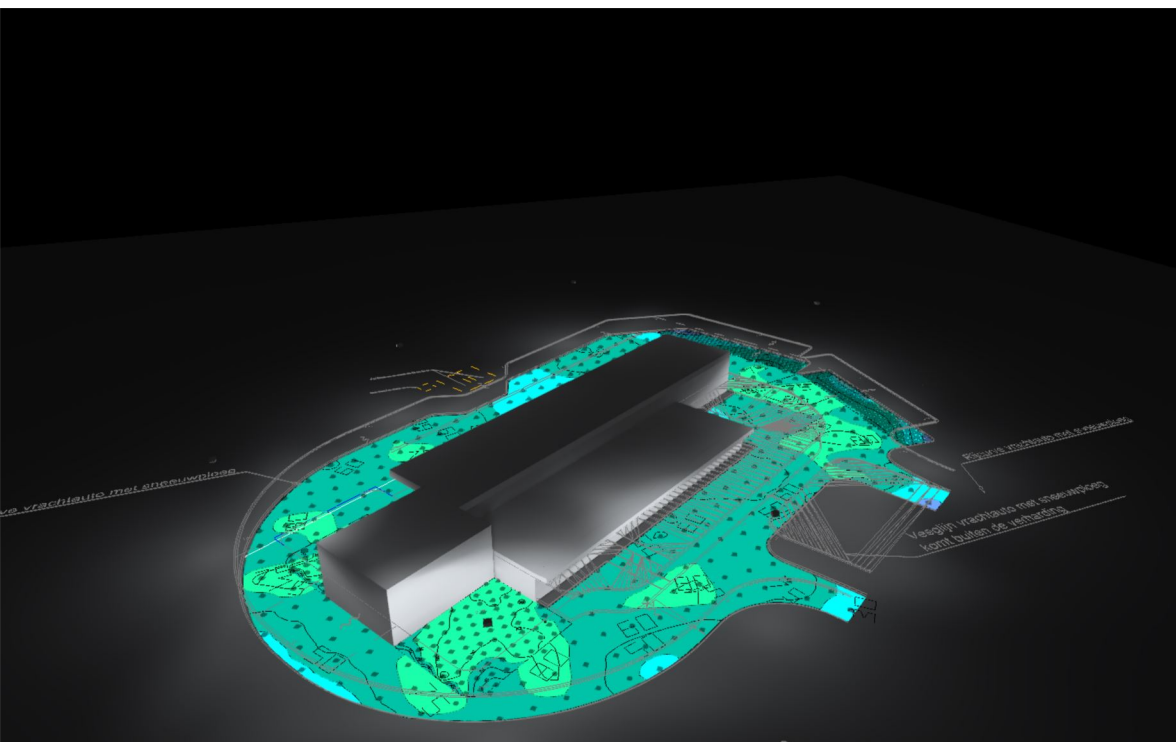




Vernieuwing steunpunt Coenecoop PZH

Lichtconcept

Content

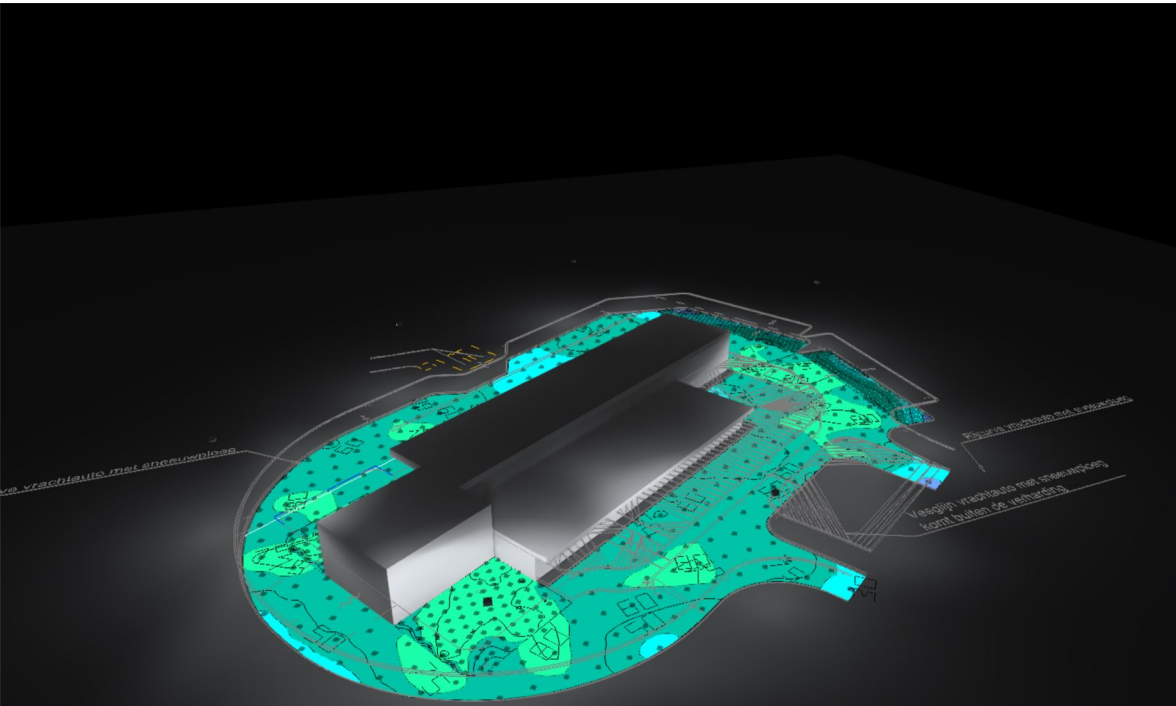
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Content	2
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Product data sheets

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ewo - R2 gen3_EP09-LR-144led (1x 70CRI-3000K-1300mA)	7

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Description

Uitgangspunten voor berekening:

De verlichting moet voldoen aan:

- Technische eisen terrein Coenecoop - Bijlage B2
- Programma van Eisen PZH - Bijlage B (19 juni 2019)
- NEN-EN 12464-2 (2014)

Tekening:

- x-ZHCC-ARC-SI-00-M3-CE-NW-DES-3D_Terrein

Voor de nieuwe lichtberekening zijn de lichttechnische eisen voor de buitenruimte vanuit NEN-EN 12464-2 gehanteerd. Daarbij is gekozen om voor het gebied "Pedestrian passagers, vehicle turning, loading and unloading points" vanuit Table 5.1 "General requirements for areas and for cleaning at outdoor work places" aan te houden.

De gehanteerde eisen voor dit gebied zijn:

- Gemiddeld lichtniveau $E_{gem} \geq 50$ lux
- De gelijkmatigheid $U_0 \geq 0,4$
- De kleurweergave-index $R_a \geq 20$
- Glare rating $R_{GL} \leq 50$

De parkeerplaatsen en de laad/los ruimte nabij de zoutloods dienen aan de eisen van "Technische eisen terrein Coenecoop - Bijlage B2" en "NEN-EN 12464-2" te voldoen:

- Autoparkerplaats $E_{\text{gem}} \geq 50 \text{ lux}$, $U_o \geq 0.25$
- Laad/los zoutloodruimte $E_{\text{gem}} \geq 75 \text{ lux}$, $U_o \geq 0.4$
- Het buitenterrein wordt voorzien van 7 lichtmasten met een hoogte van 12 meter
- R serie armaturen van EWO wordt toegepast

Luminaire list

 Φ_{total}

480184 lm

 P_{total}

3706.3 W

Luminous efficacy

129.6 lm/W

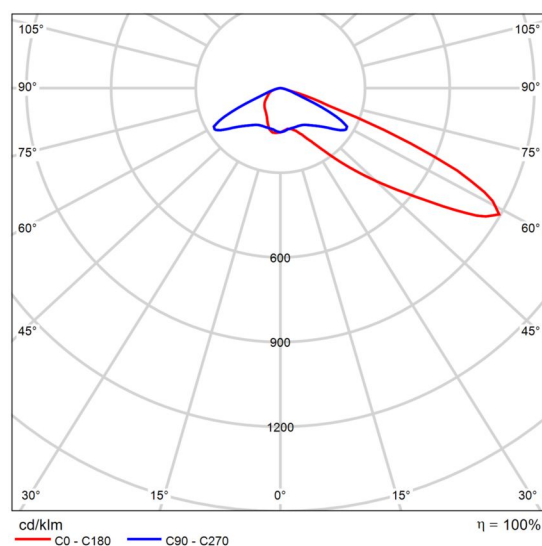
pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy	Index
5	ewo		R2 gen3_EP09-LR-144led	516.9 W	67434 lm	130.5 lm/W	A1
2	ewo		R2 gen3_EP09-LR-144led	560.9 W	71507 lm	127.5 lm/W	A1

Product data sheet

ewo - R2 gen3_EP09-LR-144led



P	516.9 W
Φ_{Lamp}	67737 lm
$\Phi_{\text{Luminaire}}$	67434 lm
η	99.55 %
Luminous efficacy	130.5 lm/W
CCT	3000 K
CRI	70
Index	A1



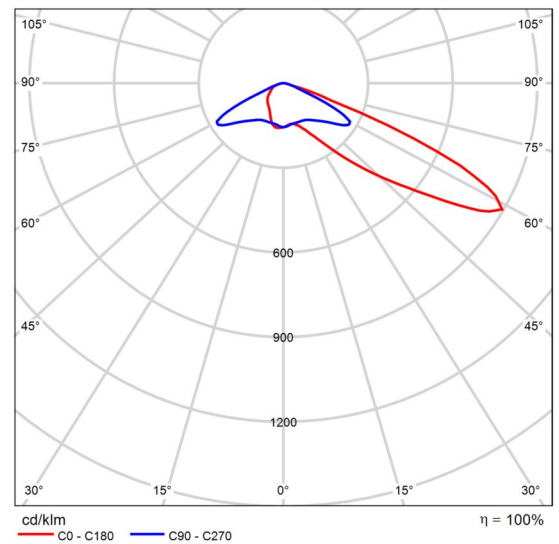
Polar LDC

Product data sheet

ewo - R2 gen3_EP09-LR-144led



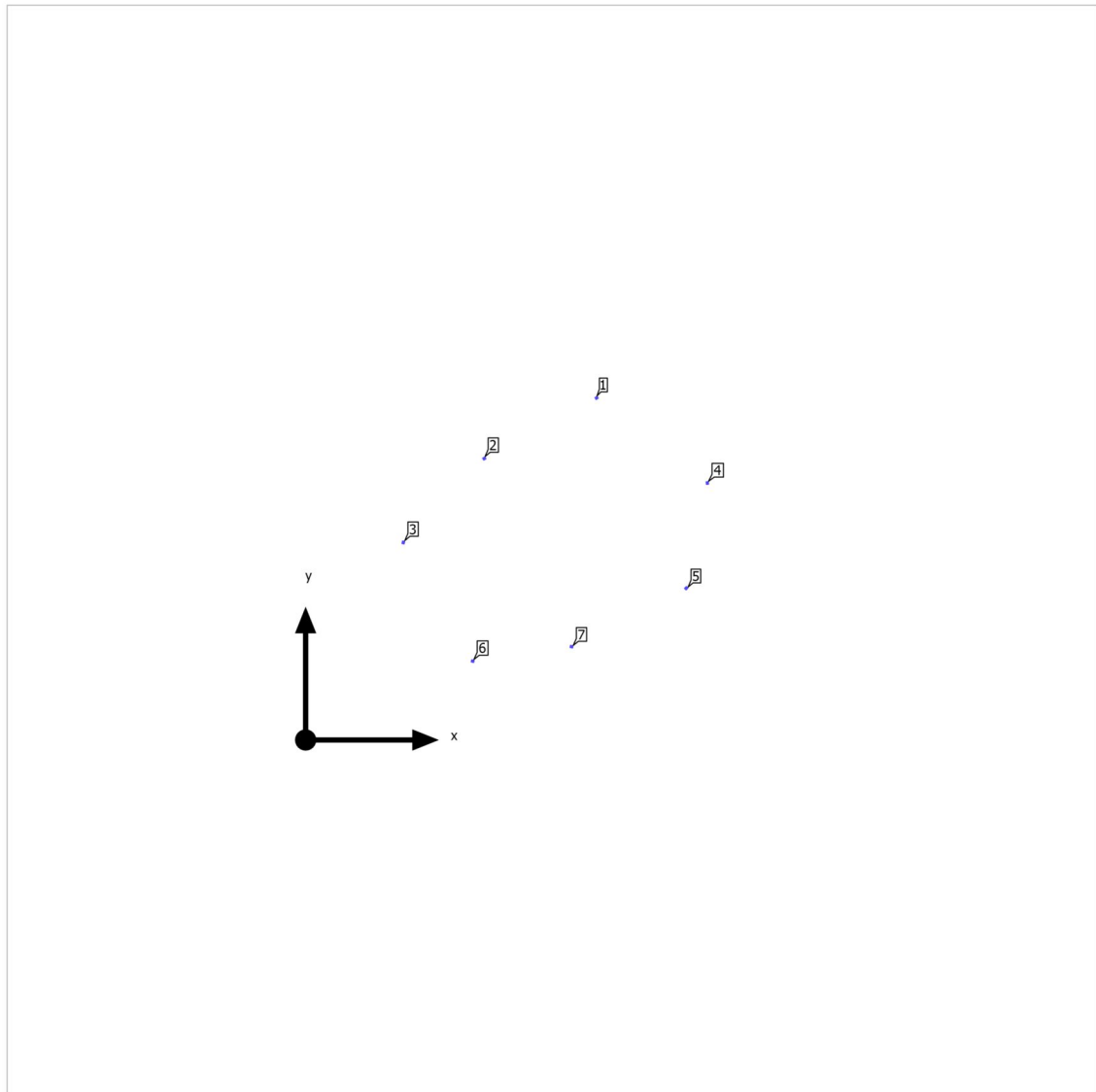
P	560.9 W
Φ_{Lamp}	71829 lm
$\Phi_{\text{Luminaire}}$	71507 lm
η	99.55 %
Luminous efficacy	127.5 lm/W
CCT	3000 K
CRI	70
Index	A1



Polar LDC

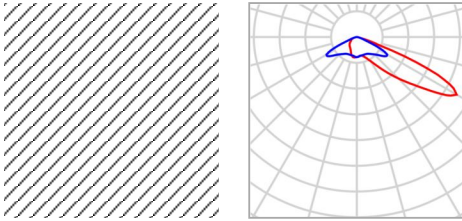
Coenecoop

Luminaire layout plan



Coenecoop

Luminaire layout plan



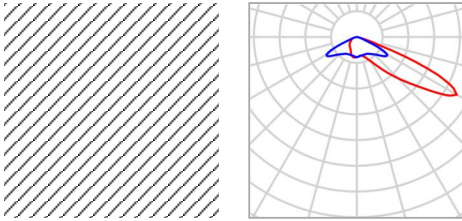
Manufacturer	ewo	P	516.9 W
Article name	R2 gen3_EP09-LR-144led	$\Phi_{\text{Luminaire}}$	67434 lm
Fitting	1x 70CRI-3000K-1200mA		
Index	A1		

Individual luminaires

X	Y	Mounting height	Luminaire
83.800 m	98.500 m	12.000 m	1
51.448 m	81.057 m	12.000 m	2
115.700 m	74.000 m	12.000 m	4
109.600 m	43.700 m	12.000 m	5
76.583 m	26.876 m	12.000 m	7

Coenecoop

Luminaire layout plan



Manufacturer	ewo	P	560.9 W
Article name	R2 gen3_EP09-LR-144led	$\Phi_{\text{Luminaire}}$	71507 lm
Fitting	1x 70CRI-3000K-1300mA		
Index	A1		

Individual luminaires

X	Y	Mounting height	Luminaire
28.131 m	56.875 m	12.000 m	3
48.100 m	22.700 m	12.000 m	6

Coenecoop

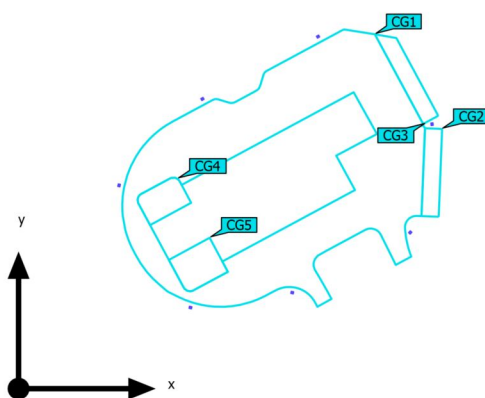
Luminaire list

Φ_{total} 480184 lm	P_{total} 3706.3 W	Luminous efficacy 129.6 lm/W
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pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy	Index
5	ewo		R2 gen3_EP09-LR-144led	516.9 W	67434 lm	130.5 lm/W	A1
2	ewo		R2 gen3_EP09-LR-144led	560.9 W	71507 lm	127.5 lm/W	A1

Coenecoop

Calculation objects



Coenecoop

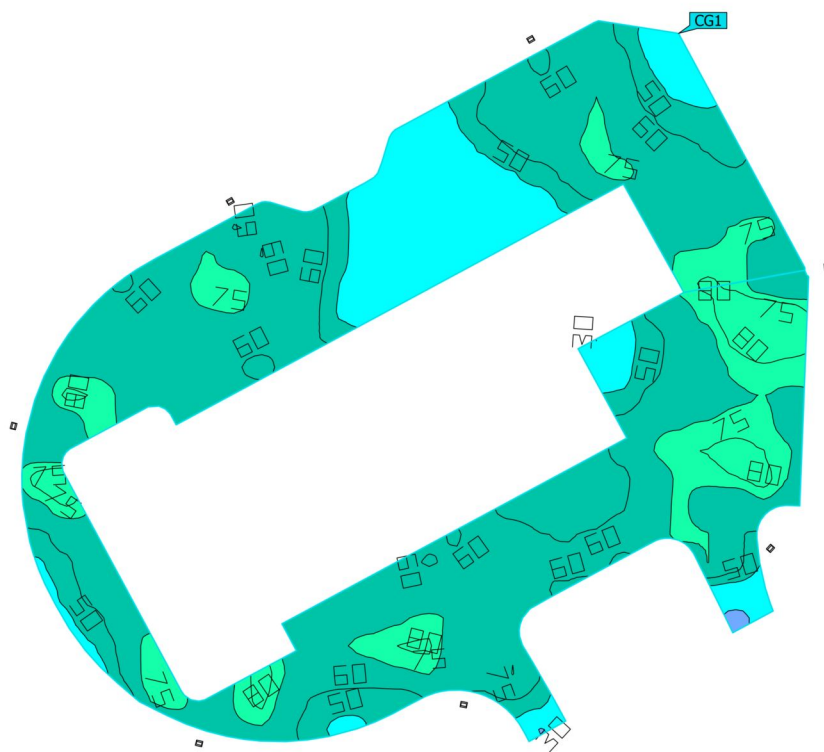
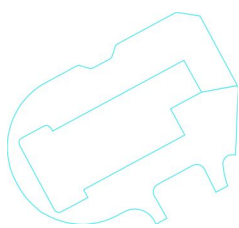
Calculation objects

Calculation surfaces

Properties	$\bar{E}$	E_{min}	E_{max}	g_1	g_2	Index
Buitenterrein Horizontal illuminance Height: 0.000 m	63.8 lx	26.3 lx	87.3 lx	0.41	0.30	CG1
Parkeerplaats 1 Horizontal illuminance Height: 0.000 m	55.6 lx	27.5 lx	72.0 lx	0.49	0.38	CG2
Parkeerplaats 2 Horizontal illuminance Height: 0.000 m	50.1 lx	22.6 lx	77.4 lx	0.45	0.29	CG3
Laden/lossen zoudlood 1 Horizontal illuminance Height: 0.000 m	77.4 lx	68.2 lx	84.5 lx	0.88	0.81	CG4
Laden/lossen zoudlood 2 Horizontal illuminance Height: 0.000 m	79.5 lx	62.6 lx	87.5 lx	0.79	0.72	CG5

Utilisation profile: DIALux presetting, Standard (outdoor transportation area)

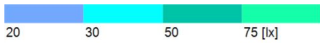
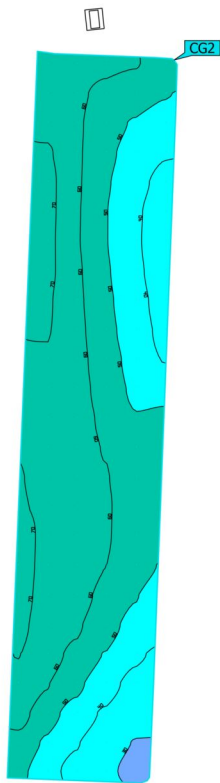
Coenecoop
Buitenterrein



Properties	$\bar{E}$	E_{min}	E_{max}	g_1	g_2	Index
Buitenterrein Horizontal illuminance Height: 0.000 m	63.8 lx	26.3 lx	87.3 lx	0.41	0.30	CG1

Utilisation profile: DIALux presetting, Standard (outdoor transportation area)

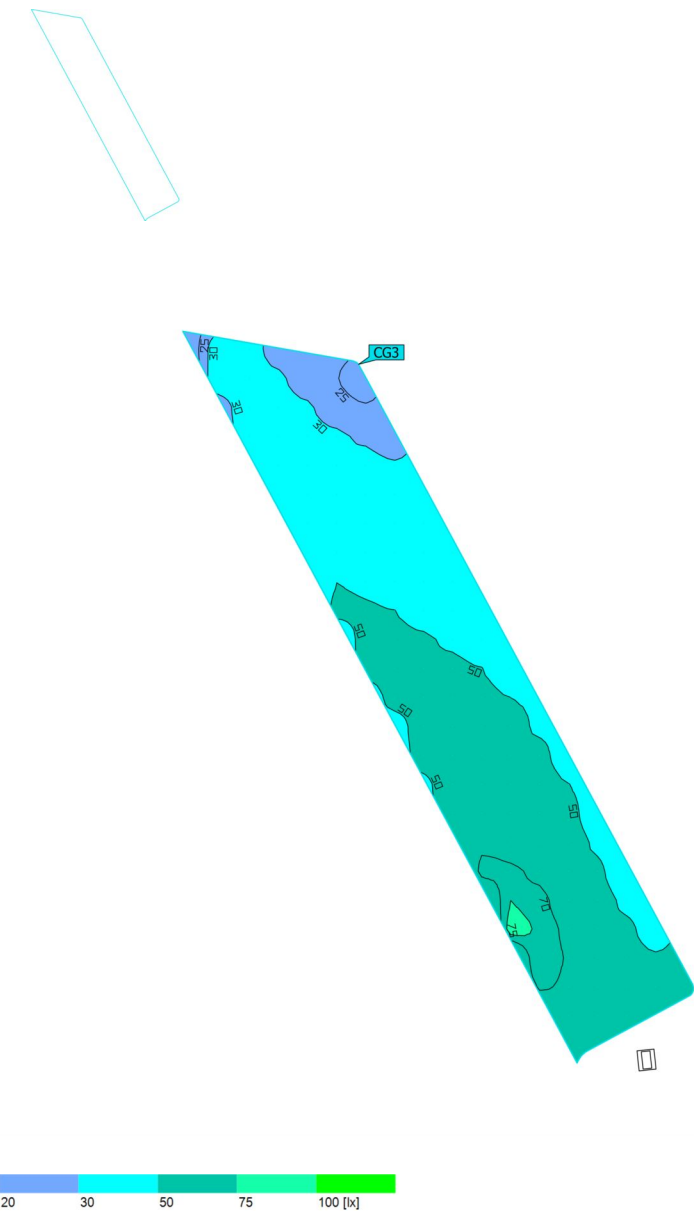
Coenecoop
Parkeerplaats 1



Properties	$\bar{E}$	E_{min}	E_{max}	g_1	g_2	Index
Parkeerplaats 1	55.6 lx	27.5 lx	72.0 lx	0.49	0.38	CG2
Horizontal illuminance						
Height: 0.000 m						

Utilisation profile: DIALux presetting, Standard (outdoor transportation area)

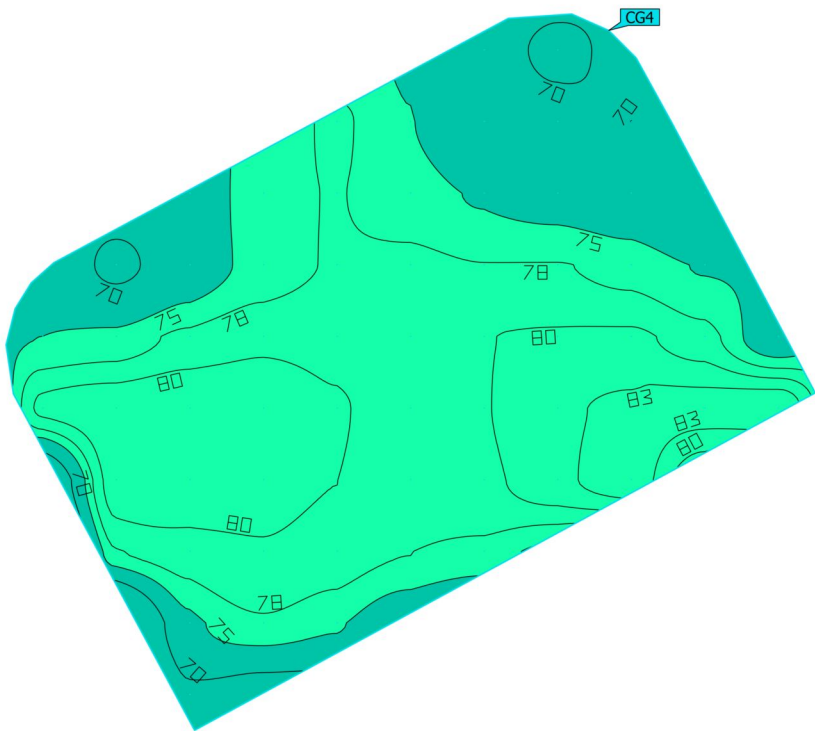
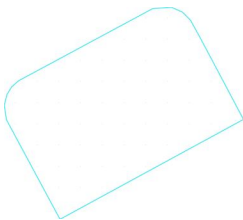
Coenecoop
Parkeerplaats 2



Properties	$\bar{E}$	E_{min}	E_{max}	g_1	g_2	Index
Parkeerplaats 2 Horizontal illuminance Height: 0.000 m	50.1 lx	22.6 lx	77.4 lx	0.45	0.29	CG3

Utilisation profile: DIALux presetting, Standard (outdoor transportation area)

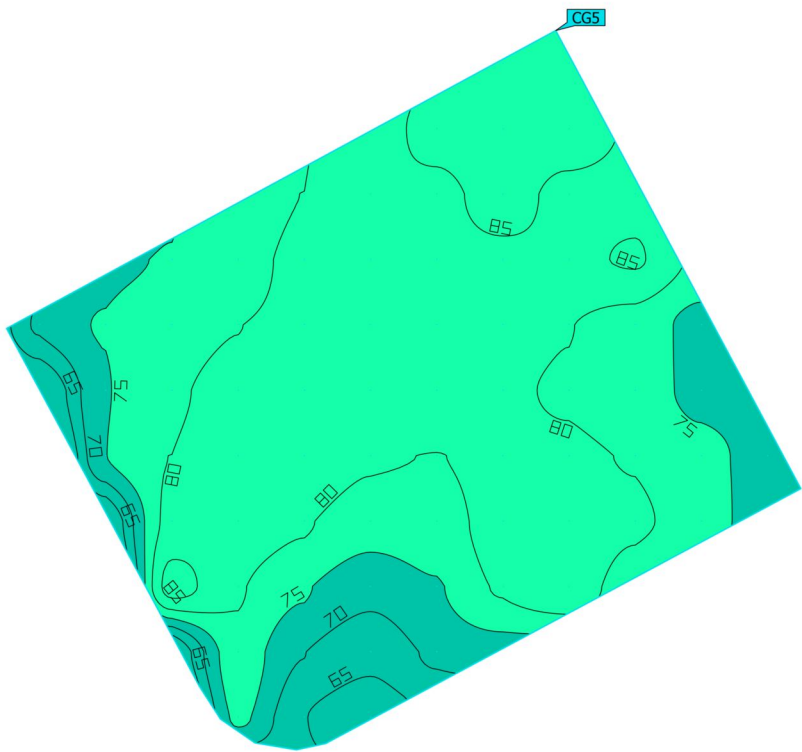
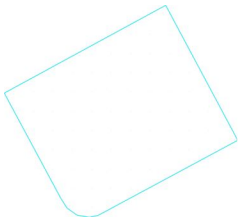
Coenecoop
Laden/lossen zoudlood 1



Properties	$\bar{E}$	E_{min}	E_{max}	g_1	g_2	Index
Laden/lossen zoudlood 1	77.4 lx	68.2 lx	84.5 lx	0.88	0.81	CG4
Horizontal illuminance						
Height: 0.000 m						

Utilisation profile: DIALux presetting, Standard (outdoor transportation area)

Coenecoop
Laden/lossen zoudlood 2



Properties	$\bar{E}$	E_{min}	E_{max}	g_1	g_2	Index
Laden/lossen zoudlood 2	79.5 lx	62.6 lx	87.5 lx	0.79	0.72	CG5
Horizontal illuminance						
Height: 0.000 m						

Utilisation profile: DIALux presetting, Standard (outdoor transportation area)