

Crossrail

Installation : Escalator

Project number : FD8595
Customer : Crossrail
Processed by : AN
Date : 09.02.2016

Project description:
Dwgs Received

C100-ATK-A-DDD-CR001_Z-53003 Generic Station (Tunnel), Escalators, General Assembly
C435-BFK-A-DDB-M123_7-01101

Reflectances
50/50/20

'1500 Luminaire module / 370 infil panels centred on inclined escalator deck'

Maintenance Factor 54%

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.

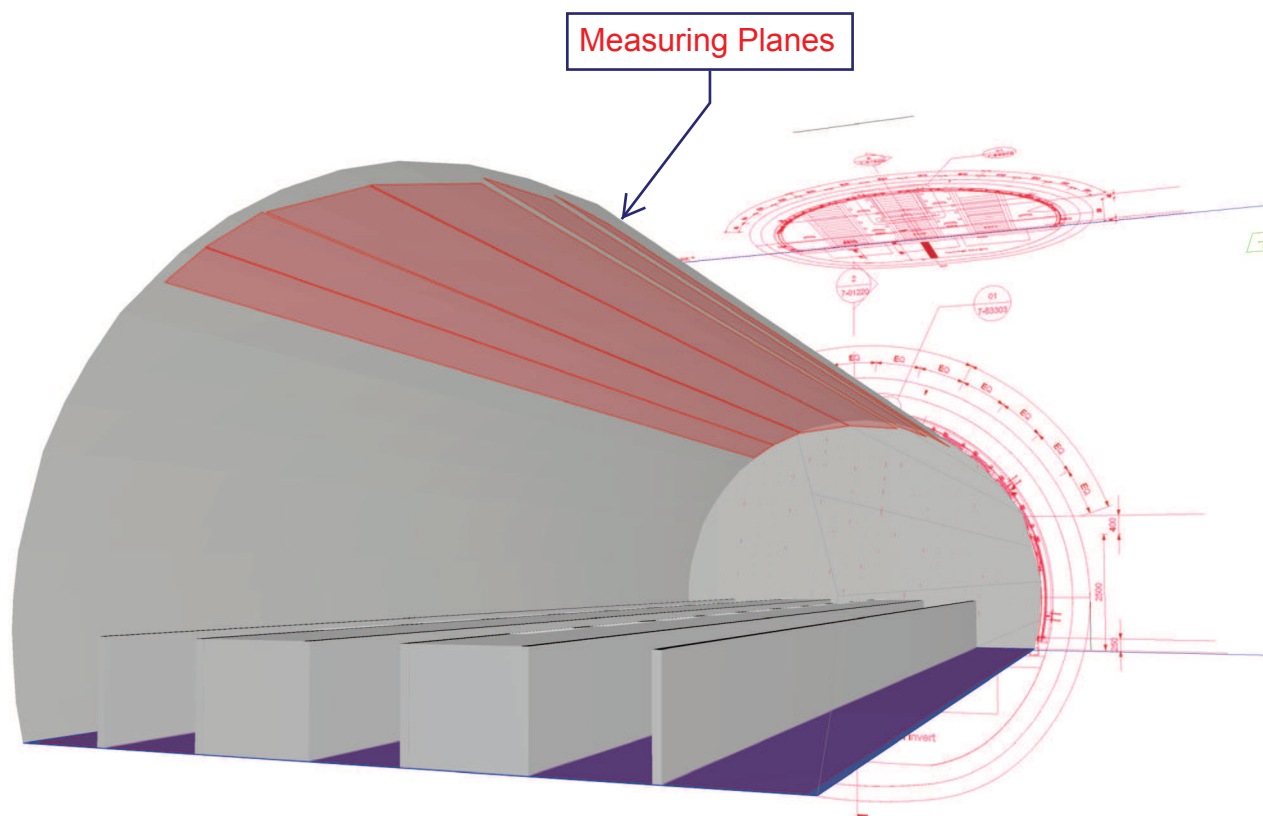
Relux and the luminaire manufacturers accept no liability for consequential damage and damage which is occasioned to the user or to third parties.

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Escalator

Description, Escalator

3D view, View 1

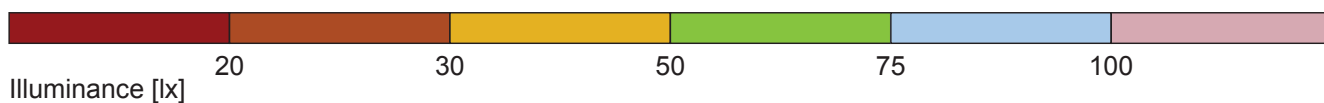
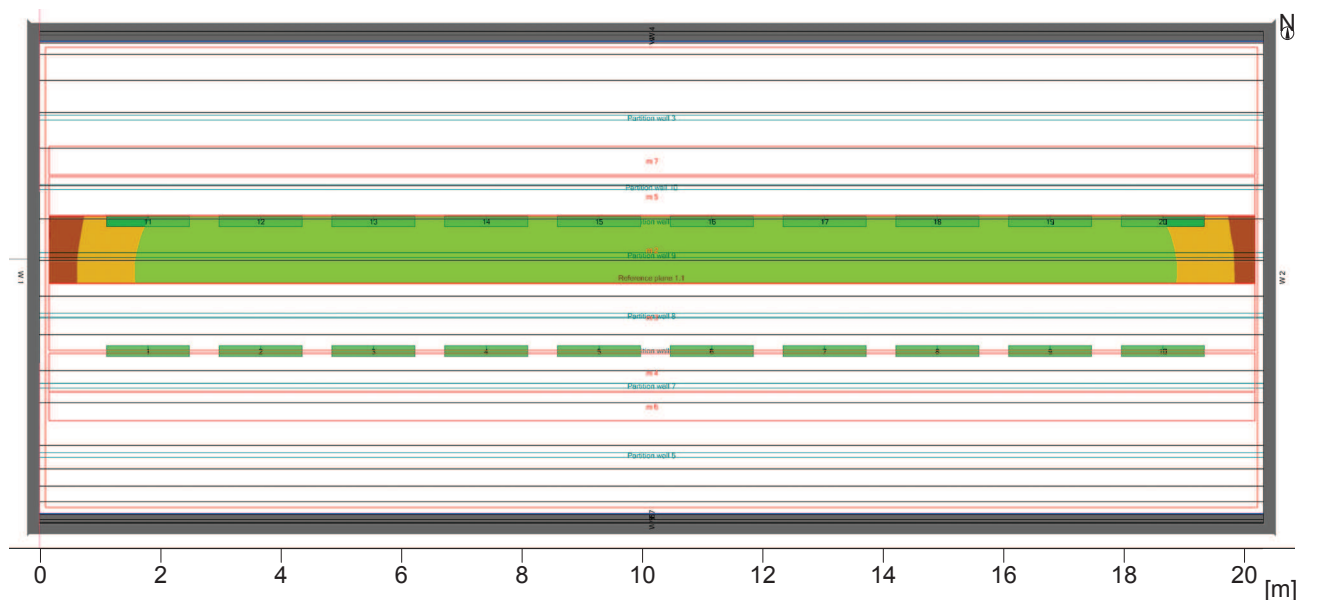


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Escalator

Summary, Escalator

Result overview, Measuring area 2



General

Calculation algorithm used	High indirect fraction
Height of luminaire plane	1.10 m
Maintenance factor	0.54

Total luminous flux of all lamps	86000 lm
Total power	590 W
Total power per area (158.73 m ²)	3.72 W/m ²

Illuminance

Average illuminance	Eav	58.4lx
Minimum illuminance	Emin	21.7lx
Maximum illuminance	Emax	65.8lx
Uniformity Uo	Emin/Em	1:2.69 (0.37)

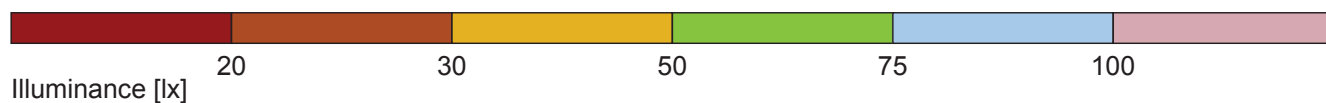
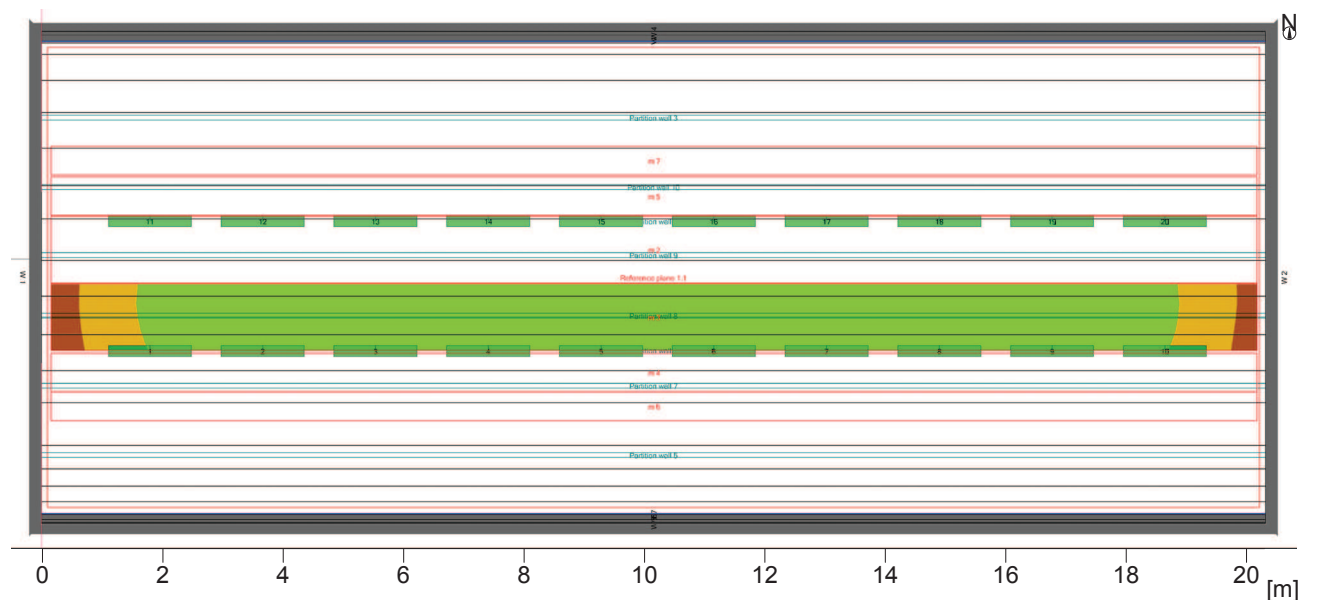
Type No.\Make

7	20	FUTURE Designs Limited
		Order No. : PLINTH4K4KETLL
		Luminaire name : PLINTH4K4KETLL
		Equipment : 6 x LED / 716.667 lm

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Summary, Escalator

Result overview, Measuring area 3



General

Calculation algorithm used	High indirect fraction
Height of luminaire plane	1.10 m
Maintenance factor	0.54

Total luminous flux of all lamps	86000 lm
Total power	590 W
Total power per area (158.73 m ²)	3.72 W/m ²

Illuminance

Average illuminance	E _{av}	58.8 lx
Minimum illuminance	E _{min}	22 lx
Maximum illuminance	E _{max}	65.8 lx
Uniformity U ₀	E _{min} /E _{max}	1:2.68 (0.37)

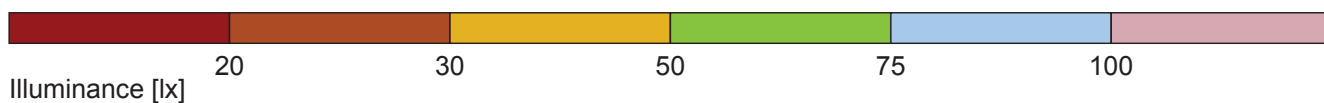
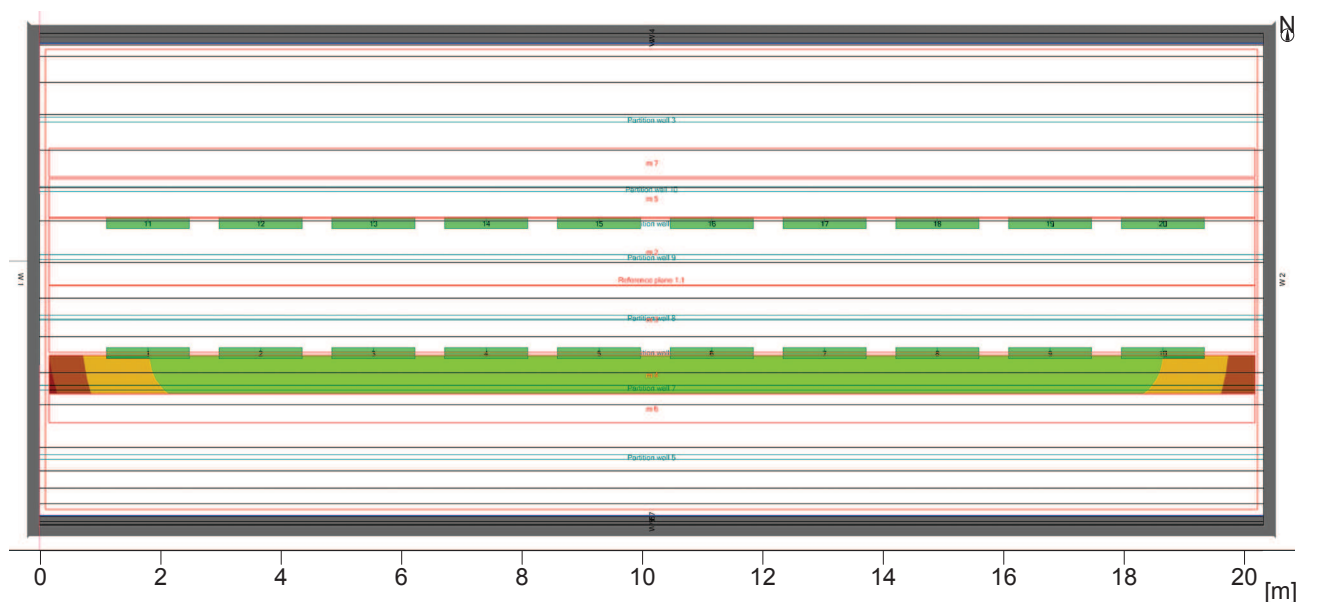
Type No.\Make

7	20	FUTURE Designs Limited
		Order No. : PLINTH4K4KETLL
		Luminaire name : PLINTH4K4KETLL
		Equipment : 6 x LED / 716.667 lm

Object : Crossrail
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Summary, Escalator

Result overview, Measuring area 4



General

Calculation algorithm used	High indirect fraction
Height of luminaire plane	1.10 m
Maintenance factor	0.54

Total luminous flux of all lamps	86000 lm
Total power	590 W
Total power per area (158.73 m²)	3.72 W/m²

Illuminance

Average illuminance	Eav	54 lx
Minimum illuminance	Emin	19.4 lx
Maximum illuminance	Emax	60.8 lx
Uniformity Uo	Emin/Em	1:2.79 (0.36)

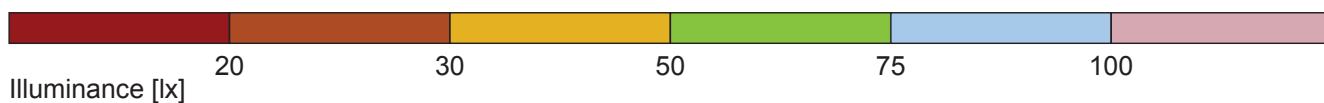
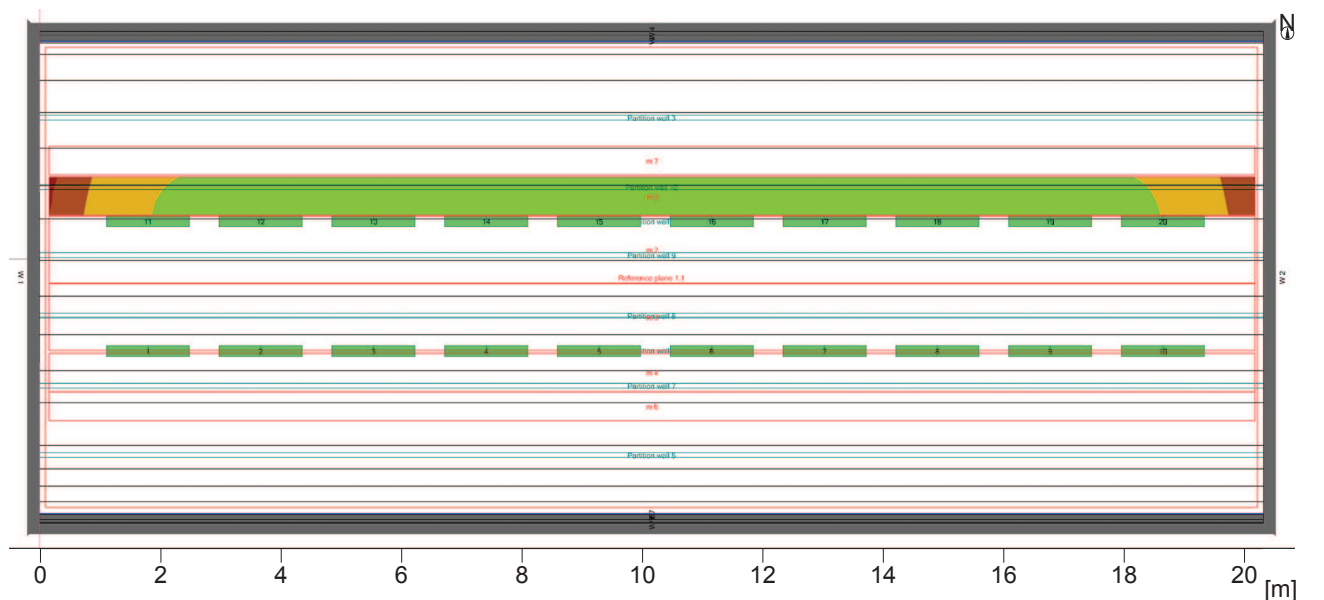
Type No.\Make

7	20	FUTURE Designs Limited
		Order No. : PLINTH4K4KETLL
		Luminaire name : PLINTH4K4KETLL
		Equipment : 6 x LED / 716.667 lm

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Summary, Escalator

Result overview, Measuring area 5



General

Calculation algorithm used	High indirect fraction
Height of luminaire plane	1.10 m
Maintenance factor	0.54

Total luminous flux of all lamps	86000 lm
Total power	590 W
Total power per area (158.73 m²)	3.72 W/m²

Illuminance

Average illuminance	Eav	53.3lx
Minimum illuminance	Emin	19.4lx
Maximum illuminance	Emax	60.3lx
Uniformity Uo	Emin/Em	1:2.75 (0.36)

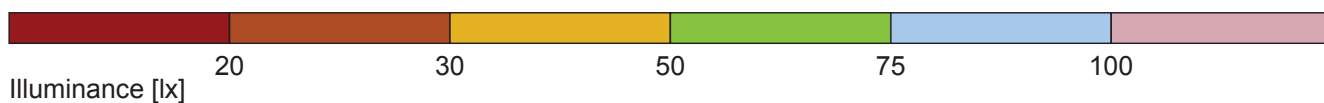
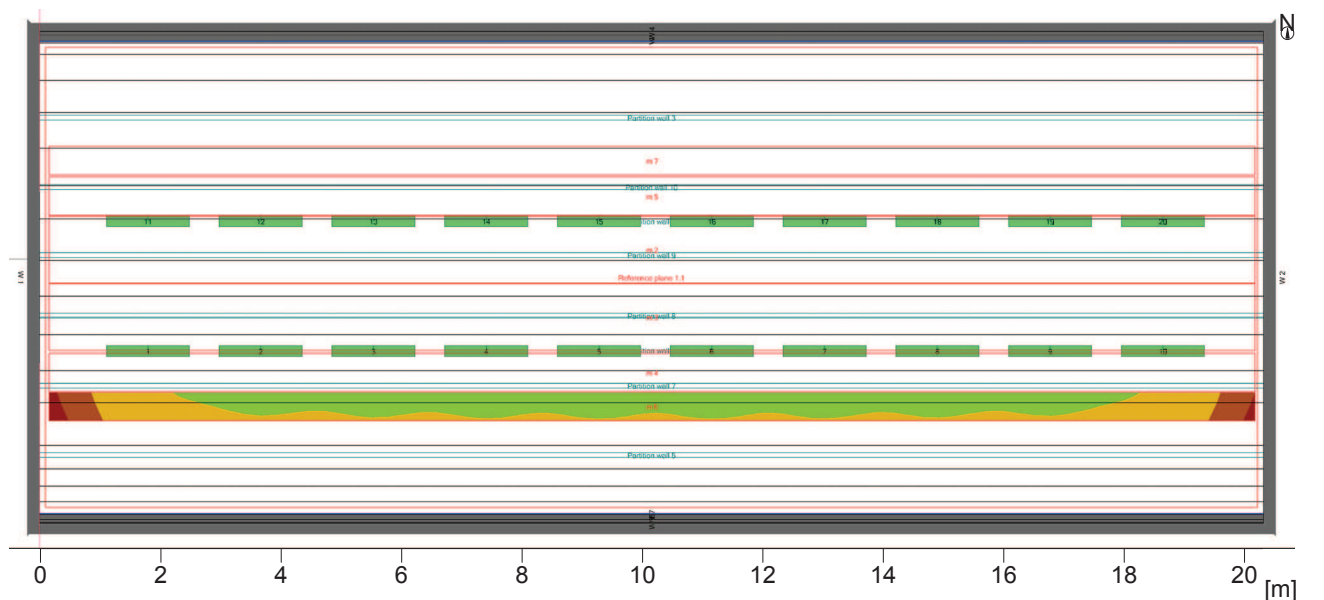
Type No.\Make

7	20	FUTURE Designs Limited
		Order No. : PLINTH4K4KETLL
		Luminaire name : PLINTH4K4KETLL
		Equipment : 6 x LED / 716.667 lm

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Summary, Escalator

Result overview, Measuring area 6



General

Calculation algorithm used	High indirect fraction
Height of luminaire plane	1.10 m
Maintenance factor	0.54

Total luminous flux of all lamps	86000 lm
Total power	590 W
Total power per area (158.73 m ²)	3.72 W/m ²

Illuminance

Average illuminance	Eav	48.3lx
Minimum illuminance	Emin	16.6lx
Maximum illuminance	Emax	55.5lx
Uniformity Uo	Emin/Em	1:2.91 (0.34)

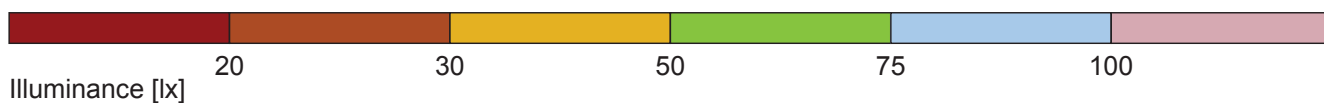
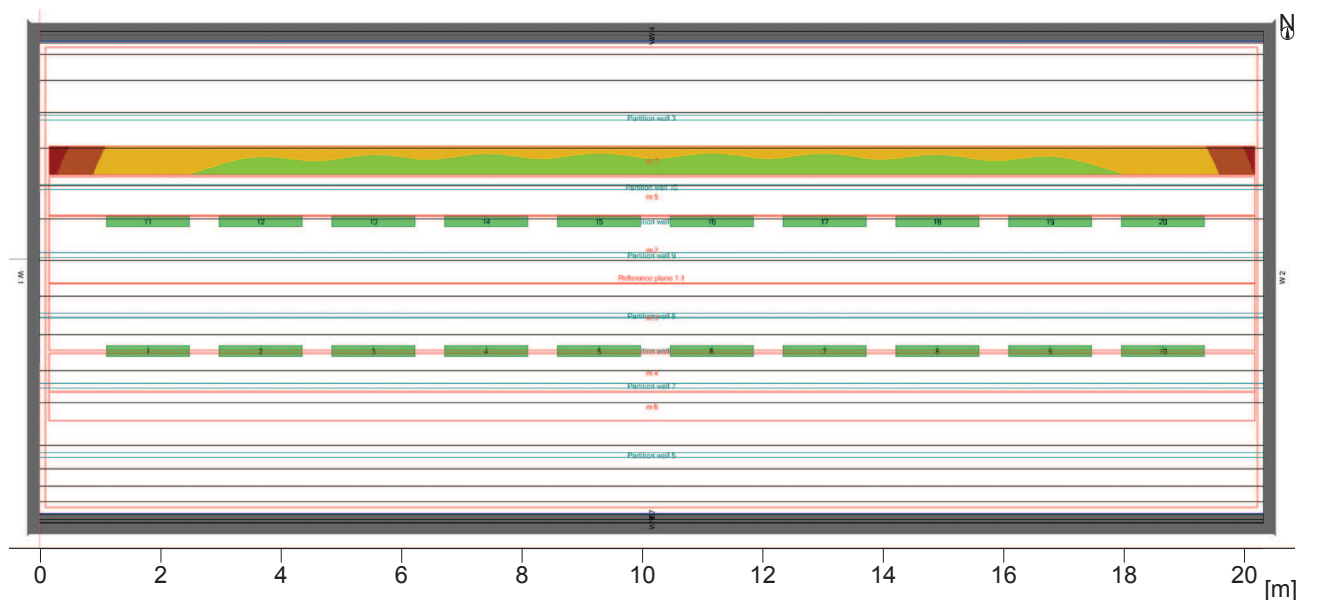
Type No.\Make

FUTURE Designs Limited	
7	Order No. : PLINTH4K4KETLL
20	Luminaire name : PLINTH4K4KETLL
	Equipment : 6 x LED / 716.667 lm

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Summary, Escalator

Result overview, Measuring area 7



General

Calculation algorithm used	High indirect fraction
Height of luminaire plane	1.10 m
Maintenance factor	0.54

Total luminous flux of all lamps	86000 lm
Total power	590 W
Total power per area (158.73 m ²)	3.72 W/m ²

Illuminance

Average illuminance	E _{av}	47 lx
Minimum illuminance	E _{min}	16.5 lx
Maximum illuminance	E _{max}	54.2 lx
Uniformity U _o	E _{min} /E _{max}	1:2.86 (0.35)

Type No.\Make

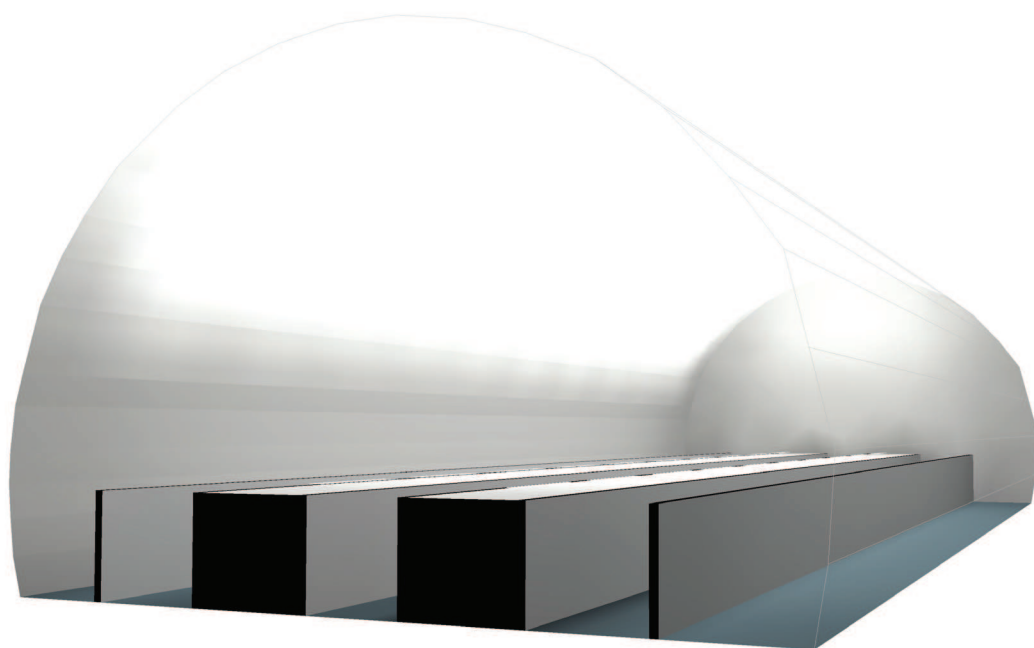
7	20	FUTURE Designs Limited
	Order No.	: PLINTH4K4KETLL
	Luminaire name	: PLINTH4K4KETLL
	Equipment	: 6 x LED / 716.667 lm

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Escalator

Calculation results, Escalator

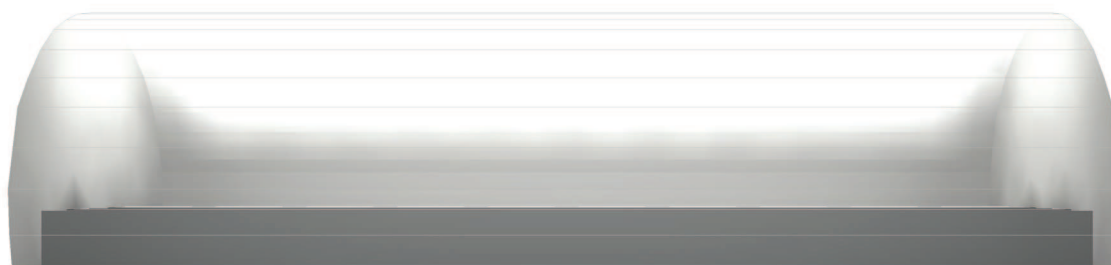
3D luminance, View 1



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Calculation results, Escalator

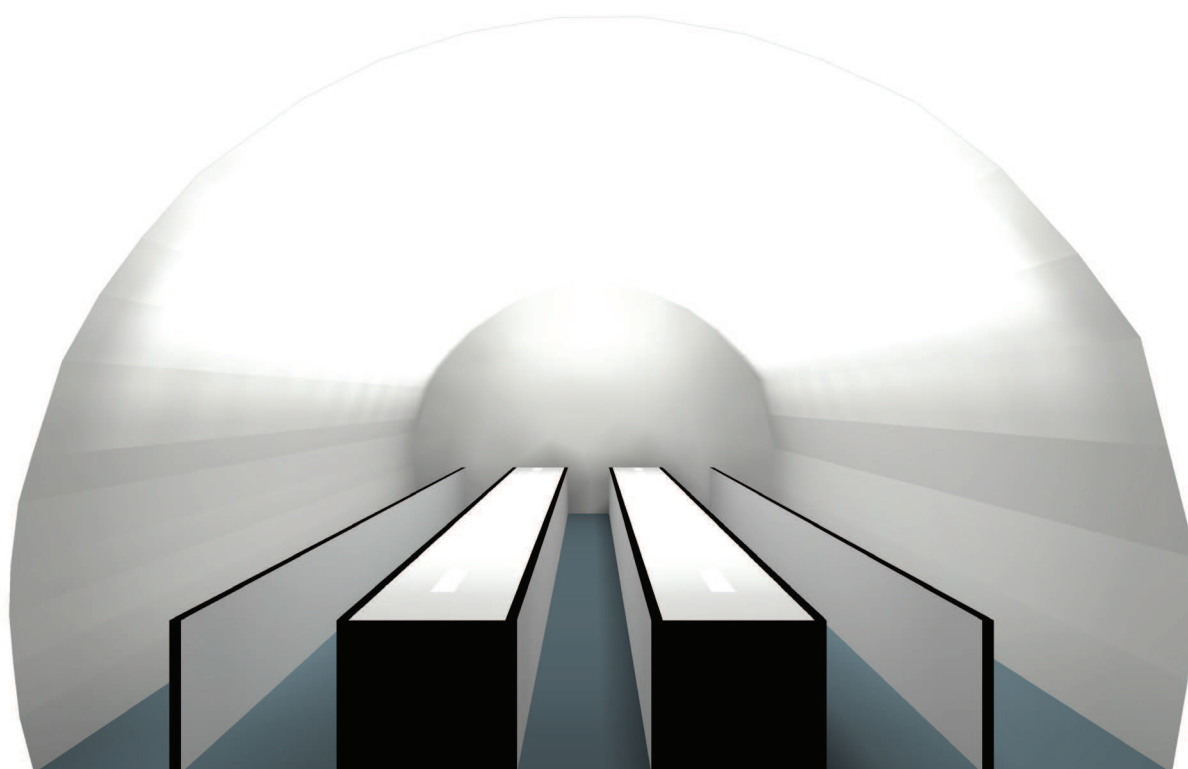
3D luminance, View from the back



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Calculation results, Escalator

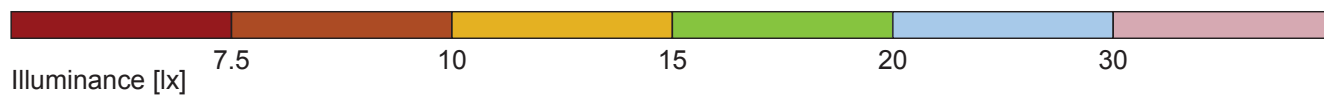
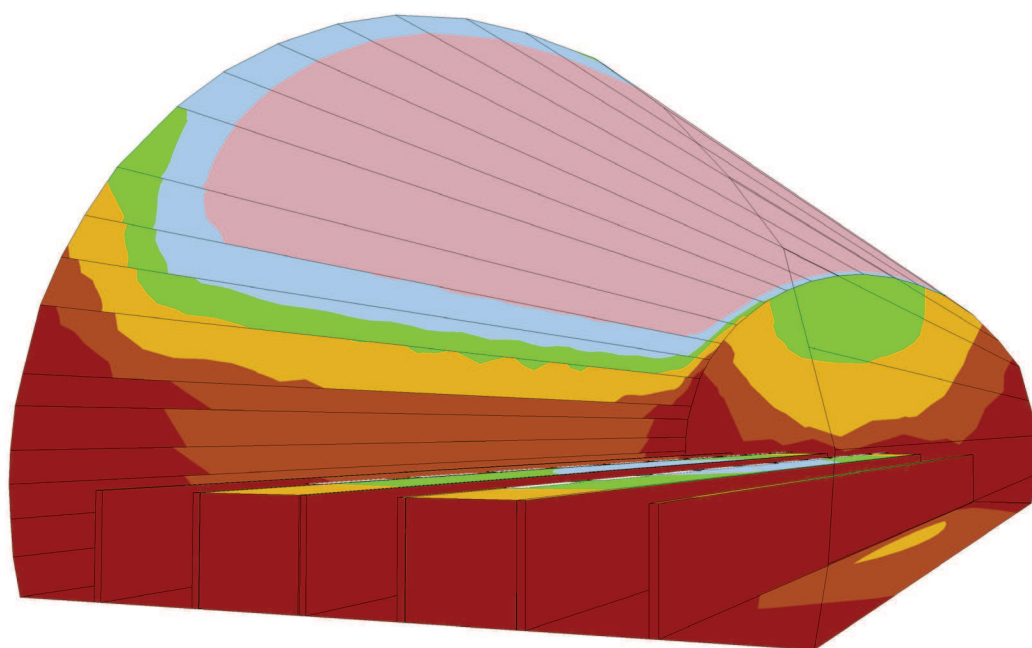
3D luminance, View from the right



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Calculation results, Escalator

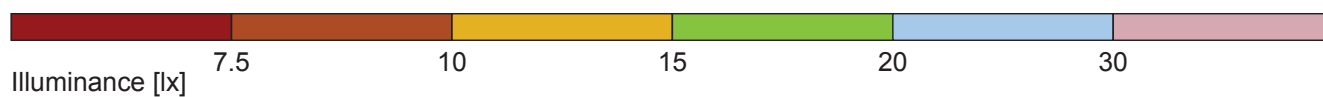
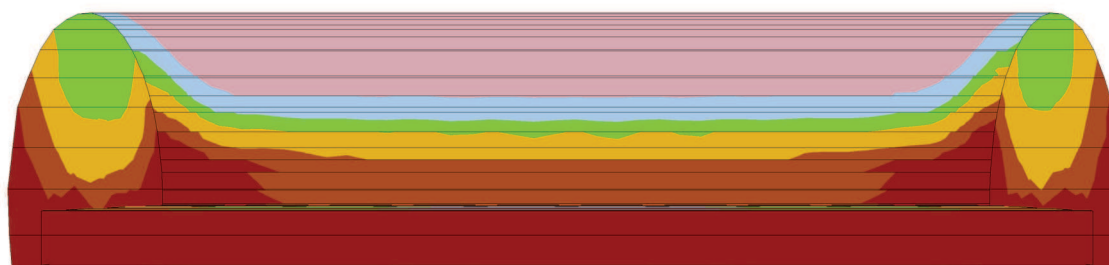
3D pseudo colours, View 1 (E)



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Calculation results, Escalator

3D pseudo colours, View from the back (E)



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Calculation results, Escalator

3D pseudo colours, View from the right (E)

