# Installation : Reliance Street EV Charging Bays

Project number : STP08261
Customer :
Processed by : Tom Mills
Date : 20.05.2024

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The following values are based on precise calculations performed on calibrated lamps and luminaires, and their configurations, whereby gradual, unavoidable deviations can occur in practice. All guarantee claims are excluded for the specified data.

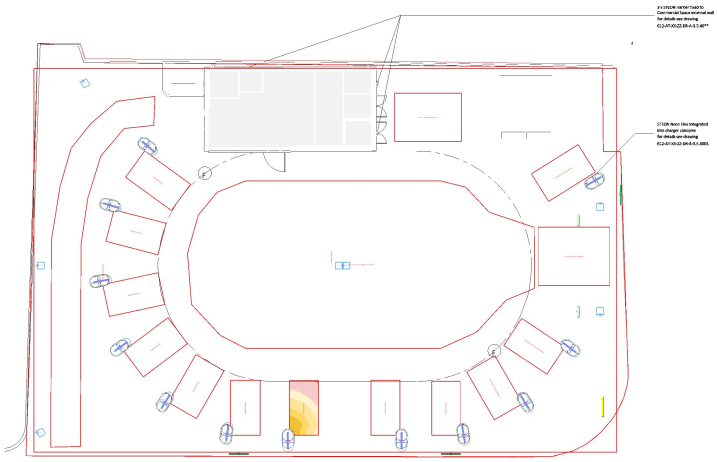
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Object :
Installation : Reliance Street EV Charging Bays
Project number : STP08261
Date : 20.05.2024

# 1 Exterior Lighting (IP65 Extrusion) Proposed

## 1.1 Summary, Exterior Lighting (IP65 Extrusion) Proposed

### 1.1.1 Result overview, Charging Space



2 7 12 17 22 27 32 37 42 47 x [m]

0 0.1 0.15 0.2 0.3 0.5 0.75 1 1.5 2 3 5 7.5 10 15 20 30 50 75 100 150 200 300 500 750 1000 1500 2000 3000 5000 7500

Illuminance [lx]

**General**

| | |
|---|---|
| Calculation algorithm used | Average indirect fraction |
| Height of evaluation surface | 0.00 m |
| Maintenance factor | 0.80 |
| Total luminous flux | 224788 lm |
| Total power | 965.2 W |
| Total power per area (1357.10 m²) | 0.71 W/m² |

**Illuminance**

| | | |
|---|---|---|
| Average illuminance | $\bar{E}_m$ | 121 lx |
| Minimum illuminance | $E_{min}$ | 52 lx |
| Maximum illuminance | $E_{max}$ | 301 lx |
| Uniformity $U_o$ | $E_{min}/\bar{E}_m$ | 1:2.35 (0.42) |
| Diversity $U_d$ | $E_{min}/E_{max}$ | 1:5.84 (0.17) |

**Type No.\Make**

5 2 x **Steon Ltd.**
Order No. : 65-274-470-402 / 65-274-470-403
Luminaire name : Harrier Midi 70W - 4000K
Equipment : 1 x 70W 73.6 W / 8972 lm

35 12 x Order No. : !35-482-441-409
Luminaire name : Niko 23W LED - 4000K - Cloud Lens (1132mm)
Equipment : 2 x 23W / 5500 lm

Object :
Installation : Reliance Street EV Charging Bays
Project number : STP08261
Date : 20.05.2024

# 1 Exterior Lighting (IP65 Extrusion) Proposed

## 1.1 Summary, Exterior Lighting (IP65 Extrusion) Proposed

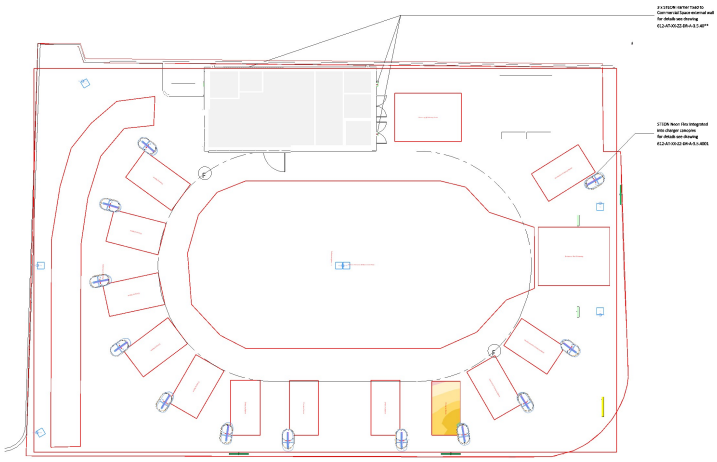
### 1.1.1 Result overview, Charging Space

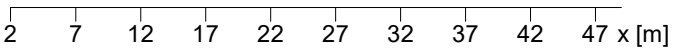
| | | | |
|---|---|---|---|
| | | **Steon** | |
| 31 | 7 x | Order No. | : |
| | | Luminaire name | : Metro LED 75W 4000K Asymmetrical |
| | | Equipment | : 1 x LED 74 W / 10692 lm |

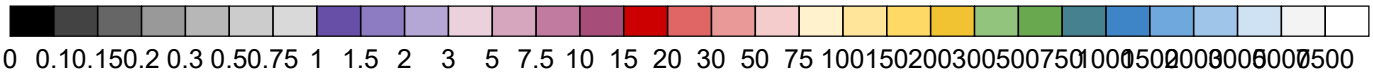
Object :
Installation : Reliance Street EV Charging Bays
Project number : STP08261
Date : 20.05.2024

## 1.1 Summary, Exterior Lighting (IP65 Extrusion) Proposed

### 1.1.2 Result overview, Charging Space






Illuminance [lx]

**General**

| | |
|---|---|
| Calculation algorithm used | Average indirect fraction |
| Height of evaluation surface | 0.00 m |
| Maintenance factor | 0.80 |
| Total luminous flux | 224788 lm |
| Total power | 965.2 W |
| Total power per area (1357.10 m²) | 0.71 W/m² |

**Illuminance**

| | | |
|---|---|---|
| Average illuminance | $\bar{E}_m$ | 161 lx |
| Minimum illuminance | $E_{min}$ | 75 lx |
| Maximum illuminance | $E_{max}$ | 303 lx |
| Uniformity $U_o$ | $E_{min}/\bar{E}_m$ | 1:2.16 (0.46) |
| Diversity $U_d$ | $E_{min}/E_{max}$ | 1:4.06 (0.25) |

**Type No.\Make**

| | | | |
|---|---|---|---|
| | | **Steon Ltd.** | |
| 5 | 2 x | Order No. | : 65-274-470-402 / 65-274-470-403 |
| | | Luminaire name | : Harrier Midi 70W - 4000K |
| | | Equipment | : 1 x 70W 73.6 W / 8972 lm |
| 35 | 12 x | Order No. | : !35-482-441-409 |
| | | Luminaire name | : Niko 23W LED - 4000K - Cloud Lens (1132mm) |
| | | Equipment | : 2 x 23W / 5500 lm |

Object :
Installation : Reliance Street EV Charging Bays
Project number : STP08261
Date : 20.05.2024

## 1.1 Summary, Exterior Lighting (IP65 Extrusion) Proposed

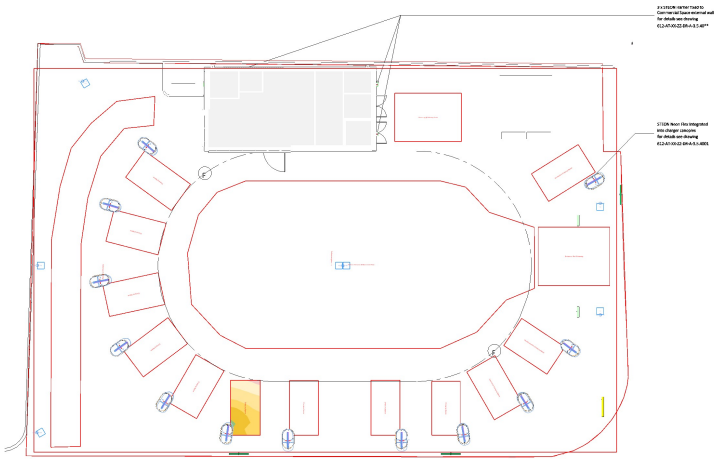
### 1.1.2 Result overview, Charging Space

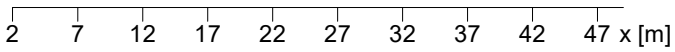
| | | | |
|---|---|---|---|
| | | **Steon** | |
| 31 | 7 x | Order No. | : |
| | | Luminaire name | : Metro LED 75W 4000K Asymmetrical |
| | | Equipment | : 1 x LED 74 W / 10692 lm |

Object :
Installation : Reliance Street EV Charging Bays
Project number : STP08261
Date : 20.05.2024

## 1.1 Summary, Exterior Lighting (IP65 Extrusion) Proposed

### 1.1.3 Result overview, Charging Space









Illuminance [lx]

**General**

| | |
|---|---|
| Calculation algorithm used | Average indirect fraction |
| Height of evaluation surface | 0.00 m |
| Maintenance factor | 0.80 |
| Total luminous flux | 224788 lm |
| Total power | 965.2 W |
| Total power per area (1357.10 m²) | 0.71 W/m² |

**Illuminance**

| | | |
|---|---|---|
| Average illuminance | $\bar{E}_m$ | 163 lx |
| Minimum illuminance | $E_{min}$ | 74 lx |
| Maximum illuminance | $E_{max}$ | 304 lx |
| Uniformity $U_o$ | $E_{min}/\bar{E}_m$ | 1:2.19 (0.46) |
| Diversity $U_d$ | $E_{min}/E_{max}$ | 1:4.09 (0.24) |

**Type No.\Make**

| | | | |
|---|---|---|---|
| | | **Steon Ltd.** | |
| 5 | 2 x | Order No. | : 65-274-470-402 / 65-274-470-403 |
| | | Luminaire name | : Harrier Midi 70W - 4000K |
| | | Equipment | : 1 x 70W 73.6 W / 8972 lm |
| 35 | 12 x | Order No. | : !35-482-441-409 |
| | | Luminaire name | : Niko 23W LED - 4000K - Cloud Lens (1132mm) |
| | | Equipment | : 2 x 23W / 5500 lm |

Object :
Installation : Reliance Street EV Charging Bays
Project number : STP08261
Date : 20.05.2024

## 1.1 Summary, Exterior Lighting (IP65 Extrusion) Proposed

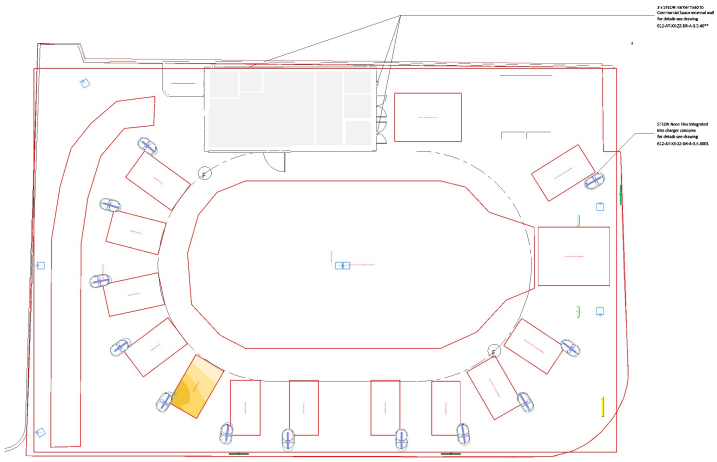
### 1.1.3 Result overview, Charging Space

| | | | |
|---|---|---|---|
| | | **Steon** | |
| 31 | 7 x | Order No. | : |
| | | Luminaire name | : Metro LED 75W 4000K Asymmetrical |
| | | Equipment | : 1 x LED 74 W / 10692 lm |

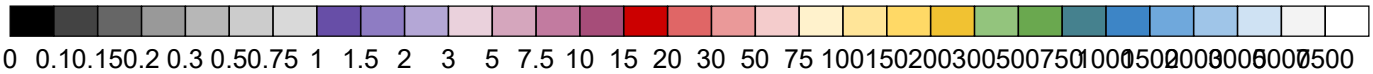
Object :
Installation : Reliance Street EV Charging Bays
Project number : STP08261
Date : 20.05.2024

## 1.1 Summary, Exterior Lighting (IP65 Extrusion) Proposed

### 1.1.4 Result overview, Charging Space



2 7 12 17 22 27 32 37 42 47 x [m]



0 0.10.150.2 0.3 0.50.75 1 1.5 2 3 5 7.5 10 15 20 30 50 75 100150200300500750100015002000300060007500

Illuminance [lx]

**General**

| | |
|---|---|
| Calculation algorithm used | Average indirect fraction |
| Height of evaluation surface | 0.00 m |
| Maintenance factor | 0.80 |
| Total luminous flux | 224788 lm |
| Total power | 965.2 W |
| Total power per area (1357.10 m²) | 0.71 W/m² |

**Illuminance**

| | | |
|---|---|---|
| Average illuminance | $\bar{E}_m$ | 153 lx |
| Minimum illuminance | $E_{min}$ | 77 lx |
| Maximum illuminance | $E_{max}$ | 308 lx |
| Uniformity $U_o$ | $E_{min}/\bar{E}_m$ | 1:1.97 (0.51) |
| Diversity $U_d$ | $E_{min}/E_{max}$ | 1:3.97 (0.25) |

**Type No.\Make**

**Steon Ltd.**

5 2 x
Order No. : 65-274-470-402 / 65-274-470-403
Luminaire name : Harrier Midi 70W - 4000K
Equipment : 1 x 70W 73.6 W / 8972 lm

35 12 x
Order No. : !35-482-441-409
Luminaire name : Niko 23W LED - 4000K - Cloud Lens (1132mm)
Equipment : 2 x 23W / 5500 lm

Object :
Installation : Reliance Street EV Charging Bays
Project number : STP08261
Date : 20.05.2024

## 1.1 Summary, Exterior Lighting (IP65 Extrusion) Proposed

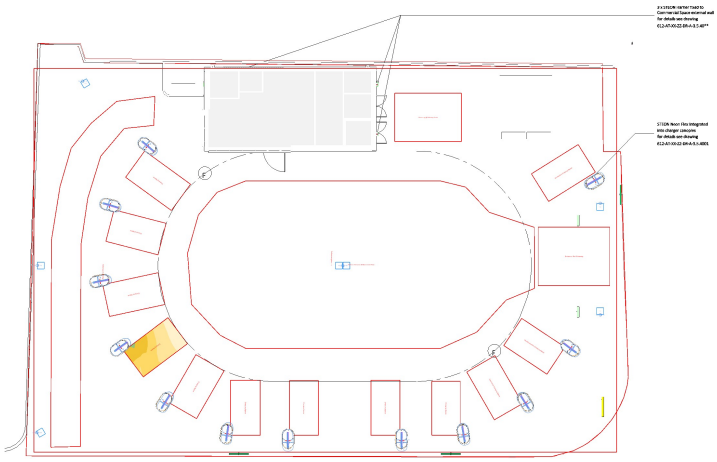
### 1.1.4 Result overview, Charging Space

| | | | |
|---|---|---|---|
| | | **Steon** | |
| 31 | 7 x | Order No. | : |
| | | Luminaire name | : Metro LED 75W 4000K Asymmetrical |
| | | Equipment | : 1 x LED 74 W / 10692 lm |

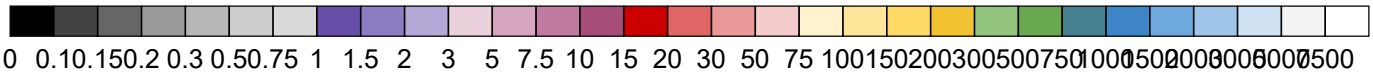
Object :
Installation : Reliance Street EV Charging Bays
Project number : STP08261
Date : 20.05.2024

## 1.1 Summary, Exterior Lighting (IP65 Extrusion) Proposed

### 1.1.5 Result overview, Charging Space



2 7 12 17 22 27 32 37 42 47 x [m]



0 0.10.150.2 0.3 0.50.75 1 1.5 2 3 5 7.5 10 15 20 30 50 75 100150200300500750100015002000300060007500

Illuminance [lx]

**General**

| | |
|---|---|
| Calculation algorithm used | Average indirect fraction |
| Height of evaluation surface | 0.00 m |
| Maintenance factor | 0.80 |
| Total luminous flux | 224788 lm |
| Total power | 965.2 W |
| Total power per area (1357.10 m²) | 0.71 W/m² |

**Illuminance**

| | | |
|---|---|---|
| Average illuminance | $\bar{E}_m$ | 155 lx |
| Minimum illuminance | $E_{min}$ | 80 lx |
| Maximum illuminance | $E_{max}$ | 306 lx |
| Uniformity $U_o$ | $E_{min}/\bar{E}_m$ | 1:1.92 (0.52) |
| Diversity $U_d$ | $E_{min}/E_{max}$ | 1:3.81 (0.26) |

**Type No.\Make**

| | | | |
|---|---|---|---|
| | | **Steon Ltd.** | |
| 5 | 2 x | Order No. | : 65-274-470-402 / 65-274-470-403 |
| | | Luminaire name | : Harrier Midi 70W - 4000K |
| | | Equipment | : 1 x 70W 73.6 W / 8972 lm |
| 35 | 12 x | Order No. | : !35-482-441-409 |
| | | Luminaire name | : Niko 23W LED - 4000K - Cloud Lens (1132mm) |
| | | Equipment | : 2 x 23W / 5500 lm |

## 1.1 Summary, Exterior Lighting (IP65 Extrusion) Proposed

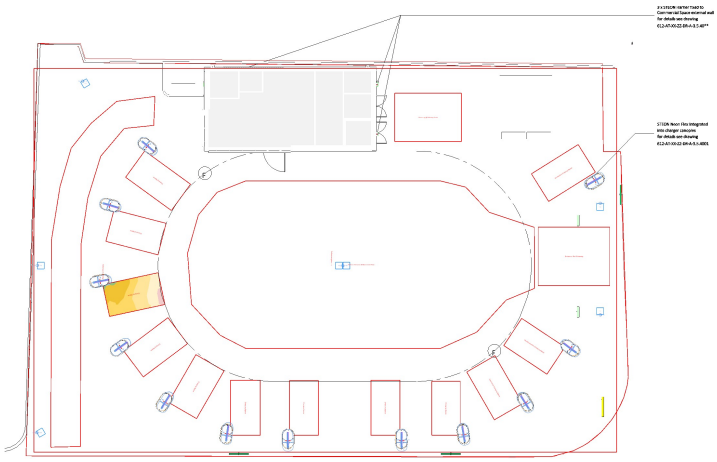
### 1.1.5 Result overview, Charging Space

| | | | |
|---|---|---|---|
| | | **Steon** | |
| 31 | 7 x | Order No. | : |
| | | Luminaire name | : Metro LED 75W 4000K Asymmetrical |
| | | Equipment | : 1 x LED 74 W / 10692 lm |

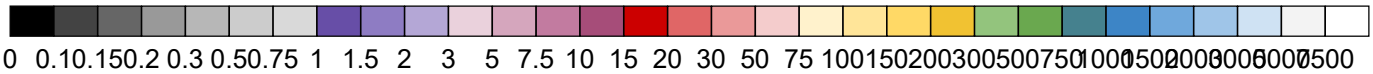
Object :
Installation : Reliance Street EV Charging Bays
Project number : STP08261
Date : 20.05.2024

## 1.1 Summary, Exterior Lighting (IP65 Extrusion) Proposed

### 1.1.6 Result overview, Charging Space



2 7 12 17 22 27 32 37 42 47 x [m]



0 0.10.150.2 0.3 0.50.75 1 1.5 2 3 5 7.5 10 15 20 30 50 75 100150200300500750100015002000300050007500

Illuminance [lx]

**General**

| | |
|---|---|
| Calculation algorithm used | Average indirect fraction |
| Height of evaluation surface | 0.00 m |
| Maintenance factor | 0.80 |
| Total luminous flux | 224788 lm |
| Total power | 965.2 W |
| Total power per area (1357.10 m²) | 0.71 W/m² |

**Illuminance**

| | | |
|---|---|---|
| Average illuminance | $\bar{E}_m$ | 157 lx |
| Minimum illuminance | $E_{min}$ | 70 lx |
| Maximum illuminance | $E_{max}$ | 287 lx |
| Uniformity $U_o$ | $E_{min}/\bar{E}_m$ | 1:2.24 (0.45) |
| Diversity $U_d$ | $E_{min}/E_{max}$ | 1:4.08 (0.25) |

**Type No.\Make**

| | | | |
|---|---|---|---|
| | | **Steon Ltd.** | |
| 5 | 2 x | Order No. | : 65-274-470-402 / 65-274-470-403 |
| | | Luminaire name | : Harrier Midi 70W - 4000K |
| | | Equipment | : 1 x 70W 73.6 W / 8972 lm |
| 35 | 12 x | Order No. | : !35-482-441-409 |
| | | Luminaire name | : Niko 23W LED - 4000K - Cloud Lens (1132mm) |
| | | Equipment | : 2 x 23W / 5500 lm |

## 1.1 Summary, Exterior Lighting (IP65 Extrusion) Proposed

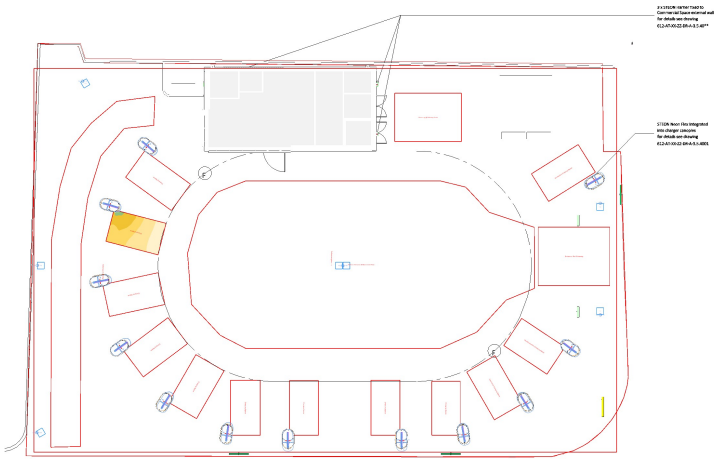
### 1.1.6 Result overview, Charging Space

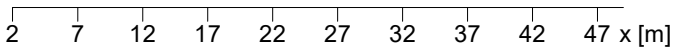
| | | | |
|---|---|---|---|
| | | **Steon** | |
| 31 | 7 x | Order No. | : |
| | | Luminaire name | : Metro LED 75W 4000K Asymmetrical |
| | | Equipment | : 1 x LED 74 W / 10692 lm |

Object :
Installation : Reliance Street EV Charging Bays
Project number : STP08261
Date : 20.05.2024

## 1.1 Summary, Exterior Lighting (IP65 Extrusion) Proposed

### 1.1.7 Result overview, Charging Space









Illuminance [lx]

**General**

| | |
|---|---|
| Calculation algorithm used | Average indirect fraction |
| Height of evaluation surface | 0.00 m |
| Maintenance factor | 0.80 |
| Total luminous flux | 224788 lm |
| Total power | 965.2 W |
| Total power per area (1357.10 m²) | 0.71 W/m² |

**Illuminance**

| | | |
|---|---|---|
| Average illuminance | $\bar{E}_m$ | 153 lx |
| Minimum illuminance | $E_{min}$ | 80 lx |
| Maximum illuminance | $E_{max}$ | 329 lx |
| Uniformity $U_o$ | $E_{min}/\bar{E}_m$ | 1:1.91 (0.52) |
| Diversity $U_d$ | $E_{min}/E_{max}$ | 1:4.12 (0.24) |

**Type No.\Make**

5 2 x **Steon Ltd.**
Order No. : 65-274-470-402 / 65-274-470-403
Luminaire name : Harrier Midi 70W - 4000K
Equipment : 1 x 70W 73.6 W / 8972 lm

35 12 x Order No. : !35-482-441-409
Luminaire name : Niko 23W LED - 4000K - Cloud Lens (1132mm)
Equipment : 2 x 23W / 5500 lm

Tom Mills
A maintenance factor (MF) of 0.8 has been assumed for all rooms included in this calculation document

## 1.1 Summary, Exterior Lighting (IP65 Extrusion) Proposed

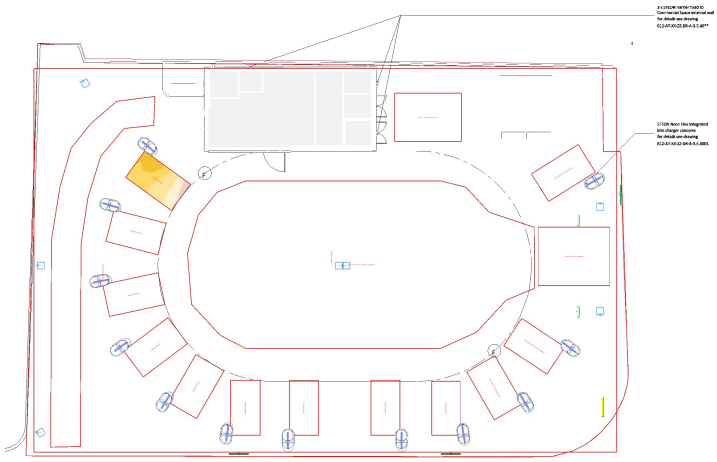
### 1.1.7 Result overview, Charging Space

| | | | |
|---|---|---|---|
| | | **Steon** | |
| 31 | 7 x | Order No. | : |
| | | Luminaire name | : Metro LED 75W 4000K Asymmetrical |
| | | Equipment | : 1 x LED 74 W / 10692 lm |

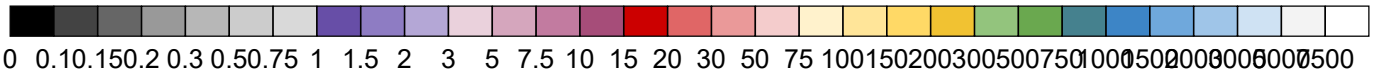
Object :
Installation : Reliance Street EV Charging Bays
Project number : STP08261
Date : 20.05.2024

## 1.1 Summary, Exterior Lighting (IP65 Extrusion) Proposed

### 1.1.8 Result overview, Charging Space



2 7 12 17 22 27 32 37 42 47 x [m]



0 0.1 0.15 0.2 0.3 0.5 0.75 1 1.5 2 3 5 7.5 10 15 20 30 50 75 100 150 200 300 500 750 1000 1500 2000 3000 5000 7500

Illuminance [lx]

**General**

| | |
|---|---|
| Calculation algorithm used | Average indirect fraction |
| Height of evaluation surface | 0.00 m |
| Maintenance factor | 0.80 |
| Total luminous flux | 224788 lm |
| Total power | 965.2 W |
| Total power per area (1357.10 m²) | 0.71 W/m² |

**Illuminance**

| | | |
|---|---|---|
| Average illuminance | $\bar{E}_m$ | 149 lx |
| Minimum illuminance | $E_{min}$ | 68 lx |
| Maximum illuminance | $E_{max}$ | 285 lx |
| Uniformity $U_o$ | $E_{min}/\bar{E}_m$ | 1:2.19 (0.46) |
| Diversity $U_d$ | $E_{min}/E_{max}$ | 1:4.19 (0.24) |

**Type No.\Make**

| | | | |
|---|---|---|---|
| | | **Steon Ltd.** | |
| 5 | 2 x | Order No. | : 65-274-470-402 / 65-274-470-403 |
| | | Luminaire name | : Harrier Midi 70W - 4000K |
| | | Equipment | : 1 x 70W 73.6 W / 8972 lm |
| 35 | 12 x | Order No. | : !35-482-441-409 |
| | | Luminaire name | : Niko 23W LED - 4000K - Cloud Lens (1132mm) |
| | | Equipment | : 2 x 23W / 5500 lm |

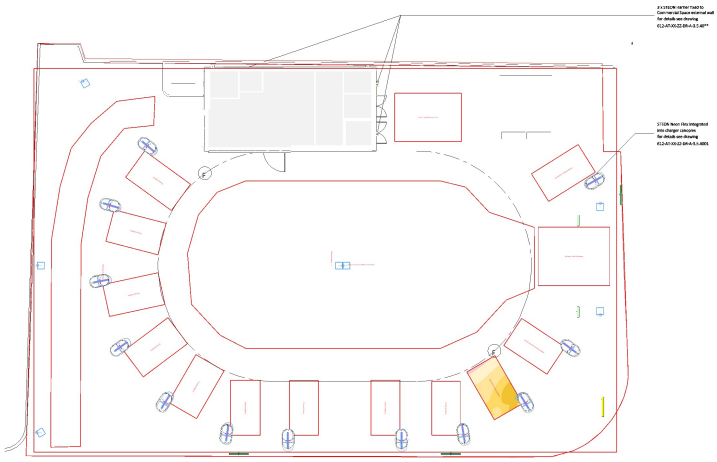
## 1.1 Summary, Exterior Lighting (IP65 Extrusion) Proposed

### 1.1.8 Result overview, Charging Space

| | | | |
|---|---|---|---|
| | | **Steon** | |
| 31 | 7 x | Order No. | : |
| | | Luminaire name | : Metro LED 75W 4000K Asymmetrical |
| | | Equipment | : 1 x LED 74 W / 10692 lm |

## 1.1 Summary, Exterior Lighting (IP65 Extrusion) Proposed

### 1.1.9 Result overview, Van/Trailer Charging Space




**General**

| | |
|---|---|
| Calculation algorithm used | Average indirect fraction |
| Height of evaluation surface | 0.00 m |
| Maintenance factor | 0.80 |
| Total luminous flux | 224788 lm |
| Total power | 965.2 W |
| Total power per area (1357.10 m²) | 0.71 W/m² |

**Illuminance**

| | | |
|---|---|---|
| Average illuminance | $\bar{E}_m$ | 149 lx |
| Minimum illuminance | $E_{min}$ | 76 lx |
| Maximum illuminance | $E_{max}$ | 293 lx |
| Uniformity $U_o$ | $E_{min}/\bar{E}_m$ | 1:1.98 (0.51) |
| Diversity $U_d$ | $E_{min}/E_{max}$ | 1:3.88 (0.26) |

**Type No.\Make**

| | | | |
|---|---|---|---|
| | | **Steon Ltd.** | |
| 5 | 2 x | Order No. | : 65-274-470-402 / 65-274-470-403 |
| | | Luminaire name | : Harrier Midi 70W - 4000K |
| | | Equipment | : 1 x 70W 73.6 W / 8972 lm |
| 35 | 12 x | Order No. | : !35-482-441-409 |
| | | Luminaire name | : Niko 23W LED - 4000K - Cloud Lens (1132mm) |
| | | Equipment | : 2 x 23W / 5500 lm |

Object :
Installation : Reliance Street EV Charging Bays
Project number : STP08261
Date : 20.05.2024

## 1.1 Summary, Exterior Lighting (IP65 Extrusion) Proposed

### 1.1.9 Result overview, Van/Trailer Charging Space

**Steon**

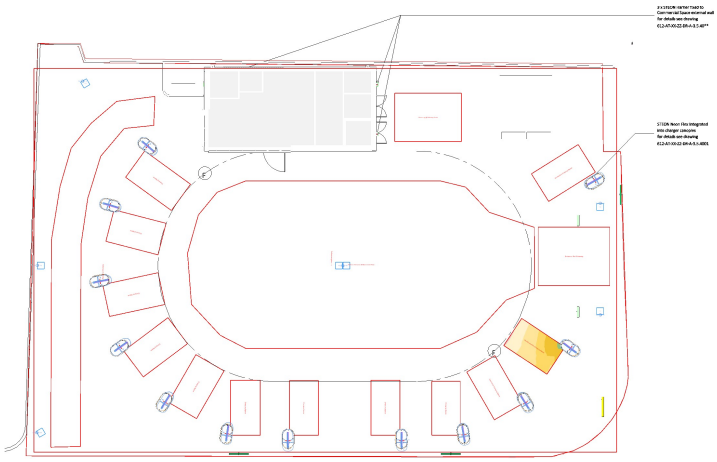
31 7 x



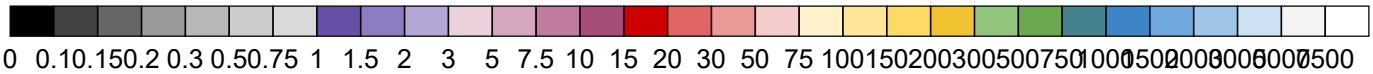
Order No. :
Luminaire name : Metro LED 75W 4000K Asymmetrical
Equipment : 1 x LED 74 W / 10692 lm

## 1.1 Summary, Exterior Lighting (IP65 Extrusion) Proposed

### 1.1.10 Result overview, Van/Accessible Charging Space



2 7 12 17 22 27 32 37 42 47 x [m]



0 0.10.150.2 0.3 0.50.75 1 1.5 2 3 5 7.5 10 15 20 30 50 75 100150200300500750100015002000300060007500

Illuminance [lx]

**General**

| | |
|---|---|
| Calculation algorithm used | Average indirect fraction |
| Height of evaluation surface | 0.00 m |
| Maintenance factor | 0.80 |
| Total luminous flux | 224788 lm |
| Total power | 965.2 W |
| Total power per area (1357.10 m²) | 0.71 W/m² |

**Illuminance**

| | | |
|---|---|---|
| Average illuminance | $\bar{E}_m$ | 147 lx |
| Minimum illuminance | $E_{min}$ | 78 lx |
| Maximum illuminance | $E_{max}$ | 319 lx |
| Uniformity $U_o$ | $E_{min}/\bar{E}_m$ | 1:1.9 (0.53) |
| Diversity $U_d$ | $E_{min}/E_{max}$ | 1:4.11 (0.24) |

**Type No.\Make**

**Steon Ltd.**

5 2 x
Order No. : 65-274-470-402 / 65-274-470-403
Luminaire name : Harrier Midi 70W - 4000K
Equipment : 1 x 70W 73.6 W / 8972 lm

35 12 x
Order No. : !35-482-441-409
Luminaire name : Niko 23W LED - 4000K - Cloud Lens (1132mm)
Equipment : 2 x 23W / 5500 lm

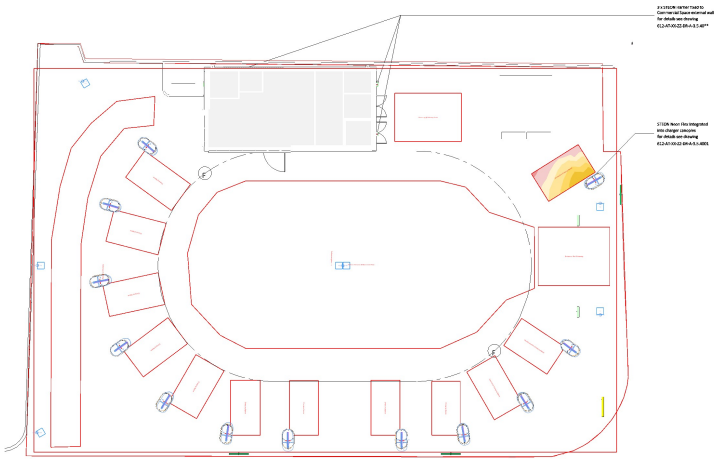
## 1.1 Summary, Exterior Lighting (IP65 Extrusion) Proposed

### 1.1.10 Result overview, Van/Accessible Charging Space

| | | | |
|---|---|---|---|
| | | **Steon** | |
| 31 | 7 x | Order No. | : |
| | | Luminaire name | : Metro LED 75W 4000K Asymmetrical |
| | | Equipment | : 1 x LED 74 W / 10692 lm |

## 1.1 Summary, Exterior Lighting (IP65 Extrusion) Proposed

### 1.1.11 Result overview, Accessible Charging Space



2 7 12 17 22 27 32 37 42 47 x [m]

0 0.1 0.15 0.2 0.3 0.5 0.75 1 1.5 2 3 5 7.5 10 15 20 30 50 75 100 150 200 300 500 750 1000 1500 2000 3000 5000 7500

Illuminance [lx]

**General**

| | |
|---|---|
| Calculation algorithm used | Average indirect fraction |
| Height of evaluation surface | 0.00 m |
| Maintenance factor | 0.80 |
| Total luminous flux | 224788 lm |
| Total power | 965.2 W |
| Total power per area (1357.10 m²) | 0.71 W/m² |

**Illuminance**

| | | |
|---|---|---|
| Average illuminance | $\bar{E}_m$ | 123 lx |
| Minimum illuminance | $E_{min}$ | 50 lx |
| Maximum illuminance | $E_{max}$ | 272 lx |
| Uniformity $U_o$ | $E_{min}/\bar{E}_m$ | 1:2.46 (0.41) |
| Diversity $U_d$ | $E_{min}/E_{max}$ | 1:5.43 (0.18) |

**Type No.\Make**

**Steon Ltd.**

5 2 x
Order No. : 65-274-470-402 / 65-274-470-403
Luminaire name : Harrier Midi 70W - 4000K
Equipment : 1 x 70W 73.6 W / 8972 lm

35 12 x
Order No. : !35-482-441-409
Luminaire name : Niko 23W LED - 4000K - Cloud Lens (1132mm)
Equipment : 2 x 23W / 5500 lm

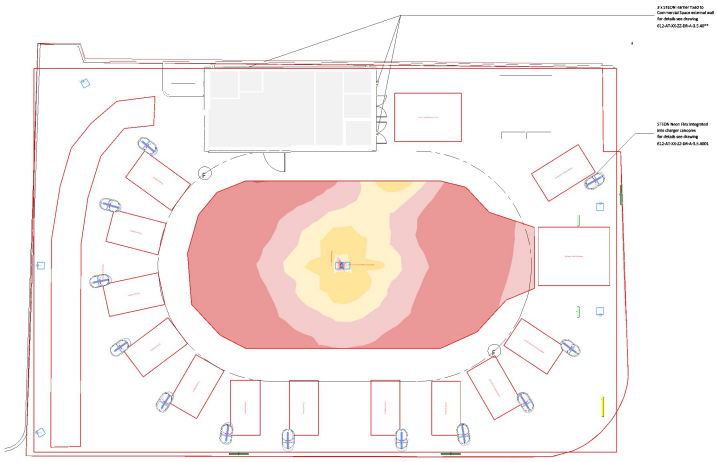
## 1.1 Summary, Exterior Lighting (IP65 Extrusion) Proposed

### 1.1.11 Result overview, Accessible Charging Space

| | | | |
|---|---|---|---|
| | | **Steon** | |
| 31 | 7 x | Order No. | : |
| | | Luminaire name | : Metro LED 75W 4000K Asymmetrical |
| | | Equipment | : 1 x LED 74 W / 10692 lm |

## 1.1 Summary, Exterior Lighting (IP65 Extrusion) Proposed

### 1.1.12 Result overview, Vehicle Entrance & Movement Area



2 7 12 17 22 27 32 37 42 47 x [m]

0 0.1 0.15 0.2 0.3 0.5 0.75 1 1.5 2 3 5 7.5 10 15 20 30 50 75 100 150 200 300 500 750 1000 1500 2000 3000 5000 7500

Illuminance [lx]

**General**

| | |
|---|---|
| Calculation algorithm used | Average indirect fraction |
| Height of evaluation surface | 0.00 m |
| Maintenance factor | 0.80 |
| Total luminous flux | 224788 lm |
| Total power | 965.2 W |
| Total power per area (1357.10 m²) | 0.71 W/m² |

**Illuminance**

| | | |
|---|---|---|
| Average illuminance | $\bar{E}_m$ | 57 lx |
| Minimum illuminance | $E_{min}$ | 31 lx |
| Maximum illuminance | $E_{max}$ | 122 lx |
| Uniformity $U_o$ | $E_{min}/\bar{E}_m$ | 1:1.83 (0.55) |
| Diversity $U_d$ | $E_{min}/E_{max}$ | 1:3.94 (0.25) |

**Type No.\Make**

**Steon Ltd.**

5 2 x
Order No. : 65-274-470-402 / 65-274-470-403
Luminaire name : Harrier Midi 70W - 4000K
Equipment : 1 x 70W 73.6 W / 8972 lm

35 12 x
Order No. : !35-482-441-409
Luminaire name : Niko 23W LED - 4000K - Cloud Lens (1132mm)
Equipment : 2 x 23W / 5500 lm

## 1.1 Summary, Exterior Lighting (IP65 Extrusion) Proposed

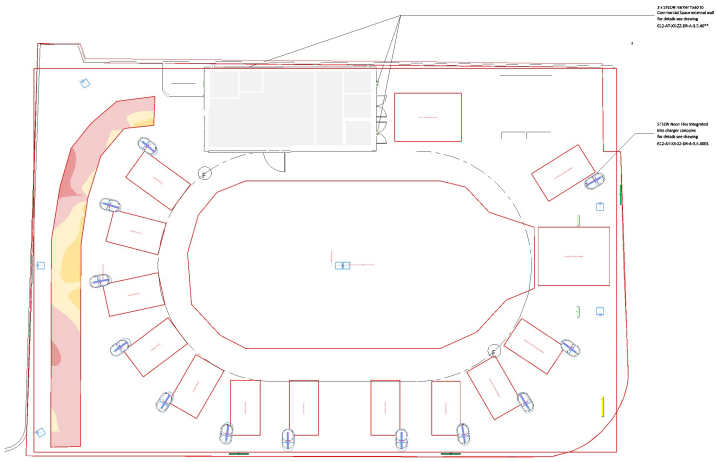
### 1.1.12 Result overview, Vehicle Entrance & Movement Area

| | | | |
|---|---|---|---|
| | | **Steon** | |
| 31 | 7 x | Order No. | : |
| | | Luminaire name | : Metro LED 75W 4000K Asymmetrical |
| | | Equipment | : 1 x LED 74 W / 10692 lm |

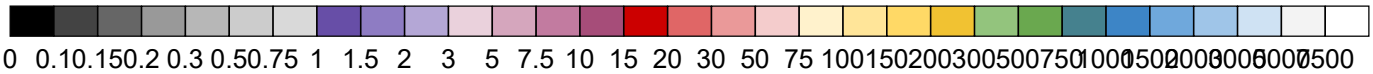
Object :
Installation : Reliance Street EV Charging Bays
Project number : STP08261
Date : 20.05.2024

## 1.1 Summary, Exterior Lighting (IP65 Extrusion) Proposed

### 1.1.13 Result overview, Pedestrian Walkway



2 7 12 17 22 27 32 37 42 47 x [m]



0 0.10.150.2 0.3 0.50.75 1 1.5 2 3 5 7.5 10 15 20 30 50 75 100150200300500750100015002000300060007500

Illuminance [lx]

**General**

| | |
|---|---|
| Calculation algorithm used | Average indirect fraction |
| Height of evaluation surface | 0.00 m |
| Maintenance factor | 0.80 |
| Total luminous flux | 224788 lm |
| Total power | 965.2 W |
| Total power per area (1357.10 m²) | 0.71 W/m² |

**Illuminance**

| | | |
|---|---|---|
| Average illuminance | $\bar{E}_m$ | 72 lx |
| Minimum illuminance | $E_{min}$ | 42 lx |
| Maximum illuminance | $E_{max}$ | 139 lx |
| Uniformity $U_o$ | $E_{min}/\bar{E}_m$ | 1:1.71 (0.59) |
| Diversity $U_d$ | $E_{min}/E_{max}$ | 1:3.28 (0.3) |

**Type No.\Make**

| | | | |
|---|---|---|---|
| | | **Steon Ltd.** | |
| 5 | 2 x | Order No. | : 65-274-470-402 / 65-274-470-403 |
| | | Luminaire name | : Harrier Midi 70W - 4000K |
| | | Equipment | : 1 x 70W 73.6 W / 8972 lm |
| 35 | 12 x | Order No. | : !35-482-441-409 |
| | | Luminaire name | : Niko 23W LED - 4000K - Cloud Lens (1132mm) |
| | | Equipment | : 2 x 23W / 5500 lm |

## 1.1 Summary, Exterior Lighting (IP65 Extrusion) Proposed

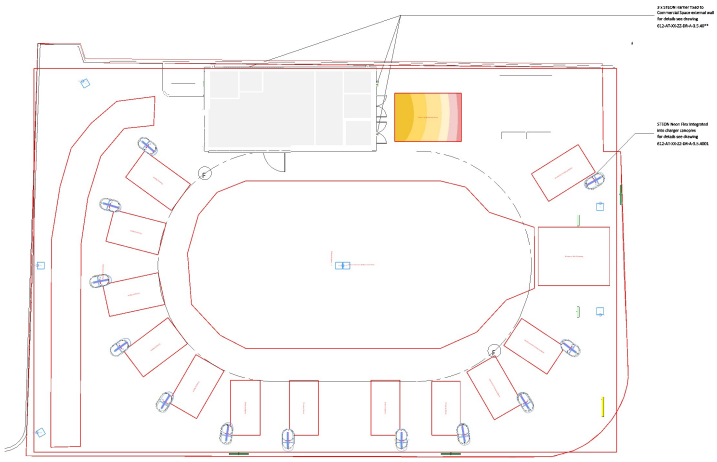
### 1.1.13 Result overview, Pedestrian Walkway

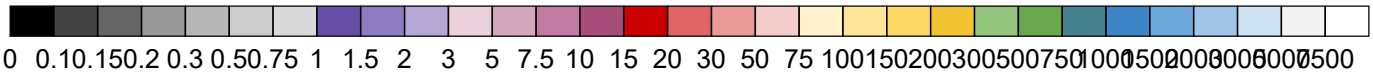
| | | | |
|---|---|---|---|
| | | **Steon** | |
| 31 | 7 x | Order No. | : |
| | | Luminaire name | : Metro LED 75W 4000K Asymmetrical |
| | | Equipment | : 1 x LED 74 W / 10692 lm |

Object :
Installation : Reliance Street EV Charging Bays
Project number : STP08261
Date : 20.05.2024

## 1.1 Summary, Exterior Lighting (IP65 Extrusion) Proposed

### 1.1.14 Result overview, Servicing & Delivery Zone




Illuminance [lx]

**General**

| | |
|---|---|
| Calculation algorithm used | Average indirect fraction |
| Height of evaluation surface | 0.00 m |
| Maintenance factor | 0.80 |
| Total luminous flux | 224788 lm |
| Total power | 965.2 W |
| Total power per area (1357.10 m²) | 0.71 W/m² |

**Illuminance**

| | | |
|---|---|---|
| Average illuminance | $\bar{E}_m$ | 144 lx |
| Minimum illuminance | $E_{min}$ | 49 lx |
| Maximum illuminance | $E_{max}$ | 249 lx |
| Uniformity $U_o$ | $E_{min}/\bar{E}_m$ | 1:2.97 (0.34) |
| Diversity $U_d$ | $E_{min}/E_{max}$ | 1:5.14 (0.19) |

**Type No.\Make**

| | | | |
|---|---|---|---|
| | | **Steon Ltd.** | |
| 5 | 2 x | Order No. | : 65-274-470-402 / 65-274-470-403 |
| | | Luminaire name | : Harrier Midi 70W - 4000K |
| | | Equipment | : 1 x 70W 73.6 W / 8972 lm |
| 35 | 12 x | Order No. | : !35-482-441-409 |
| | | Luminaire name | : Niko 23W LED - 4000K - Cloud Lens (1132mm) |
| | | Equipment | : 2 x 23W / 5500 lm |

## 1.1 Summary, Exterior Lighting (IP65 Extrusion) Proposed

### 1.1.14 Result overview, Servicing & Delivery Zone

**Steon**

31 7 x

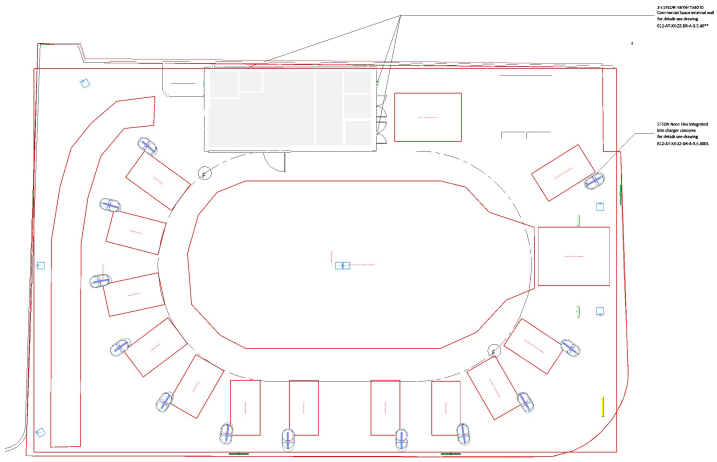


Order No. :
Luminaire name : Metro LED 75W 4000K Asymmetrical
Equipment : 1 x LED 74 W / 10692 lm

Object :
Installation : Reliance Street EV Charging Bays
Project number : STP08261
Date : 20.05.2024

## 1.1 Summary, Exterior Lighting (IP65 Extrusion) Proposed

### 1.1.15 Result overview, Upward Light Pollution



2 7 12 17 22 27 32 37 42 47 x [m]

0 0.1 0.15 0.2 0.3 0.5 0.75 1 1.5 2 3 5 7.5 10 15 20 30 50 75 100 150 200 300 500 750 1000 1500 2000 3000 5000 7500

Illuminance [lx]

**General**

| | |
|---|---|
| Calculation algorithm used | Average indirect fraction |
| Maintenance factor | 0.80 |
| Total luminous flux | 224788 lm |
| Total power | 965.2 W |
| Total power per area (1357.10 m²) | 0.71 W/m² |

**Illuminance**

| | | |
|---|---|---|
| Average illuminance | $\bar{E}_m$ | 11.8 lx |
| Minimum illuminance | $E_{min}$ | 3.7 lx |
| Maximum illuminance | $E_{max}$ | 17 lx |
| Uniformity $U_o$ | $E_{min}/\bar{E}_m$ | 1:3.18 (0.31) |
| Diversity $U_d$ | $E_{min}/E_{max}$ | 1:4.57 (0.22) |

**Type No.\Make**

| | | | |
|---|---|---|---|
| | | **Steon Ltd.** | |
| 5 | 2 x | Order No. | : 65-274-470-402 / 65-274-470-403 |
| | | Luminaire name | : Harrier Midi 70W - 4000K |
| | | Equipment | : 1 x 70W 73.6 W / 8972 lm |
| 35 | 12 x | Order No. | : !35-482-441-409 |
| | | Luminaire name | : Niko 23W LED - 4000K - Cloud Lens (1132mm) |
| | | Equipment | : 2 x 23W / 5500 lm |

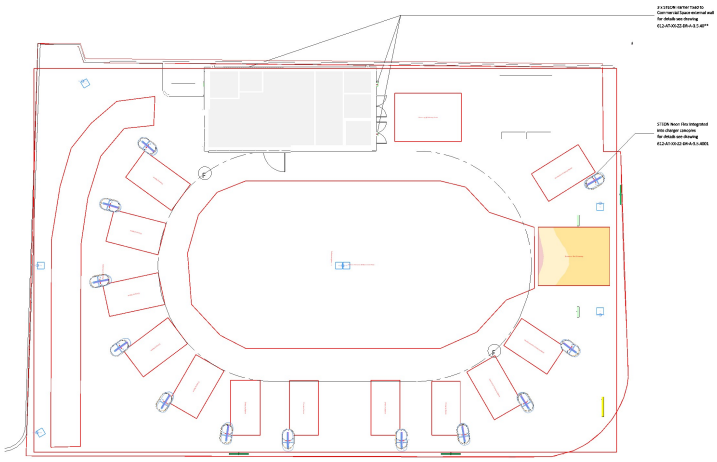
## 1.1 Summary, Exterior Lighting (IP65 Extrusion) Proposed

### 1.1.15 Result overview, Upward Light Pollution

| | | | |
|---|---|---|---|
| | | **Steon** | |
| 31 | 7 x | Order No. | : |
| | | Luminaire name | : Metro LED 75W 4000K Asymmetrical |
| | | Equipment | : 1 x LED 74 W / 10692 lm |

## 1.1 Summary, Exterior Lighting (IP65 Extrusion) Proposed

### 1.1.16 Result overview, Entrance / Exit Driveway



2 7 12 17 22 27 32 37 42 47 x [m]

0 0.1 0.15 0.2 0.3 0.5 0.75 1 1.5 2 3 5 7.5 10 15 20 30 50 75 100 150 200 300 500 750 1000 1500 2000 3000 5000 7500

Illuminance [lx]

**General**

| | |
|---|---|
| Calculation algorithm used | Average indirect fraction |
| Height of evaluation surface | 0.00 m |
| Maintenance factor | 0.80 |
| Total luminous flux | 224788 lm |
| Total power | 965.2 W |
| Total power per area (1357.10 m²) | 0.71 W/m² |

**Illuminance**

| | | |
|---|---|---|
| Average illuminance | $\bar{E}_m$ | 103 lx |
| Minimum illuminance | $E_{min}$ | 74 lx |
| Maximum illuminance | $E_{max}$ | 135 lx |
| Uniformity $U_o$ | $E_{min}/\bar{E}_m$ | 1:1.4 (0.72) |
| Diversity $U_d$ | $E_{min}/E_{max}$ | 1:1.82 (0.55) |

**Type No.\Make**

**Steon Ltd.**

5 2 x
Order No. : 65-274-470-402 / 65-274-470-403
Luminaire name : Harrier Midi 70W - 4000K
Equipment : 1 x 70W 73.6 W / 8972 lm

35 12 x
Order No. : !35-482-441-409
Luminaire name : Niko 23W LED - 4000K - Cloud Lens (1132mm)
Equipment : 2 x 23W / 5500 lm

## 1.1 Summary, Exterior Lighting (IP65 Extrusion) Proposed

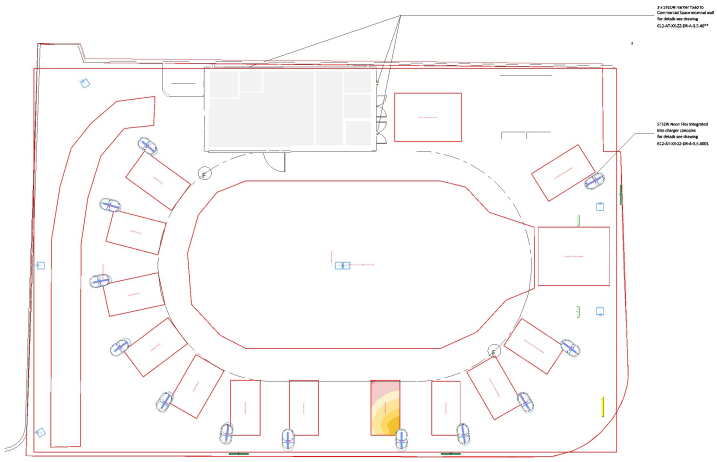
### 1.1.16 Result overview, Entrance / Exit Driveway

| | | | |
|---|---|---|---|
| | | **Steon** | |
| 31 | 7 x | Order No. | : |
| | | Luminaire name | : Metro LED 75W 4000K Asymmetrical |
| | | Equipment | : 1 x LED 74 W / 10692 lm |

Object :
Installation : Reliance Street EV Charging Bays
Project number : STP08261
Date : 20.05.2024

## 1.1 Summary, Exterior Lighting (IP65 Extrusion) Proposed

### 1.1.17 Result overview, Charging Space



2 7 12 17 22 27 32 37 42 47 x [m]

0 0.1 0.15 0.2 0.3 0.5 0.75 1 1.5 2 3 5 7.5 10 15 20 30 50 75 100 150 200 300 500 750 1000 1500 2000 3000 5000 7500

Illuminance [lx]

**General**

| | |
|---|---|
| Calculation algorithm used | Average indirect fraction |
| Height of evaluation surface | 0.00 m |
| Maintenance factor | 0.80 |
| Total luminous flux | 224788 lm |
| Total power | 965.2 W |
| Total power per area (1357.10 m²) | 0.71 W/m² |

**Illuminance**

| | | |
|---|---|---|
| Average illuminance | $\bar{E}_m$ | 119 lx |
| Minimum illuminance | $E_{min}$ | 51 lx |
| Maximum illuminance | $E_{max}$ | 298 lx |
| Uniformity $U_o$ | $E_{min}/\bar{E}_m$ | 1:2.35 (0.43) |
| Diversity $U_d$ | $E_{min}/E_{max}$ | 1:5.87 (0.17) |

**Type No.\Make**

**Steon Ltd.**

5 2 x
Order No. : 65-274-470-402 / 65-274-470-403
Luminaire name : Harrier Midi 70W - 4000K
Equipment : 1 x 70W 73.6 W / 8972 lm

35 12 x
Order No. : !35-482-441-409
Luminaire name : Niko 23W LED - 4000K - Cloud Lens (1132mm)
Equipment : 2 x 23W / 5500 lm

## 1.1 Summary, Exterior Lighting (IP65 Extrusion) Proposed

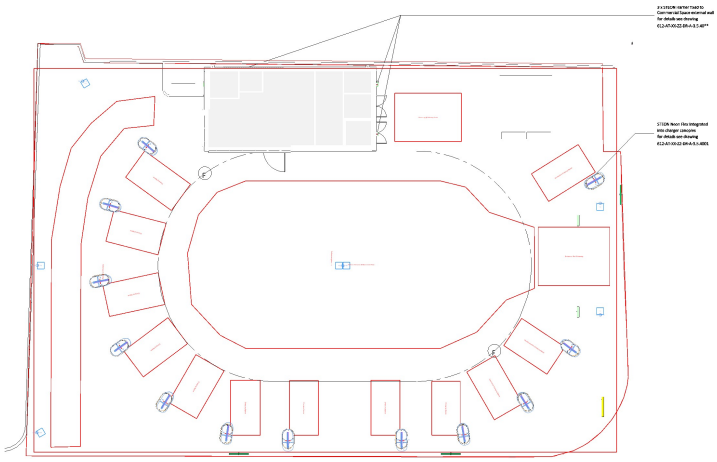
### 1.1.17 Result overview, Charging Space

| | | | |
|---|---|---|---|
| | | **Steon** | |
| 31 | 7 x | Order No. | : |
| | | Luminaire name | : Metro LED 75W 4000K Asymmetrical |
| | | Equipment | : 1 x LED 74 W / 10692 lm |

Object :
Installation : Reliance Street EV Charging Bays
Project number : STP08261
Date : 20.05.2024

## 1.1 Summary, Exterior Lighting (IP65 Extrusion) Proposed

### 1.1.18 Result overview, Charger Vertical Illuminance



2 7 12 17 22 27 32 37 42 47 x [m]



0 0.1 0.15 0.2 0.3 0.5 0.75 1 1.5 2 3 5 7.5 10 15 20 30 50 75 100 150 200 300 500 750 1000 1500 2000 3000 5000 7500

Illuminance [lx]

**General**

| | |
|---|---|
| Calculation algorithm used | Average indirect fraction |
| Maintenance factor | 0.80 |
| Total luminous flux | 224788 lm |
| Total power | 965.2 W |
| Total power per area (1357.10 m²) | 0.71 W/m² |

**Illuminance**

| | | |
|---|---|---|
| Average illuminance | $\bar{E}_m$ | 79 lx |
| Minimum illuminance | $E_{min}$ | 35 lx |
| Maximum illuminance | $E_{max}$ | 161 lx |
| Uniformity $U_o$ | $E_{min}/\bar{E}_m$ | 1:2.23 (0.45) |
| Diversity $U_d$ | $E_{min}/E_{max}$ | 1:4.56 (0.22) |

**Type No.\Make**

| | | | |
|---|---|---|---|
| | | **Steon Ltd.** | |
| 5 | 2 x | Order No. | : 65-274-470-402 / 65-274-470-403 |
| | | Luminaire name | : Harrier Midi 70W - 4000K |
| | | Equipment | : 1 x 70W 73.6 W / 8972 lm |
| 35 | 12 x | Order No. | : !35-482-441-409 |
| | | Luminaire name | : Niko 23W LED - 4000K - Cloud Lens (1132mm) |
| | | Equipment | : 2 x 23W / 5500 lm |

## 1.1 Summary, Exterior Lighting (IP65 Extrusion) Proposed

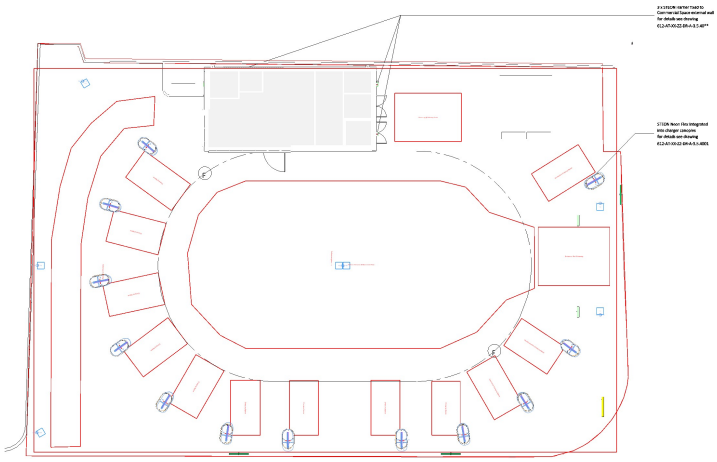
### 1.1.18 Result overview, Charger Vertical Illuminance

| | | | |
|---|---|---|---|
| | | **Steon** | |
| 31 | 7 x | Order No. | : |
| | | Luminaire name | : Metro LED 75W 4000K Asymmetrical |
| | | Equipment | : 1 x LED 74 W / 10692 lm |

Object :
Installation : Reliance Street EV Charging Bays
Project number : STP08261
Date : 20.05.2024

## 1.1 Summary, Exterior Lighting (IP65 Extrusion) Proposed

### 1.1.19 Result overview, Charger Vertical Illuminance



2 7 12 17 22 27 32 37 42 47 x [m]

0 0.1 0.15 0.2 0.3 0.5 0.75 1 1.5 2 3 5 7.5 10 15 20 30 50 75 100 150 200 300 500 750 1000 1500 2000 3000 5000 7500

Illuminance [lx]

**General**

| | |
|---|---|
| Calculation algorithm used | Average indirect fraction |
| Maintenance factor | 0.80 |
| Total luminous flux | 224788 lm |
| Total power | 965.2 W |
| Total power per area (1357.10 m²) | 0.71 W/m² |

**Illuminance**

| | | |
|---|---|---|
| Average illuminance | $\bar{E}_m$ | 91 lx |
| Minimum illuminance | $E_{min}$ | 52 lx |
| Maximum illuminance | $E_{max}$ | 167 lx |
| Uniformity $U_o$ | $E_{min}/\bar{E}_m$ | 1:1.74 (0.57) |
| Diversity $U_d$ | $E_{min}/E_{max}$ | 1:3.2 (0.31) |

**Type No.\Make**

| | | | |
|---|---|---|---|
| | | **Steon Ltd.** | |
| 5 | 2 x | Order No. | : 65-274-470-402 / 65-274-470-403 |
| | | Luminaire name | : Harrier Midi 70W - 4000K |
| | | Equipment | : 1 x 70W 73.6 W / 8972 lm |
| 35 | 12 x | Order No. | : !35-482-441-409 |
| | | Luminaire name | : Niko 23W LED - 4000K - Cloud Lens (1132mm) |
| | | Equipment | : 2 x 23W / 5500 lm |

## 1.1 Summary, Exterior Lighting (IP65 Extrusion) Proposed

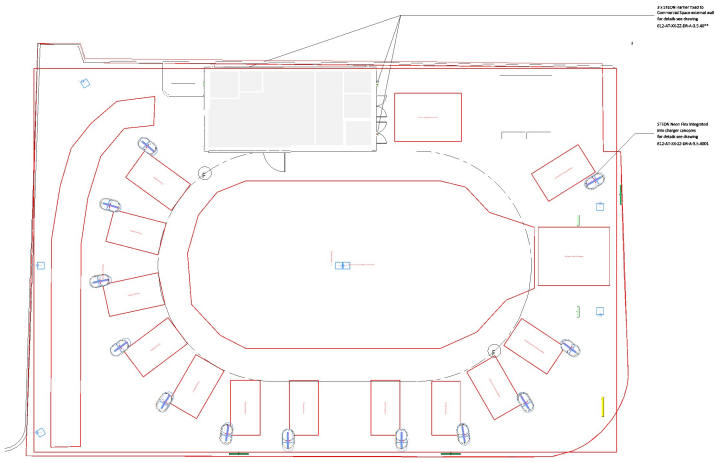
### 1.1.19 Result overview, Charger Vertical Illuminance

| | | | |
|---|---|---|---|
| | | **Steon** | |
| 31 | 7 x | Order No. | : |
| | | Luminaire name | : Metro LED 75W 4000K Asymmetrical |
| | | Equipment | : 1 x LED 74 W / 10692 lm |

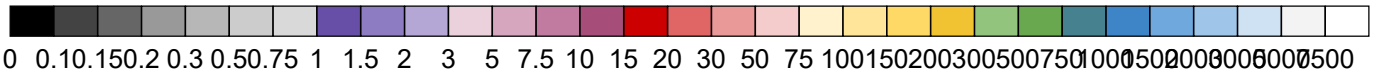
Object :
Installation : Reliance Street EV Charging Bays
Project number : STP08261
Date : 20.05.2024

## 1.1 Summary, Exterior Lighting (IP65 Extrusion) Proposed

### 1.1.20 Result overview, Charger Vertical Illuminance



2 7 12 17 22 27 32 37 42 47 x [m]



0 0.1 0.15 0.2 0.3 0.5 0.75 1 1.5 2 3 5 7.5 10 15 20 30 50 75 100 150 200 300 500 750 1000 1500 2000 3000 5000 7500

Illuminance [lx]

**General**

| | |
|---|---|
| Calculation algorithm used | Average indirect fraction |
| Maintenance factor | 0.80 |
| Total luminous flux | 224788 lm |
| Total power | 965.2 W |
| Total power per area (1357.10 m²) | 0.71 W/m² |

**Illuminance**

| | | |
|---|---|---|
| Average illuminance | $\bar{E}_m$ | 92 lx |
| Minimum illuminance | $E_{min}$ | 43 lx |
| Maximum illuminance | $E_{max}$ | 169 lx |
| Uniformity $U_o$ | $E_{min}/\bar{E}_m$ | 1:2.14 (0.47) |
| Diversity $U_d$ | $E_{min}/E_{max}$ | 1:3.96 (0.25) |

**Type No.\Make**

5 2 x **Steon Ltd.**
Order No. : 65-274-470-402 / 65-274-470-403
Luminaire name : Harrier Midi 70W - 4000K
Equipment : 1 x 70W 73.6 W / 8972 lm

35 12 x Order No. : !35-482-441-409
Luminaire name : Niko 23W LED - 4000K - Cloud Lens (1132mm)
Equipment : 2 x 23W / 5500 lm

## 1.1 Summary, Exterior Lighting (IP65 Extrusion) Proposed

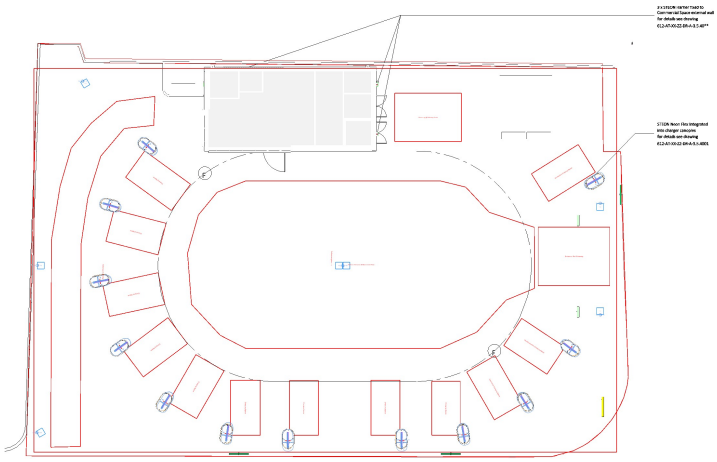
### 1.1.20 Result overview, Charger Vertical Illuminance

| | | | |
|---|---|---|---|
| | | **Steon** | |
| 31 | 7 x | Order No. | : |
| | | Luminaire name | : Metro LED 75W 4000K Asymmetrical |
| | | Equipment | : 1 x LED 74 W / 10692 lm |

Object :
Installation : Reliance Street EV Charging Bays
Project number : STP08261
Date : 20.05.2024

## 1.1 Summary, Exterior Lighting (IP65 Extrusion) Proposed

### 1.1.21 Result overview, Charger Vertical Illuminance



2 7 12 17 22 27 32 37 42 47 x [m]



0 0.1 0.15 0.2 0.3 0.5 0.75 1 1.5 2 3 5 7.5 10 15 20 30 50 75 100 150 200 300 500 750 1000 1500 2000 3000 5000 7500

Illuminance [lx]

**General**

| | |
|---|---|
| Calculation algorithm used | Average indirect fraction |
| Maintenance factor | 0.80 |
| Total luminous flux | 224788 lm |
| Total power | 965.2 W |
| Total power per area (1357.10 m²) | 0.71 W/m² |

**Illuminance**

| | | |
|---|---|---|
| Average illuminance | $\bar{E}_m$ | 86 lx |
| Minimum illuminance | $E_{min}$ | 40 lx |
| Maximum illuminance | $E_{max}$ | 166 lx |
| Uniformity $U_o$ | $E_{min}/\bar{E}_m$ | 1:2.16 (0.46) |
| Diversity $U_d$ | $E_{min}/E_{max}$ | 1:4.16 (0.24) |

**Type No.\Make**

| | | | |
|---|---|---|---|
| | | **Steon Ltd.** | |
| 5 | 2 x | Order No. | : 65-274-470-402 / 65-274-470-403 |
| | | Luminaire name | : Harrier Midi 70W - 4000K |
| | | Equipment | : 1 x 70W 73.6 W / 8972 lm |
| 35 | 12 x | Order No. | : !35-482-441-409 |
| | | Luminaire name | : Niko 23W LED - 4000K - Cloud Lens (1132mm) |
| | | Equipment | : 2 x 23W / 5500 lm |

## 1.1 Summary, Exterior Lighting (IP65 Extrusion) Proposed

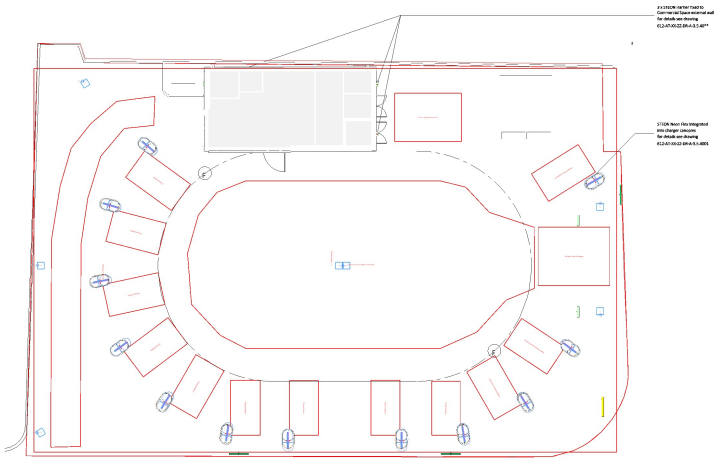
### 1.1.21 Result overview, Charger Vertical Illuminance

| | | | |
|---|---|---|---|
| | | **Steon** | |
| 31 | 7 x | Order No. | : |
| | | Luminaire name | : Metro LED 75W 4000K Asymmetrical |
| | | Equipment | : 1 x LED 74 W / 10692 lm |

Object :
Installation : Reliance Street EV Charging Bays
Project number : STP08261
Date : 20.05.2024

## 1.1 Summary, Exterior Lighting (IP65 Extrusion) Proposed

### 1.1.22 Result overview, Charger Vertical Illuminance



2 7 12 17 22 27 32 37 42 47 x [m]



0 0.1 0.15 0.2 0.3 0.5 0.75 1 1.5 2 3 5 7.5 10 15 20 30 50 75 100 150 200 300 500 750 1000 1500 2000 3000 5000 7500

Illuminance [lx]

**General**

| | |
|---|---|
| Calculation algorithm used | Average indirect fraction |
| Maintenance factor | 0.80 |
| Total luminous flux | 224788 lm |
| Total power | 965.2 W |
| Total power per area (1357.10 m²) | 0.71 W/m² |

**Illuminance**

| | | |
|---|---|---|
| Average illuminance | $\bar{E}_m$ | 86 lx |
| Minimum illuminance | $E_{min}$ | 32 lx |
| Maximum illuminance | $E_{max}$ | 166 lx |
| Uniformity $U_o$ | $E_{min}/\bar{E}_m$ | 1:2.65 (0.38) |
| Diversity $U_d$ | $E_{min}/E_{max}$ | 1:5.15 (0.19) |

**Type No.\Make**

| | | | |
|---|---|---|---|
| | | **Steon Ltd.** | |
| 5 | 2 x | Order No. | : 65-274-470-402 / 65-274-470-403 |
| | | Luminaire name | : Harrier Midi 70W - 4000K |
| | | Equipment | : 1 x 70W 73.6 W / 8972 lm |
| 35 | 12 x | Order No. | : !35-482-441-409 |
| | | Luminaire name | : Niko 23W LED - 4000K - Cloud Lens (1132mm) |
| | | Equipment | : 2 x 23W / 5500 lm |

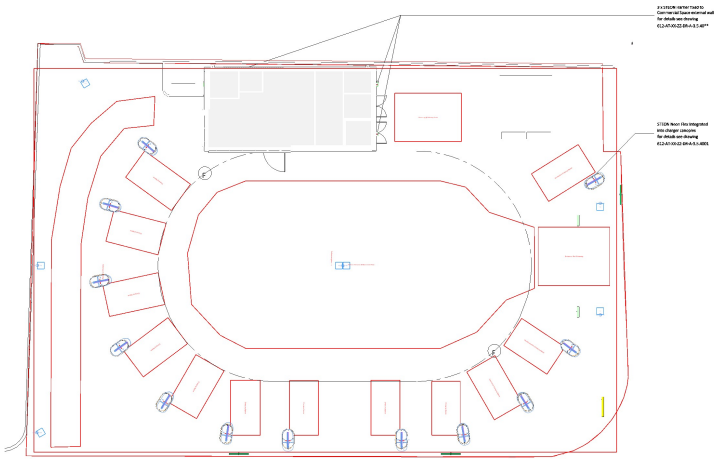
## 1.1 Summary, Exterior Lighting (IP65 Extrusion) Proposed

### 1.1.22 Result overview, Charger Vertical Illuminance

| | | | |
|---|---|---|---|
| | | **Steon** | |
| 31 | 7 x | Order No. | : |
| | | Luminaire name | : Metro LED 75W 4000K Asymmetrical |
| | | Equipment | : 1 x LED 74 W / 10692 lm |

## 1.1 Summary, Exterior Lighting (IP65 Extrusion) Proposed

### 1.1.23 Result overview, Charger Vertical Illuminance



2 7 12 17 22 27 32 37 42 47 x [m]

0 0.1 0.15 0.2 0.3 0.5 0.75 1 1.5 2 3 5 7.5 10 15 20 30 50 75 100 150 200 300 500 750 1000 1500 2000 3000 5000 7500

Illuminance [lx]

**General**

| | |
|---|---|
| Calculation algorithm used | Average indirect fraction |
| Maintenance factor | 0.80 |
| Total luminous flux | 224788 lm |
| Total power | 965.2 W |
| Total power per area (1357.10 m²) | 0.71 W/m² |

**Illuminance**

| | | |
|---|---|---|
| Average illuminance | $\bar{E}_m$ | 81 lx |
| Minimum illuminance | $E_{min}$ | 32 lx |
| Maximum illuminance | $E_{max}$ | 165 lx |
| Uniformity $U_o$ | $E_{min}/\bar{E}_m$ | 1:2.53 (0.4) |
| Diversity $U_d$ | $E_{min}/E_{max}$ | 1:5.14 (0.19) |

**Type No.\Make**

**Steon Ltd.**

5 2 x

| | |
|---|---|
| Order No. | : 65-274-470-402 / 65-274-470-403 |
| Luminaire name | : Harrier Midi 70W - 4000K |
| Equipment | : 1 x 70W 73.6 W / 8972 lm |

35 12 x

| | |
|---|---|
| Order No. | : !35-482-441-409 |
| Luminaire name | : Niko 23W LED - 4000K - Cloud Lens (1132mm) |
| Equipment | : 2 x 23W / 5500 lm |

## 1.1 Summary, Exterior Lighting (IP65 Extrusion) Proposed

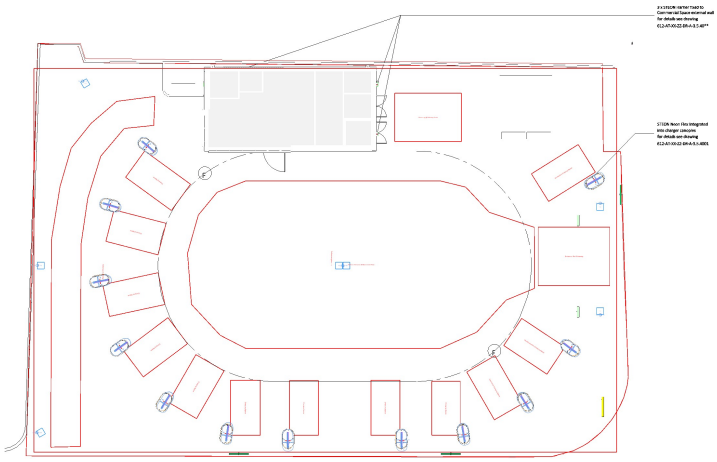
### 1.1.23 Result overview, Charger Vertical Illuminance

| | | | |
|---|---|---|---|
| | | **Steon** | |
| 31 | 7 x | Order No. | : |
| | | Luminaire name | : Metro LED 75W 4000K Asymmetrical |
| | | Equipment | : 1 x LED 74 W / 10692 lm |

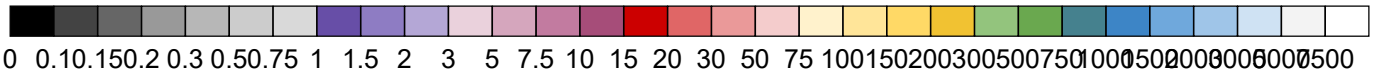
Object :
Installation : Reliance Street EV Charging Bays
Project number : STP08261
Date : 20.05.2024

## 1.1 Summary, Exterior Lighting (IP65 Extrusion) Proposed

### 1.1.24 Result overview, Charger Vertical Illuminance



2 7 12 17 22 27 32 37 42 47 x [m]



0 0.10.150.2 0.3 0.50.75 1 1.5 2 3 5 7.5 10 15 20 30 50 75 100150200300500750100015002000300050007500

Illuminance [lx]

**General**

| | |
|---|---|
| Calculation algorithm used | Average indirect fraction |
| Maintenance factor | 0.80 |
| Total luminous flux | 224788 lm |
| Total power | 965.2 W |
| Total power per area (1357.10 m²) | 0.71 W/m² |

**Illuminance**

| | | |
|---|---|---|
| Average illuminance | $\bar{E}_m$ | 88 lx |
| Minimum illuminance | $E_{min}$ | 39 lx |
| Maximum illuminance | $E_{max}$ | 165 lx |
| Uniformity $U_o$ | $E_{min}/\bar{E}_m$ | 1:2.26 (0.44) |
| Diversity $U_d$ | $E_{min}/E_{max}$ | 1:4.24 (0.24) |

**Type No.\Make**

5 2 x **Steon Ltd.**
Order No. : 65-274-470-402 / 65-274-470-403
Luminaire name : Harrier Midi 70W - 4000K
Equipment : 1 x 70W 73.6 W / 8972 lm

35 12 x Order No. : !35-482-441-409
Luminaire name : Niko 23W LED - 4000K - Cloud Lens (1132mm)
Equipment : 2 x 23W / 5500 lm

## 1.1 Summary, Exterior Lighting (IP65 Extrusion) Proposed

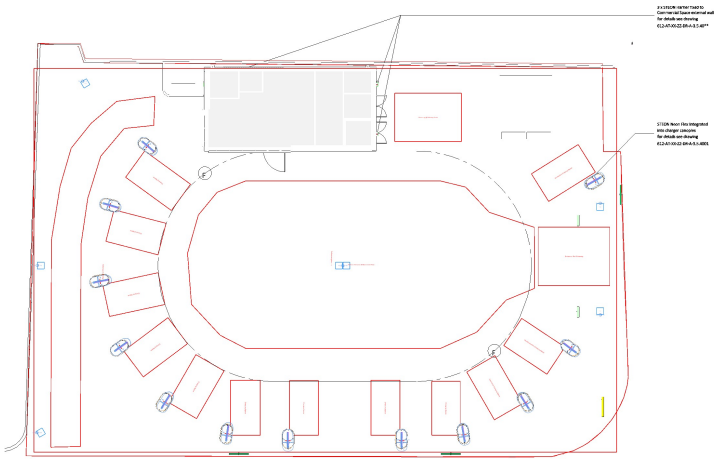
### 1.1.24 Result overview, Charger Vertical Illuminance

| | | | |
|---|---|---|---|
| | | **Steon** | |
| 31 | 7 x | Order No. | : |
| | | Luminaire name | : Metro LED 75W 4000K Asymmetrical |
| | | Equipment | : 1 x LED 74 W / 10692 lm |

Object :
Installation : Reliance Street EV Charging Bays
Project number : STP08261
Date : 20.05.2024

## 1.1 Summary, Exterior Lighting (IP65 Extrusion) Proposed

### 1.1.25 Result overview, Charger Vertical Illuminance



2 7 12 17 22 27 32 37 42 47 x [m]



0 0.1 0.15 0.2 0.3 0.5 0.75 1 1.5 2 3 5 7.5 10 15 20 30 50 75 100 150 200 300 500 750 1000 1500 2000 3000 5000 7500

Illuminance [lx]

**General**

| | |
|---|---|
| Calculation algorithm used | Average indirect fraction |
| Maintenance factor | 0.80 |
| Total luminous flux | 224788 lm |
| Total power | 965.2 W |
| Total power per area (1357.10 m²) | 0.71 W/m² |

**Illuminance**

| | | |
|---|---|---|
| Average illuminance | $\bar{E}_m$ | 85 lx |
| Minimum illuminance | $E_{min}$ | 35 lx |
| Maximum illuminance | $E_{max}$ | 164 lx |
| Uniformity $U_o$ | $E_{min}/\bar{E}_m$ | 1:2.46 (0.41) |
| Diversity $U_d$ | $E_{min}/E_{max}$ | 1:4.72 (0.21) |

**Type No.\Make**

| | | | |
|---|---|---|---|
| | | **Steon Ltd.** | |
| 5 | 2 x | Order No. | : 65-274-470-402 / 65-274-470-403 |
| | | Luminaire name | : Harrier Midi 70W - 4000K |
| | | Equipment | : 1 x 70W 73.6 W / 8972 lm |
| 35 | 12 x | Order No. | : !35-482-441-409 |
| | | Luminaire name | : Niko 23W LED - 4000K - Cloud Lens (1132mm) |
| | | Equipment | : 2 x 23W / 5500 lm |

## 1.1 Summary, Exterior Lighting (IP65 Extrusion) Proposed

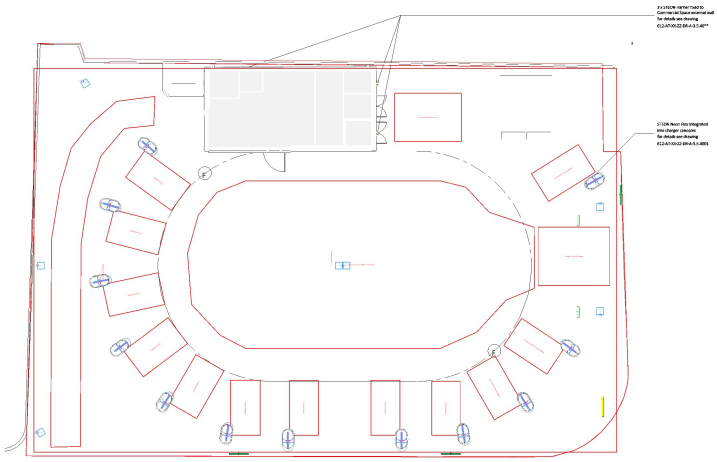
### 1.1.25 Result overview, Charger Vertical Illuminance

| | | | |
|---|---|---|---|
| | | **Steon** | |
| 31 | 7 x | Order No. | : |
| | | Luminaire name | : Metro LED 75W 4000K Asymmetrical |
| | | Equipment | : 1 x LED 74 W / 10692 lm |

Object :
Installation : Reliance Street EV Charging Bays
Project number : STP08261
Date : 20.05.2024

## 1.1 Summary, Exterior Lighting (IP65 Extrusion) Proposed

### 1.1.26 Result overview, Charger Vertical Illuminance



2 7 12 17 22 27 32 37 42 47 x [m]



0 0.1 0.15 0.2 0.3 0.5 0.75 1 1.5 2 3 5 7.5 10 15 20 30 50 75 100 150 200 300 500 750 1000 1500 2000 3000 5000 7500

Illuminance [lx]

**General**

| | |
|---|---|
| Calculation algorithm used | Average indirect fraction |
| Maintenance factor | 0.80 |
| Total luminous flux | 224788 lm |
| Total power | 965.2 W |
| Total power per area (1357.10 m²) | 0.71 W/m² |

**Illuminance**

| | | |
|---|---|---|
| Average illuminance | $\bar{E}_m$ | 90 lx |
| Minimum illuminance | $E_{min}$ | 46 lx |
| Maximum illuminance | $E_{max}$ | 167 lx |
| Uniformity $U_o$ | $E_{min}/\bar{E}_m$ | 1:1.96 (0.51) |
| Diversity $U_d$ | $E_{min}/E_{max}$ | 1:3.65 (0.27) |

**Type No.\Make**

| | | | |
|---|---|---|---|
| | | **Steon Ltd.** | |
| 5 | 2 x | Order No. | : 65-274-470-402 / 65-274-470-403 |
| | | Luminaire name | : Harrier Midi 70W - 4000K |
| | | Equipment | : 1 x 70W 73.6 W / 8972 lm |
| 35 | 12 x | Order No. | : !35-482-441-409 |
| | | Luminaire name | : Niko 23W LED - 4000K - Cloud Lens (1132mm) |
| | | Equipment | : 2 x 23W / 5500 lm |

## 1.1 Summary, Exterior Lighting (IP65 Extrusion) Proposed

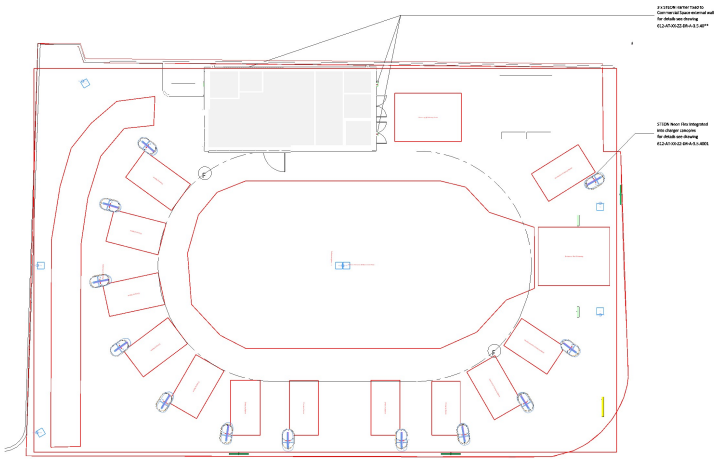
### 1.1.26 Result overview, Charger Vertical Illuminance

| | | | |
|---|---|---|---|
| | | **Steon** | |
| 31 | 7 x | Order No. | : |
| | | Luminaire name | : Metro LED 75W 4000K Asymmetrical |
| | | Equipment | : 1 x LED 74 W / 10692 lm |

Object :
Installation : Reliance Street EV Charging Bays
Project number : STP08261
Date : 20.05.2024

## 1.1 Summary, Exterior Lighting (IP65 Extrusion) Proposed

### 1.1.27 Result overview, Charger Vertical Illuminance



2 7 12 17 22 27 32 37 42 47 x [m]



0 0.1 0.15 0.2 0.3 0.5 0.75 1 1.5 2 3 5 7.5 10 15 20 30 50 75 100 150 200 300 500 750 1000 1500 2000 3000 5000 7500

Illuminance [lx]

**General**

| | |
|---|---|
| Calculation algorithm used | Average indirect fraction |
| Maintenance factor | 0.80 |
| Total luminous flux | 224788 lm |
| Total power | 965.2 W |
| Total power per area (1357.10 m²) | 0.71 W/m² |

**Illuminance**

| | | |
|---|---|---|
| Average illuminance | $\bar{E}_m$ | 83 lx |
| Minimum illuminance | $E_{min}$ | 30 lx |
| Maximum illuminance | $E_{max}$ | 164 lx |
| Uniformity $U_o$ | $E_{min}/\bar{E}_m$ | 1:2.77 (0.36) |
| Diversity $U_d$ | $E_{min}/E_{max}$ | 1:5.49 (0.18) |

**Type No.\Make**

5 2 x **Steon Ltd.**
Order No. : 65-274-470-402 / 65-274-470-403
Luminaire name : Harrier Midi 70W - 4000K
Equipment : 1 x 70W 73.6 W / 8972 lm

35 12 x Order No. : !35-482-441-409
Luminaire name : Niko 23W LED - 4000K - Cloud Lens (1132mm)
Equipment : 2 x 23W / 5500 lm

## 1.1 Summary, Exterior Lighting (IP65 Extrusion) Proposed

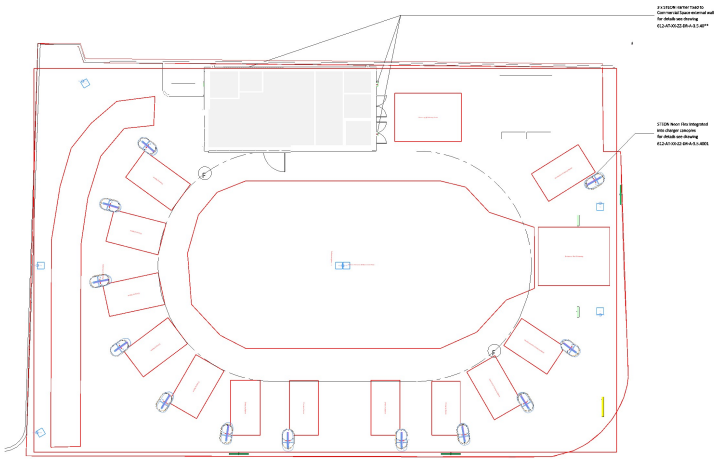
### 1.1.27 Result overview, Charger Vertical Illuminance

| | | | |
|---|---|---|---|
| | | **Steon** | |
| 31 | 7 x | Order No. | : |
| | | Luminaire name | : Metro LED 75W 4000K Asymmetrical |
| | | Equipment | : 1 x LED 74 W / 10692 lm |

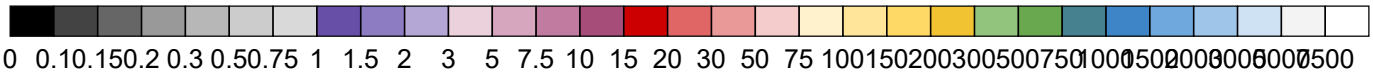
Object :
Installation : Reliance Street EV Charging Bays
Project number : STP08261
Date : 20.05.2024

## 1.1 Summary, Exterior Lighting (IP65 Extrusion) Proposed

### 1.1.28 Result overview, Charger Vertical Illuminance



2 7 12 17 22 27 32 37 42 47 x [m]



0 0.10.150.2 0.3 0.50.75 1 1.5 2 3 5 7.5 10 15 20 30 50 75 100150200300500750100015002000300050007500

Illuminance [lx]

**General**

| | |
|---|---|
| Calculation algorithm used | Average indirect fraction |
| Maintenance factor | 0.80 |
| Total luminous flux | 224788 lm |
| Total power | 965.2 W |
| Total power per area (1357.10 m²) | 0.71 W/m² |

**Illuminance**

| | | |
|---|---|---|
| Average illuminance | $\bar{E}_m$ | 93 lx |
| Minimum illuminance | $E_{min}$ | 43 lx |
| Maximum illuminance | $E_{max}$ | 175 lx |
| Uniformity $U_o$ | $E_{min}/\bar{E}_m$ | 1:2.15 (0.46) |
| Diversity $U_d$ | $E_{min}/E_{max}$ | 1:4.03 (0.25) |

**Type No.\Make**

| | | | |
|---|---|---|---|
| | | **Steon Ltd.** | |
| 5 | 2 x | Order No. | : 65-274-470-402 / 65-274-470-403 |
| | | Luminaire name | : Harrier Midi 70W - 4000K |
| | | Equipment | : 1 x 70W 73.6 W / 8972 lm |
| 35 | 12 x | Order No. | : !35-482-441-409 |
| | | Luminaire name | : Niko 23W LED - 4000K - Cloud Lens (1132mm) |
| | | Equipment | : 2 x 23W / 5500 lm |

## 1.1 Summary, Exterior Lighting (IP65 Extrusion) Proposed

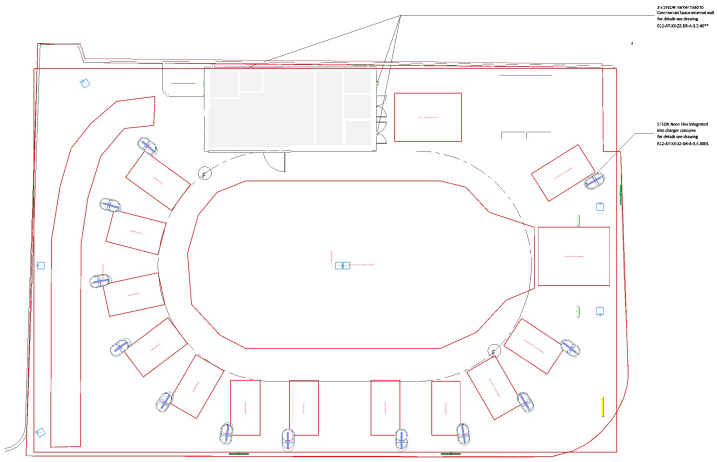
### 1.1.28 Result overview, Charger Vertical Illuminance

| | | | |
|---|---|---|---|
| | | **Steon** | |
| 31 | 7 x | Order No. | : |
| | | Luminaire name | : Metro LED 75W 4000K Asymmetrical |
| | | Equipment | : 1 x LED 74 W / 10692 lm |

Object :
Installation : Reliance Street EV Charging Bays
Project number : STP08261
Date : 20.05.2024

## 1.1 Summary, Exterior Lighting (IP65 Extrusion) Proposed

### 1.1.29 Result overview, Charger Vertical Illuminance



2 7 12 17 22 27 32 37 42 47 x [m]



0 0.1 0.15 0.2 0.3 0.5 0.75 1 1.5 2 3 5 7.5 10 15 20 30 50 75 100 150 200 300 500 750 1000 1500 2000 3000 5000 7500

Illuminance [lx]

**General**

| | |
|---|---|
| Calculation algorithm used | Average indirect fraction |
| Maintenance factor | 0.80 |
| Total luminous flux | 224788 lm |
| Total power | 965.2 W |
| Total power per area (1357.10 m²) | 0.71 W/m² |

**Illuminance**

| | | |
|---|---|---|
| Average illuminance | $\bar{E}_m$ | 80 lx |
| Minimum illuminance | $E_{min}$ | 36 lx |
| Maximum illuminance | $E_{max}$ | 161 lx |
| Uniformity $U_o$ | $E_{min}/\bar{E}_m$ | 1:2.2 (0.46) |
| Diversity $U_d$ | $E_{min}/E_{max}$ | 1:4.4 (0.23) |

**Type No.\Make**

| | | | |
|---|---|---|---|
| | | **Steon Ltd.** | |
| 5 | 2 x | Order No. | : 65-274-470-402 / 65-274-470-403 |
| | | Luminaire name | : Harrier Midi 70W - 4000K |
| | | Equipment | : 1 x 70W 73.6 W / 8972 lm |
| 35 | 12 x | Order No. | : !35-482-441-409 |
| | | Luminaire name | : Niko 23W LED - 4000K - Cloud Lens (1132mm) |
| | | Equipment | : 2 x 23W / 5500 lm |

## 1.1 Summary, Exterior Lighting (IP65 Extrusion) Proposed

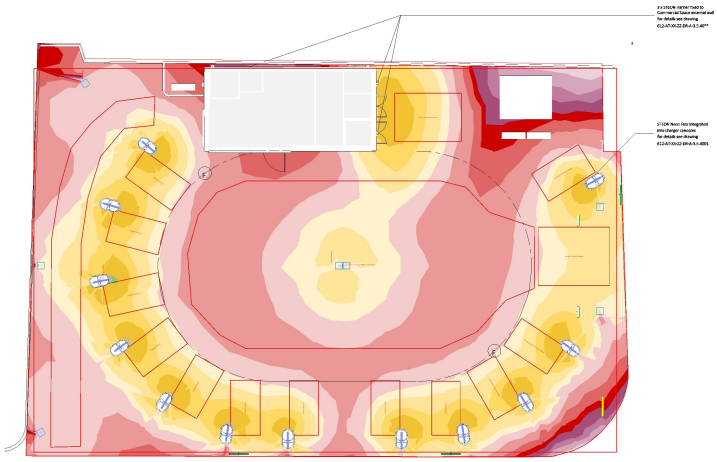
### 1.1.29 Result overview, Charger Vertical Illuminance

| | | | |
|---|---|---|---|
| | | **Steon** | |
| 31 | 7 x | Order No. | : |
| | | Luminaire name | : Metro LED 75W 4000K Asymmetrical |
| | | Equipment | : 1 x LED 74 W / 10692 lm |

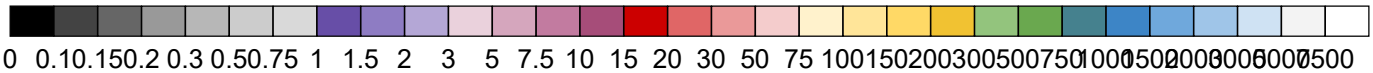
Object :
Installation : Reliance Street EV Charging Bays
Project number : STP08261
Date : 20.05.2024

## 1.1 Summary, Exterior Lighting (IP65 Extrusion) Proposed

### 1.1.30 Result overview, Evaluation area 1



2 7 12 17 22 27 32 37 42 47 x [m]



0 0.10.150.2 0.3 0.50.75 1 1.5 2 3 5 7.5 10 15 20 30 50 75 100150200300500750100015002000300050007500

Illuminance [lx]

**General**

| | |
|---|---|
| Calculation algorithm used | Average indirect fraction |
| Maintenance factor | 0.80 |
| Total luminous flux | 224788.00 lm |
| Total power | 965.2 W |
| Total power per area (1357.10 m²) | 0.71 W/m² (0.90 W/m²/100lx) |

| **Evaluation area 1** | **Reference plane 1.1** |
|---|---|
| | Horizontal |
| $\bar{E}_m$ | 78.6 lx |
| $E_{min}$ | 4.9 lx |
| $E_{min}/\bar{E}_m$ ($U_o$) | 0.06 |
| $E_{min}/E_{max}$ ($U_d$) | 0.02 |
| Position | 0.00 m |

**Type No.\Make**

| | | | |
|---|---|---|---|
| | | **Steon Ltd.** | |
| 5 | 2 x | Order No. | : 65-274-470-402 / 65-274-470-403 |
| | | Luminaire name | : Harrier Midi 70W - 4000K |
| | | Equipment | : 1 x 70W 73.6 W / 8972 lm |
| 35 | 12 x | Order No. | : !35-482-441-409 |
| | | Luminaire name | : Niko 23W LED - 4000K - Cloud Lens (1132mm) |
| | | Equipment | : 2 x 23W / 5500 lm |

## 1.1 Summary, Exterior Lighting (IP65 Extrusion) Proposed

### 1.1.30 Result overview, Evaluation area 1

| | | | |
|---|---|---|---|
| | | **Steon** | |
| 31 | 7 x | Order No. | : |
| | | Luminaire name | : Metro LED 75W 4000K Asymmetrical |
| | | Equipment | : 1 x LED 74 W / 10692 lm |