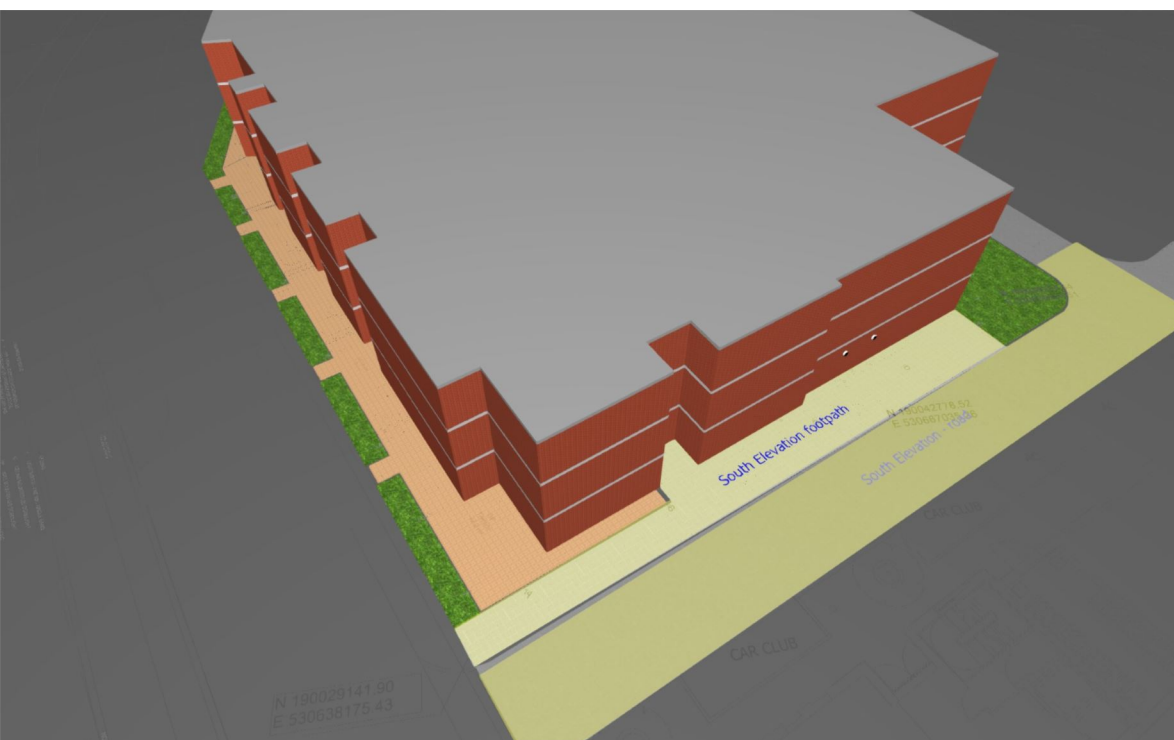




P22009 Chocolate Factory

External Lighting Lux Levels

Object

Block E2
Clarendon Road
London, N22

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Site 1

North Elevation - road

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Site 1

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Site 1

South Elevation - road

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Contacts

NLY Building Services Ltd

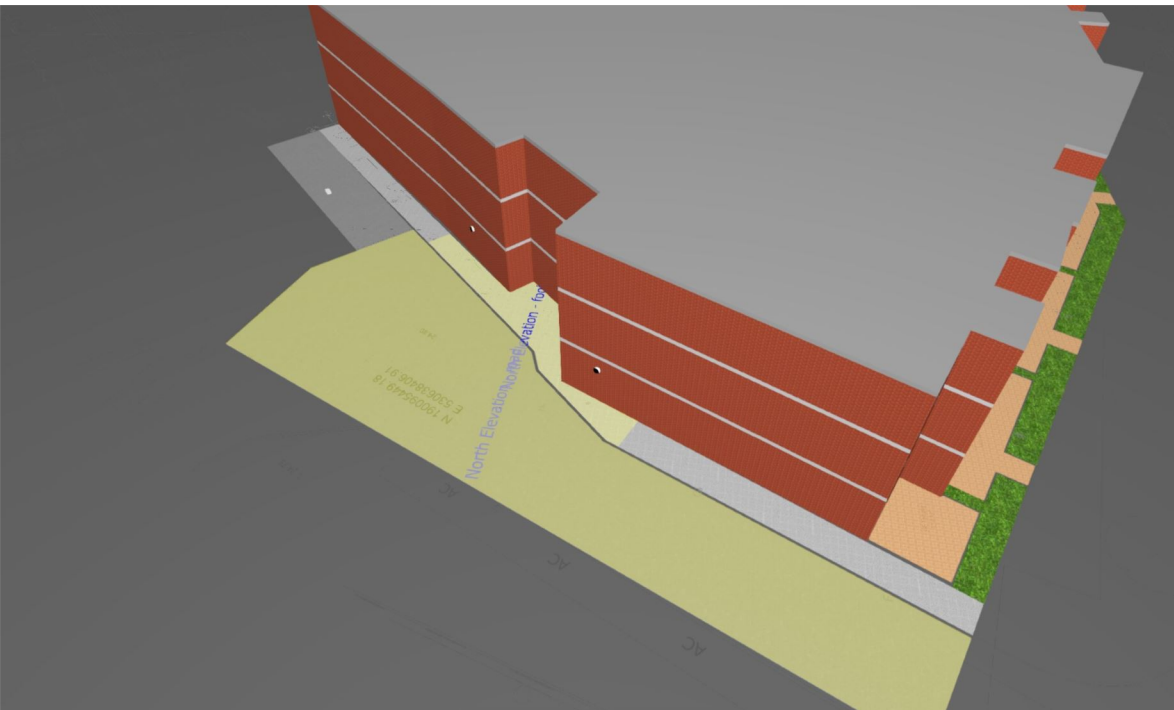
Director

N. Yankovec

NLY Building Services Ltd

T 07735398783

info@nlybuildingservices.com



Description

This report is for the lux lighting levels at the new residential Development at the Chocolate Factory, Haringey.

It is looking at the foot paths and roads on the North and South sides of the development.

The footpaths are to maintain an average lux level of 5 lux.
The roads are to maintain an average lux level of 20 lux.

NOTE

The North Road requires two columns that are not shown in this report as they fall outside of the site boundary. As such the calculation is currently showing as a fail.
The lighting column type and positions are shown on drawing P22009-E-141 revision C2 which shall be installed at a later date by others.

Director

N. Yankovec

NLY Building Services Ltd

T 07735398783

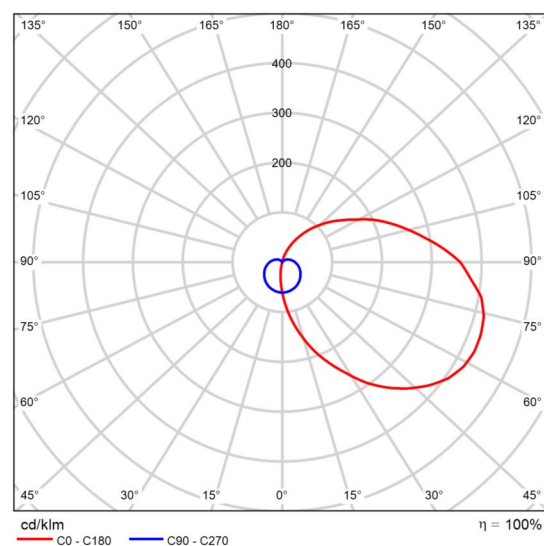
info@nlybuildingservices.com

Product data sheet

Thorlux Lighting - Cobalt LED - Satin Hood - 15W - 4000K



Article No.	CT19015
P	22.0 W
Φ_{Lamp}	1020 lm
$\Phi_{\text{Luminaire}}$	1016 lm
η	99.62 %
Luminous efficacy	46.2 lm/W
CCT	4000 K
CRI	80



Polar LDC

Circular wall mounted aluminium body luminaires with a choice of four cover frame styles. Opal or high efficiency satin polycarbonate cover. Excellent LED versions with optional microwave presence detector.

Applications: external pathway highlighting for schools, hospitals, retail, and other commercial environments. Anti ligature versions available.

Product data sheet

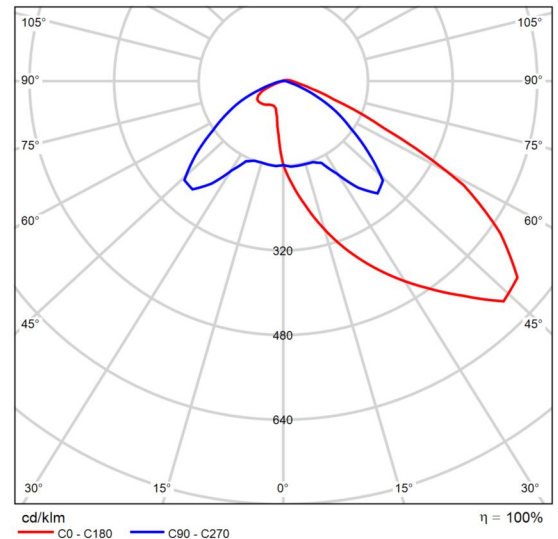
Thorlux Lighting - Starflood LED - 20W - 4000K



Article No.	STF17569
P	23.0 W
Φ_{Lamp}	2835 lm
$\Phi_{\text{Luminaire}}$	2835 lm
η	100.00 %
Luminous efficacy	123.3 lm/W
CCT	4000 K
CRI	70

Compact and stylish IP66 rated floodlight with precise optical control for both uplighting and downlighting applications from traditional floodlighting to illuminating signs and building facades. Suitable for wall or pole mounting. Available in 20W, 34W and 42W with a circuit efficiency of up to 109.1LL/CW.

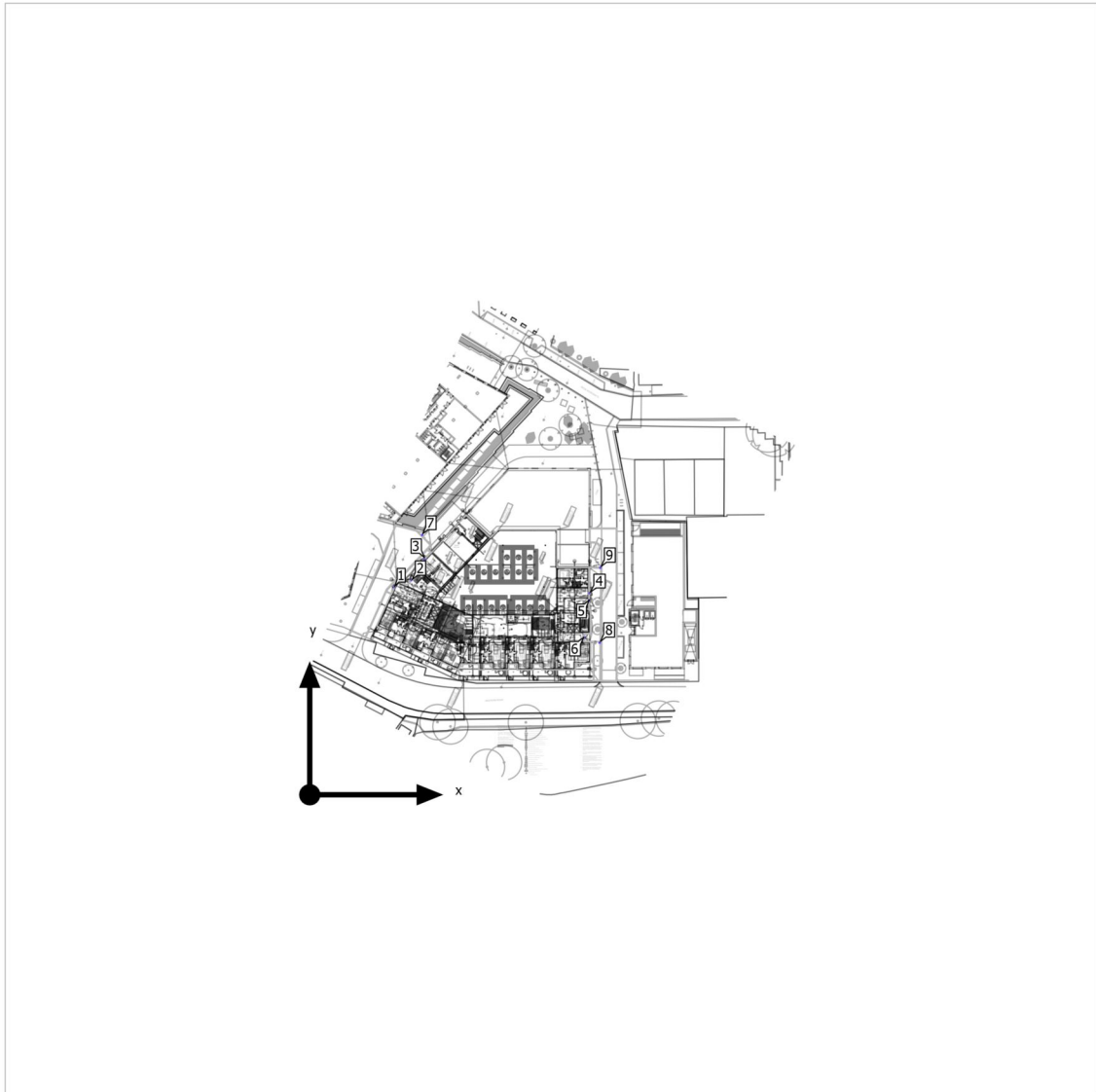
Applications: Footpaths, facades, architectural, signage, car parks and amenity areas



Polar LDC

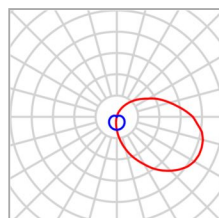
Site 1

Luminaire layout plan



Site 1

Luminaire layout plan



Manufacturer	Thorlux Lighting	P	22.0 W
Article No.	CT19015	$\Phi_{\text{Luminaire}}$	1016 lm
Article name	Cobalt LED - Satin Hood - 15W - 4000K		
Fitting	1x Cobalt Hood LED 15W 4000K		

Individual luminaires

X	Y	Mounting height	Luminaire
26.453 m	64.740 m	2.100 m	1
31.729 m	66.870 m	2.100 m	2
35.805 m	73.354 m	2.100 m	3
87.140 m	62.888 m	2.100 m	4
87.151 m	60.632 m	2.100 m	5
85.558 m	48.980 m	2.100 m	6

Site 1

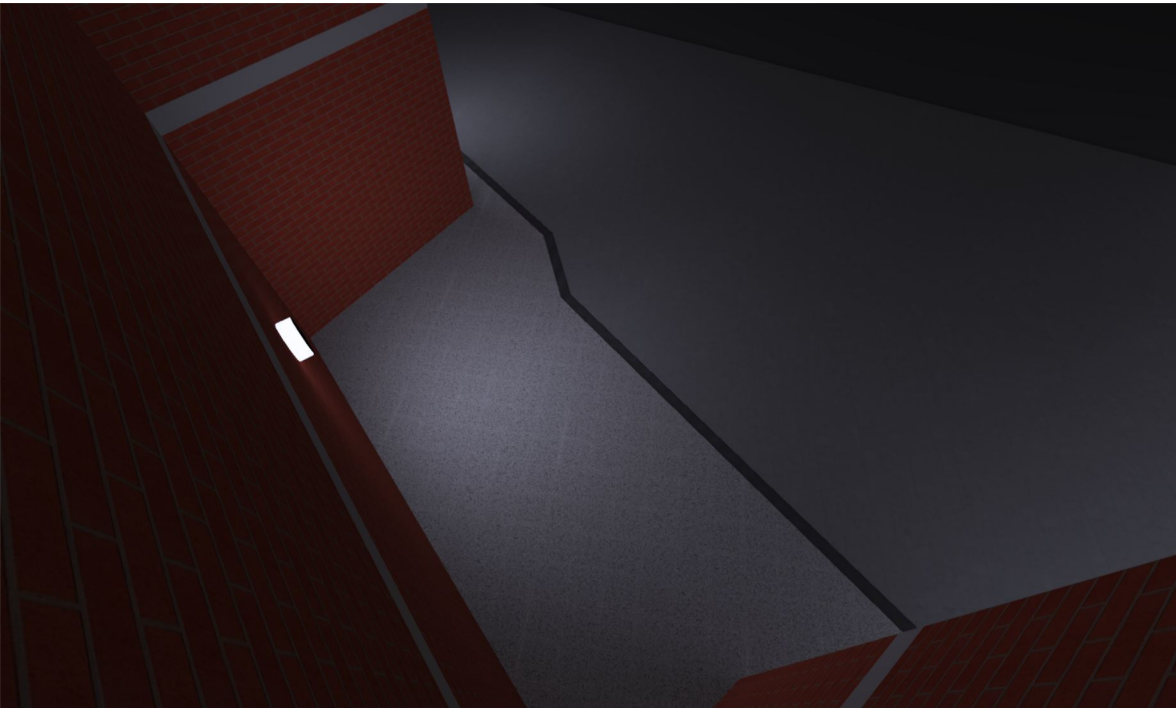
Luminaire layout plan



Manufacturer	Thorlux Lighting	P	23.0 W
Article No.	STF17569	$\Phi_{\text{Luminaire}}$	2835 lm
Article name	Starflood LED - 20W - 4000K		
Fitting	1x Starflood LED - 20W - 4000K		

Individual luminaires

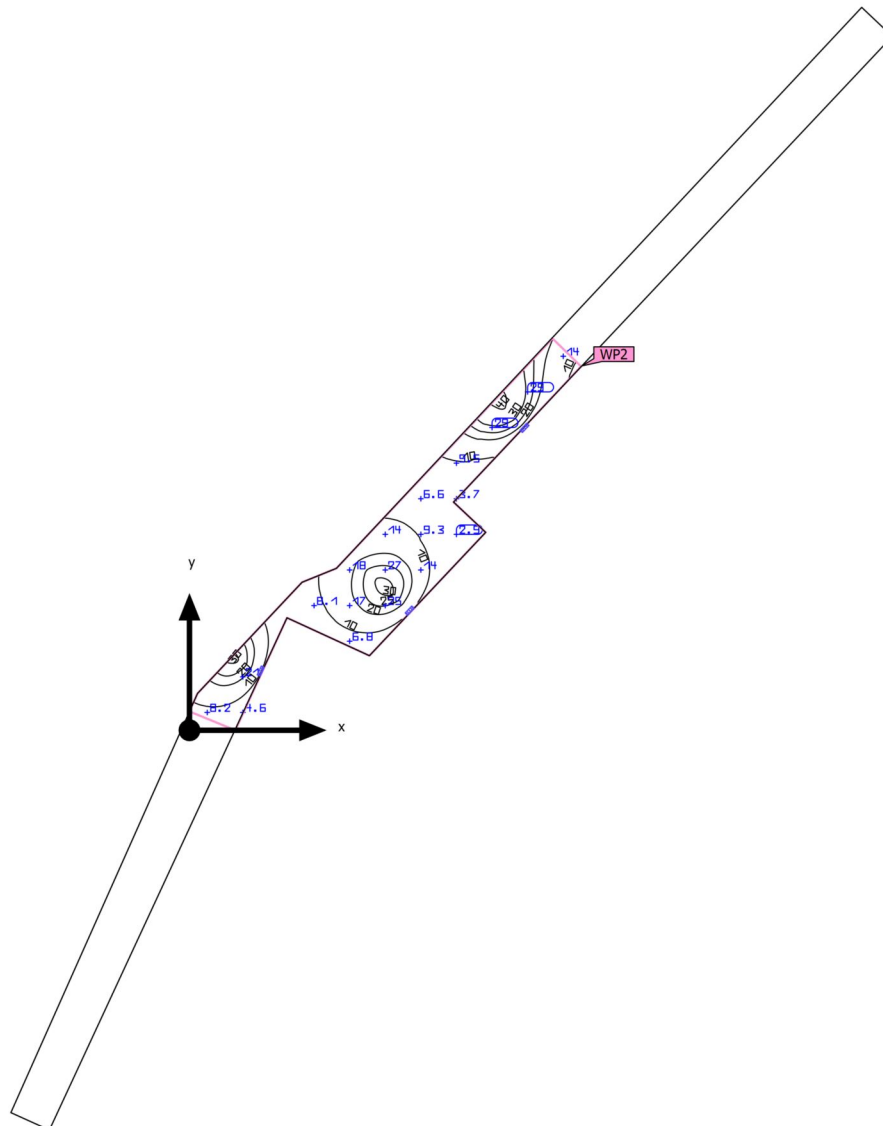
X	Y	Mounting height	Luminaire
35.077 m	81.011 m	4.000 m	7
90.390 m	47.380 m	4.000 m	8
90.606 m	70.738 m	4.000 m	9



North Elevation - footpath

Description

North Elevation - footpath

Summary

North Elevation - footpath

Summary

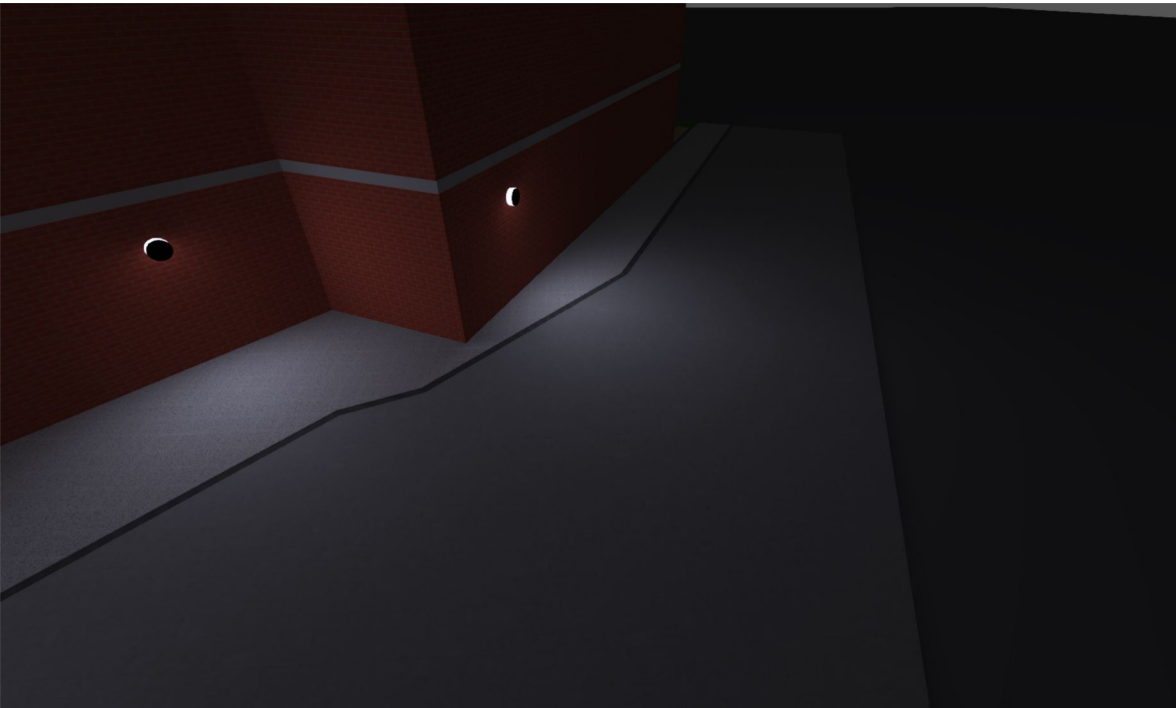
Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	14.6 lx	≥ 5.00 lx	✓	WP2
	g_1	0.074	-	-	WP2
Consumption values	Consumption	580 kWh/a	max. 1250 kWh/a	✓	
Room	Lighting power density	1.87 W/m ²	-	-	
		12.83 W/m ² /100 lx	-	-	

Utilisation profile: General circulation areas at outdoor workplaces, Walkways exclusively for pedestrians

Luminaire list

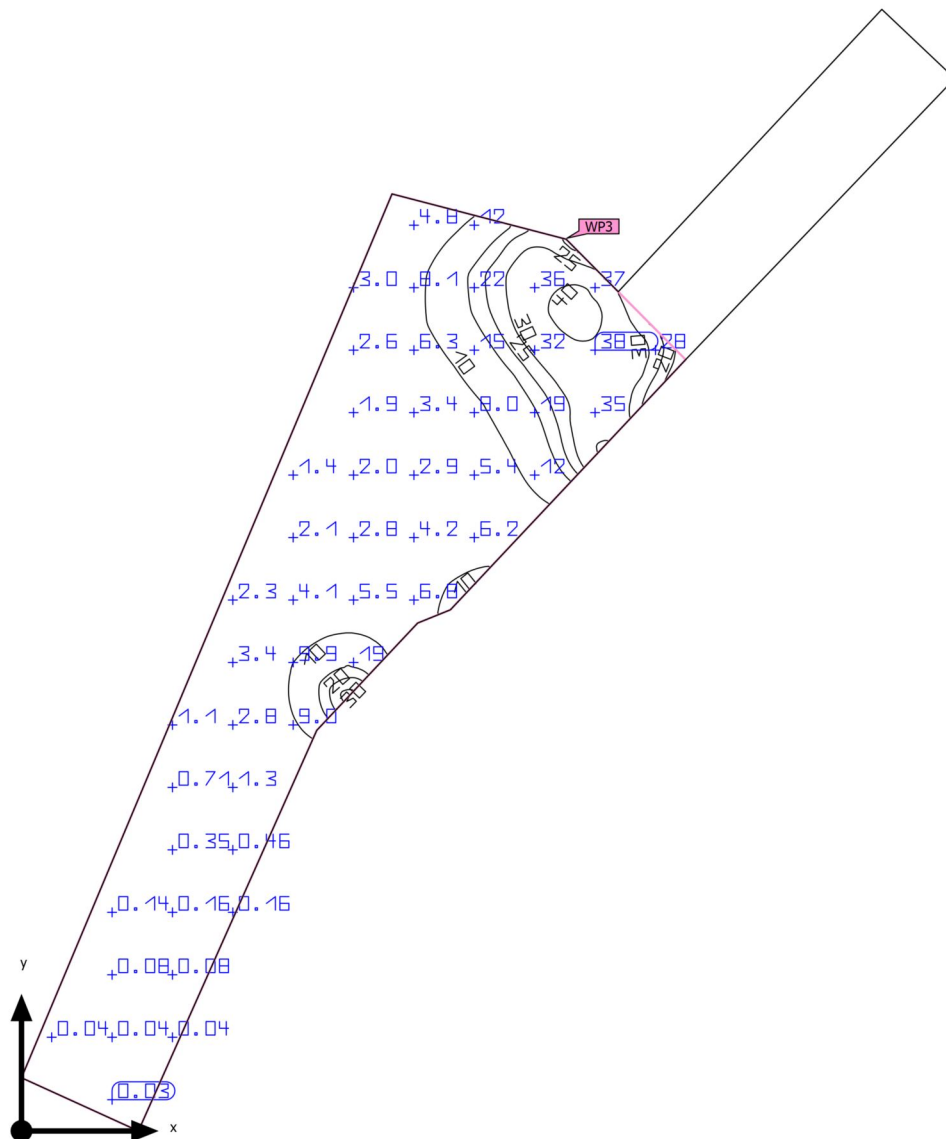
pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
3	Thorlux Lighting	CT19015	Cobalt LED - Satin Hood - 15W - 4000K	22.0 W	1016 lm	46.2 lm/W



North Elevation - road

Description

North Elevation - road

Summary

North Elevation - road

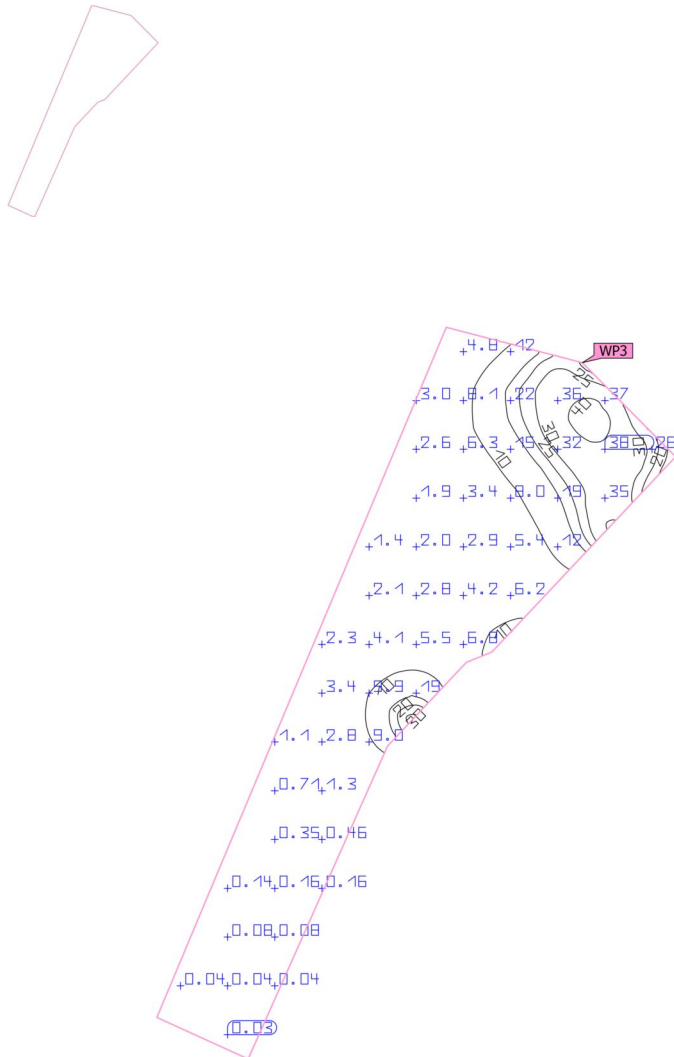
Summary

Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	8.56 lx	≥ 10.0 lx	✗	WP3
	g_1	0.003	-	-	WP3
Consumption values	Consumption	0 kWh/a	max. 50 kWh/a	✓	
Room	Lighting power density	0.00 W/m ²	-	-	
		0.00 W/m ² /100 lx	-	-	

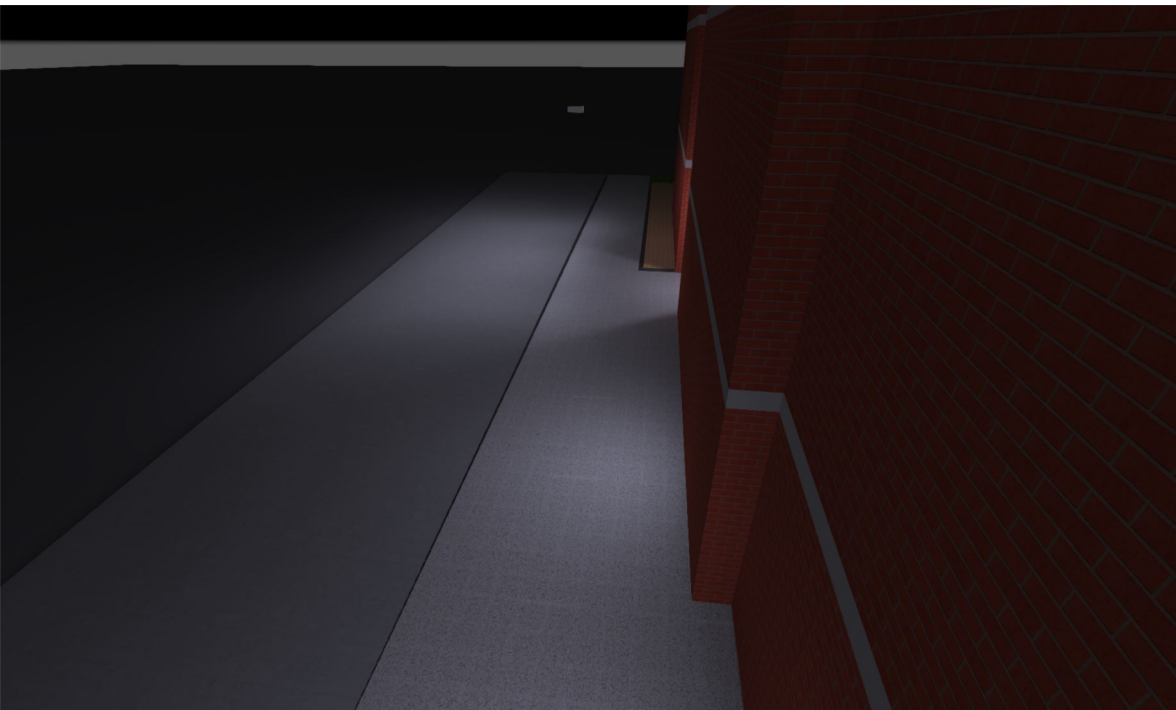
Utilisation profile: General circulation areas at outdoor workplaces, Traffic areas for slow-moving vehicles (max.10 km/h), e.g. bicycles, excavators

North Elevation - road

Working plane (North Elevation - road)

Properties	$\bar{E}$ (Target)	E_{min}	E_{max}	g_1	g_2	Index
Working plane (North Elevation - road)	8.56 lx	0.025 lx	43.2 lx	0.003	0.001	WP3
Perpendicular illuminance (adaptive)	(≥ 10.0 lx)					
Height: 0.025 m, Wall zone: 0.000 m	✗					

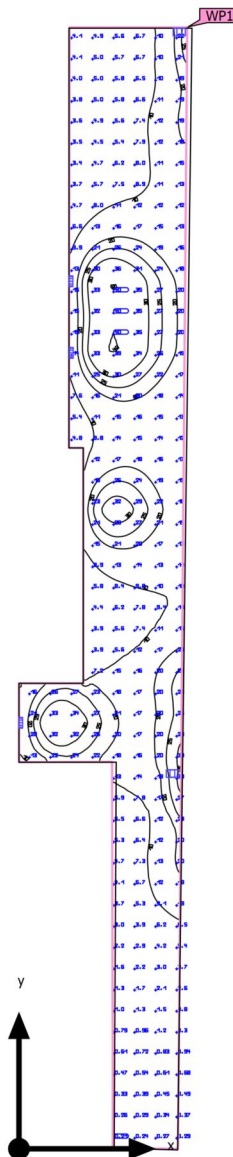
Utilisation profile: General circulation areas at outdoor workplaces, Traffic areas for slow-moving vehicles (max.10 km/h), e.g. bicycles, excavators



South Elevation footpath

Description

South Elevation footpath

Summary

South Elevation footpath

Summary

Results

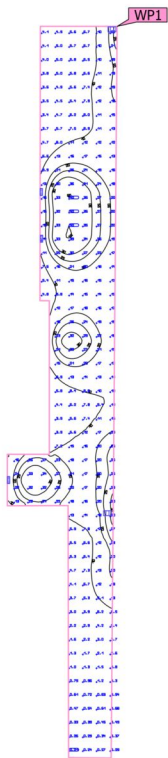
	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	14.3 lx	≥ 5.00 lx	✓	WP1
	g_1	0.015	-	-	WP1
Consumption values	Consumption	980 kWh/a	max. 3900 kWh/a	✓	
Room	Lighting power density	1.02 W/m ²	-	-	
		7.08 W/m ² /100 lx	-	-	

Utilisation profile: General circulation areas at outdoor workplaces, Walkways exclusively for pedestrians

Luminaire list

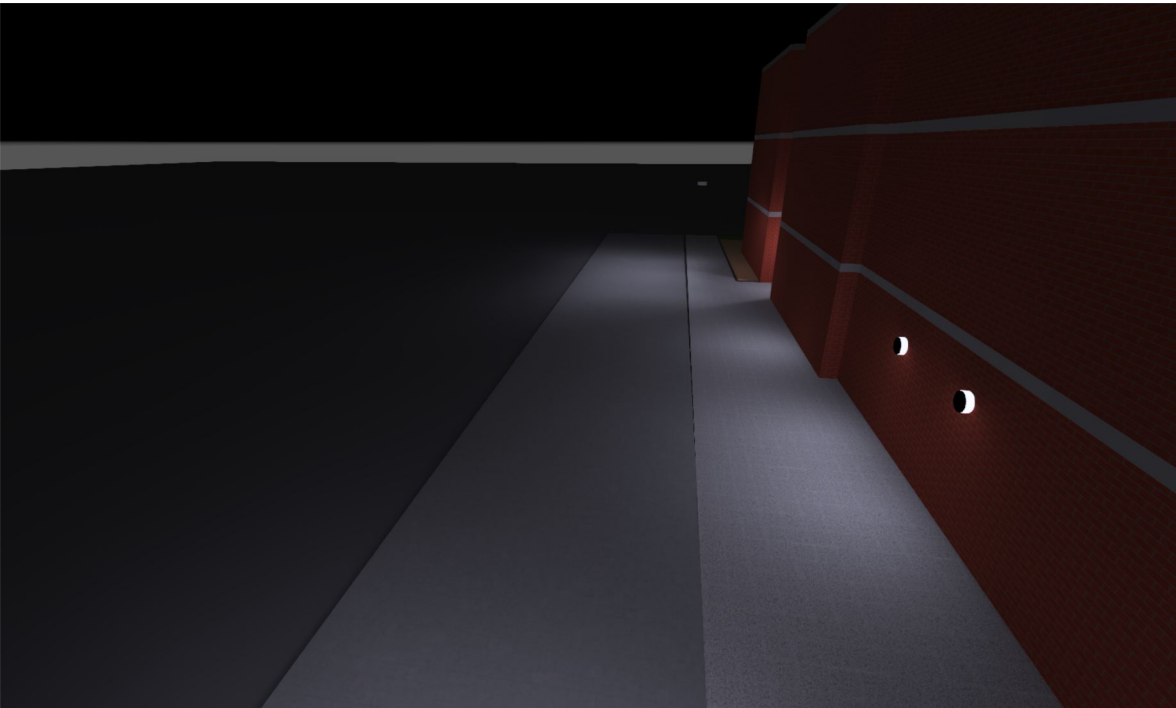
pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
3	Thorlux Lighting	CT19015	Cobalt LED - Satin Hood - 15W - 4000K	22.0 W	1016 lm	46.2 lm/W
2	Thorlux Lighting	STF17569	Starflood LED - 20W - 4000K	23.0 W	2835 lm	123.3 lm/W

South Elevation footpath
Working plane (South Elevation footpath)



Properties	$\bar{E}$ (Target)	E_{min}	E_{max}	g_1	g_2	Index
Working plane (South Elevation footpath) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	14.3 lx (≥ 5.00 lx) ✓	0.21 lx	40.2 lx	0.015	0.005	WP1

Utilisation profile: General circulation areas at outdoor workplaces, Walkways exclusively for pedestrians

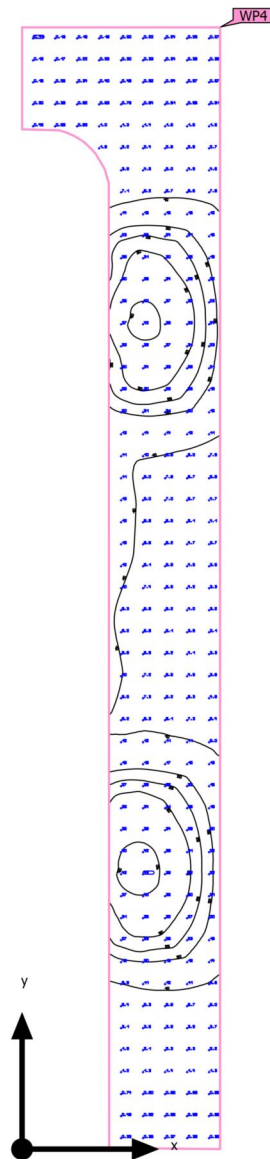


South Elevation - road

Description

South Elevation - road

Summary



South Elevation - road

Summary

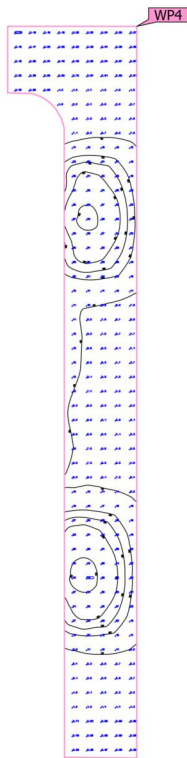
Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	12.8 lx	≥ 10.0 lx	✓	WP4
	g_1	0.008	-	-	WP4
Consumption values	Consumption	0 kWh/a	max. 50 kWh/a	✓	
Room	Lighting power density	0.00 W/m ²	-	-	
		0.00 W/m ² /100 lx	-	-	

Utilisation profile: General circulation areas at outdoor workplaces, Traffic areas for slow-moving vehicles (max.10 km/h), e.g. bicycles, excavators

South Elevation - road

Working plane (South Elevation - road)



Properties	$\bar{E}$ (Target)	E_{min}	E_{max}	g_1	g_2	Index
Working plane (South Elevation - road) Perpendicular illuminance (adaptive) Height: 0.025 m, Wall zone: 0.000 m	12.8 lx (≥ 10.0 lx) ✓	0.097 lx	43.6 lx	0.008	0.002	WP4

Utilisation profile: General circulation areas at outdoor workplaces, Traffic areas for slow-moving vehicles (max.10 km/h), e.g. bicycles, excavators