

Project 1

Project Description: Denmark's IF Fjorden Football Stadium
Project Code:20231206-003
Size of total area: 105m X 68m
Pole:6poles
Lamp:8pcs
Mounting Height:18m
Maintenance Factor:0.90
Eave (PA):128 Lux
Uo:0.50
GR<50

The calculation values are based on precise calculations performed on calibrated lamps and luminaires, and their configurations, where by gradual, unavoidable deviations can occur in practice. All guarantee claims are excluded for the specified data.
This exclusion of liability applies irrespective of the legal grounds for both damages and consequential damages suffered by users and third parties.

Partner for Contact:
Order No.:
Company:
Customer No.:

Date: 13.10.2025
Operator: HJL



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Table of contents

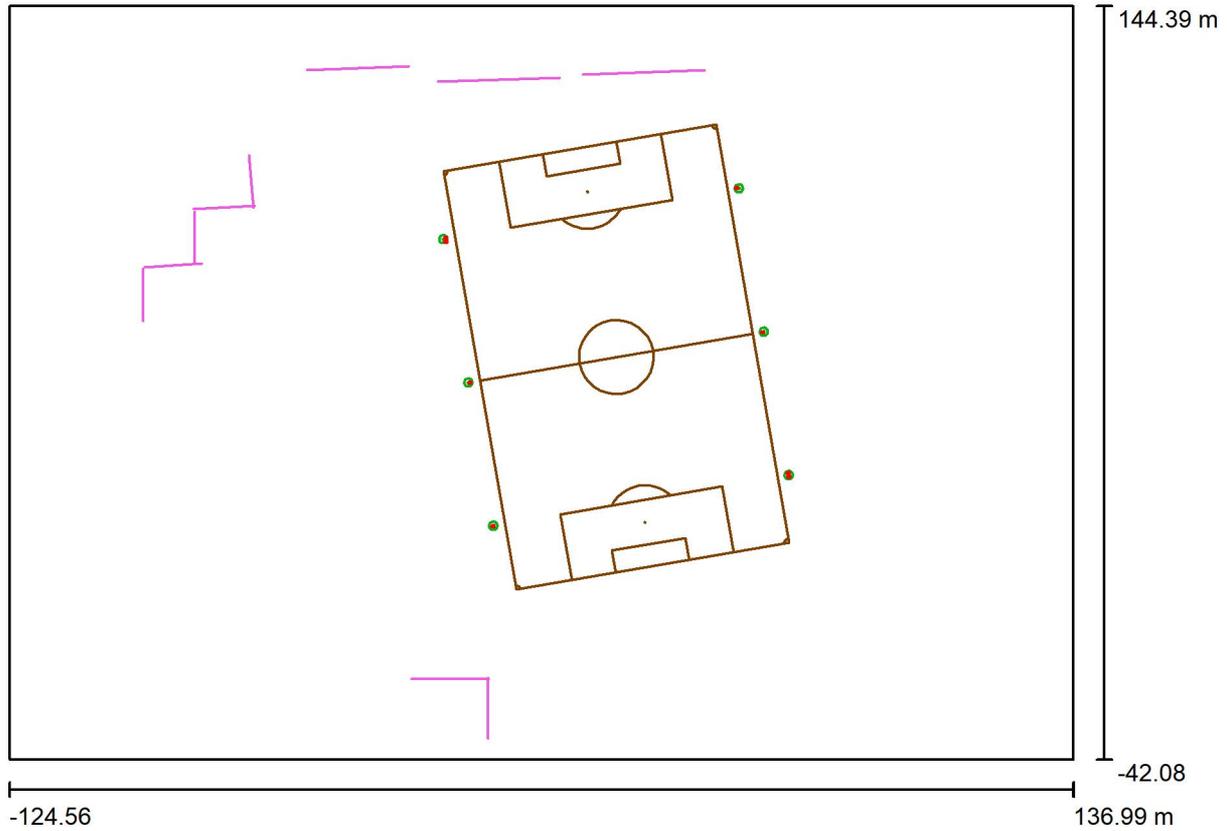
Project 1

| | |
|--|----|
| Project Cover | 1 |
| Table of contents | 2 |
| Exterior Scene 1 | |
| Planning data | 3 |
| Luminaire parts list | 4 |
| Luminaires (coordinates list) | 5 |
| Sport Luminaires (Coordinates List) | 7 |
| Luminous intensity calculation points (coordinates list) | 9 |
| Calculation surfaces (results overview) | 11 |
| GR Observer (Results Overview) | 13 |
| 3D Rendering | 15 |
| False Color Rendering | 16 |
| Exterior Surfaces | |
| Soccer Field 1 Calculation Grid (PA) | |
| Summary | 17 |
| Isolines (E, Perpendicular) | 18 |
| Value Chart (E, Perpendicular) | 19 |
| Luminous intensity calculation points | |
| Luminous intensity calculation point 1 | |
| Summary | 20 |
| Luminous intensity calculation point 2 | |
| Summary | 21 |
| Luminous intensity calculation point 3 | |
| Summary | 22 |
| Luminous intensity calculation point 4 | |
| Summary | 23 |
| Luminous intensity calculation point 5 | |
| Summary | 24 |
| Luminous intensity calculation point 6 | |
| Summary | 25 |
| Luminous intensity calculation point 7 | |
| Summary | 26 |
| Luminous intensity calculation point 8 | |
| Summary | 27 |
| Luminous intensity calculation point 9 | |
| Summary | 28 |



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Exterior Scene 1 / Planning data



Light loss factor: 0.90, ULR (Upward Light Ratio): 0.0%

Scale 1:1870

Luminaire Parts List

| No. | Pieces | Designation (Correction Factor) | Φ (Luminaire) [lm] | Φ (Lamps) [lm] | P [W] |
|--------|--------|------------------------------------|--------------------|----------------|--------|
| 1 | 6 | FL28-1K2-5070-F19813-L80-B (1.000) | 142566 | 142550 | 1200.7 |
| 2 | 2 | FL28-1K2-5070-F19814 (1.000) | 172812 | 172800 | 1208.7 |
| Total: | | | 1201020 | Total: 1200900 | 9621.3 |

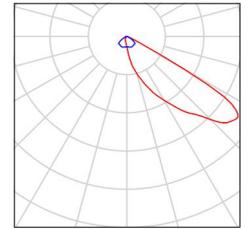


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Exterior Scene 1 / Luminaire parts list

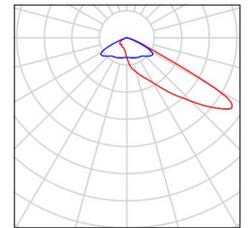
6 Pieces FL28-1K2-5070-F19813-L80-B
Article No.:
Luminous flux (Luminaire): 142566 lm
Luminous flux (Lamps): 142550 lm
Luminaire Wattage: 1200.7 W
Luminaire classification according to CIE: 100
CIE flux code: 42 93 100 100 100
Fitting: 1 x / (Correction Factor 1.000).

See our luminaire catalog for an image of the luminaire.



2 Pieces FL28-1K2-5070-F19814
Article No.:
Luminous flux (Luminaire): 172812 lm
Luminous flux (Lamps): 172800 lm
Luminaire Wattage: 1208.7 W
Luminaire classification according to CIE: 100
CIE flux code: 31 79 99 100 100
Fitting: 1 x / (Correction Factor 1.000).

See our luminaire catalog for an image of the luminaire.



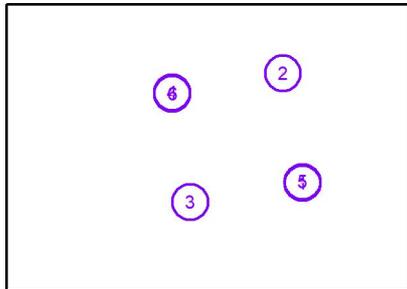


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Exterior Scene 1 / Luminaires (coordinates list)

FL28-1K2-5070-F19813-L80-B

142566 lm, 1200.7 W, 1 x 1 x / (Correction Factor 1.000).



| No. | Position [m] | | | Rotation [°] | | |
|-----|--------------|--------|--------|--------------|------|--------|
| | X | Y | Z | X | Y | Z |
| 1 | 66.954 | 27.874 | 18.000 | 0.0 | -8.9 | -164.4 |
| 2 | 54.211 | 99.339 | 18.000 | 0.0 | -3.1 | -172.2 |
| 3 | -5.652 | 15.688 | 18.000 | 0.0 | -8.9 | 1.7 |
| 4 | -17.372 | 87.034 | 18.000 | 0.0 | -7.0 | 8.4 |
| 5 | 66.882 | 28.806 | 18.000 | 0.0 | -8.6 | -176.0 |
| 6 | -17.246 | 86.096 | 18.000 | 0.0 | -7.8 | 8.1 |

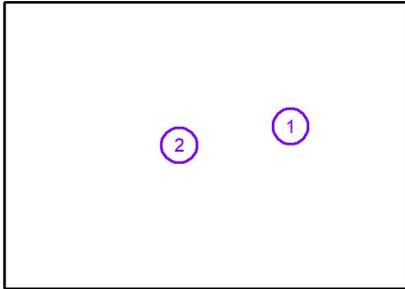


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Exterior Scene 1 / Luminaires (coordinates list)

FL28-1K2-5070-F19814

172812 lm, 1208.7 W, 1 x 1 x / (Correction Factor 1.000).

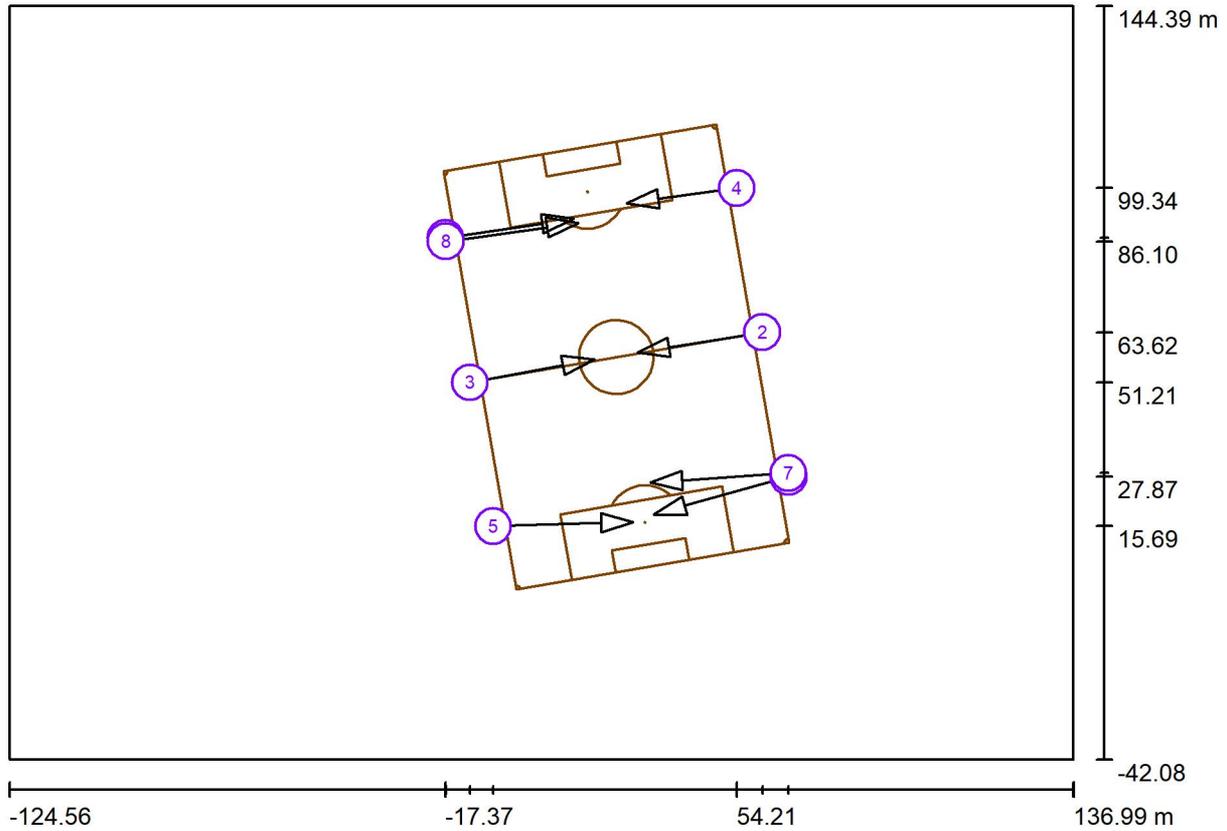


| No. | Position [m] | | | Rotation [°] | | |
|-----|--------------|--------|--------|--------------|------|--------|
| | X | Y | Z | X | Y | Z |
| 1 | 60.523 | 63.623 | 18.000 | 0.0 | -3.9 | -170.9 |
| 2 | -11.367 | 51.205 | 18.000 | 0.0 | -3.9 | 10.5 |



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Exterior Scene 1 / Sport Luminaires (Coordinates List)



Scale 1 : 1870

List of the Sport Luminaires

| Luminaire | Index | Position [m] | | | Aiming Point [m] | | | Angle [°] | Alignment | Pole |
|----------------------------|-------|--------------|--------|--------|------------------|--------|-------|-----------|---------------|-----------------|
| | | X | Y | Z | X | Y | Z | | | |
| FL28-1K2-5070-F19813-L80-B | 1 | 66.954 | 27.874 | 18.000 | 33.827 | 18.623 | 0.000 | 27.6 | (C 0, G IMax) | Pole Position 4 |
| FL28-1K2-5070-F19814 | 2 | 60.523 | 63.623 | 18.000 | 29.829 | 58.720 | 0.000 | 30.1 | (C 0, G IMax) | Pole Position 5 |
| FL28-1K2-5070-F19814 | 3 | -11.367 | 51.205 | 18.000 | 19.193 | 56.883 | 0.000 | 30.1 | (C 0, G IMax) | Pole Position 2 |
| FL28-1K2-5070-F19813-L80-B | 4 | 54.211 | 99.339 | 18.000 | 27.184 | 95.628 | 0.000 | 33.4 | (C 0, G IMax) | Pole Position 6 |



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Exterior Scene 1 / Sport Luminaires (Coordinates List)

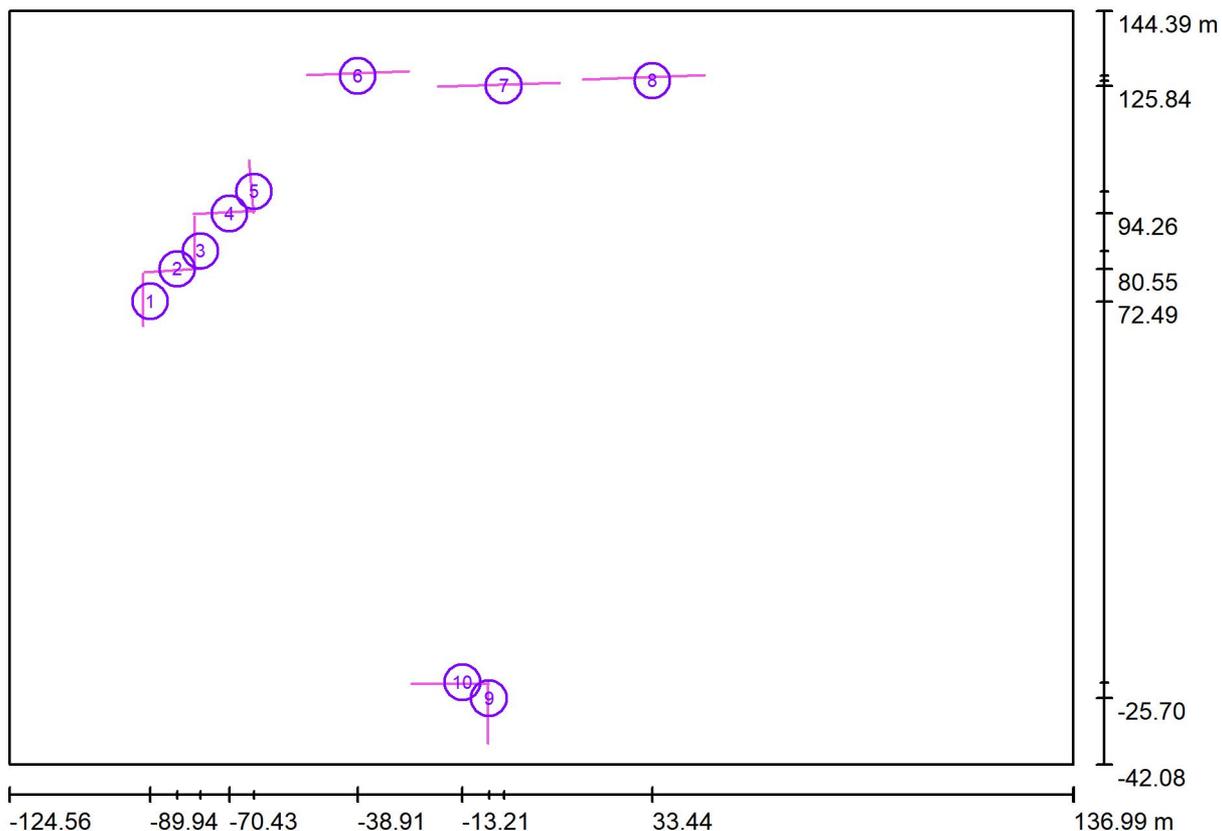
List of the Sport Luminaires

| Luminaire | Index | Position [m] | | | Aiming Point [m] | | | Angle [°] | Alignment | Pole |
|----------------------------|-------|--------------|--------|--------|------------------|--------|-------|-----------|---------------|-----------------|
| | | X | Y | Z | X | Y | Z | | | |
| FL28-1K2-5070-F19813-L80-B | 5 | -5.652 | 15.688 | 18.000 | 28.782 | 16.682 | 0.000 | 27.6 | (C 0, G IMax) | Pole Position 1 |
| FL28-1K2-5070-F19813-L80-B | 6 | -17.372 | 87.034 | 18.000 | 14.158 | 91.708 | 0.000 | 29.5 | (C 0, G IMax) | Pole Position 3 |
| FL28-1K2-5070-F19813-L80-B | 7 | 66.882 | 28.806 | 18.000 | 32.964 | 26.422 | 0.000 | 27.9 | (C 0, G IMax) | Pole Position 4 |
| FL28-1K2-5070-F19813-L80-B | 8 | -17.246 | 86.096 | 18.000 | 15.311 | 90.728 | 0.000 | 28.7 | (C 0, G IMax) | Pole Position 3 |



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Exterior Scene 1 / Luminous intensity calculation points (coordinates list)



Scale 1 : 1870

List of the luminous intensity calculation points

| No. | Designation | Position [m] | | |
|-----|--|--------------|--------|-------|
| | | X | Y | Z |
| 1 | Luminous intensity calculation point 1 | -89.942 | 72.491 | 1.700 |
| 2 | Luminous intensity calculation point 2 | -83.288 | 80.550 | 1.700 |
| 3 | Luminous intensity calculation point 3 | -77.591 | 85.001 | 1.700 |
| 4 | Luminous intensity calculation point 4 | -70.433 | 94.256 | 1.700 |



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Exterior Scene 1 / Luminous intensity calculation points (coordinates list)

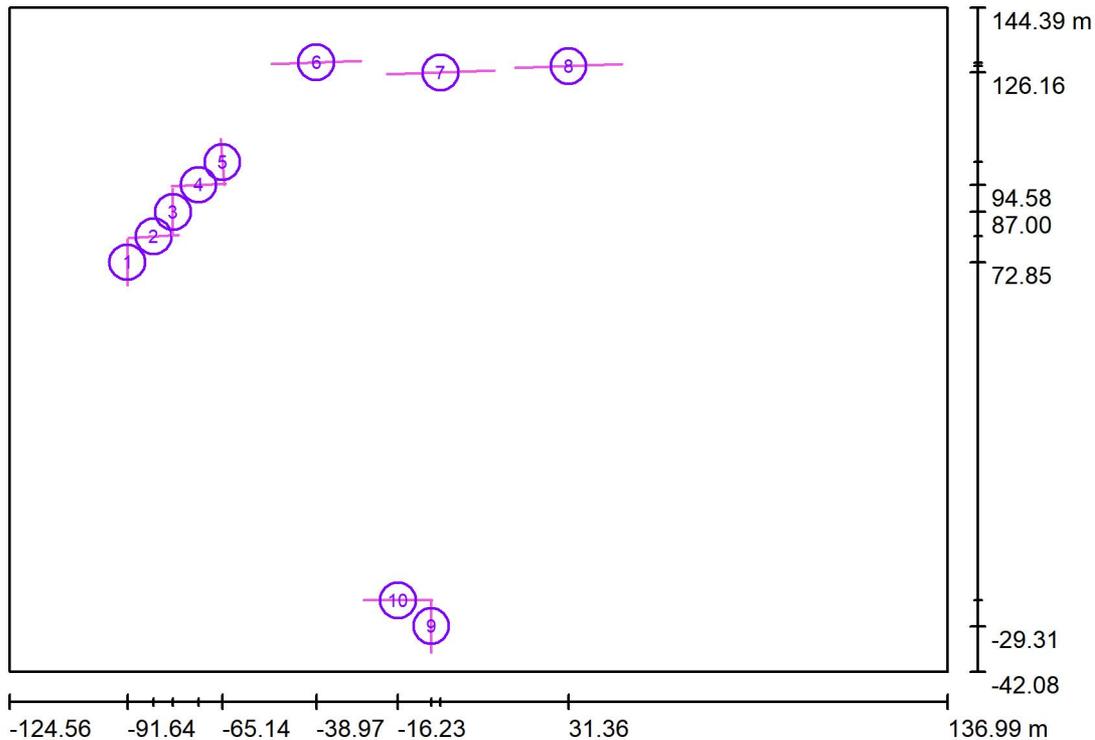
List of the luminous intensity calculation points

| No. | Designation | Position [m] | | |
|-----|---|--------------|---------|-------|
| | | X | Y | Z |
| 5 | Luminous intensity calculation point 5 | -64.447 | 99.704 | 1.700 |
| 6 | Luminous intensity calculation point 6 | -38.915 | 128.332 | 1.700 |
| 7 | Luminous intensity calculation point 7 | -2.990 | 125.837 | 1.700 |
| 8 | Luminous intensity calculation point 8 | 33.445 | 127.104 | 1.700 |
| 9 | Luminous intensity calculation point 9 | -6.649 | -25.700 | 1.700 |
| 10 | Luminous intensity calculation point 10 | -13.213 | -21.786 | 1.700 |



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Exterior Scene 1 / Calculation surfaces (results overview)



Scale 1 : 2122

Calculation Surface List

| No. | Designation | Type | Grid | E_{av} [lx] | E_{min} [lx] | E_{max} [lx] | $u0$ | $\frac{E_{min}}{E_{max}}$ |
|-----|-----------------------|---------------|--------|---------------|----------------|----------------|-------|---------------------------|
| 1 | Calculation Surface 1 | perpendicular | 1 x 2 | 0.43 | 0.43 | 0.44 | 0.994 | 0.989 |
| 2 | Calculation Surface 2 | perpendicular | 1 x 1 | 0.15 | 0.15 | 0.15 | 1.000 | 1.000 |
| 3 | Calculation Surface 3 | perpendicular | 1 x 2 | 0.56 | 0.54 | 0.57 | 0.970 | 0.942 |
| 4 | Calculation Surface 4 | perpendicular | 1 x 2 | 0.26 | 0.24 | 0.28 | 0.915 | 0.844 |
| 5 | Calculation Surface 5 | perpendicular | 2 x 1 | 0.65 | 0.62 | 0.68 | 0.955 | 0.914 |
| 6 | Calculation Surface 6 | perpendicular | 2 x 8 | 0.86 | 0.51 | 1.59 | 0.591 | 0.320 |
| 7 | Calculation Surface 7 | perpendicular | 4 x 32 | 6.20 | 4.67 | 9.74 | 0.752 | 0.479 |
| 8 | Calculation Surface 8 | perpendicular | 4 x 32 | 7.03 | 4.55 | 11 | 0.647 | 0.406 |
| 9 | Calculation Surface 9 | perpendicular | 1 x 4 | 0.87 | 0.72 | 1.05 | 0.827 | 0.683 |



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Exterior Scene 1 / Calculation surfaces (results overview)

Calculation Surface List

| No. | Designation | Type | Grid | E_{av} [lx] | E_{min} [lx] | E_{max} [lx] | u0 | E_{min} / E_{max} |
|-----|------------------------|---------------|-------|---------------|----------------|----------------|-------|---------------------|
| 10 | Calculation Surface 10 | perpendicular | 2 x 8 | 1.37 | 1.07 | 1.98 | 0.782 | 0.540 |

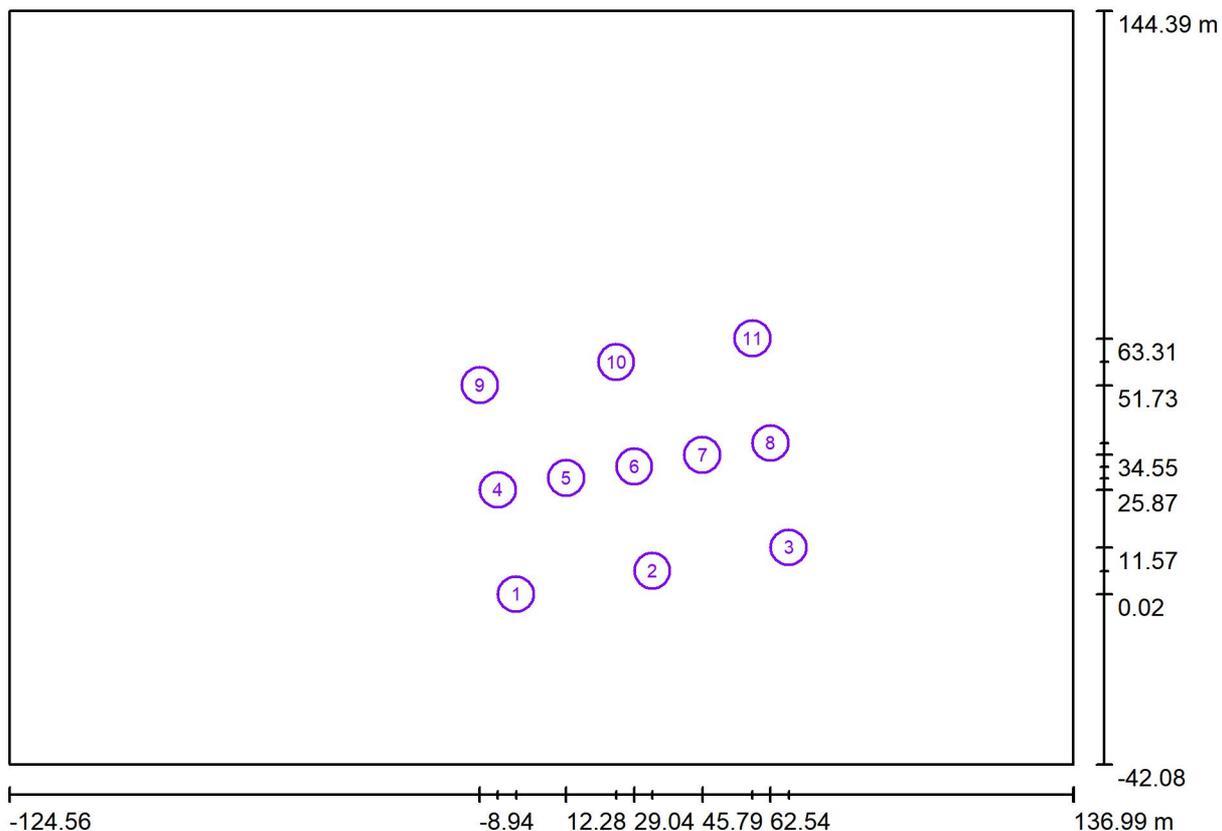
Summary of Results

| Type | Quantity | Average [lx] | Min [lx] | Max [lx] | u0 | E_{min} / E_{max} |
|---------------|----------|--------------|----------|----------|------|---------------------|
| perpendicular | 10 | 2.59 | 0.15 | 11 | 0.06 | 0.01 |



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Exterior Scene 1 / GR Observer (Results Overview)



Scale 1 : 1870

GR Observerlist

| No. | Designation | Position [m] | | | Viewing sector [°] | | | Slope angle | Max |
|-----|---------------|--------------|--------|-------|--------------------|-------|-----------|-------------|------------------|
| | | X | Y | Z | Start | End | Increment | | |
| 1 | GR Observer 1 | 0.000 | 0.021 | 1.500 | 0.0 | 360.0 | 15.0 | -2.0 | 36 ¹⁾ |
| 2 | GR Observer 2 | 33.504 | 5.787 | 1.500 | 0.0 | 360.0 | 15.0 | -2.0 | 40 ¹⁾ |
| 3 | GR Observer 3 | 67.008 | 11.574 | 1.500 | 0.0 | 360.0 | 15.0 | -2.0 | 35 ¹⁾ |
| 4 | GR Observer 4 | -4.468 | 25.867 | 1.500 | 0.0 | 360.0 | 15.0 | -2.0 | 37 ¹⁾ |



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Exterior Scene 1 / GR Observer (Results Overview)

GR Observerlist

| No. | Designation | Position [m] | | | Viewing sector [°] | | | | Max |
|-----|----------------|--------------|--------|-------|--------------------|-------|-----------|-------------|------------------|
| | | X | Y | Z | Start | End | Increment | Slope angle | |
| 5 | GR Observer 5 | 12.284 | 28.761 | 1.500 | 0.0 | 360.0 | 15.0 | -2.0 | 39 ¹⁾ |
| 6 | GR Observer 6 | 29.036 | 31.654 | 1.500 | 0.0 | 360.0 | 15.0 | -2.0 | 42 ¹⁾ |
| 7 | GR Observer 7 | 45.788 | 34.548 | 1.500 | 0.0 | 360.0 | 15.0 | -2.0 | 41 ¹⁾ |
| 8 | GR Observer 8 | 62.540 | 37.441 | 1.500 | 0.0 | 360.0 | 15.0 | -2.0 | 33 ¹⁾ |
| 9 | GR Observer 9 | -8.936 | 51.734 | 1.500 | 0.0 | 360.0 | 15.0 | -2.0 | 16 ¹⁾ |
| 10 | GR Observer 10 | 24.568 | 57.521 | 1.500 | 0.0 | 360.0 | 15.0 | -2.0 | 36 ¹⁾ |
| 11 | GR Observer 11 | 58.072 | 63.308 | 1.500 | 0.0 | 360.0 | 15.0 | -2.0 | 17 ¹⁾ |

1) The equivalent veil luminance of the environment has been calculated precisely.



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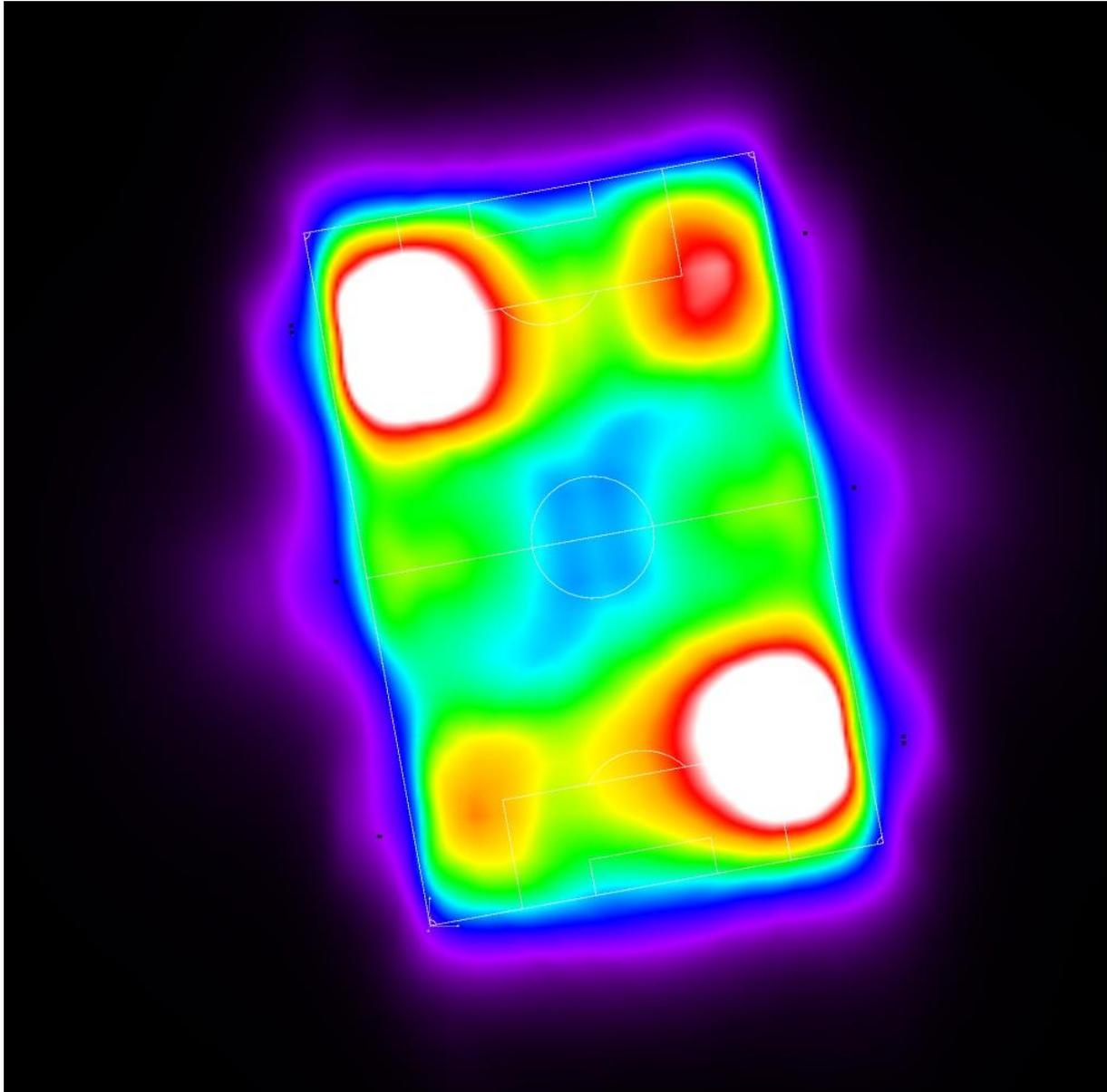
Exterior Scene 1 / 3D Rendering





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Exterior Scene 1 / False Color Rendering

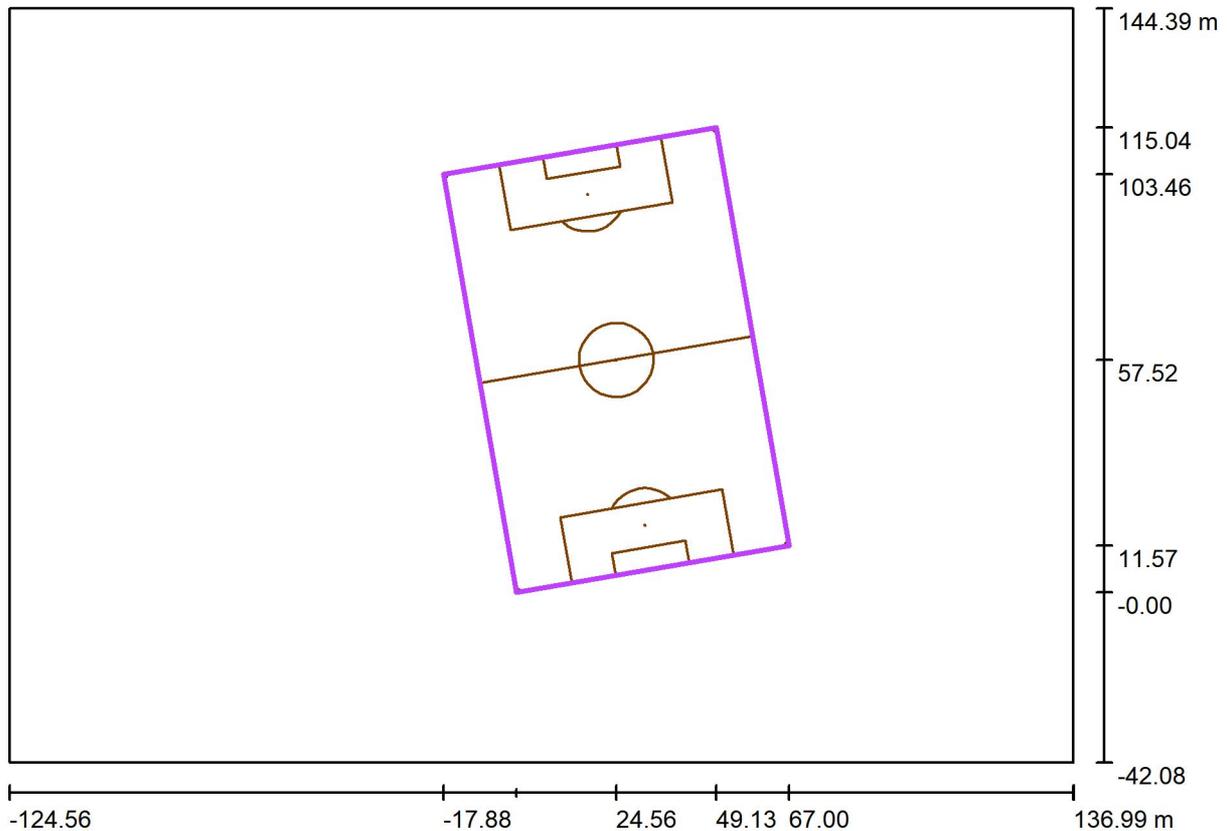


0 25 50 75 100 125 150 175 200 lx



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Exterior Scene 1 / Soccer Field 1 Calculation Grid (PA) / Summary



Scale 1 : 1870

Position: (24.560 m, 57.517 m, 0.000 m)
 Size: (105.000 m, 68.000 m)
 Rotation: (0.0°, 0.0°, 99.8°)
 Type: Normal, Grid: 21 x 13 Points
 Belongs to the following sport arena: Soccer Field 1

Results overview

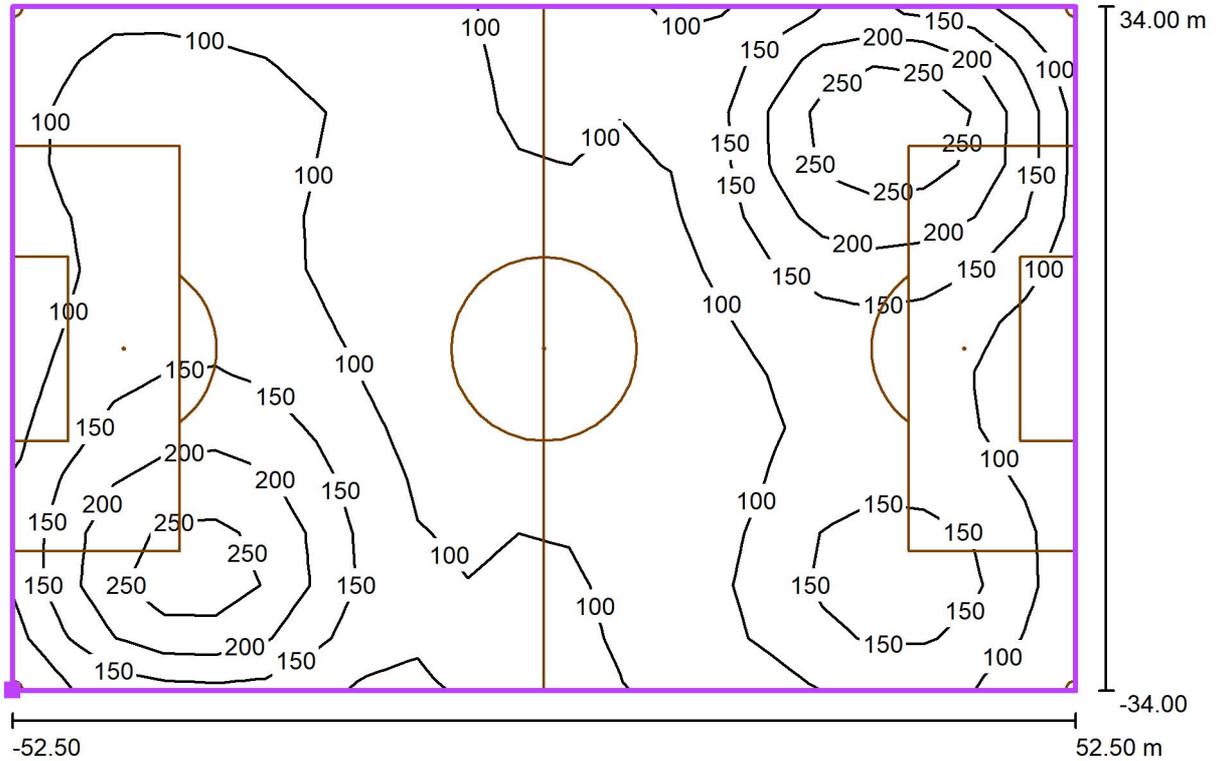
| No. | Type | E_{av} [lx] | E_{min} [lx] | E_{max} [lx] | $u0$ | E_{min} / E_{max} | $E_{h,m} / E_m$ | H [m] | Camera |
|-----|---------------|---------------|----------------|----------------|------|---------------------|-----------------|-------|--------|
| 1 | perpendicular | 128 | 64 | 306 | 0.50 | 0.21 | / | 0.000 | / |

$E_{h,m} / E_m$ = Relationship between middle horizontal and vertical illuminance, H = Measuring Height



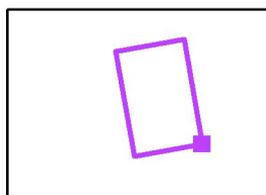
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Exterior Scene 1 / Soccer Field 1 Calculation Grid (PA) / Isolines (E, Perpendicular)



Values in Lux, Scale 1 : 751

Position of surface in external scene:
Marked point: (67.000 m, 11.570 m, 0.000 m)



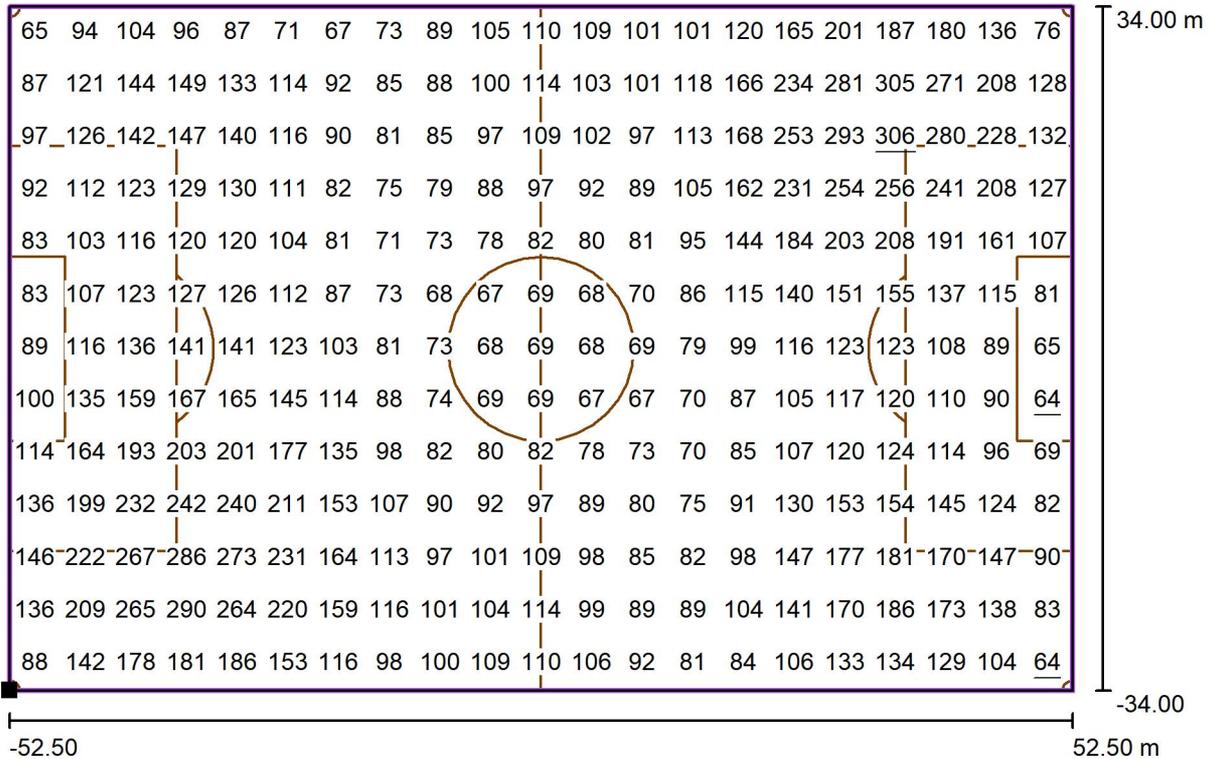
Grid: 21 x 13 Points

| E_{av} [lx] | E_{min} [lx] | E_{max} [lx] | u0 | E_{min} / E_{max} |
|---------------|----------------|----------------|------|---------------------|
| 128 | 64 | 306 | 0.50 | 0.21 |



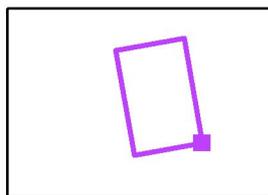
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Exterior Scene 1 / Soccer Field 1 Calculation Grid (PA) / Value Chart (E, Perpendicular)



Values in Lux, Scale 1 : 751

Position of surface in external scene:
 Marked point: (67.000 m, 11.570 m, 0.000 m)



Grid: 21 x 13 Points

E_{av} [lx]
128

E_{min} [lx]
64

E_{max} [lx]
306

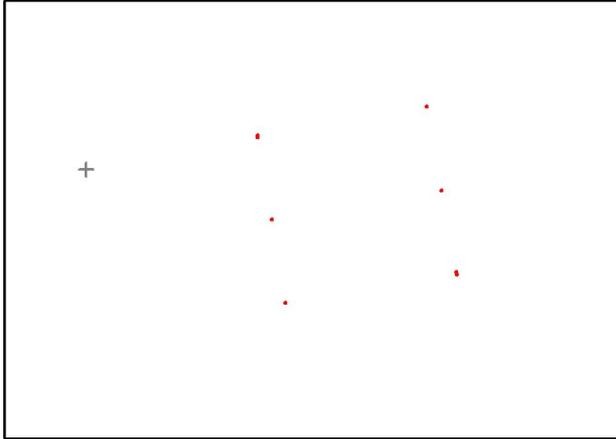
u0
0.50

E_{min} / E_{max}
0.21



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Exterior Scene 1 / Luminous intensity calculation point 1 / Summary



Position: (-89.942 m, 72.491 m, 1.700 m)

Possible interference sources

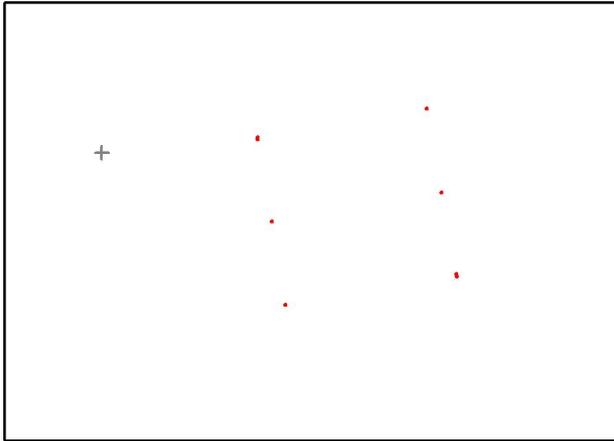
| No. | Luminaire | Position [m] | | | Luminous emittance | Luminous intensity [cd] |
|-----|----------------------------|--------------|--------|--------|----------------------|-------------------------|
| | | X | Y | Z | | |
| 1 | FL28-1K2-5070-F19813-L80-B | -5.652 | 15.688 | 18.000 | Luminous emittance 1 | 11 |
| 2 | FL28-1K2-5070-F19813-L80-B | 66.954 | 27.874 | 18.000 | Luminous emittance 1 | 1001 |
| 3 | FL28-1K2-5070-F19813-L80-B | 66.882 | 28.806 | 18.000 | Luminous emittance 1 | 1519 |
| 4 | FL28-1K2-5070-F19814 | 60.523 | 63.623 | 18.000 | Luminous emittance 1 | 2663 |
| 5 | FL28-1K2-5070-F19814 | -11.367 | 51.205 | 18.000 | Luminous emittance 1 | 652 |
| 6 | FL28-1K2-5070-F19813-L80-B | -17.246 | 86.096 | 18.000 | Luminous emittance 1 | 9 |
| 7 | FL28-1K2-5070-F19813-L80-B | 54.211 | 99.339 | 18.000 | Luminous emittance 1 | 637 |
| 8 | FL28-1K2-5070-F19813-L80-B | -17.372 | 87.034 | 18.000 | Luminous emittance 1 | 9 |

All luminaires placed in the exterior scene are listed.



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Exterior Scene 1 / Luminous intensity calculation point 2 / Summary



Position: (-83.288 m, 80.550 m, 1.700 m)

Possible interference sources

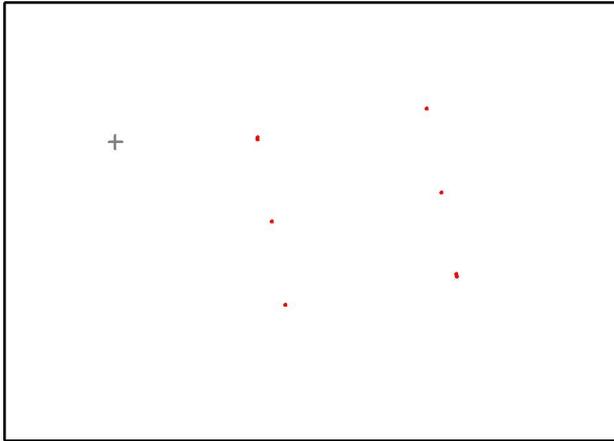
| No. | Luminaire | Position [m] | | | Luminous emittance | Luminous intensity [cd] |
|-----|----------------------------|--------------|--------|--------|----------------------|-------------------------|
| | | X | Y | Z | | |
| 1 | FL28-1K2-5070-F19813-L80-B | -5.652 | 15.688 | 18.000 | Luminous emittance 1 | 11 |
| 2 | FL28-1K2-5070-F19813-L80-B | 66.954 | 27.874 | 18.000 | Luminous emittance 1 | 953 |
| 3 | FL28-1K2-5070-F19813-L80-B | 66.882 | 28.806 | 18.000 | Luminous emittance 1 | 1368 |
| 4 | FL28-1K2-5070-F19814 | 60.523 | 63.623 | 18.000 | Luminous emittance 1 | 2752 |
| 5 | FL28-1K2-5070-F19814 | -11.367 | 51.205 | 18.000 | Luminous emittance 1 | 810 |
| 6 | FL28-1K2-5070-F19813-L80-B | -17.246 | 86.096 | 18.000 | Luminous emittance 1 | 10 |
| 7 | FL28-1K2-5070-F19813-L80-B | 54.211 | 99.339 | 18.000 | Luminous emittance 1 | 724 |
| 8 | FL28-1K2-5070-F19813-L80-B | -17.372 | 87.034 | 18.000 | Luminous emittance 1 | 10 |

All luminaires placed in the exterior scene are listed.



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Exterior Scene 1 / Luminous intensity calculation point 3 / Summary



Position: (-77.591 m, 85.001 m, 1.700 m)

Possible interference sources

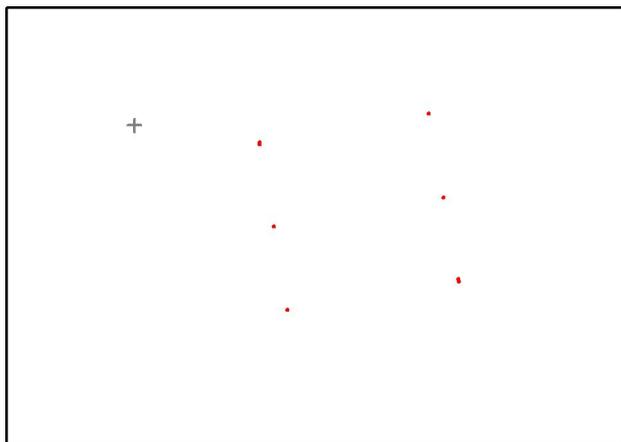
| No. | Luminaire | Position [m] | | | Luminous emittance | Luminous intensity [cd] |
|-----|----------------------------|--------------|--------|--------|----------------------|-------------------------|
| | | X | Y | Z | | |
| 1 | FL28-1K2-5070-F19813-L80-B | -5.652 | 15.688 | 18.000 | Luminous emittance 1 | 12 |
| 2 | FL28-1K2-5070-F19813-L80-B | 66.954 | 27.874 | 18.000 | Luminous emittance 1 | 930 |
| 3 | FL28-1K2-5070-F19813-L80-B | 66.882 | 28.806 | 18.000 | Luminous emittance 1 | 1281 |
| 4 | FL28-1K2-5070-F19814 | 60.523 | 63.623 | 18.000 | Luminous emittance 1 | 2870 |
| 5 | FL28-1K2-5070-F19814 | -11.367 | 51.205 | 18.000 | Luminous emittance 1 | 944 |
| 6 | FL28-1K2-5070-F19813-L80-B | -17.246 | 86.096 | 18.000 | Luminous emittance 1 | 11 |
| 7 | FL28-1K2-5070-F19813-L80-B | 54.211 | 99.339 | 18.000 | Luminous emittance 1 | 753 |
| 8 | FL28-1K2-5070-F19813-L80-B | -17.372 | 87.034 | 18.000 | Luminous emittance 1 | 12 |

All luminaires placed in the exterior scene are listed.



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Exterior Scene 1 / Luminous intensity calculation point 4 / Summary



Position: (-70.433 m, 94.256 m, 1.700 m)

Possible interference sources

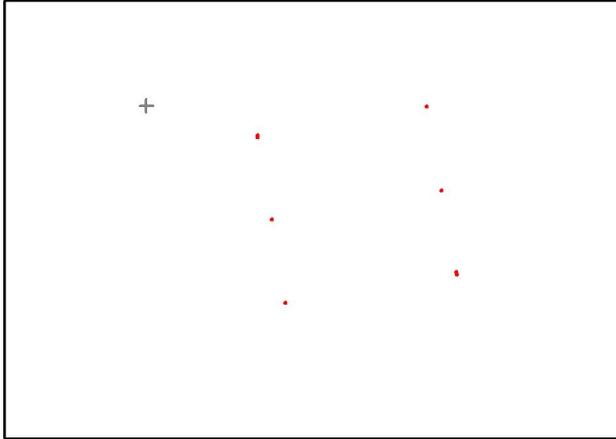
| No. | Luminaire | Position [m] | | | Luminous emittance | Luminous intensity [cd] |
|-----|----------------------------|--------------|--------|--------|----------------------|-------------------------|
| | | X | Y | Z | | |
| 1 | FL28-1K2-5070-F19813-L80-B | -5.652 | 15.688 | 18.000 | Luminous emittance 1 | 13 |
| 2 | FL28-1K2-5070-F19813-L80-B | 66.954 | 27.874 | 18.000 | Luminous emittance 1 | 896 |
| 3 | FL28-1K2-5070-F19813-L80-B | 66.882 | 28.806 | 18.000 | Luminous emittance 1 | 1079 |
| 4 | FL28-1K2-5070-F19814 | 60.523 | 63.623 | 18.000 | Luminous emittance 1 | 2888 |
| 5 | FL28-1K2-5070-F19814 | -11.367 | 51.205 | 18.000 | Luminous emittance 1 | 1022 |
| 6 | FL28-1K2-5070-F19813-L80-B | -17.246 | 86.096 | 18.000 | Luminous emittance 1 | 15 |
| 7 | FL28-1K2-5070-F19813-L80-B | 54.211 | 99.339 | 18.000 | Luminous emittance 1 | 757 |
| 8 | FL28-1K2-5070-F19813-L80-B | -17.372 | 87.034 | 18.000 | Luminous emittance 1 | 16 |

All luminaires placed in the exterior scene are listed.



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Exterior Scene 1 / Luminous intensity calculation point 5 / Summary



Position: (-64.447 m, 99.704 m, 1.700 m)

Possible interference sources

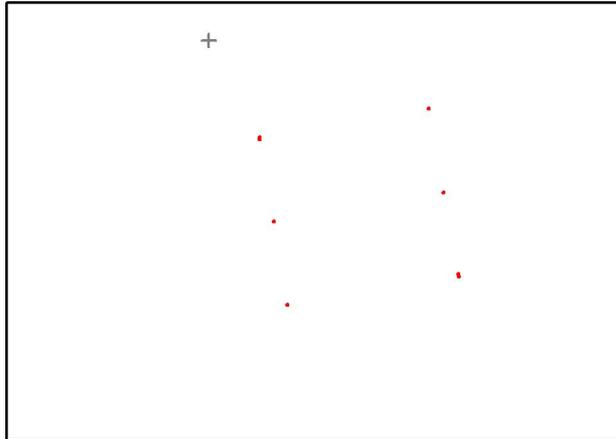
| No. | Luminaire | Position [m] | | | Luminous emittance | Luminous intensity [cd] |
|-----|----------------------------|--------------|--------|--------|----------------------|-------------------------|
| | | X | Y | Z | | |
| 1 | FL28-1K2-5070-F19813-L80-B | -5.652 | 15.688 | 18.000 | Luminous emittance 1 | 14 |
| 2 | FL28-1K2-5070-F19813-L80-B | 66.954 | 27.874 | 18.000 | Luminous emittance 1 | 884 |
| 3 | FL28-1K2-5070-F19813-L80-B | 66.882 | 28.806 | 18.000 | Luminous emittance 1 | 1028 |
| 4 | FL28-1K2-5070-F19814 | 60.523 | 63.623 | 18.000 | Luminous emittance 1 | 2886 |
| 5 | FL28-1K2-5070-F19814 | -11.367 | 51.205 | 18.000 | Luminous emittance 1 | 1081 |
| 6 | FL28-1K2-5070-F19813-L80-B | -17.246 | 86.096 | 18.000 | Luminous emittance 1 | 21 |
| 7 | FL28-1K2-5070-F19813-L80-B | 54.211 | 99.339 | 18.000 | Luminous emittance 1 | 777 |
| 8 | FL28-1K2-5070-F19813-L80-B | -17.372 | 87.034 | 18.000 | Luminous emittance 1 | 22 |

All luminaires placed in the exterior scene are listed.



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Exterior Scene 1 / Luminous intensity calculation point 6 / Summary



Position: (-38.915 m, 128.332 m, 1.700 m)

Possible interference sources

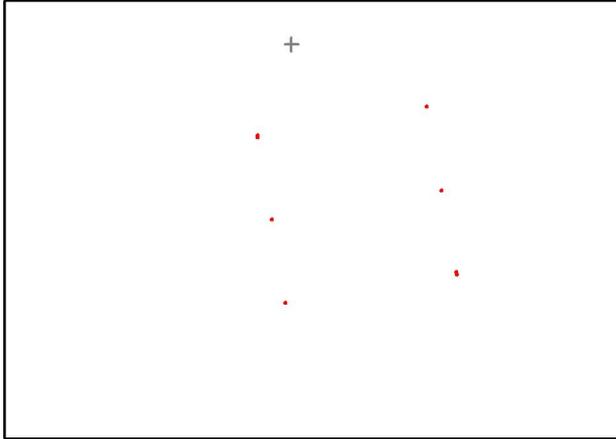
| No. | Luminaire | Position [m] | | | Luminous emittance | Luminous intensity [cd] |
|-----|----------------------------|--------------|--------|--------|----------------------|-------------------------|
| | | X | Y | Z | | |
| 1 | FL28-1K2-5070-F19813-L80-B | -5.652 | 15.688 | 18.000 | Luminous emittance 1 | 28 |
| 2 | FL28-1K2-5070-F19813-L80-B | 66.954 | 27.874 | 18.000 | Luminous emittance 1 | 840 |
| 3 | FL28-1K2-5070-F19813-L80-B | 66.882 | 28.806 | 18.000 | Luminous emittance 1 | 857 |
| 4 | FL28-1K2-5070-F19814 | 60.523 | 63.623 | 18.000 | Luminous emittance 1 | 1802 |
| 5 | FL28-1K2-5070-F19814 | -11.367 | 51.205 | 18.000 | Luminous emittance 1 | 1043 |
| 6 | FL28-1K2-5070-F19813-L80-B | -17.246 | 86.096 | 18.000 | Luminous emittance 1 | 160 |
| 7 | FL28-1K2-5070-F19813-L80-B | 54.211 | 99.339 | 18.000 | Luminous emittance 1 | 974 |
| 8 | FL28-1K2-5070-F19813-L80-B | -17.372 | 87.034 | 18.000 | Luminous emittance 1 | 184 |

All luminaires placed in the exterior scene are listed.



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Exterior Scene 1 / Luminous intensity calculation point 7 / Summary



Position: (-2.990 m, 125.837 m, 1.700 m)

Possible interference sources

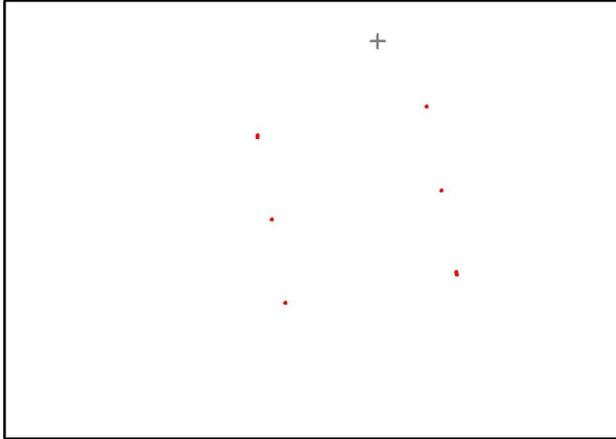
| No. | Luminaire | Position [m] | | | Luminous emittance | Luminous intensity [cd] |
|-----|----------------------------|--------------|--------|--------|----------------------|-------------------------|
| | | X | Y | Z | | |
| 1 | FL28-1K2-5070-F19813-L80-B | -5.652 | 15.688 | 18.000 | Luminous emittance 1 | 346 |
| 2 | FL28-1K2-5070-F19813-L80-B | 66.954 | 27.874 | 18.000 | Luminous emittance 1 | 861 |
| 3 | FL28-1K2-5070-F19813-L80-B | 66.882 | 28.806 | 18.000 | Luminous emittance 1 | 980 |
| 4 | FL28-1K2-5070-F19814 | 60.523 | 63.623 | 18.000 | Luminous emittance 1 | 1984 |
| 5 | FL28-1K2-5070-F19814 | -11.367 | 51.205 | 18.000 | Luminous emittance 1 | 1874 |
| 6 | FL28-1K2-5070-F19813-L80-B | -17.246 | 86.096 | 18.000 | Luminous emittance 1 | 3702 |
| 7 | FL28-1K2-5070-F19813-L80-B | 54.211 | 99.339 | 18.000 | Luminous emittance 1 | 2153 |
| 8 | FL28-1K2-5070-F19813-L80-B | -17.372 | 87.034 | 18.000 | Luminous emittance 1 | 3805 |

All luminaires placed in the exterior scene are listed.



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Exterior Scene 1 / Luminous intensity calculation point 8 / Summary



Position: (33.445 m, 127.104 m, 1.700 m)

Possible interference sources

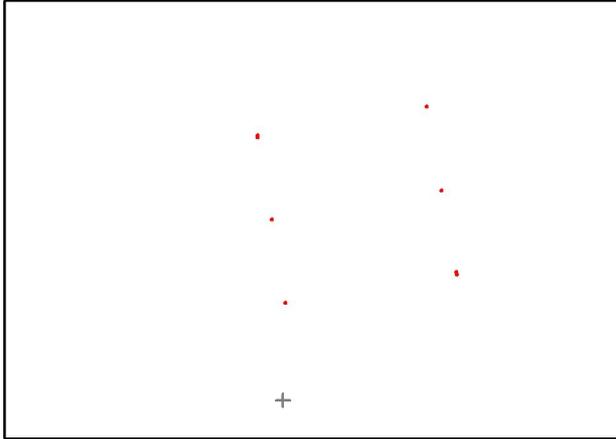
| No. | Luminaire | Position [m] | | | Luminous emittance | Luminous intensity [cd] |
|-----|----------------------------|--------------|--------|--------|----------------------|-------------------------|
| | | X | Y | Z | | |
| 1 | FL28-1K2-5070-F19813-L80-B | -5.652 | 15.688 | 18.000 | Luminous emittance 1 | 911 |
| 2 | FL28-1K2-5070-F19813-L80-B | 66.954 | 27.874 | 18.000 | Luminous emittance 1 | 374 |
| 3 | FL28-1K2-5070-F19813-L80-B | 66.882 | 28.806 | 18.000 | Luminous emittance 1 | 831 |
| 4 | FL28-1K2-5070-F19814 | 60.523 | 63.623 | 18.000 | Luminous emittance 1 | 2446 |
| 5 | FL28-1K2-5070-F19814 | -11.367 | 51.205 | 18.000 | Luminous emittance 1 | 2584 |
| 6 | FL28-1K2-5070-F19813-L80-B | -17.246 | 86.096 | 18.000 | Luminous emittance 1 | 6992 |
| 7 | FL28-1K2-5070-F19813-L80-B | 54.211 | 99.339 | 18.000 | Luminous emittance 1 | 5127 |
| 8 | FL28-1K2-5070-F19813-L80-B | -17.372 | 87.034 | 18.000 | Luminous emittance 1 | 6360 |

All luminaires placed in the exterior scene are listed.



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Exterior Scene 1 / Luminous intensity calculation point 9 / Summary



Position: (-6.649 m, -25.700 m, 1.700 m)

Possible interference sources

| No. | Luminaire | Position [m] | | | Luminous emittance | Luminous intensity [cd] |
|-----|----------------------------|--------------|--------|--------|----------------------|-------------------------|
| | | X | Y | Z | | |
| 1 | FL28-1K2-5070-F19813-L80-B | -5.652 | 15.688 | 18.000 | Luminous emittance 1 | 1161 |
| 2 | FL28-1K2-5070-F19813-L80-B | 66.954 | 27.874 | 18.000 | Luminous emittance 1 | 4569 |
| 3 | FL28-1K2-5070-F19813-L80-B | 66.882 | 28.806 | 18.000 | Luminous emittance 1 | 2206 |
| 4 | FL28-1K2-5070-F19814 | 60.523 | 63.623 | 18.000 | Luminous emittance 1 | 1875 |
| 5 | FL28-1K2-5070-F19814 | -11.367 | 51.205 | 18.000 | Luminous emittance 1 | 1262 |
| 6 | FL28-1K2-5070-F19813-L80-B | -17.246 | 86.096 | 18.000 | Luminous emittance 1 | 188 |
| 7 | FL28-1K2-5070-F19813-L80-B | 54.211 | 99.339 | 18.000 | Luminous emittance 1 | 576 |
| 8 | FL28-1K2-5070-F19813-L80-B | -17.372 | 87.034 | 18.000 | Luminous emittance 1 | 183 |

All luminaires placed in the exterior scene are listed.