OFFICE: open plan office

Installation: Quadrature 2 LED

Project number: Sample projection
Customer: 
Processed by: Siteco Light Consulting (GI S PJS LC)
Date: 16.07.2013

Project description:
spatial geometry (L*W*H): 12,15m*13,5m*2,80m
reflection values (C*W*F): 70*50*20
maintenance factor: 0,8
user surface area (H): 0,75m

norms: Appraisal of results on DIN EN 12464-1:2011 und ASR A3.4
luminaires: Quadrature 2 LED

specifics:

The following values are based on exact calculations on calibrated lamps, luminaires and their arrangement. In practice, gradual divergences can occur.

Guarantee claims for luminaire data are excluded.

Relux and the luminaire manufacturers accept no liability for consequential damage and damage which is occasioned to the user or to third parties.
1 Luminaire data

1.1 Siteco, Quadrature 2 LED (5MQ118DL4P)

1.1.1 Data sheet

Manufacturer: Siteco

<table>
<thead>
<tr>
<th>Luminaire data</th>
<th>Equipped with</th>
</tr>
</thead>
<tbody>
<tr>
<td>Luminaire efficiency</td>
<td>Quantity</td>
</tr>
<tr>
<td>Luminaire efficacy</td>
<td>1</td>
</tr>
<tr>
<td>Classification</td>
<td>Designation: LED 4000K / CRI &gt;= 80</td>
</tr>
<tr>
<td>CIE Flux Codes</td>
<td>Colour</td>
</tr>
<tr>
<td>UGR 4H 8H (20%, 50%, 70%)</td>
<td>Luminous flux: 4440 lm</td>
</tr>
<tr>
<td>C0 / C90</td>
<td></td>
</tr>
<tr>
<td>Control gear</td>
<td></td>
</tr>
<tr>
<td>System power</td>
<td></td>
</tr>
<tr>
<td>Length</td>
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<tr>
<td>Width</td>
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<td>Height</td>
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</table>

5MQ118DL4P Quadrature 2 LED
2 Quadrature 2 LED® - orthogonal - 74W

2.1 Description, Quadrature 2 LED® - orthogonal - 74W

2.1.1 Floor plan

<table>
<thead>
<tr>
<th>Object</th>
<th>Installation</th>
<th>Project number</th>
<th>Date</th>
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<tbody>
<tr>
<td>OFFICE: open plan office</td>
<td>Quadrature 2 LED</td>
<td>Sample projection</td>
<td>16.07.2013</td>
</tr>
</tbody>
</table>

Room data:
- W1: 13.50
- W2: 12.15
- W3: 13.50
- W4: 12.15
- W5: ----
- W6: ----
- Floor: ----
- Ceiling: ----

Reflectance:
- W1: 50.0 %
- W2: 50.0 %
- W3: 50.0 %
- W4: 50.0 %
- W5: ----
- W6: ----
- Floor: 20.0 %
- Ceiling: 70.0 %

Structural elements:
- Pi: Pillar
- Tr: Partition
- Wo: Real working surface
- m: Virtual measuring area
- S: Virtual measuring area
- W: Picture
- Wi: Window
- DF: Door
- F: Furniture

Room height [m]: 2.80
Height of reference plane [m]: 0.75
Height of luminaire plane [m]: 2.80
2 Quadrature 2 LED® - orthogonal - 74W

2.2 Summary, Quadrature 2 LED® - orthogonal - 74W

2.2.1 Result overview, ASR A3.4 2party: workplace (Eh:500lx/g0:0.6)

Object : OFFICE: open plan office
Installation : Quadrature 2 LED
Project number : Sample projection
Date : 16.07.2013

<table>
<thead>
<tr>
<th>Object</th>
<th>Installation</th>
<th>Project number</th>
<th>Date</th>
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</thead>
<tbody>
<tr>
<td>OFFICE: open plan office</td>
<td>Quadrature 2 LED</td>
<td>Sample projection</td>
<td>16.07.2013</td>
</tr>
</tbody>
</table>

Siteco Beleuchtungstechnik GmbH
Georg-Simon-Ohm-Straße 50, 83301 Traunreut

---

Illuminance [lx]

**General**
- Calculation algorithm used: High indirect fraction
- Height of evaluation surface: 0.75 m
- Height of luminaire plane: 2.80 m
- Maintenance factor: 0.80
- Total luminous flux of all lamps: 213120 lm
- Total power: 3528 W
- Total power per area (164.02 m²): 21.51 W/m²

**Illuminance**

**ASR A3.4 2party: workplace (Eh:500lx/g0:0.6)**
- Average value: Em 1260 lx, Emin 1170 lx
- Uniformity Uo: Emin/Em 1:1.08 (0.93)
- Ratio cylindrical/horizontal: Ec/Eh >=0.41

**ASR A3.4 background (Eh:300lx/g0:0.5)**
- Average value: Em 1200 lx
- Minimum: Emin 739 lx
- Uniformity Uo: Emin/Em 1:1.62 (0.62)

**Type No./Make**

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Order No. : 5MQ118DL4P
Luminaire name : Quadrature 2 LED
Equipment : 1 x LED 4000K / CRI >= 80 / 4440 lm
2.2 Summary, Quadrature 2 LED® - orthogonal - 74W

2.2.2 Result overview, ASR A3.4 4party: workplace (Eh:500lx/g0:0,6)

Object
Installation
Project number
Date
OFFICE: open plan office
Quadrature 2 LED
Sample projection
16.07.2013

---

**General**
- Calculation algorithm used: High indirect fraction
- Height of evaluation surface: 0.75 m
- Height of luminaire plane: 2.80 m
- Maintenance factor: 0.80

**Total luminous flux of all lamps**: 213120 lm
**Total power**: 3528 W
**Total power per area (164.02 m²)**: 21.51 W/m²

**Illuminance**

**ASR A3.4 4party: workplace (Eh:500lx/g0:0,6)**
- Horizontal (0.75 m)
  - Average value: 1200 lx
  - Minimum: 905 lx
  - Uniformity Uo: 1:1.33 (0.75)
  - Ratio cylindrical/horizontal: Ec/Eh >=0.39
- Cylindrical (1.20 m)
  - Average value: 594 lx
  - Minimum: 401 lx
  - Uniformity Uo: 1:1.48 (0.68)

**ASR A3.4 background (Eh:300lx/g0:0,5)**
- Horizontal (0.75 m)
  - Average value: 1200 lx
  - Minimum: 739 lx
  - Uniformity Uo: 1:1.62 (0.62)

**Type No./Make**

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Order No.: 5MQ118DL4P
Luminaire name: Quadrature 2 LED
Equipment: 1 x LED 4000K / CRI >= 80 / 4440 lm
2.2 Summary, Quadrature 2 LED® - orthogonal - 74W

2.2.3 Result overview, DIN EN12464: 2 party (Eh:500lx/g0:0,6)

<table>
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<th>Object</th>
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<tbody>
<tr>
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<tr>
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</tbody>
</table>

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Georg-Simon-Ohm-Straße 50, 83301 Traunreut

2.2.3 Result overview, DIN EN12464: 2 party (Eh:500lx/g0:0,6)

**General**
- Calculation algorithm used: High indirect fraction
- Height of evaluation surface: 0.75 m
- Height of luminaire plane: 2.80 m
- Maintenance factor: 0.80

- Total luminous flux of all lamps: 213120 lm
- Total power: 3528 W
- Total power per area (164.02 m²): 21.51 W/m²

**Illuminance**

**DIN EN12464: 2 party (Eh:500lx/g0:0,6)**
- Average value: Em 1260 lx, Emín 1190 lx
- Uniformity Uo: Emín/Em 1:1.06 (0.94)
- Ratio cylindrical/horizontal: Ec/Eh >=0.44

**DIN EN12464: 2 party: surrounding (Eh:300lx/g0:0,4)**
- Average value: Em 1340 lx, Emín 1180 lx
- Uniformity Uo: Emín/Em 1:1.14 (0.88)

**Type No.\Make**

1  48  Order No.: 5MQ118DL4P  
Luminaire name: Quadrature 2 LED  
Equipment: 1 x LED 4000K / CRI >= 80 / 4440 lm
2.2 Summary, Quadrature 2 LED® - orthogonal - 74W

2.2.4 Result overview, DIN EN12464: 2 party: surrounding (Eh:300lx/g0:0,4)

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</table>

**General**
- Calculation algorithm used: High indirect fraction
- Height of evaluation surface: 0.75 m
- Height of luminaire plane: 2.80 m
- Maintenance factor: 0.80
- Total luminous flux of all lamps: 213120 lm
- Total power: 3528 W
- Total power per area (164.02 m²): 21.51 W/m²

**Illuminance**

**DIN EN12464: 2 party: surrounding (Eh:300lx/g0:0,4)**
- Average value: Em 1310 lx
- Minimum: Emin 1170 lx
- Uniformity Uo: Emin/Em 1:1.12 (0.9)

**DIN EN12464: 2 party: background (Eh:100lx/g0:0,1)**
- Average value: Em 1240 lx
- Minimum: Emin 893 lx
- Uniformity Uo: Emin/Em 1:1.38 (0.72)

**Type No.\Make**

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<tr>
<td>Equipment: 1 x LED 4000K / CRI &gt;= 80 / 4440 lm</td>
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</table>
2.2 Summary, Quadrature 2 LED® - orthogonal - 74W

2.2.5 Result overview, DIN EN12464: 4 party: visual task (Eh:500lx/g0:0,6)

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<td>Quadrature 2 LED</td>
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<tr>
<td>Date</td>
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</table>

![Diagram of the installation site]

General
- Calculation algorithm used: High indirect fraction
- Height of evaluation surface: 0.75 m
- Height of luminaire plane: 2.80 m
- Maintenance factor: 0.80
- Total luminous flux of all lamps: 213120 lm
- Total power: 3528 W
- Total power per area (164.02 m²): 21.51 W/m²

**Illuminance**

**DIN EN12464: 4 party: visual task (Eh:500lx/g0:0,6)**
- Average value: 1190 lx
- Minimum: 900 lx
- Uniformity Uo: 1:1.32 (0.76)
- Ratio cylindrical/horizontal: Ec/Eh >=0.4

**DIN EN12464: 4 party: surrounding (Eh:300lx/g0:0,4)**
- Average value: 1240 lx
- Minimum: 970 lx
- Uniformity Uo: 1:1.28 (0.78)

**Type** | **No.** | **Make**
---|---|---
1 | 48 | Siteco

Order No.: 5MQ118DL4P
Luminaire name: Quadrature 2 LED
Equipment: 1 x LED 4000K / CRI >= 80 / 4440 lm
2.2 Summary, Quadrature 2 LED® - orthogonal - 74W

2.2.6 Result overview, DIN EN12464: 4 party: surrounding (Eh:300lx/g0:0.4)

<table>
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<th>Installation</th>
<th>Project number</th>
<th>Date</th>
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<tbody>
<tr>
<td>OFFICE: open plan office</td>
<td>Quadrature 2 LED</td>
<td>Sample projection</td>
<td>16.07.2013</td>
</tr>
</tbody>
</table>

**General**
- Calculation algorithm used: High indirect fraction
- Height of evaluation surface: 0.75 m
- Height of luminaire plane: 2.80 m
- Maintenance factor: 0.80
- Total luminous flux of all lamps: 213120 lm
- Total power: 3528 W
- Total power per area (164.02 m²): 21.51 W/m²

**Illuminance**
- Average illuminance (Eav): 1240 lx
- Minimum illuminance (Emin): 970 lx
- Maximum illuminance (Emax): 1330 lx
- Uniformity Uo (Emin/Em): 1:1.28 (0.78)
- Uniformity g2 (Emin/Emax): 1:1.37 (0.73)

**Type No./Make**

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<tbody>
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<td>Order No.</td>
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<tr>
<td>Luminaire name</td>
<td>Quadrature 2 LED</td>
</tr>
<tr>
<td>Equipment</td>
<td>1 x LED 4000K / CRI &gt;= 80 / 4440 lm</td>
</tr>
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</table>
2.2 Summary, Quadrature 2 LED® - orthogonal - 74W

2.2.7 Result overview, DIN EN12464: 4 party: background (Eh:100lx/g0:0,1)

<table>
<thead>
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<th>Object</th>
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<tbody>
<tr>
<td>Installation</td>
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</tr>
<tr>
<td>Project number</td>
<td>Sample projection</td>
</tr>
<tr>
<td>Date</td>
<td>16.07.2013</td>
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</tbody>
</table>

---

General
Calculation algorithm used: High indirect fraction
Height of evaluation surface: 0.75 m
Height of luminaire plane: 2.80 m
Maintenance factor: 0.80
Total luminous flux of all lamps: 213120 lm
Total power: 3528 W
Total power per area (164.02 m²): 21.51 W/m²

Illuminance
Average illuminance (Eav): 1260 lx
Minimum illuminance (Emin): 903 lx
Maximum illuminance (Emax): 1670 lx
Uniformity Uo: Emin/Em = 1:1.4 (0.72)
Uniformity g2: Emin/Emax = 1:1.85 (0.54)

Type No.

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<tr>
<th>Type</th>
<th>No.</th>
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<tbody>
<tr>
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<tr>
<td>Equipment</td>
<td>: 1 x LED 4000K / CRI &gt;= 80 / 4440 lm</td>
<td></td>
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</tbody>
</table>
2.2 Summary, Quadrature 2 LED® - orthogonal - 74W

2.2.8 Result overview, DIN EN12464-1 small kitchen (Eh:200lx/g0:0.4)

Object: OFFICE: open plan office
Installation: Quadrature 2 LED
Project number: Sample projection
Date: 16.07.2013

General
Calculation algorithm used: High indirect fraction
Height of evaluation surface: 0.75 m
Height of luminaire plane: 2.80 m
Maintenance factor: 0.80
Total luminous flux of all lamps: 213120 lm
Total power: 3528 W
Total power per area (164.02 m²): 21.51 W/m²

Illuminance
Average illuminance: Eav 1150 lx
Minimum illuminance: Emin 760 lx
Maximum illuminance: Emax 1340 lx
Uniformity U₀: Emin/Em 1:1.51 (0.66)
Uniformity g2: Emin/Emax 1:1.76 (0.57)

Type No. Make
1 48 Order No.: 5MQ118DL4P
Luminaire name: Quadrature 2 LED
Equipment: 1 x LED 4000K / CRI >= 80 / 4440 lm
2.2 Summary, Quadrature 2 LED® - orthogonal - 74W

2.2.9 Result overview, DIN EN12464-1 route way (Eh:100lx/g0:0.4)

Object: OFFICE: open plan office
Installation: Quadrature 2 LED
Project number: Sample projection
Date: 16.07.2013

---

**General**

- Calculation algorithm used: High indirect fraction
- Height of evaluation surface: 0.20 m
- Height of luminaire plane: 2.80 m
- Maintenance factor: 0.80
- Total luminous flux of all lamps: 213120 lm
- Total power: 3528 W
- Total power per area (164.02 m²): 21.51 W/m²

**Illuminance**

- Average illuminance: Eav 1240 lx
- Minimum illuminance: Emin 989 lx
- Maximum illuminance: Emax 1430 lx
- Uniformity U₀: Emin/Em 1:1.25 (0.8)
- Uniformity g₂: Emin/Emax 1:1.45 (0.69)

**Type No. \ Make**

<table>
<thead>
<tr>
<th>Siteco</th>
<th>Order No.</th>
<th>Luminaire name</th>
<th>Equipment</th>
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<td>1 48</td>
<td>5MQ118DL4P</td>
<td>Quadrature 2 LED</td>
<td>1 x LED 4000K / CRI &gt;= 80 / 4440 lm</td>
</tr>
</tbody>
</table>
2.2 Summary, Quadrature 2 LED® - orthogonal - 74W

2.2.10 Result overview, DIN EN12464-1 space related illumination (Eh:500lx/g0:0.6)

Object: OFFICE: open plan office
Installation: Quadrature 2 LED
Project number: Sample projection
Date: 16.07.2013

![Diagram of office layout showing illumination levels]

**General**
- Calculation algorithm used: High indirect fraction
- Height of evaluation surface: 0.75 m
- Height of luminaire plane: 2.80 m
- Maintenance factor: 0.80
- Total luminous flux of all lamps: 213120 lm
- Total power: 3528 W
- Total power per area (164.02 m²): 21.51 W/m²

**Illuminance**
- Average illuminance (Eav): 1200 lx
- Minimum illuminance (Emin): 739 lx
- Maximum illuminance (Emax): 1670 lx
- Uniformity Uo (Emin/Em): 1:1.62 (0.62)
- Uniformity g2 (Emin/Emax): 1:2.27 (0.44)

**Type No.\Make**

<table>
<thead>
<tr>
<th>Siteco</th>
<th>1 48 Order No.</th>
<th>5MQ118DL4P</th>
</tr>
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<td>Quadrature 2 LED</td>
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<tr>
<td>Equipment</td>
<td>1 x LED 4000K / CRI &gt;= 80 / 4440 lm</td>
<td></td>
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</tbody>
</table>
2.2 Summary, Quadrature 2 LED® - orthogonal - 74W

2.2.11 Result overview, DIN EN12464-1 ceiling (Eh:50lx/g0:0.1)

Object: OFFICE: open plan office
Installation: Quadrature 2 LED
Project number: Sample projection
Date: 16.07.2013

---

**General**
- Calculation algorithm used: High indirect fraction
- Height of luminaire plane: 2.80 m
- Maintenance factor: 0.80

**Illuminance**
- Average illuminance $E_{av}$: 435 lx
- Minimum illuminance $E_{min}$: 268 lx
- Maximum illuminance $E_{max}$: 580 lx
- Uniformity $U_0$: $E_{min}/E_{max}$ 1:1.62 (0.62)
- Uniformity $g_2$: $E_{min}/E_{max}$ 1:2.16 (0.46)

**Type No.\Make**

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<td>Quadrature 2 LED</td>
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<tr>
<td>Equipment</td>
<td>1 x LED 4000K / CRI $\geq$ 80 / 4440 lm</td>
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</table>
2.2 Summary, Quadrature 2 LED® - orthogonal - 74W

2.2.12 Result overview, DIN EN12464-1 wall left (Ev:75lx/g0:0,1)

<table>
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<th>OFFICE: open plan office</th>
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<tbody>
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<td>Project number</td>
<td>Sample projection</td>
</tr>
<tr>
<td>Date</td>
<td>16.07.2013</td>
</tr>
</tbody>
</table>

General
- Calculation algorithm used: High indirect fraction
- Height of luminaire plane: 2.80 m
- Maintenance factor: 0.80
- Total luminous flux of all lamps: 213120 lm
- Total power: 3528 W
- Total power per area (164.02 m²): 21.51 W/m²

Illuminance
- Average illuminance (Eav): 633 lx
- Minimum illuminance (Emin): 345 lx
- Maximum illuminance (Emax): 963 lx
- Uniformity Uo (Emin/Emax): 1:1.84 (0.54)
- Uniformity g2 (Emin/Emax): 1:2.8 (0.36)

Type

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<td>Equipment: 1 x LED 4000K / CRI &gt;= 80 / 4440 lm</td>
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</table>
2.2 Summary, Quadrature 2 LED® - orthogonal - 74W

2.2.13 Result overview, DIN EN12464-1 shelf below left (Ev:175lx/g0:0,5)

<table>
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<th>Installation</th>
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<td>OFFICE: open plan office</td>
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<td>16.07.2013</td>
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</tbody>
</table>

Siteco Beleuchtungstechnik GmbH
Georg-Simon-Ohm-Straße 50, 83301 Traunreut

**General**
- Calculation algorithm used: High indirect fraction
- Height of luminaire plane: 2.80 m
- Maintenance factor: 0.80
- Total luminous flux of all lamps: 213120 lm
- Total power: 3528 W
- Total power per area (164.02 m²): 21.51 W/m²

**Illuminance**
- Average illuminance (Eav): 427 lx
- Minimum illuminance (Emin): 329 lx
- Maximum illuminance (Emax): 497 lx
- Uniformity Uo (Emin/Em): 1:1.3 (0.77)
- Uniformity g2 (Emin/Emax): 1:1.51 (0.66)

**Type No.\Make**

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2.2 Summary, Quadrature 2 LED® - orthogonal - 74W

2.2.14 Result overview, DIN EN12464-1 shelf below center (Ev:175lx/g0:0,5)

Object: OFFICE: open plan office
Installation: Quadrature 2 LED
Project number: Sample projection
Date: 16.07.2013

Siteco Beleuchtungstechnik GmbH
Georg-Simon-Ohm-Straße 50, 83301 Traunreut

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**2.2 Summary, Quadrature 2 LED® - orthogonal - 74W**

**2.2.14 Result overview, DIN EN12464-1 shelf below center (Ev:175lx/g0:0,5)**

- **Object:** OFFICE: open plan office
- **Installation:** Quadrature 2 LED
- **Project number:** Sample projection
- **Date:** 16.07.2013

![Diagram of illuminance distribution](image)

**General**
- Calculation algorithm used: High indirect fraction
- Height of luminaire plane: 2.80 m
- Maintenance factor: 0.80

- **Total luminous flux of all lamps:** 213120 lm
- **Total power:** 3528 W
- **Total power per area (164.02 m²):** 21.51 W/m²

**Illuminance**
- Average illuminance: Eav: 505 lx
- Minimum illuminance: Emin: 345 lx
- Maximum illuminance: Emax: 662 lx
- Uniformity Uo: Emin/Em = 1:1.46 (0.68)
- Uniformity g2: Emin/Emax = 1:1.92 (0.52)

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- **Order No.:** 5MQ118DL4P
- **Luminaire name:** Quadrature 2 LED
- **Equipment:** 1 x LED 4000K / CRI >= 80 / 4440 lm
2 Quadrature 2 LED® - orthogonal - 74W

2.3 Calculation results, Quadrature 2 LED® - orthogonal - 74W

2.3.1 3D luminance, View from the right

Luminance in the scene
Minimum: 0 cd/m²
Maximum: 625 cd/m²