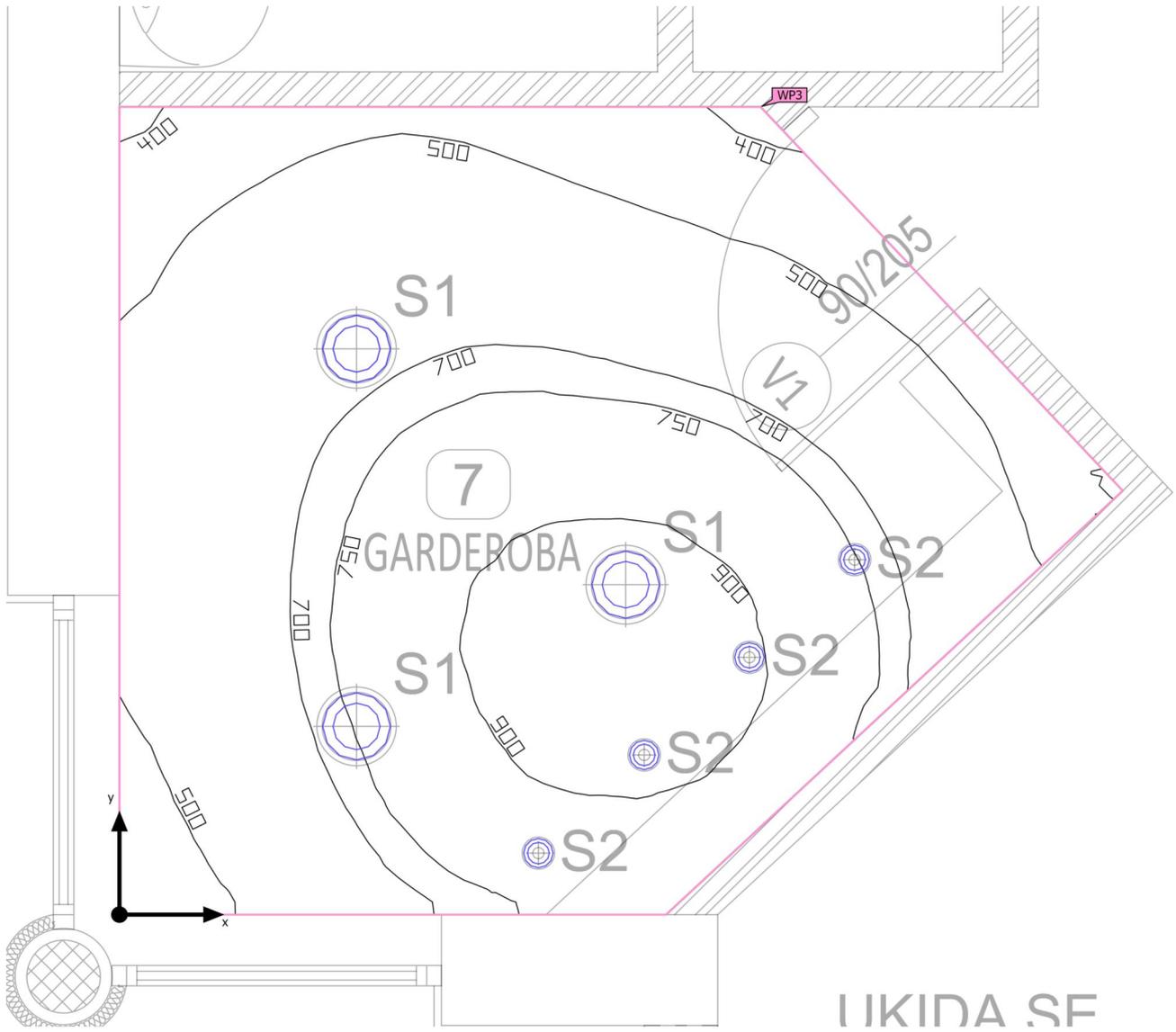
(2) Calculated using DIN:18599-4.

Luminaire list

| pcs. | Manufacturer | Article No. | Article name | P | Φ | Luminous efficacy |
|------|--------------|-------------------------|-----------------------------------|--------|---------|-------------------|
| 6 | Relco Group | 24365/30/ DL | LED LIFE CROMO 30W 4000K | 22.0 W | 2115 lm | 96.1 lm/W |
| 4 | Relco Group | RL21310-1 | LED VENEZIA 10W 30 3K IP67 | 10.0 W | 717 lm | 71.7 lm/W |
| 37 | TRILUX | HR002.XX6 8.840.XXXX | Bari New LED 100 9W 1130lm 840 RW | 9.0 W | 1130 lm | 125.6 lm/W |

7. Garderoba (Light scene 1)

Summary



| | | | |
|--------------------|---|------------------------------------|---------|
| Ground area | 7.51 m ² | Clearance height | 3.200 m |
| Reflection factors | Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 % | Mounting height | 3.200 m |
| Maintenance factor | 0.80 (fixed) | Height _{Working plane} | 0.800 m |
| | | Wall zone _{Working plane} | 0.000 m |

7. Garderoba (Light scene 1)

Summary

Results

| | Symbol | Calculated | Index |
|----------------------------------|----------------------------------|-------------------------------|-------|
| Working plane | $\bar{E}_{\text{perpendicular}}$ | 674 lx | WP3 |
| | $U_o (g_1)$ | 0.58 | WP3 |
| Energy estimation ⁽²⁾ | Consumption | 277 kWh/a | |
| Space | Lighting power density | 14.91 W/m ² | |
| | | 2.21 W/m ² /100 lx | |

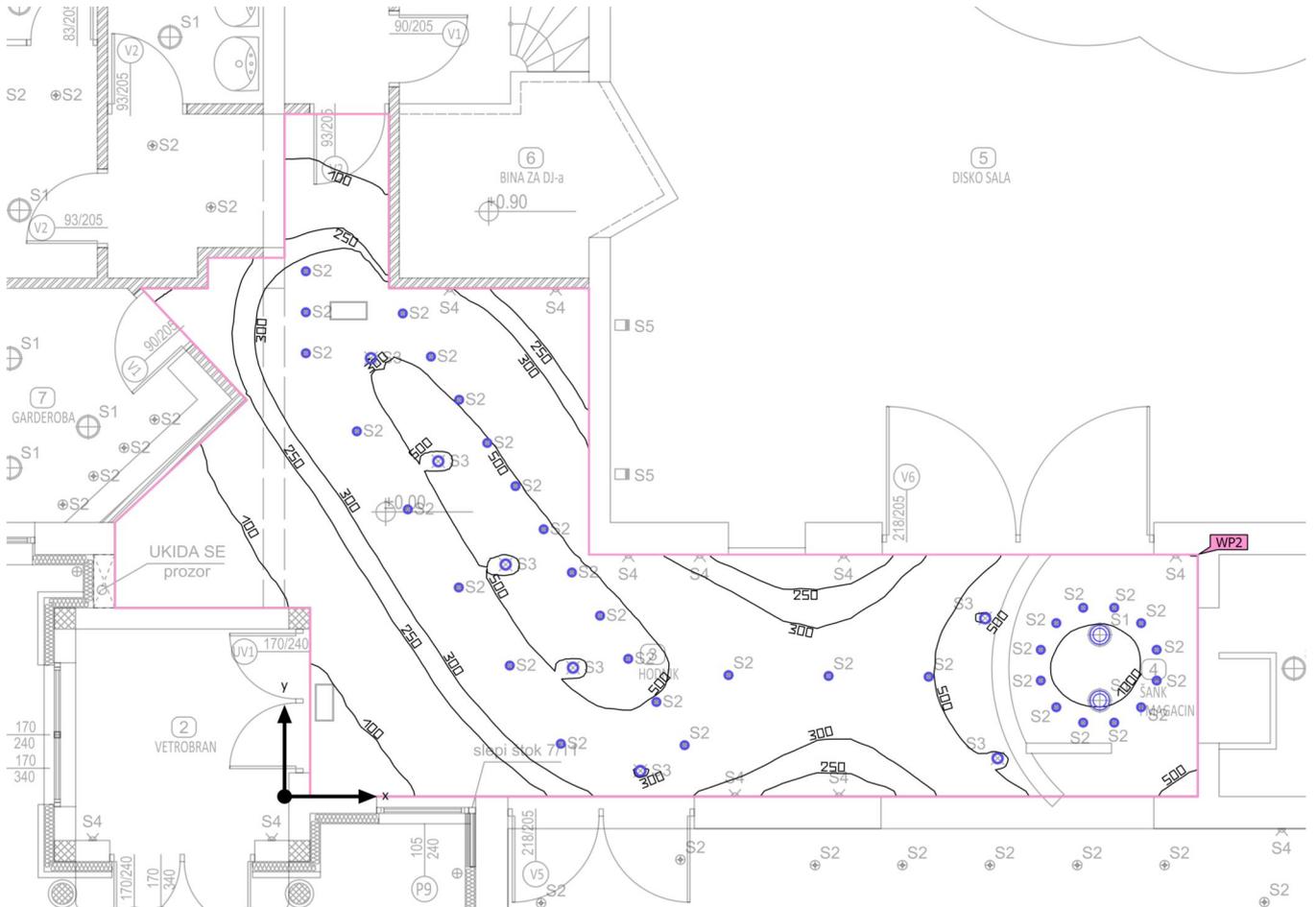
(2) Calculated using DIN:18599-4.

Luminaire list

| pcs. | Manufacturer | Article No. | Article name | P | Φ | Luminous efficacy |
|------|--------------|-------------------------|----------------------------------|--------|---------|-------------------|
| 4 | Relco Group | 24365/30/ DL | LED LIFE CROMO 30W 4000K | 22.0 W | 2115 lm | 96.1 lm/W |
| 4 | TRILUX | HR001.XX6 7.840.XXXX | Bari New LED 100 6W 690lm 840 RM | 6.0 W | 690 lm | 115.0 lm/W |

Hodnik - 1 (Light scene 1)

Summary



| | | | |
|--------------------|---|------------------------------------|--------------------|
| Ground area | 49.23 m ² | Clearance height | 3.200 m |
| Reflection factors | Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 % | Mounting height | -0.080 m – 3.200 m |
| Maintenance factor | 0.80 (fixed) | Height _{Working plane} | 0.000 m |
| | | Wall zone _{Working plane} | 0.000 m |

Hodnik - 1 (Light scene 1)

Summary

Results

| | Symbol | Calculated | Index |
|----------------------------------|----------------------------------|-------------------------------|-------|
| Working plane | $\bar{E}_{\text{perpendicular}}$ | 390 lx | WP2 |
| | $U_o (g_1)$ | 0.074 | WP2 |
| Energy estimation ⁽²⁾ | Consumption | 350 kWh/a | |
| Space | Lighting power density | 6.46 W/m ² | |
| | | 1.66 W/m ² /100 lx | |

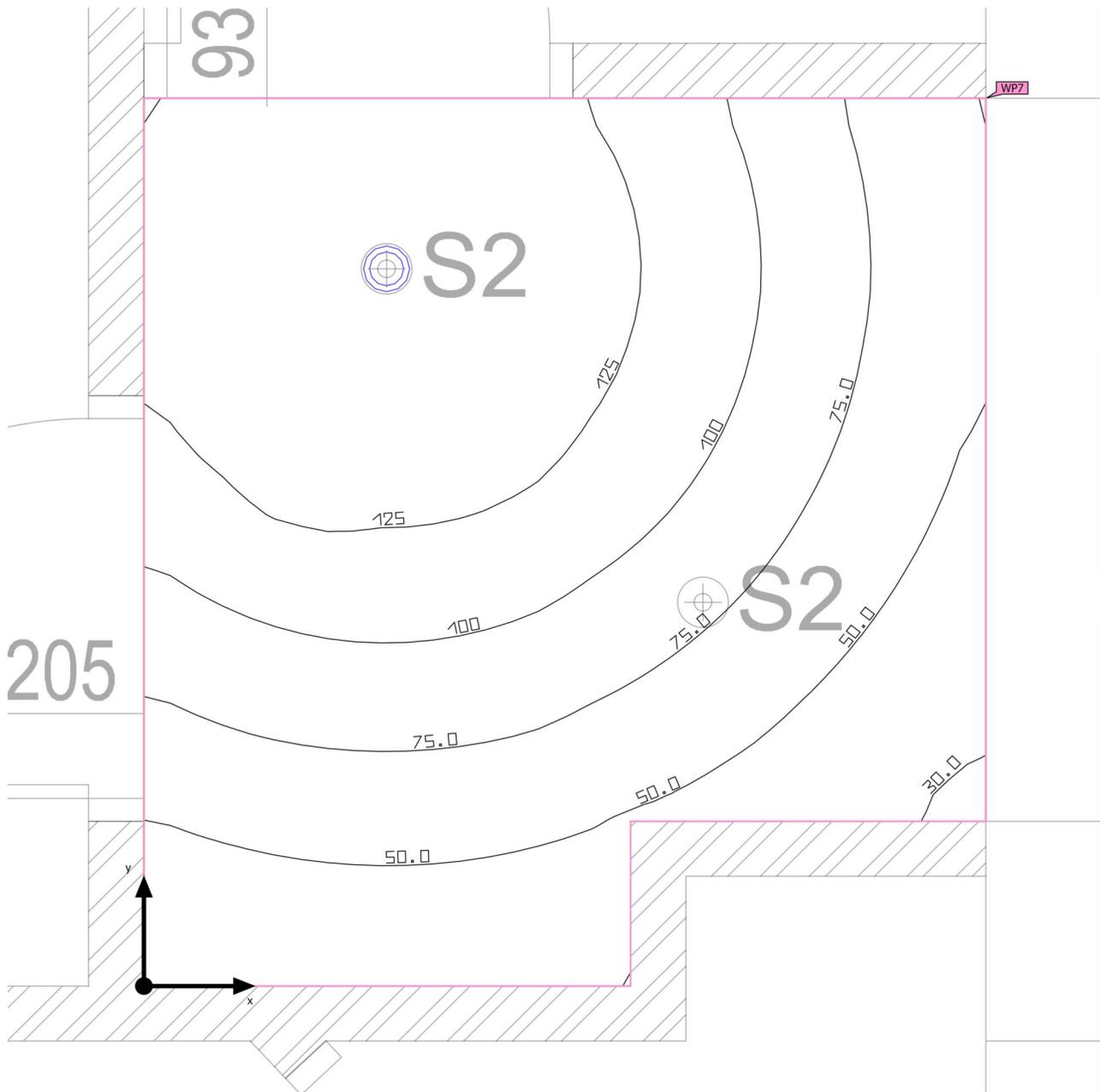
(2) Calculated using DIN:18599-4.

Luminaire list

| pcs. | Manufacturer | Article No. | Article name | P | Φ | Luminous efficacy |
|------|--------------|-------------------------|----------------------------------|--------|---------|-------------------|
| 2 | Relco Group | 24365/30/ DL | LED LIFE CROMO 30W 4000K | 22.0 W | 2115 lm | 96.1 lm/W |
| 7 | Relco Group | RL21310-1 | LED VENEZIA 10W 30 3K IP67 | 10.0 W | 717 lm | 71.7 lm/W |
| 34 | TRILUX | HR001.XX6 7.840.XXXX | Bari New LED 100 6W 690lm 840 RM | 6.0 W | 690 lm | 115.0 lm/W |

Hodnik - 2 (Light scene 1)

Summary



| | |
|--------------------|---|
| Ground area | 3.26 m ² |
| Reflection factors | Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 % |
| Maintenance factor | 0.80 (fixed) |

| | |
|------------------------------------|---------|
| Clearance height | 3.200 m |
| Mounting height | 3.200 m |
| Height _{Working plane} | 0.800 m |
| Wall zone _{Working plane} | 0.000 m |

Hodnik - 2 (Light scene 1)

Summary

Results

| | Symbol | Calculated | Index |
|----------------------------------|----------------------------------|-------------------------------|-------|
| Working plane | $\bar{E}_{\text{perpendicular}}$ | 91.2 lx | WP7 |
| | $U_0 (g_1)$ | 0.31 | WP7 |
| Energy estimation ⁽²⁾ | Consumption | 14.9 kWh/a | |
| Space | Lighting power density | 1.84 W/m ² | |
| | | 2.02 W/m ² /100 lx | |

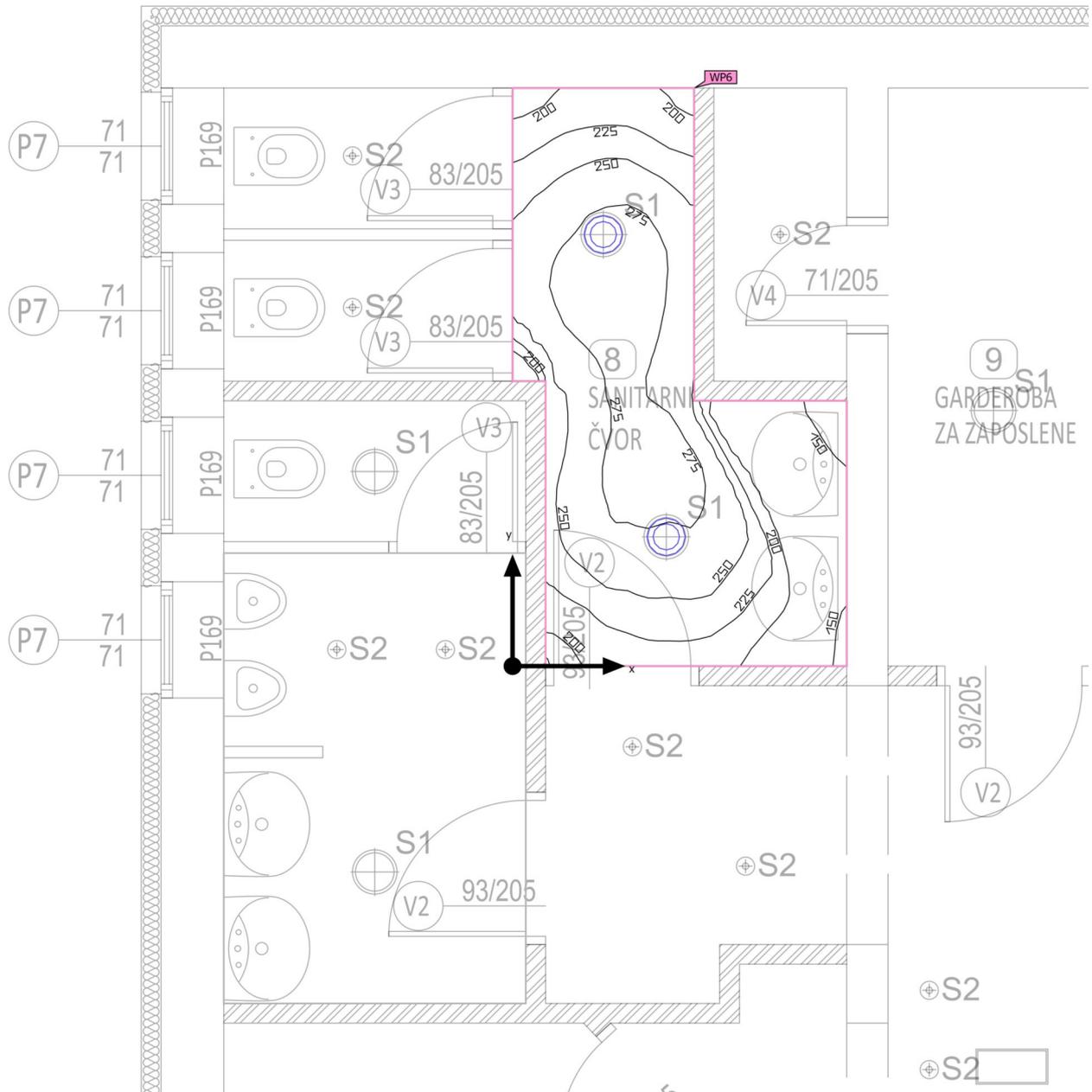
(2) Calculated using DIN:18599-4.

Luminaire list

| pcs. | Manufacturer | Article No. | Article name | P | Φ | Luminous efficacy |
|------|--------------|-------------------------|----------------------------------|-------|--------|-------------------|
| 1 | TRILUX | HR001.XX6 7.840.XXXX | Bari New LED 100 6W 690lm 840 RM | 6.0 W | 690 lm | 115.0 lm/W |

Hodnik - 3 (Light scene 1)

Summary



| | | | |
|--------------------|---|------------------------------------|---------|
| Ground area | 5.03 m ² | Clearance height | 3.200 m |
| Reflection factors | Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 % | Mounting height | 3.200 m |
| Maintenance factor | 0.80 (fixed) | Height _{Working plane} | 0.800 m |
| | | Wall zone _{Working plane} | 0.000 m |

Hodnik - 3 (Light scene 1)

Summary

Results

| | Symbol | Calculated | Index |
|----------------------------------|----------------------------------|-------------------------------|-------|
| Working plane | $\bar{E}_{\text{perpendicular}}$ | 238 lx | WP6 |
| | $U_o (g_1)$ | 0.58 | WP6 |
| Energy estimation ⁽²⁾ | Consumption | 109 kWh/a | |
| Space | Lighting power density | 8.74 W/m ² | |
| | | 3.68 W/m ² /100 lx | |

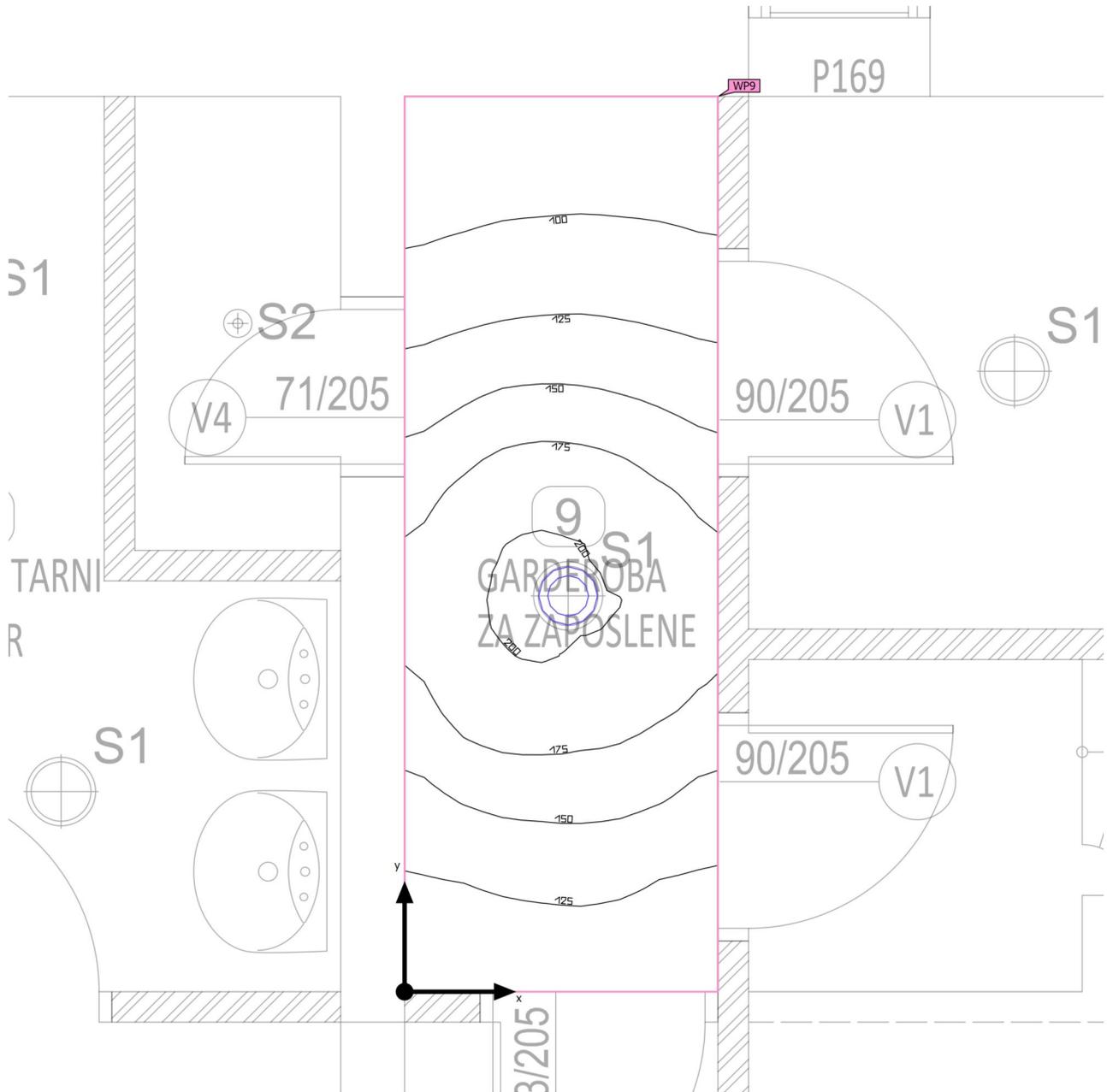
(2) Calculated using DIN:18599-4.

Luminaire list

| pcs. | Manufacturer | Article No. | Article name | P | Φ | Luminous efficacy |
|------|--------------|-----------------|--------------------------|--------|---------|-------------------|
| 2 | Relco Group | 24365/30/ DL | LED LIFE CROMO 30W 4000K | 22.0 W | 2115 lm | 96.1 lm/W |

Hodnik - 4 (Light scene 1)

Summary



| | | | |
|--------------------|---|------------------------------------|---------|
| Ground area | 4.32 m ² | Clearance height | 3.200 m |
| Reflection factors | Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 % | Mounting height | 3.200 m |
| Maintenance factor | 0.80 (fixed) | Height _{Working plane} | 0.800 m |
| | | Wall zone _{Working plane} | 0.000 m |

Hodnik - 4 (Light scene 1)

Summary

Results

| | Symbol | Calculated | Index |
|----------------------------------|----------------------------------|-------------------------------|-------|
| Working plane | $\bar{E}_{\text{perpendicular}}$ | 144 lx | WP9 |
| | $U_o (g_1)$ | 0.55 | WP9 |
| Energy estimation ⁽²⁾ | Consumption | 54.5 kWh/a | |
| Space | Lighting power density | 5.09 W/m ² | |
| | | 3.53 W/m ² /100 lx | |

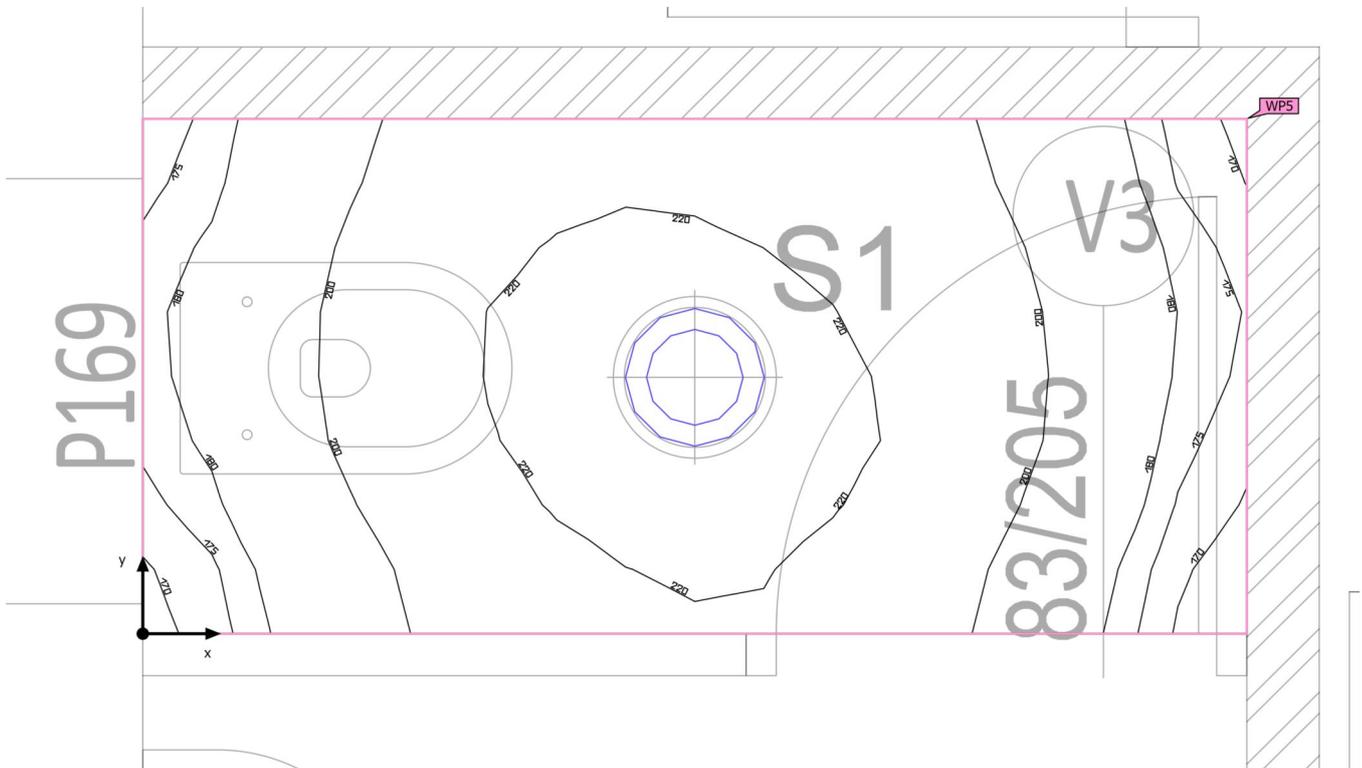
(2) Calculated using DIN:18599-4.

Luminaire list

| pcs. | Manufacturer | Article No. | Article name | P | Φ | Luminous efficacy |
|------|--------------|-----------------|--------------------------|--------|---------|-------------------|
| 1 | Relco Group | 24365/30/ DL | LED LIFE CROMO 30W 4000K | 22.0 W | 2115 lm | 96.1 lm/W |

Kabina (Light scene 1)

Summary



| | | | |
|--------------------|---|------------------------------------|---------|
| Ground area | 1.57 m ² | Clearance height | 3.200 m |
| Reflection factors | Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 % | Mounting height | 3.200 m |
| Maintenance factor | 0.80 (fixed) | Height _{Working plane} | 0.800 m |
| | | Wall zone _{Working plane} | 0.000 m |

Kabina (Light scene 1)

Summary

Results

| | Symbol | Calculated | Index |
|----------------------------------|----------------------------------|-------------------------------|-------|
| Working plane | $\bar{E}_{\text{perpendicular}}$ | 203 lx | WP5 |
| | $U_o (g_1)$ | 0.82 | WP5 |
| Energy estimation ⁽²⁾ | Consumption | 54.5 kWh/a | |
| Space | Lighting power density | 13.98 W/m ² | |
| | | 6.88 W/m ² /100 lx | |

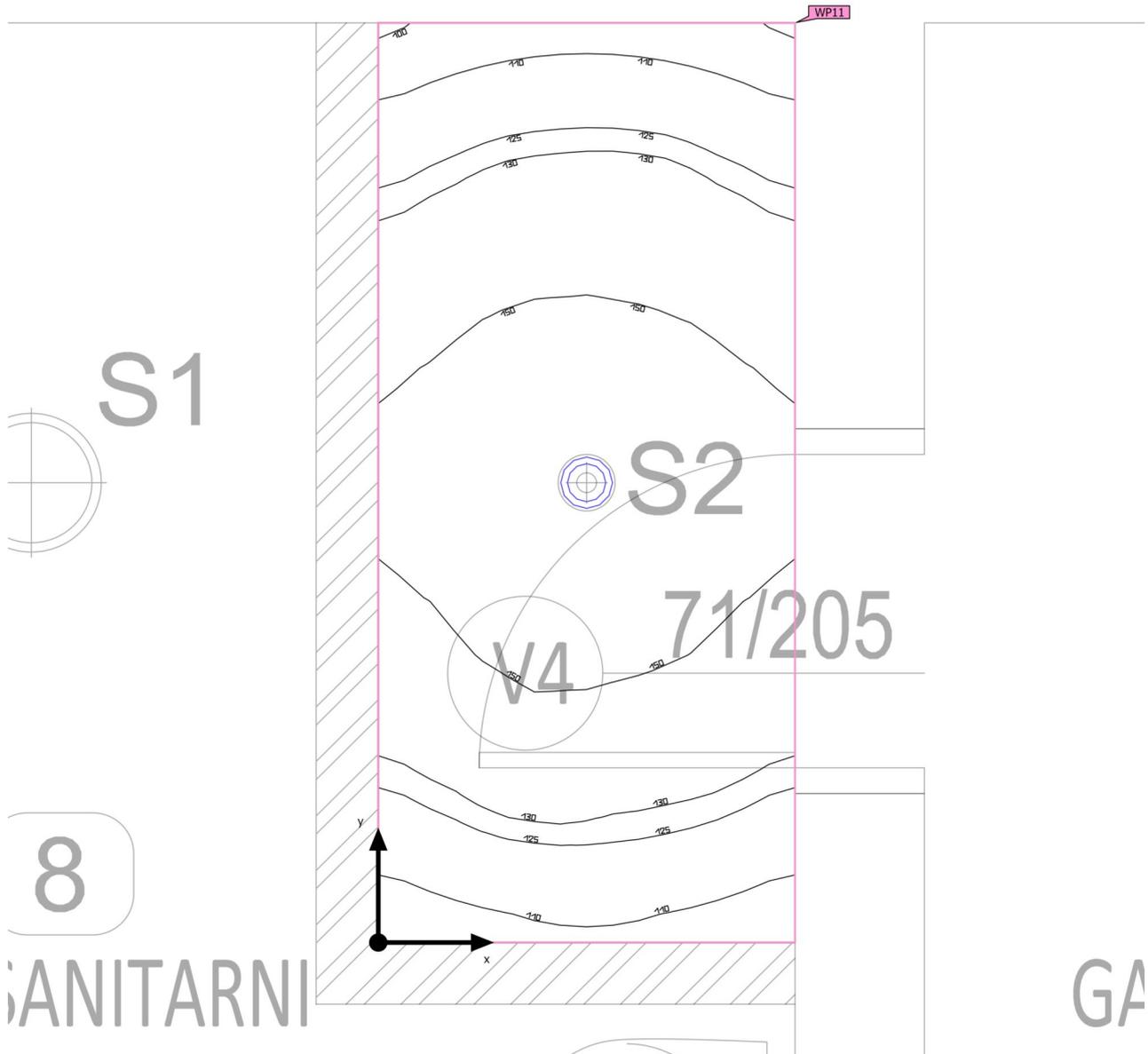
(2) Calculated using DIN:18599-4.

Luminaire list

| pcs. | Manufacturer | Article No. | Article name | P | Φ | Luminous efficacy |
|------|--------------|-----------------|--------------------------|--------|---------|-------------------|
| 1 | Relco Group | 24365/30/ DL | LED LIFE CROMO 30W 4000K | 22.0 W | 2115 lm | 96.1 lm/W |

Ostava (Light scene 1)

Summary



| | | | |
|--------------------|---|------------------------------------|---------|
| Ground area | 1.44 m ² | Clearance height | 3.200 m |
| Reflection factors | Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 % | Mounting height | 3.200 m |
| Maintenance factor | 0.80 (fixed) | Height _{Working plane} | 0.800 m |
| | | Wall zone _{Working plane} | 0.000 m |

Ostava (Light scene 1)

Summary

Results

| | Symbol | Calculated | Index |
|----------------------------------|----------------------------------|-------------------------------|-------|
| Working plane | $\bar{E}_{\text{perpendicular}}$ | 138 lx | WP11 |
| | $U_o (g_1)$ | 0.72 | WP11 |
| Energy estimation ⁽²⁾ | Consumption | 14.9 kWh/a | |
| Space | Lighting power density | 4.16 W/m ² | |
| | | 3.03 W/m ² /100 lx | |

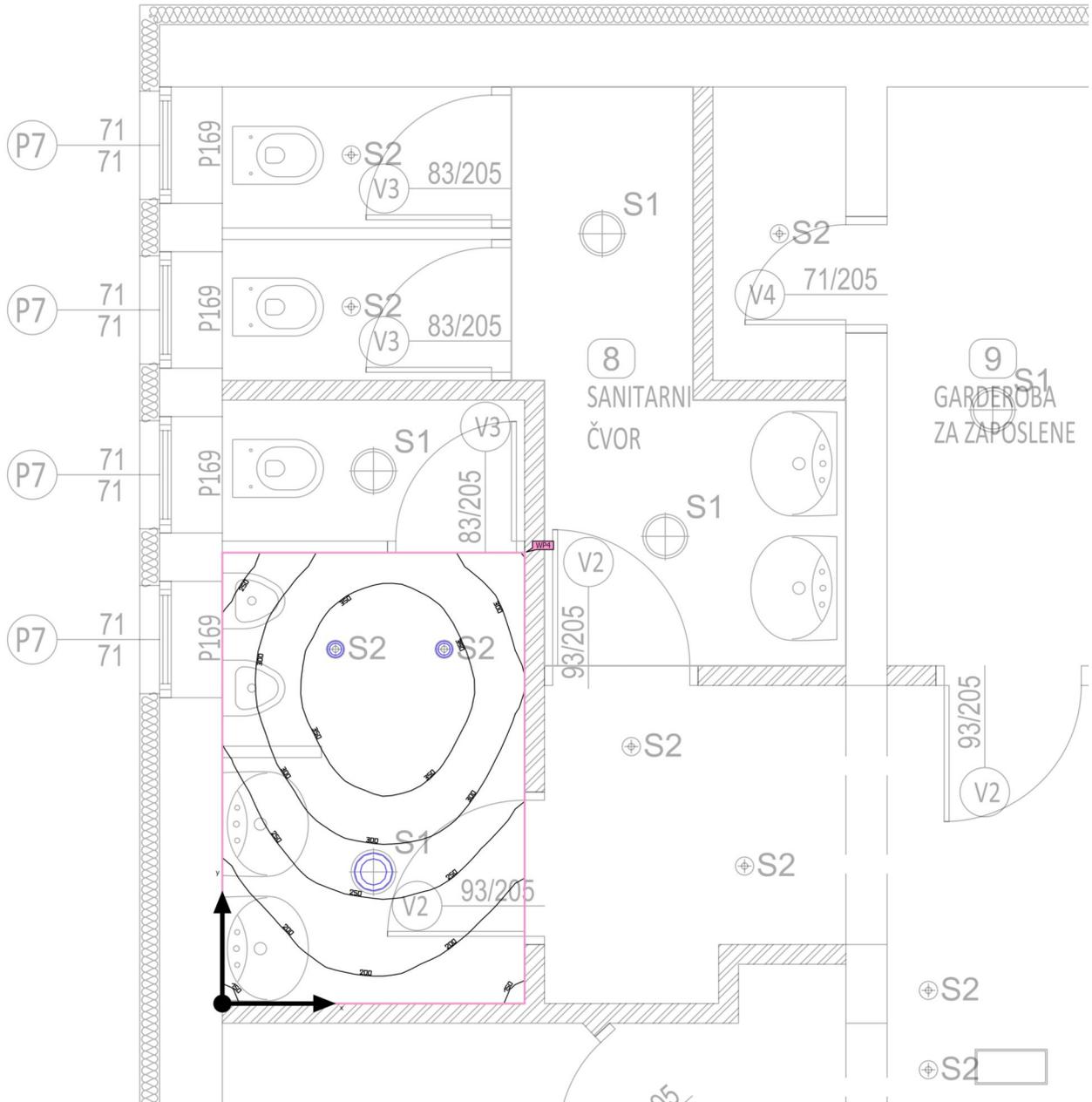
(2) Calculated using DIN:18599-4.

Luminaire list

| pcs. | Manufacturer | Article No. | Article name | P | Φ | Luminous efficacy |
|------|--------------|-------------------------|----------------------------------|-------|--------|-------------------|
| 1 | TRILUX | HR001.XX6 7.840.XXXX | Bari New LED 100 6W 690lm 840 RM | 6.0 W | 690 lm | 115.0 lm/W |

Toalet (Light scene 1)

Summary



| | | | |
|--------------------|---|------------------------------------|---------|
| Ground area | 5.03 m ² | Clearance height | 3.200 m |
| Reflection factors | Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 % | Mounting height | 3.200 m |
| Maintenance factor | 0.80 (fixed) | Height _{Working plane} | 0.800 m |
| | | Wall zone _{Working plane} | 0.000 m |

Toalet (Light scene 1)

Summary

Results

| | Symbol | Calculated | Index |
|----------------------------------|----------------------------------|-------------------------------|-------|
| Working plane | $\bar{E}_{\text{perpendicular}}$ | 284 lx | WP4 |
| | $U_o (g_1)$ | 0.51 | WP4 |
| Energy estimation ⁽²⁾ | Consumption | 84.2 kWh/a | |
| Space | Lighting power density | 6.76 W/m ² | |
| | | 2.38 W/m ² /100 lx | |

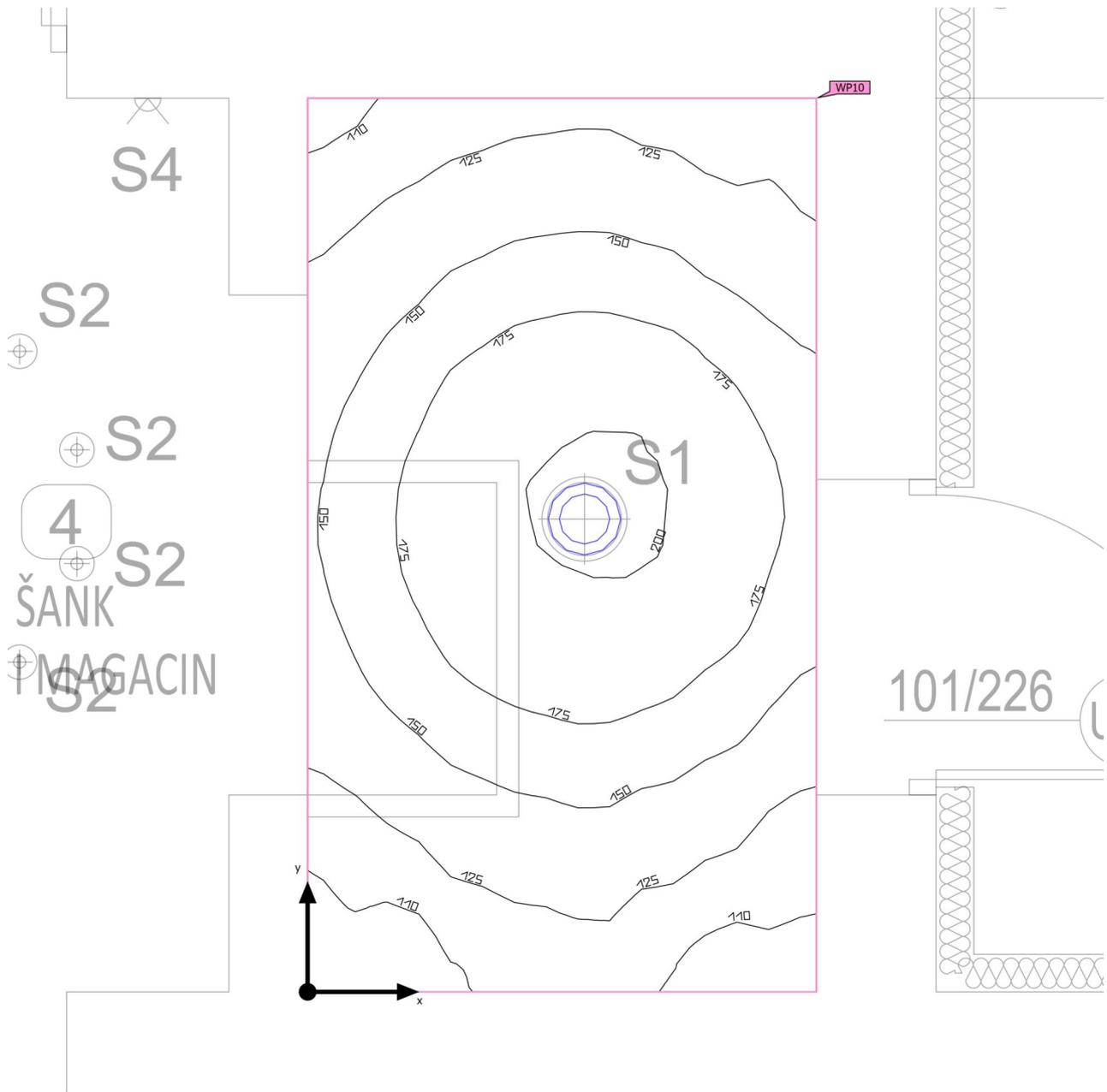
(2) Calculated using DIN:18599-4.

Luminaire list

| pcs. | Manufacturer | Article No. | Article name | P | Φ | Luminous efficacy |
|------|--------------|-------------------------|----------------------------------|--------|---------|-------------------|
| 1 | Relco Group | 24365/30/ DL | LED LIFE CROMO 30W 4000K | 22.0 W | 2115 lm | 96.1 lm/W |
| 2 | TRILUX | HR001.XX6 7.840.XXXX | Bari New LED 100 6W 690lm 840 RM | 6.0 W | 690 lm | 115.0 lm/W |

Vetrobran (Light scene 1)

Summary



| | |
|--------------------|---|
| Ground area | 4.62 m ² |
| Reflection factors | Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 % |
| Maintenance factor | 0.80 (fixed) |

| | |
|------------------------------------|---------|
| Clearance height | 3.200 m |
| Mounting height | 3.200 m |
| Height _{Working plane} | 0.800 m |
| Wall zone _{Working plane} | 0.000 m |

Vetrobran (Light scene 1)

Summary

Results

| | Symbol | Calculated | Index |
|----------------------------------|----------------------------------|-------------------------------|-------|
| Working plane | $\bar{E}_{\text{perpendicular}}$ | 152 lx | WP10 |
| | $U_o (g_1)$ | 0.66 | WP10 |
| Energy estimation ⁽²⁾ | Consumption | 54.5 kWh/a | |
| Space | Lighting power density | 4.76 W/m ² | |
| | | 3.13 W/m ² /100 lx | |

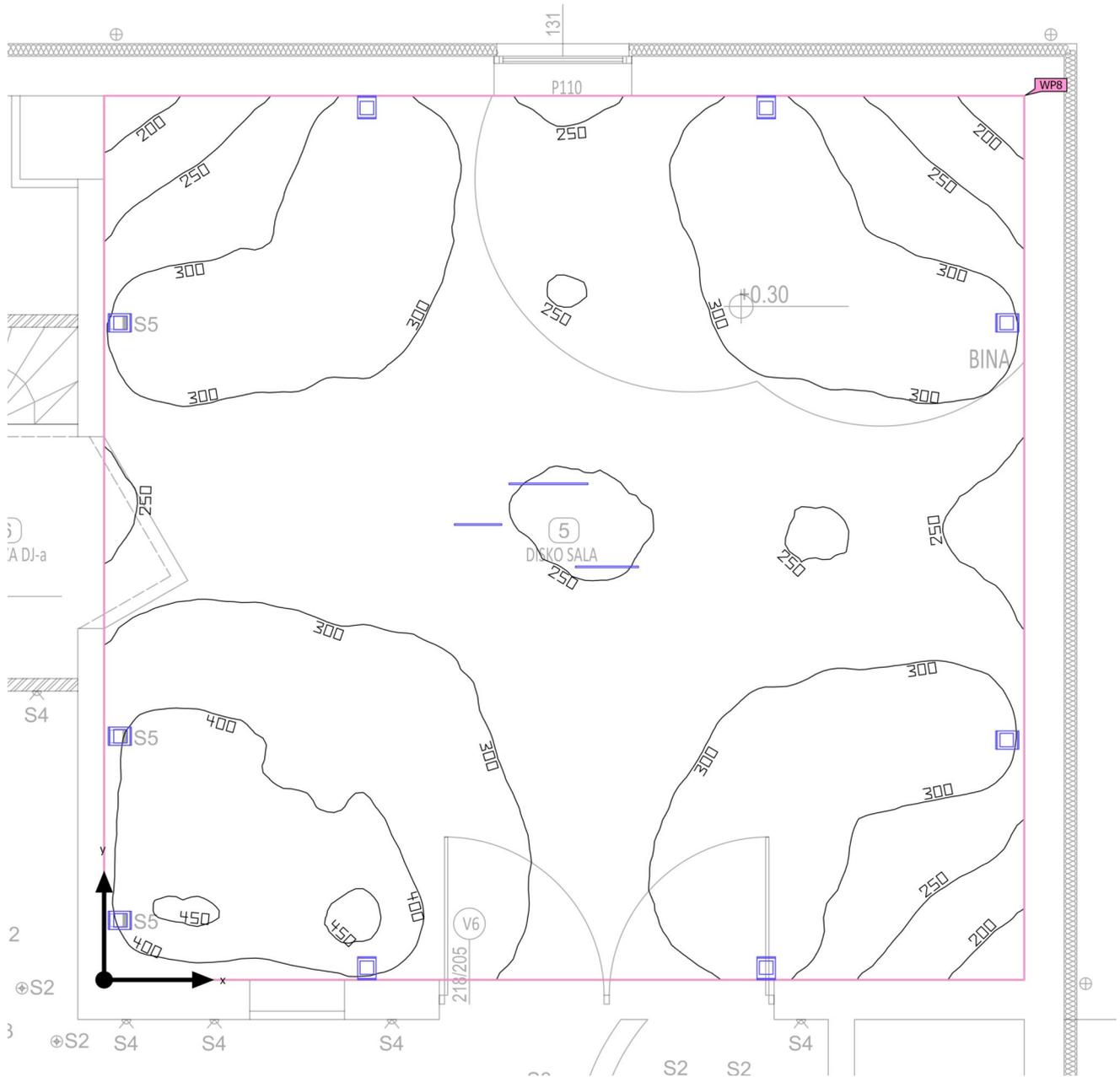
(2) Calculated using DIN:18599-4.

Luminaire list

| pcs. | Manufacturer | Article No. | Article name | P | Φ | Luminous efficacy |
|------|--------------|-----------------|--------------------------|--------|---------|-------------------|
| 1 | Relco Group | 24365/30/ DL | LED LIFE CROMO 30W 4000K | 22.0 W | 2115 lm | 96.1 lm/W |

Svečana sala (Light scene 1)

Summary



| | |
|--------------------|---|
| Ground area | 74.24 m ² |
| Reflection factors | Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 % |
| Maintenance factor | 0.80 (fixed) |

| | |
|------------------------------------|-------------------|
| Clearance height | 5.000 m |
| Mounting height | 3.200 m - 3.800 m |
| Height _{Working plane} | 0.800 m |
| Wall zone _{Working plane} | 0.000 m |

Svečana sala (Light scene 1)

Summary

Results

| | Symbol | Calculated | Index |
|----------------------------------|----------------------------------|-------------------------------|-------|
| Working plane | $\bar{E}_{\text{perpendicular}}$ | 301 lx | WP8 |
| | $U_o (g_1)$ | 0.54 | WP8 |
| Energy estimation ⁽²⁾ | Consumption | 1022 kWh/a | |
| Space | Lighting power density | 5.56 W/m ² | |
| | | 1.85 W/m ² /100 lx | |

(2) Calculated using DIN:18599-4.

Luminaire list

| pcs. | Manufacturer | Article No. | Article name | P | Φ | Luminous efficacy |
|------|------------------|---------------|-------------------------|--------|---------|-------------------|
| 1 | IDEAL LUX S.R.L. | 291345 | CIRCUS SP D44 | 29.0 W | 1310 lm | 45.2 lm/W |
| 1 | IDEAL LUX S.R.L. | 291376 | CIRCUS SP D60 | 33.0 W | 1720 lm | 52.1 lm/W |
| 1 | IDEAL LUX S.R.L. | 291406 | CIRCUS SP D74 | 36.0 W | 1950 lm | 54.2 lm/W |
| 9 | Relco Group | 28203+LE D+AS | LED PINGUINO ASY 35W 4K | 35.0 W | 3389 lm | 96.8 lm/W |