

Installation : Swanage Tourist Office

Project number :

Customer : Lisa Nethercott - Dorset County Council

Processed by : Chris Burt

Date : 15.09.2016

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.

Quotation - C424325/4

Project : Swanage Tourist Office



Lisa Nethercott
Dorset County Council
County Hall
Colliton Park
Dorchester

678

Registered in England
Registration No. 6460114

15/09/16

DT1 1XJ

X VALUE	0.00
Z VALUE	4817.25
N VALUE	0.00

Our subsidiary company Dexreco offer a full recycling service for your end of life luminaires. We take the hassle out of WEEE for you! Please contact Dexreco on 01747 858100.

Dear Lisa

As per your recent enquiry please find enclosed our quotation and clauses as requested.

All fluorescent fittings quoted exclude lamps unless otherwise stated. This is not applicable to LED fittings

Dextra Lighting Ltd endeavour to deliver all orders within the time quoted but are unable to accept liability for any consequential losses arising as a result of late delivery.

The prices quoted are based on the quantities shown, if the order quantities differ from that shown on the quote then we reserve the right to increase them accordingly.

Whilst every effort will be made by Dextra Lighting Ltd to adhere to the written or product specification it is always the responsibility of the customer to ensure that any scheme, equivalent, specification or product satisfies the end users requirements.

All luminaires and lamps purchased will be subject to a 'WEEE Directive Levy'. This Levy has been included in the above prices where appropriate. If you require any more information on this subject please call our WEEE helpline on (01747) 858 136.

I hope this is to your approval, but should you require any additional information please do not hesitate to call.

Yours faithfully,

Chris Burt



Quotation - C424325/4

Dorset County Council
Project : Swanage Tourist Office



Quotation is subject to our standard terms and conditions of sale, copy available on request
Quotation valid for 30 days

Registered in England
Registration No. 6460114

15/09/16

LN	REF	STOCK CODE	QUANTITY	UNIT PR	TOTAL	
Z	1	A	MODS 123L45 C84 1200x300 Surface LED 4500Lumen C84 / Fixed Output Driver	9	169.00	1521.00
Z	2	B	EPK L26 C84 EPK 4FT Surface LED 2275lm C84 / Fixed Output	2	64.00	128.00
Z	3	C	HTV L14 25 C84 GB Hi-Track Vertical 1036lm C84 / 25 Degree / Global Adaptor / White	3	121.48	364.44
Z	4	C	HT 1M GLOBAL 1m Length 3 circuit lighting track white	2	19.73	39.46
Z	5	C	HT J GLOBAL White Jointer To Suit 3 Circuit Track	1	14.00	14.00
Z	6	C	HT DE GLOBAL White Stop End for 3 circuit lighting track And To Suit Global Trac Pulse	2	2.11	4.22
Z	7	D	AMED L30 C84 IP20 Decorative Bulkhead LED 3000Lumen / C84 Fixed Output / White Body / Opal Diff	2	69.21	138.42
Z	8	DE	AMED L30 M3 C84 IP20 Decorative Bulkhead LED 3000Lumen / C84 Fixed Output Emergency / White Body / Opal Diff	4	119.21	476.84
Z	9	D/DE	AMED AWR White Decorative Polycarbonate Angled Ring c/w Springs CP640007 CP640024 CP640025	6	5.26	31.56
Z	10	E	LED3SO NM3 3W OPEN AREA EMERGENCY LUMINAIRE Surface Mounted - 8000225 (NOT available with Central Battery)	7	85.00	595.00
Z	11	F	GRD L45 OPTPA GRD 5FT Surface 3924lm C84 / Polycarb Diffuser	5	93.23	466.15
Z	12	G	GRD L35 OPTPA GRD 5FT Surface 3052lm C84 / Polycarb Diffuser	2	93.23	186.46
Z	13	H	AME LED NM3 2.5 Watt LED Bulkhead - Non Maintained IP65 PC Base & Diffuser - 150 Lumen Code DP-641 LD NM	2	29.88	59.76
Z	14	IE	AMEX L16 M3 EB C84 IP65 Eyelid Circular Bulkhead LED 1600Lumen C84 Fixed Output/ Emergency/ Black Body/ Opal Diff	3	125.00	375.00
Z	15	J	OPU2M L61 C84 Opus IP65 Medium Floodlight 5185lm C84	2	153.33	306.66
EXIT SIGNS						
Z	17		EXI LED M3 Maintained LED Exit Luminaire 2Watt LED 4W power consumption	3	33.62	100.86
Z	18		EXI DL Exit Sign ARROW DOWN Legend - Light Green	3	3.14	9.42



This Document is in :
Sterling (£)

ITEMS NET	4817.25
CARRIAGE	0.00
QUOTE NET	4817.25

Object :
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1 Luminaire data

1.1 Dextra Group PLC, A (MODS 123 L45 C84)

1.1.1 Data sheet

Manufacturer: Dextra Group PLC

MODS 123 L45 C84 surface-mounted luminaire A

MODS 123 L45 C84 - MODLED Surface 4500 lumen, 1210mm x 310mm surface or suspended luminaire, white powder coated one piece steel body, LED panels mounted to rear of housing. Steel framed front panel formed from high transmission polycarbonate sheet. Fixed output driver.

Optional extras:

E3 - Emergency control gear (535 lumens output)

ST3 - Self test emergency control gear

AT3 - Autotest DALI emergency control gear

H - High Frequency Dimming (Analogue 1-10v)

S - Switch Dimming

A - Digital Addressable Lighting Interface (DALI)

D - Digital Dimming (DSI)

C - Bi-Level Dimming 10% to 100%

R24D - Integral daylight and presence sensor (DSI variants only)

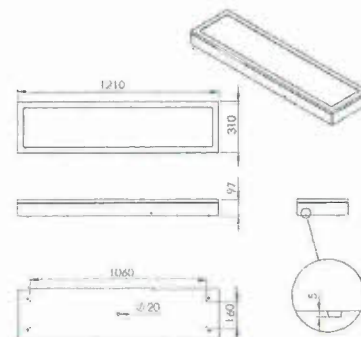
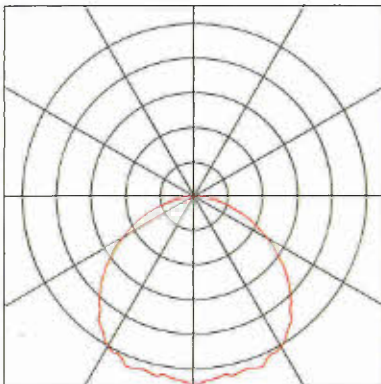
P410 - 3m - 4 Point adjustable steel wire suspension kit

Luminaire data

Luminaire efficiency : 80.5%
 Luminaire efficacy : 119.16 lm/W
 Classification : A40 ↓100.0% ↑0.0%
 CIE Flux Codes : 48 80 96 100 80
 UGR 4H 8H (20%, 50%, 70%)
 C0 / C90 : 20.4 / 20.5
 Control gear : electronic ballast
 System power : 30.4 W
 Length : 1210 mm
 Width : 310 mm
 Height : 97 mm

Equipped with

Quantity : 1
 Designation : DEXTRA
 Colour : nw/4000K
 Luminous flux : 4500 lm
 Colour reproduction : 1B



Object :
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1 Luminaire data

1.2 Dextra Group PLC, B (EPK L26 C84)

1.2.1 Data sheet

Manufacturer: Dextra Group PLC

EPK L26 C84 ceiling mounted luminaire B

Ecopak LED - EPK L26 C84 - 2600 lumen LED, surface mounted batten luminaire, supplied complete with electronic LED driver. White powder painted metal body and steel spine, injection moulded polycarbonate end caps, high transmission curved opal diffuser.

Optional extras:

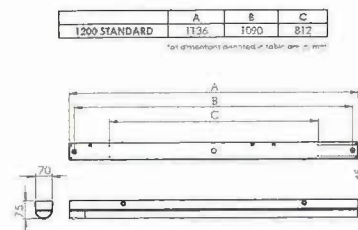
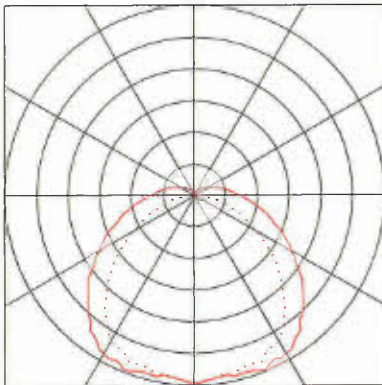
E3 - Emergency control gear (710 lumens output)
 ST3 - Emergency control gear self test
 AT3 - Emergency control gear DALI auto test
 H - High Frequency Dimming (Analogue 1-10v)
 S - Digital Dimming Switch Dimming
 A - Digital Addressable Lighting Interface (DALI)

Luminaire data

Luminaire efficiency : 88.8%
 Luminaire efficacy : 128.27 lm/W
 Classification : B31 ↓89.9% ↑10.1%
 CIE Flux Codes : 43 72 90 90 89
 UGR 4H 8H (20%, 50%, 70%)
 C0 / C90 : 23.4 / 20.6
 Control gear : electronic ballast
 System power : 18 W
 Length : 1136 mm
 Width : 70 mm
 Height : 73 mm

Equipped with

Quantity : 1
 Designation : Dextra
 Colour : nw/4000K
 Luminous flux : 2600 lm
 Colour reproduction : 1B



Object :
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1 Luminaire data

1.3 Dextra Group, C (HTV L14 25 C84)

1.3.1 Data sheet

Manufacturer: Dextra Group

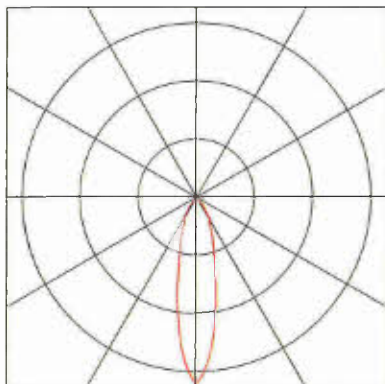
HTV L14 25 C84 C

Luminaire data

Absolute Photometry
Luminaire efficacy : 107.92 lm/W
Classification : A80 ↓ 100.0% ↑ 0.0%
CIE Flux Codes : 99 100 100 100 100
UGR 4H 8H (20%, 50%, 70%)
C0 / C90 : 16.6 / 16.5
Control gear :
System power : 9.6 W
Length : 144 mm
Width : 91 mm
Height : 155 mm

Equipped with

Quantity : 1
Designation : SLE G5 19mm
5000 H 840
ADV T -
Colour : 4000
Luminous flux : 1036 lm
Colour reproduction : 1b



Object :
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1 Luminaire data

1.4 Dextra Group PLC, D (AMED L30 C84 + AMED AWR)

1.4.1 Data sheet

Manufacturer: Dextra Group PLC

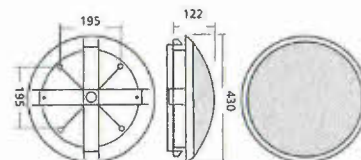
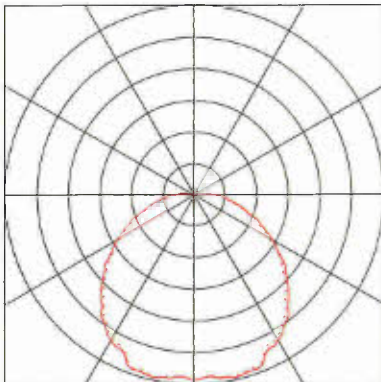
AMED L30 C84 + AMED AWR ceiling mounted luminaire D

Luminaire data

Luminaire efficiency : 79%
Luminaire efficacy : 110.23 lm/W
Classification : A41 ↓95.2% ↑4.8%
CIE Flux Codes : 44 74 92 95 79
UGR 4H 8H (20%, 50%, 70%)
C0 / C90 : 22.4 / 22.1
Control gear : electronic ballast
System power : 21.5 W
Diameter : 430 mm
Height : 122 mm

Equipped with

Quantity : 1
Designation : Dextra
Colour : nw/4000K
Luminous flux : 3000 lm
Colour reproduction : 1B



Object :
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1 Luminaire data

1.5 Dextra Group PLC, DE (AMED L30 M3 C84 + AMED AWR)

1.5.1 Data sheet

Manufacturer: Dextra Group PLC

AMED L30 M3 C84 + AMED AWR ceiling mounted luminaire DE

AMED L30 C84 - AMENITY Decorative 3000 lumens LED surface mounted luminaire, IP20 white polycarbonate bulkhead with electronic LED driver, opal polycarbonate diffuser.

Optional extras:

M3 - Emergency control gear (255 lumens)

ST3 - Self Test Emergency

AT3 - Autotest Emergency

S - Switch Dimming

D - Digital Dimming (DSI)

A - Digital Addressable Lighting Interface (DALI)

C - Bi-Level Dimming (Corridor Function)

R25E - R25 On/Off Microwave Presence / Brightout Sensor – High Frequency

R25C - R25 Bi-Level Dimming Microwave Presence/trigger inhibit photocell sensor

AMED SR Amenity semi recessing kit

AMED AWR Amenity decorative angled white ring

AMED ACR Amenity decorative angled chrome ring

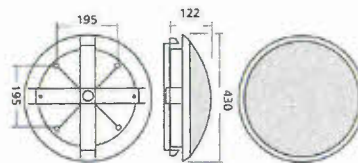
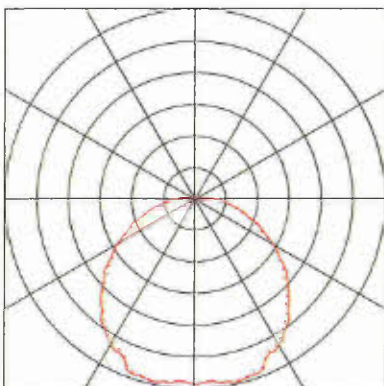
AMED ABR Amenity decorative angled brass ring

Luminaire data

Luminaire efficiency : 79%
Luminaire efficacy : 110.23 lm/W
Classification : A41 ↓95.2% ↑4.8%
CIE Flux Codes : 44 74 92 95 79
UGR 4H 8H (20%, 50%, 70%)
C0 / C90 : 22.4 / 22.1
Control gear : electronic ballast
System power : 21.5 W
Diameter : 430 mm
Height : 122 mm

Equipped with

Quantity : 1
Designation : Dextra
Colour : nw/4000K
Luminous flux : 3000 lm
Colour reproduction : 1B



Object :
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1 Luminaire data

1.6 Dextra Group PLC, E (LED3SO NM3)

1.6.1 Data sheet

Manufacturer: Dextra Group PLC

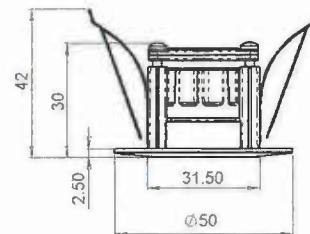
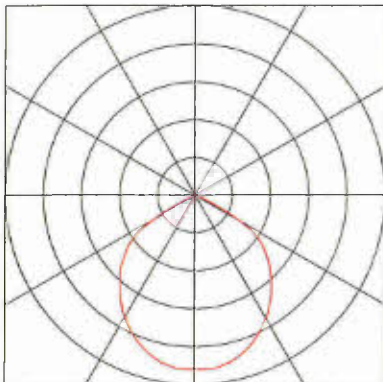
LED3SO NM3 recessed luminaire E

Luminaire data

Luminaire efficiency : 100.979%
Luminaire efficacy : 151.47 lm/W
Classification : A50 ↓99.9% ↑0.1%
CIE Flux Codes : 59 95 99 100 101
UGR 4H 8H (20%, 50%, 70%)
C0 / C90 : 32.0 / 32.0
Control gear : electronic ballast
System power : 1 W
Diameter : 30 mm

Equipped with

Quantity : 1
Designation : LED
Power : 3W
Colour :
Luminous flux : 150 lm



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1 Luminaire data

1.7 Dextra Group PLC, F (GRD L45 OPTPA)

1.7.1 Data sheet

Manufacturer: Dextra Group PLC

Dextra
GROUP PLC

GRD L45 OPTPA ceiling mounted luminaire F

GRD L45 OPTPA C84 - Graduate LED 4500 lumen, surface mounted luminaire. Removeable gear tray with quick release mechanism. Fully retained contoured low profile OPTPa opal diffuser as standard. Mechanically retained polycarbonate end caps with conduit entry knockout. Supplied with white screw covers to match white end caps. LED Driver.

Optional extras:

E3 - Emergency control gear (732 lumens)

ST3 - Self Test Emergency

AT3 - Autotest Emergency

S - Switch dim (retractive switch dimming)

A - DALI - Digitally Addressable Lighting Interface

H - 1-10V Analogue dimming

D - Digital dimming (DSI) - (Not available)

C - Corridor Function CF(E) - (Not available)

R25E - On/Off microwave presence / brightout sensor

R25C - Bi-level dimming microwave presence / trigger hold off sensor

DSI(X) - DALI - Digitally Addressable Lighting Interface

HFR - 1-10V Analogue dimming

R25 - Integral microwave

GRD IP40 Gasket - IP40 Gasket

Luminaire data

Luminaire efficiency : 88.9%
Luminaire efficacy : 138.91 lm/W
Classification : B41 ↓86.2% ↑13.8%
CIE Flux Codes : 49 78 93 86 89
UGR 4H 8H (20%, 50%, 70%)
C0 / C90 : 18.8 / 18.0
Control gear : electronic ballast
System power : 28.8 W
Length : 1540 mm
Width : 215 mm
Height : 82 mm

Equipped with

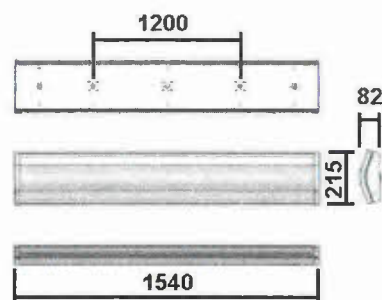
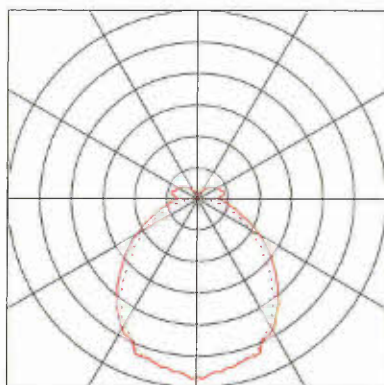
Quantity : 1
Designation : Dextra
Colour : nw/4000K
Luminous flux : 4500 lm
Colour reproduction : 1B

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1 Luminaire data

1.7 Dextra Group PLC, F (GRD L45 OPTPA)

1.7.1 Data sheet



Object :
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1 Luminaire data

1.8 Dextra Group PLC, G (GRD L35 OPTPA)

1.8.1 Data sheet

Manufacturer: Dextra Group PLC

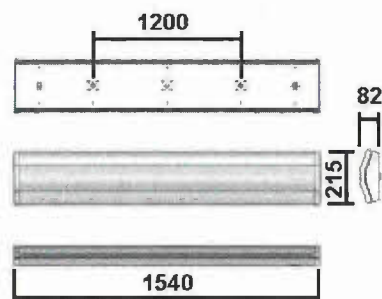
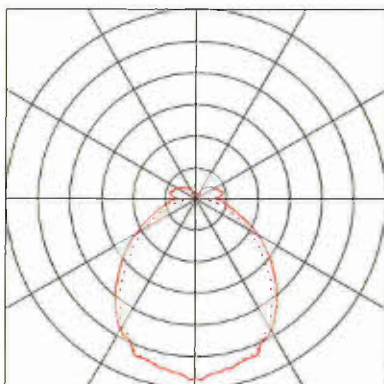
GRD L35 OPTPA ceiling mounted luminaire G

Luminaire data

Luminaire efficiency : 88.9%
Luminaire efficacy : 134.7 lm/W
Classification : B41 ↓86.2% ↑13.8%
CIE Flux Codes : 49 78 93 86 89
UGR 4H 8H (20%, 50%, 70%)
C0 / C90 : 17.9 / 17.1
Control gear : electronic ballast
System power : 23.1 W
Length : 1540 mm
Width : 215 mm
Height : 82 mm

Equipped with

Quantity : 1
Designation : Dextra
Colour : nw/4000K
Luminous flux : 3500 lm
Colour reproduction : 1B



Object :
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1 Luminaire data

1.9 Dextra Group PLC, H (AME LED NM3)

1.9.1 Data sheet

Manufacturer: Dextra Group PLC

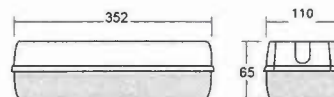
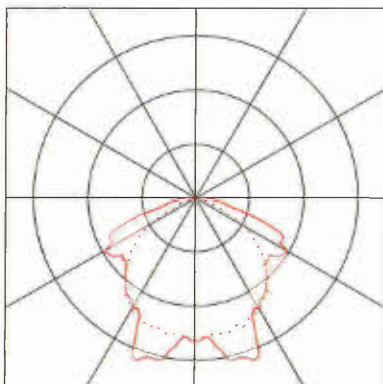
AME LED NM3 ceiling mounted luminaire H

Luminaire data

Luminaire efficiency : 87.5%
Luminaire efficacy : 54.69 lm/W
Classification : A40 ↓99.9% ↑0.1%
CIE Flux Codes : 46 76 95 100 88
UGR 4H 8H (20%, 50%, 70%)
C0 / C90 : 18.0 / 15.3
Control gear : electronic ballast
System power : 2 W
Length : 352 mm
Width : 110 mm
Height : 65 mm

Equipped with

Quantity : 1
Designation : Dextra
Power : 1W
Colour : nw/4000K
Luminous flux : 125 lm
Colour reproduction : 1B



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1 Luminaire data

1.10 Dextra Group PLC, IE (AMEX L16 M3 EB C84)

1.10.1 Data sheet

Manufacturer: Dextra Group PLC

AMEX L16 M3 EB C84 wall-mounted luminaire IE

AMEX L16 EB C84 - Amenity exterior 1600 lumen LED luminaire, surface mounted (wall or ceiling). IP65 rated, die cast aluminium body with eyelid, finished in black powder coat paint, opal polycarbonate diffuser. Electronic LED driver, with optional 3 hour maintained integral emergency control gear.

Optional extras:

M3 - Emergency control gear (435 lumens)

ST3 - Self test

S - Switch Dimming

D - Digital Dimming (DSI)

A - Digital Addressable Lighting Interface (DALI)

C - Bi-Level Dimming (Corridor Function) available; please contact our sales team for advice)

R25E - R25 On/Off – High Frequency

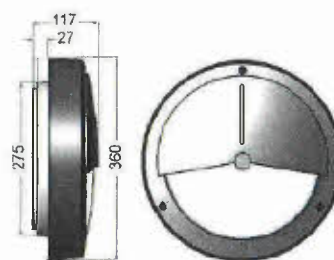
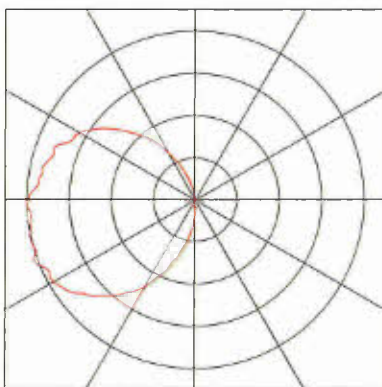
R25C - R25 Bi-Level Dimming (manual switch off)

Luminaire data

Luminaire efficiency : 47.4%
Luminaire efficacy : 49.89 lm/W
Classification : C11 ↓56.7% ↑43.3%
CIE Flux Codes : 16 41 71 57 48
UGR 4H 8H (20%, 50%, 70%)
C0 / C90 : <10.0 / 18.2
Control gear : electronic ballast
System power : 15.2 W
Diameter : 360 mm
Height : 117 mm

Equipped with

Quantity : 1
Designation : Dextra
Colour : nw/4000K
Luminous flux : 1600 lm
Colour reproduction : 1B



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1 Luminaire data

1.11 Dextra Group PLC, J (OPU2M L61 C84)

1.11.1 Data sheet

Manufacturer: Dextra Group PLC

OPU2M L61 C84 projector J

OPU2M L61 C84 - Opus medium sized LED floodlight. symmetric light distribution with 6100 lumen LED, high quality diecast construction, matt grey powder coat finish, high grade aluminium reflector, fully gasketed IP65 ingress protection, toughened glass cover, adjustable saddle mounting bracket with angle set feature allen key fixings.

Optional extra

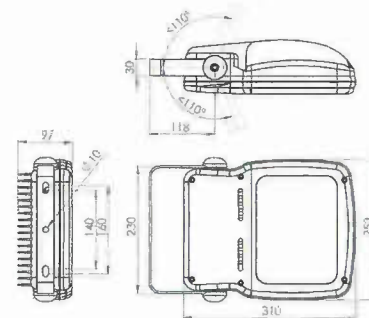
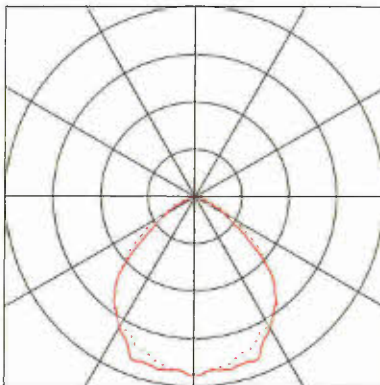
PH - Photocell (on/off switching only)

Luminaire data

Luminaire efficiency : 85%
 Luminaire efficacy : 99.71 lm/W
 Classification : A50 ↓100.0% ↑0.0%
 CIE Flux Codes : 60 91 99 100 85
 UGR 4H 8H (20%, 50%, 70%)
 C0 / C90 : 25.8 / 27.2
 Control gear : electronic ballast
 System power : 52 W
 Length : 310 mm
 Width : 253 mm
 Height : 97 mm

Equipped with

Quantity : 1
 Designation : Dextra
 Colour : nw/4000K
 Luminous flux : 6100 lm
 Colour reproduction : 1B



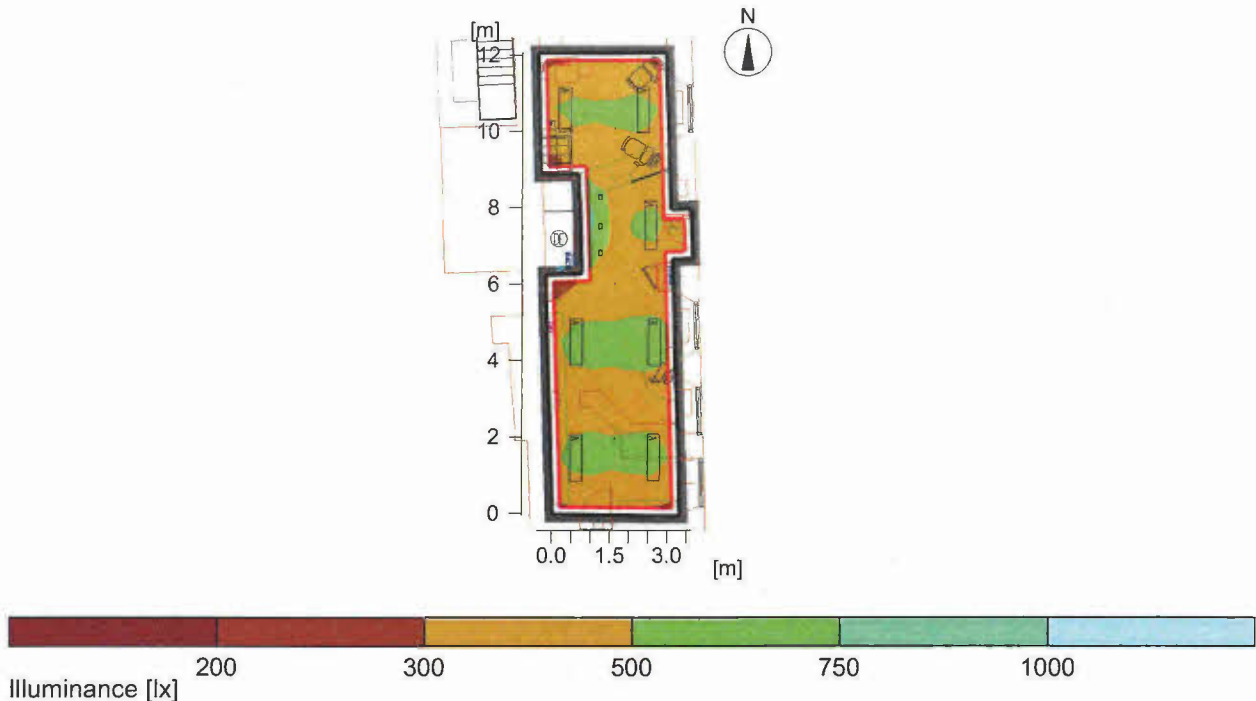
LED Flood - M

Object :
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2 Tourist Office

2.1 Summary, Tourist Office

2.1.1 Result overview, Evaluation area 1



General

Calculation algorithm used
 Maintenance factor

Average indirect fraction
 0.85

Total luminous flux of all lamps
 Total power
 Total power per area (38.62 m²)

35058 lm
 244.6 W
 6.33 W/m² (1.38 W/m²/100lx)

Evaluation area 1

Reference plane 1.1

Horizontal
 Em 460 lx
 Emin 242 lx
 Emin/Eav (Uo) 0.53
 Emin/Emax (Ud) 0.33
 Position 0.75 m

Type No.\Make

		Dextra Group PLC	
1	7	Order No.	: MODS 123 L45 C84
A		Luminaire name	: A
		Equipment	: 1 x DEXTRA / 4500 lm
6	3	Order No.	: LED3SO NM3
E		Luminaire name	: E
		Equipment	: 1 x LED 3W / 150 lm(0%)

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2 Tourist Office

2.1 Summary, Tourist Office

2.1.1 Result overview, Evaluation area 1

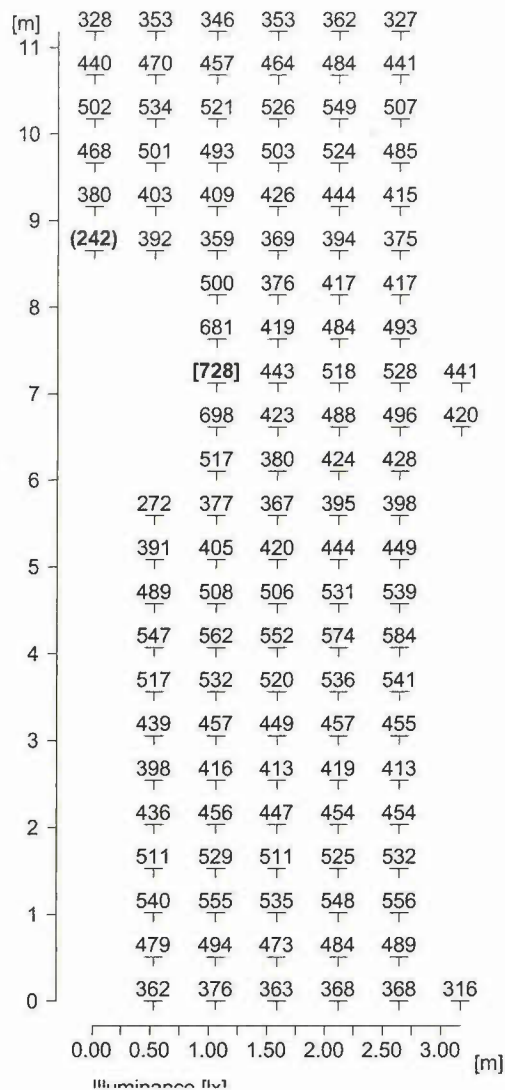
3	3	Dextra Group	
		Order No.	: HTV L14 25 C84
		Luminaire name	: C
		Equipment	: 1 x SLE G5 19mm 5000 H 840 ADV T - 89602225 / 1036 lm

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2 Tourist Office

2.2 Calculation results, Tourist Office

2.2.1 Table, Reference plane 1.1 (E)



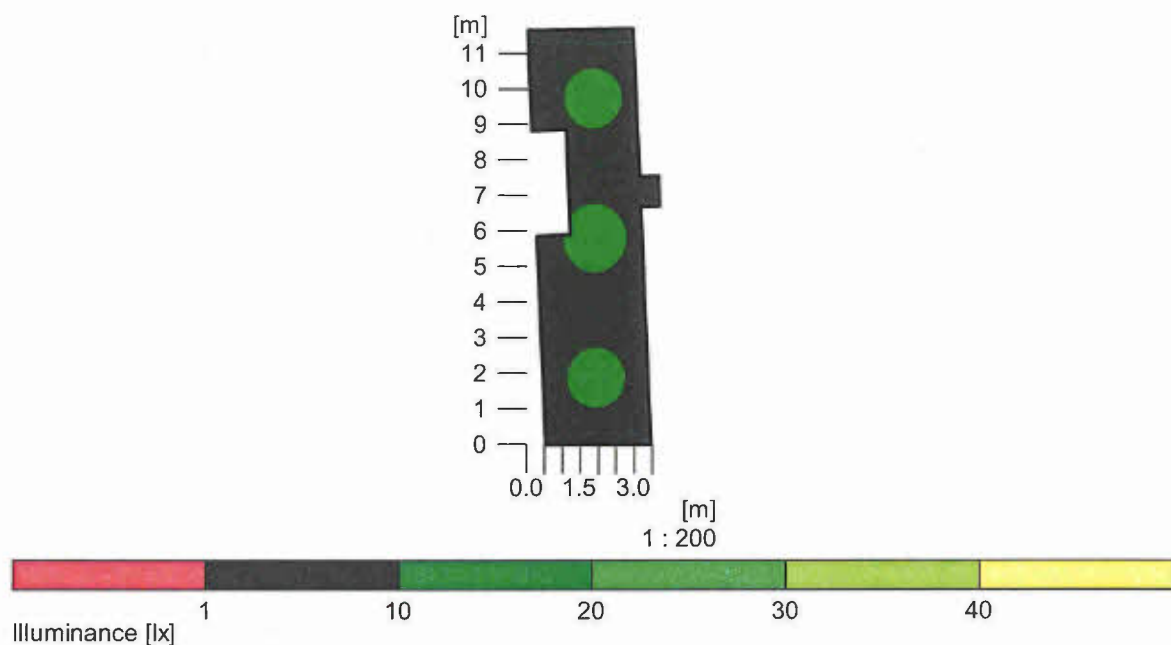
Height of the reference plane	: 0.75 m
Average illuminance	Eav : 460 lx
Minimum illuminance	Emin : 242 lx
Maximum illuminance	Emax : 728 lx
Uniformity U ₀	Emin/Eav : 1 : 1.90 (0.53)
Diversity U _d	Emin/Emax : 1 : 3.01 (0.33)

Object :
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2 Tourist Office

2.3 Calculation results, Tourist Office

2.3.1 Boundary line, Reference plane for emergency lighting 1 (E)



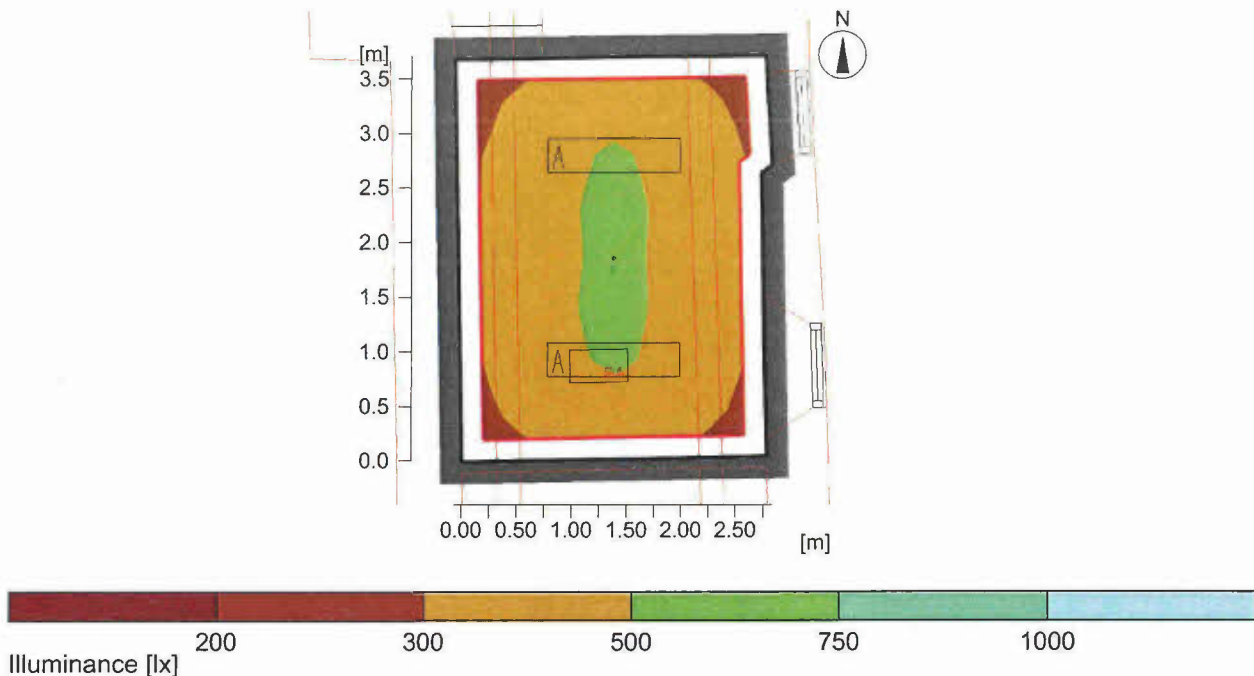
Required minimum illuminance		: 1 lx
Minimum illuminance	E _{min}	: 2.2 lx
Maximum illuminance	E _{max}	: 13 lx
Uniformity	E _{min} /E _{max}	: 1 : 5.82 (0.17) (Threshold value 1:40)
Height		: 0 m
Calculation algorithm used		: Direct component

Object :
 Installation : Swanage Tourist Office
 Project number :
 Date : 15.09.2016

3 Display Room

3.1 Summary, Display Room

3.1.1 Result overview, Evaluation area 1



General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.41 m
Maintenance factor	0.85
Total luminous flux of all lamps	9150 lm
Total power	61.8 W
Total power per area (10.30 m ²)	6.00 W/m ² (1.42 W/m ² /100lx)

Evaluation area 1

Reference plane 1.1

	Horizontal
Em	422 lx
Emin	301 lx
Emin/Eav (Uo)	0.71
Emin/Emax (Ud)	0.57
Position	0.75 m

Type No.\Make

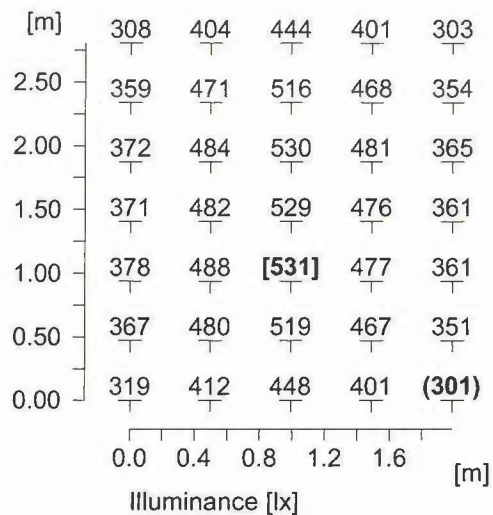
Dextra Group PLC	
1	2
A	Order No. : MODS 123 L45 C84
	Luminaire name : A
	Equipment : 1 x DEXTRA / 4500 lm
6	1
E	Order No. : LED3SO NM3
	Luminaire name : E
	Equipment : 1 x LED 3W / 150 lm(0%)

Object :
 Installation : Swanage Tourist Office
 Project number :
 Date : 15.09.2016

3 Display Room

3.2 Calculation results, Display Room

3.2.1 Table, Reference plane 1.1 (E)



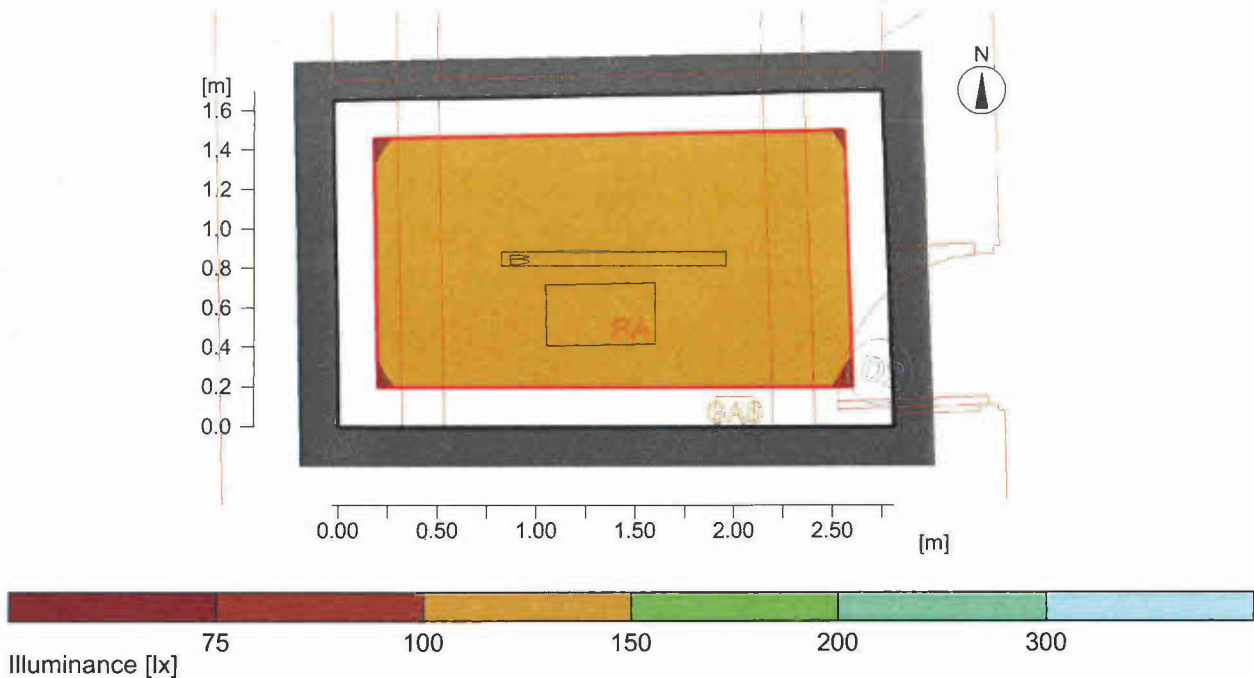
Height of the reference plane	:	0.75 m
Average illuminance	Eav	: 422 lx
Minimum illuminance	Emin	: 301 lx
Maximum illuminance	Emax	: 531 lx
Uniformity Uo	Emin/Eav	: 1 : 1.40 (0.71)
Diversity Ud	Emin/Emax	: 1 : 1.76 (0.57)

Object :
 Installation : Swanage Tourist Office
 Project number :
 Date : 15.09.2016

4 Store

4.1 Summary, Store

4.1.1 Result overview, Evaluation area 1



General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.41 m
Maintenance factor	0.85
Total luminous flux of all lamps	2600 lm
Total power	18.0 W
Total power per area (4.68 m ²)	3.85 W/m ² (3.02 W/m ² /100lx)

Evaluation area 1

Reference plane 1.1

Horizontal	
Em	127 lx
Emin	110 lx
Emin/Eav (Uo)	0.86
Emin/Emax (Ud)	0.76
Position	0.00 m (rot: 0°/0°)

Type No.\Make

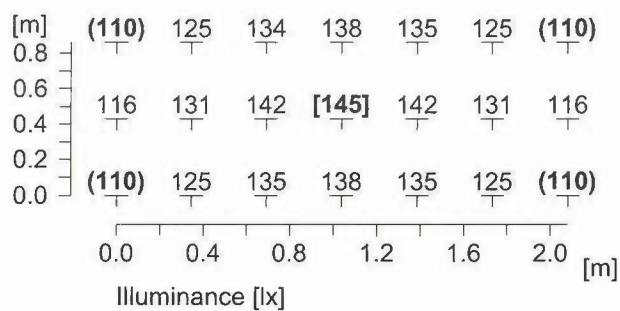
		Dextra Group PLC
2	1	Order No. : EPK L26 C84
		Luminaire name : B
		Equipment : 1 x Dextra / 2600 lm

Object :
 Installation : Swanage Tourist Office
 Project number :
 Date : 15.09.2016

4 Store

4.2 Calculation results, Store

4.2.1 Table, Reference plane 1.1 (E)



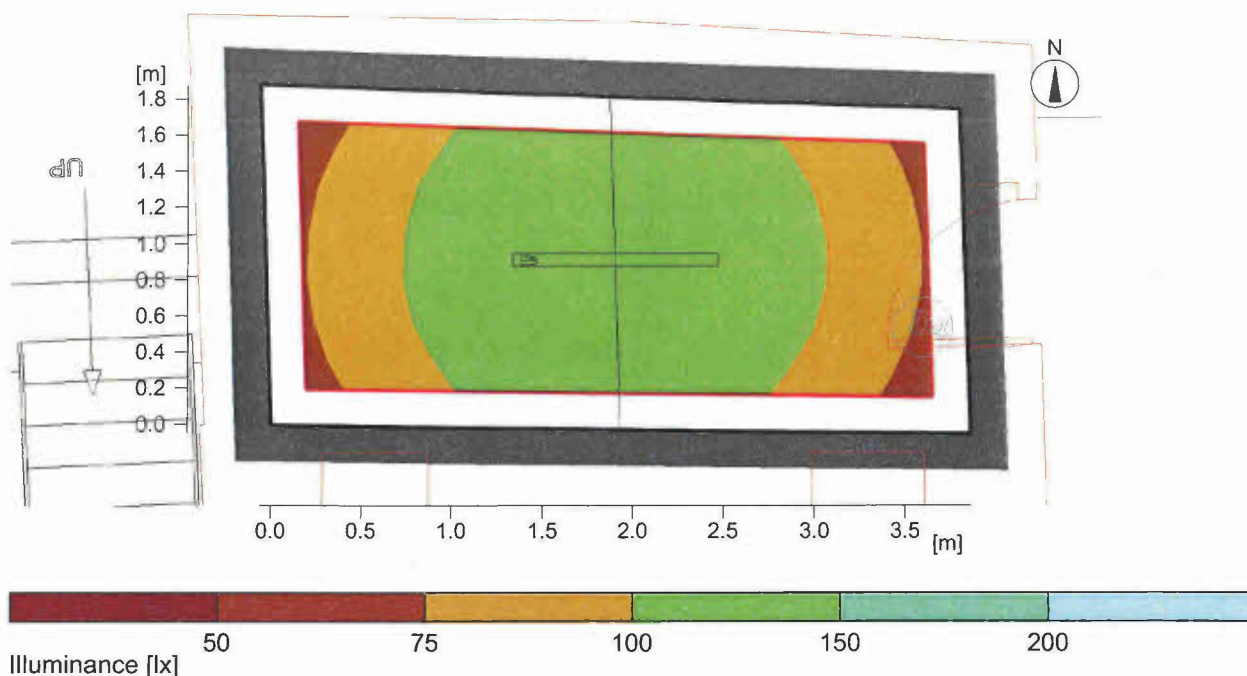
Average illuminance	Eav	: 127 lx
Minimum illuminance	Emin	: 110 lx
Maximum illuminance	Emax	: 145 lx
Uniformity Uo	Emin/Eav	: 1 : 1.16 (0.86)
Diversity Ud	Emin/Emax	: 1 : 1.32 (0.76)

Object :
 Installation : Swanage Tourist Office
 Project number :
 Date : 15.09.2016

5 Store

5.1 Summary, Store

5.1.1 Result overview, Evaluation area 1



General

Calculation algorithm used
 Height of luminaire plane
 Maintenance factor

Average indirect fraction
 2.41 m
 0.85

Total luminous flux of all lamps
 Total power
 Total power per area (7.07 m²)

2600 lm
 18.0 W
 2.55 W/m² (2.42 W/m²/100lx)

Evaluation area 1

Reference plane 1.1

Horizontal
 Em
 Emin
 Emin/Eav (Uo)
 Emin/Emax (Ud)
 Position

105 lx
 71 lx
 0.67
 0.53
 0.00 m

Type No./Make

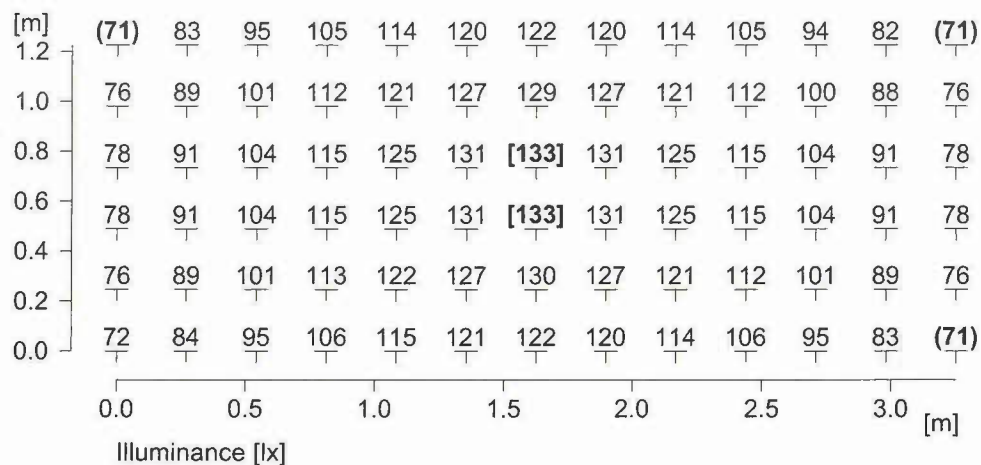
Dextra Group PLC
 2 1 Order No. : EPK L26 C84
 Luminaire name : B
 Equipment : 1 x Dextra / 2600 lm

Object :
 Installation : Swanage Tourist Office
 Project number :
 Date : 15.09.2016

5 Store

5.2 Calculation results, Store

5.2.1 Table, Reference plane 1.1 (E)



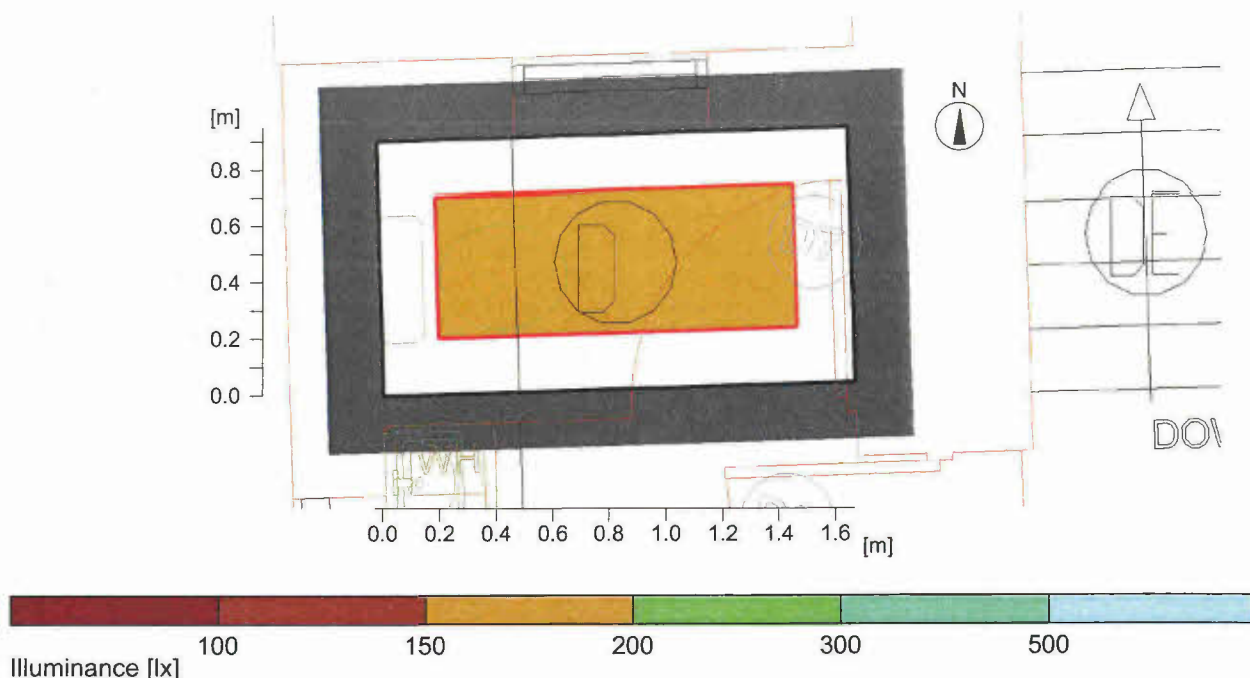
Height of the reference plane	:	0.00 m
Average illuminance	Eav	: 105 lx
Minimum illuminance	Emin	: 71 lx
Maximum illuminance	Emax	: 133 lx
Uniformity Uo	Emin/Eav	: 1 : 1.48 (0.67)
Diversity Ud	Emin/Emax	: 1 : 1.88 (0.53)

Object :
 Installation : Swanage Tourist Office
 Project number :
 Date : 15.09.2016

6 WC

6.1 Summary, WC

6.1.1 Result overview, Evaluation area 1



General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.41 m
Maintenance factor	0.85
Total luminous flux of all lamps	3000 lm
Total power	21.5 W
Total power per area (1.50 m ²)	14.31 W/m ² (7.98 W/m ² /100lx)

Evaluation area 1

Reference plane 1.1

Horizontal	
Em	179 lx
Emin	168 lx
Emin/Eav (Uo)	0.94
Emin/Emax (Ud)	0.90
Position	0.00 m

Type No./Make

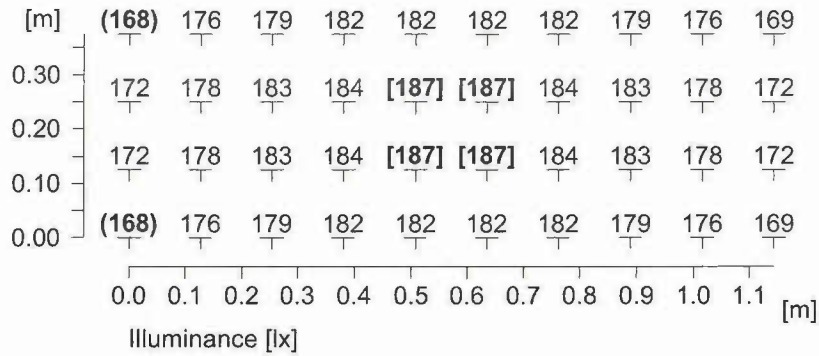
4	1	Dextra Group PLC
		Order No. : AMED L30 C84 + AMED AWR
		Luminaire name : D
		Equipment : 1 x Dextra / 3000 lm

Object :
 Installation : Swanage Tourist Office
 Project number :
 Date : 15.09.2016

6 WC

6.2 Calculation results, WC

6.2.1 Table, Reference plane 1.1 (E)



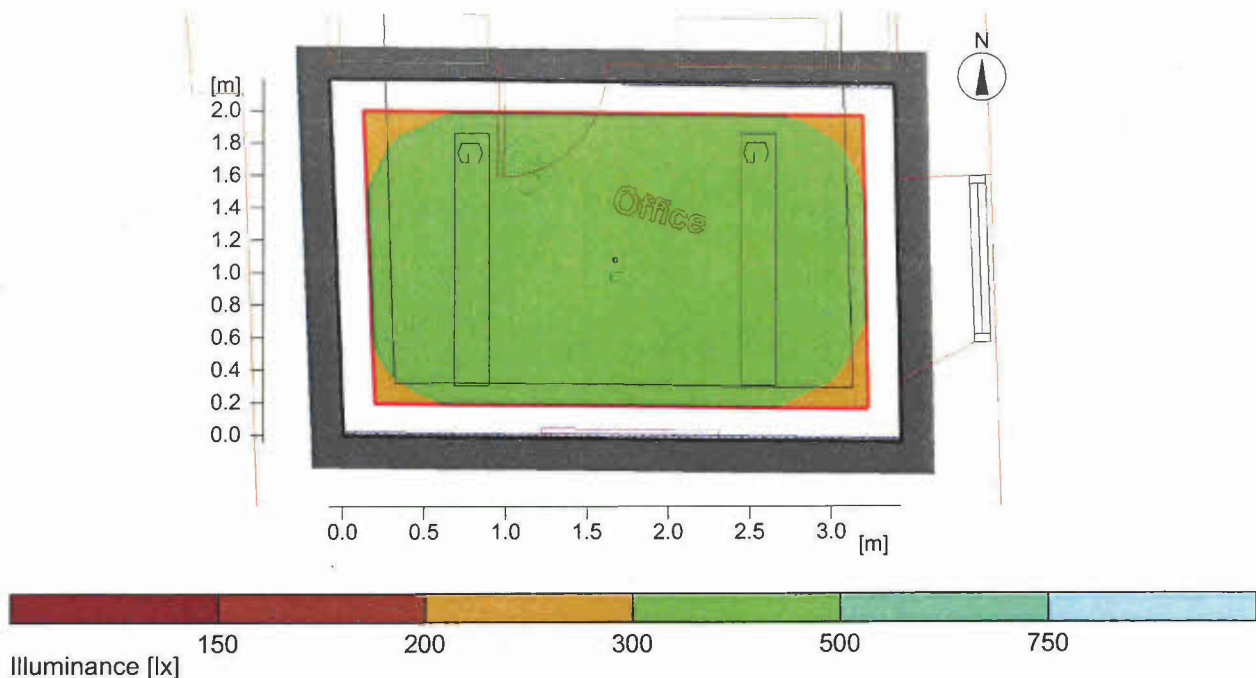
Height of the reference plane		: 0.00 m
Average illuminance	Eav	: 179 lx
Minimum illuminance	Emin	: 168 lx
Maximum illuminance	Emax	: 187 lx
Uniformity Uo	Emin/Eav	: 1 : 1.06 (0.94)
Diversity Ud	Emin/Emax	: 1 : 1.11 (0.90)

Object :
 Installation : Swanage Tourist Office
 Project number :
 Date : 15.09.2016

7 Office

7.1 Summary, Office

7.1.1 Result overview, Evaluation area 1



General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.45 m
Maintenance factor	0.85
Total luminous flux of all lamps	7150 lm
Total power	47.2 W
Total power per area (7.57 m ²)	6.24 W/m ² (1.62 W/m ² /100lx)

Evaluation area 1

Reference plane 1.1

	Horizontal
Em	386 lx
Emin	311 lx
Emin/Eav (Uo)	0.81
Emin/Emax (Ud)	0.71
Position	0.75 m

Type No. Make

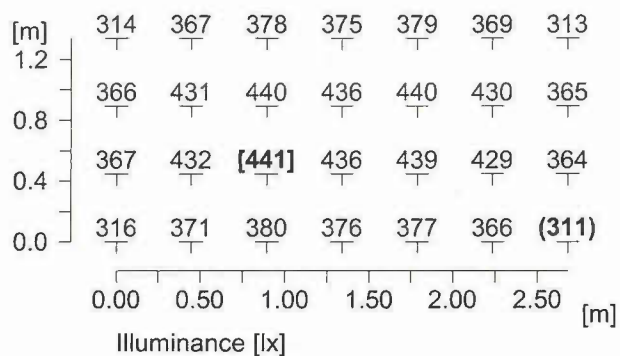
		Dextra Group PLC	
6	1	Order No.	: LED3SO NM3
		Luminaire name	: E
		Equipment	: 1 x LED 3W / 150 lm(0%)
8	2	Order No.	: GRD L35 OPTPA
		Luminaire name	: G
		Equipment	: 1 x Dextra / 3500 lm

Object :
 Installation : Swanage Tourist Office
 Project number :
 Date : 15.09.2016

7 Office

7.2 Calculation results, Office

7.2.1 Table, Reference plane 1.1 (E)



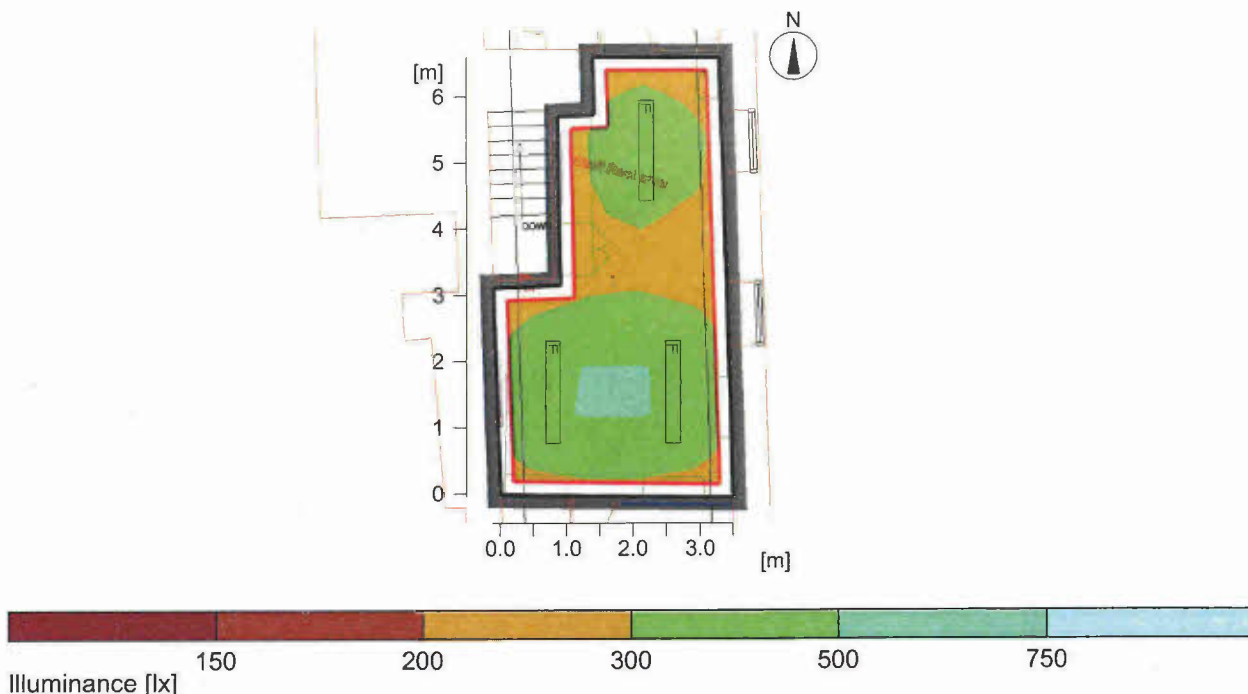
Height of the reference plane		: 0.75 m
Average illuminance	Eav	: 386 lx
Minimum illuminance	Emin	: 311 lx
Maximum illuminance	Emax	: 441 lx
Uniformity Uo	Emin/Eav	: 1 : 1.24 (0.81)
Diversity Ud	Emin/Emax	: 1 : 1.42 (0.71)

Object :
 Installation : Swanage Tourist Office
 Project number :
 Date : 15.09.2016

8 Office

8.1 Summary, Office

8.1.1 Result overview, Evaluation area 1



General

Calculation algorithm used
 Height of luminaire plane
 Maintenance factor

Average indirect fraction
 2.45 m
 0.85

Total luminous flux of all lamps
 Total power
 Total power per area (19.18 m²)

13650 lm
 87.4 W
 4.56 W/m² (1.26 W/m²/100lx)

Evaluation area 1

Reference plane 1.1

Horizontal
 Em 363 lx
 Emin 235 lx
 Emin/Eav (Uo) 0.65
 Emin/Emax (Ud) 0.46
 Position 0.75 m

Type No.\Make

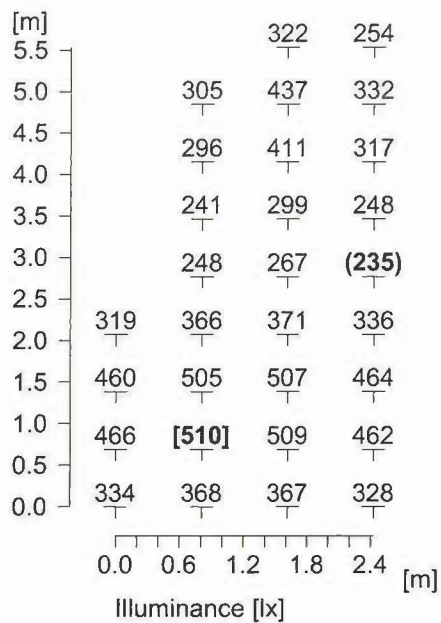
		Dextra Group PLC	
6	1	Order No.	: LED3SO NM3
		Luminaire name	: E
		Equipment	: 1 x LED 3W / 150 lm(0%)
7	3	Order No.	: GRD L45 OPTPA
		Luminaire name	: F
		Equipment	: 1 x Dextra / 4500 lm

Object :
 Installation : Swanage Tourist Office
 Project number :
 Date : 15.09.2016

8 Office

8.2 Calculation results, Office

8.2.1 Table, Reference plane 1.1 (E)



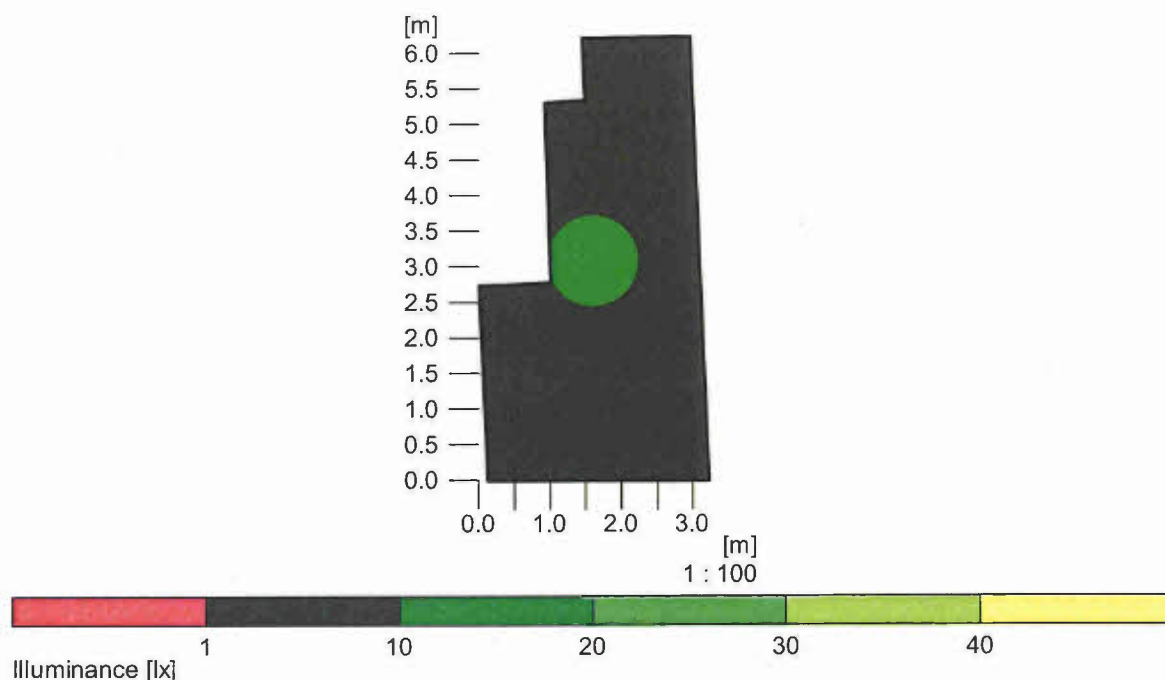
Height of the reference plane	: 0.75 m
Average illuminance	Eav : 363 lx
Minimum illuminance	Emin : 235 lx
Maximum illuminance	Emax : 510 lx
Uniformity Uo	Emin/Eav : 1 : 1.54 (0.65)
Diversity Ud	Emin/Emax : 1 : 2.17 (0.46)

Object :
Installation : Swanage Tourist Office
Project number :
Date : 15.09.2016

8 Office

8.3 Calculation results, Office

8.3.1 Boundary line, Reference plane for emergency lighting 1 (E)



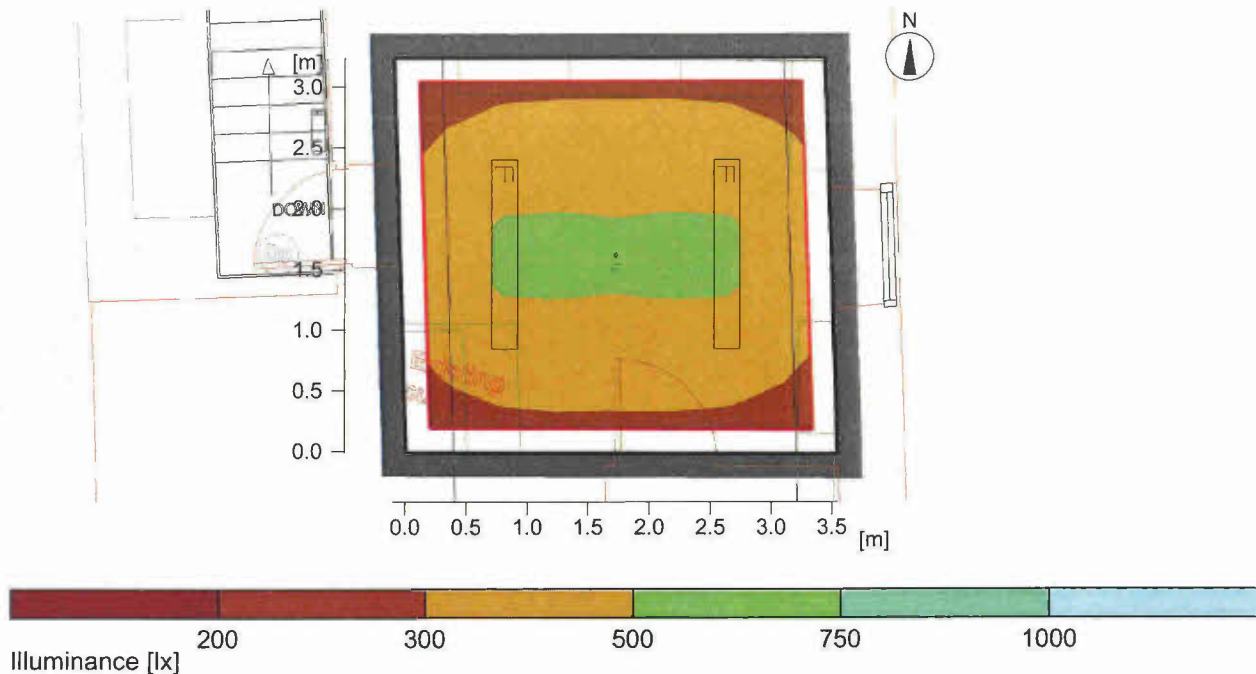
Required minimum illuminance	:	1 lx
Minimum illuminance	E _{min}	: 1 lx
Maximum illuminance	E _{max}	: 11 lx
Uniformity	E _{min} /E _{max}	: 1 : 11.90 (0.08) (Threshold value 1:40)
Height		: 0 m
Calculation algorithm used		: Direct component

Object :
 Installation : Swanage Tourist Office
 Project number :
 Date : 15.09.2016

9 Office

9.1 Summary, Office

9.1.1 Result overview, Evaluation area 1



General

Calculation algorithm used	High indirect fraction
Maintenance factor	0.85
Total luminous flux of all lamps	9150 lm
Total power	58.6 W
Total power per area (11.50 m ²)	5.09 W/m ² (1.26 W/m ² /100lx)

Evaluation area 1

Reference plane 1.1

Horizontal	405 lx
Em	266 lx
Emin	0.66
Emin/Eav (Uo)	0.51
Emin/Emax (Ud)	0.75 m
Position	

Type No.\Make

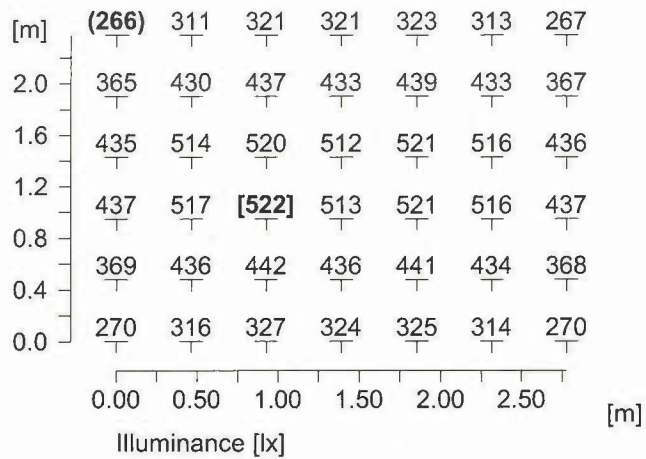
Dextra Group PLC	
6	1
⊙	Order No. : LED3SO NM3
	Luminaire name : E
	Equipment : 1 x LED 3W / 150 lm(0%)
7	2
⊞	Order No. : GRD L45 OPTPA
	Luminaire name : F
	Equipment : 1 x Dextra / 4500 lm

Object :
 Installation : Swanage Tourist Office
 Project number :
 Date : 15.09.2016

9 Office

9.2 Calculation results, Office

9.2.1 Table, Reference plane 1.1 (E)



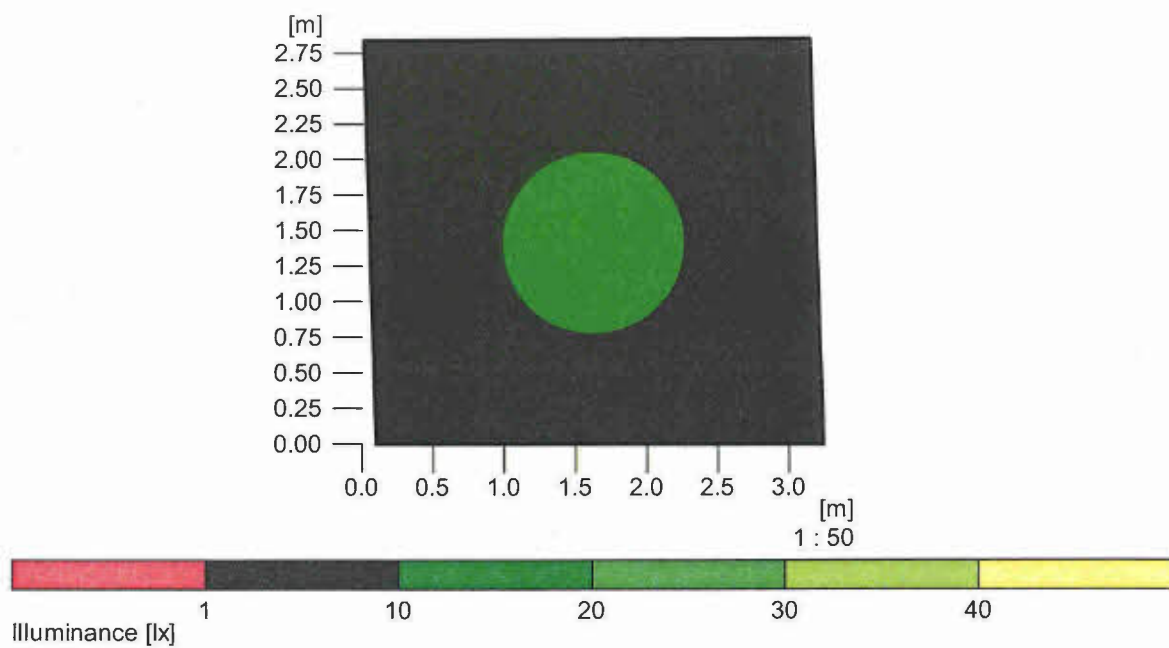
Height of the reference plane		: 0.75 m
Average illuminance	Eav	: 405 lx
Minimum illuminance	Emin	: 266 lx
Maximum illuminance	Emax	: 522 lx
Uniformity Uo	Emin/Eav	: 1 : 1.52 (0.66)
Diversity Ud	Emin/Emax	: 1 : 1.96 (0.51)

Object :
Installation : Swanage Tourist Office
Project number :
Date : 15.09.2016

9 Office

9.3 Calculation results, Office

9.3.1 Boundary line, Reference plane for emergency lighting 1 (E)



Required minimum illuminance		: 1 lx
Minimum illuminance	Emin	: 3.2 lx
Maximum illuminance	Emax	: 11 lx
Uniformity	Emin/Emax	: 1 : 3.57 (0.28) (Threshold value 1:40)
Height		: 0 m
Calculation algorithm used		: Direct component
