Dato 02-03-2026



Gerbrandskolen boldbane - 1024585-003

Bygherre ønsker 125 lux på boldbanen.

Dette kan opnås ved montering af 3 stk. 1-modul asymmetriske projektører kippet 5 gr. på den ene side af banen og 3 stk. 2-modul asymmetriske projektører kippet 15 gr. på den anden side, hvor masterne står længst væk fra boldbanen. Masterne er 9 m høje.

Belysningen kan dæmpes, så de højeste lysniveauer kun anvendes, når der spilles kampe.

Spildlyset i de private haver ved højeste lux-niveau er 0,18 lux nærmest bygning og 1,88 lux lige bag hækken (til sammenligning giver en fuldmåne ca. 0,2 lux).

Redaktør
Anni Høy

Created with DIALux

Indhold

Omslag 1
Indhold 2
Billeder 3
Liste over armaturer 5

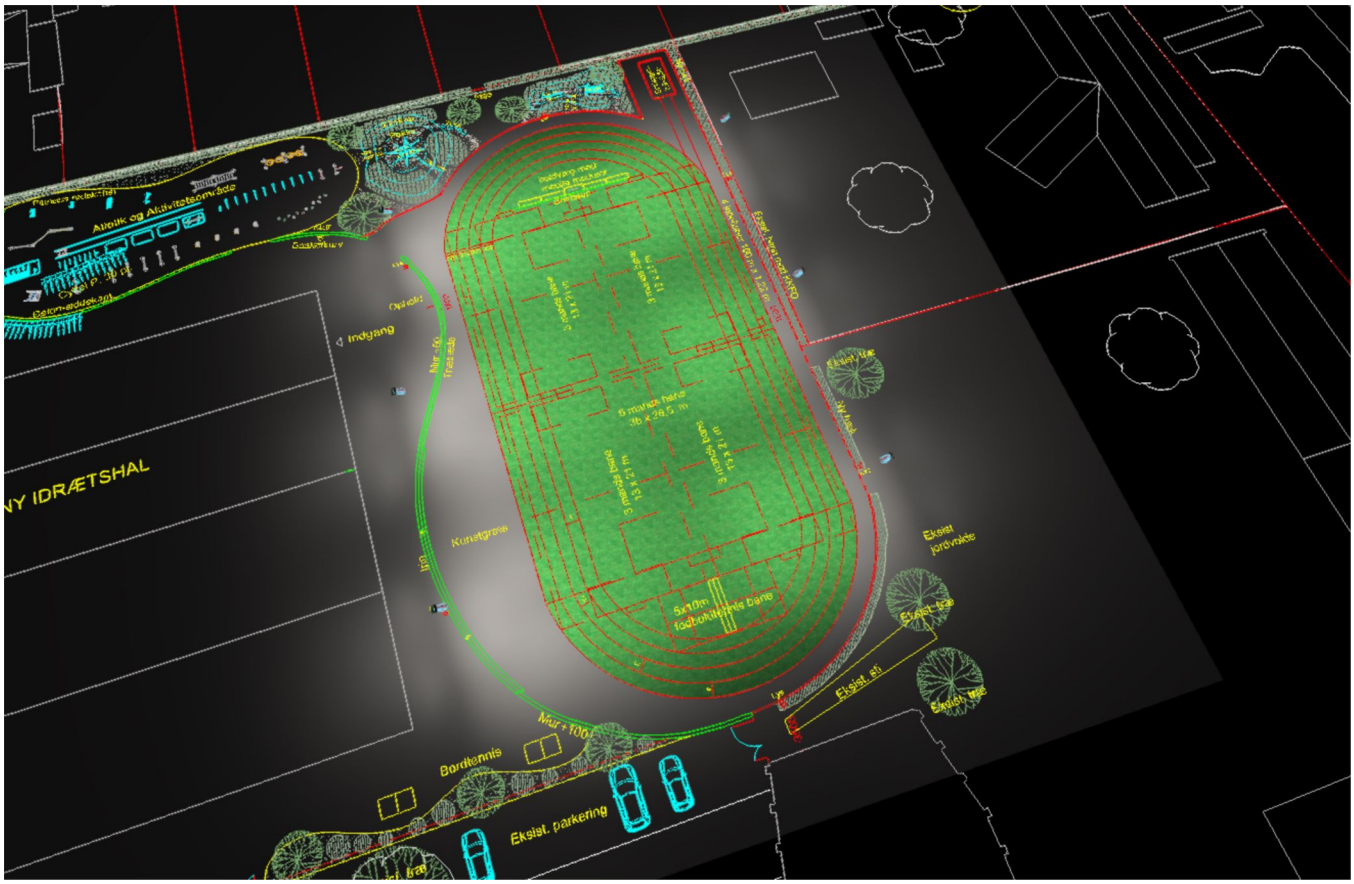
Produktdatablade

Disano Illuminazione S.p.A - 2177 Forum HE WITH GLASS - 1 MODULE - asymmetric 50° 3000K CRI 70 370W CLD Anthracite (1x led_2177_3k) 6
Disano Illuminazione S.p.A - 2200 Forum HE WITH GLASS - 2 MODULES - asymmetric 50° 3000K CRI 70 740W CLD Anthracite (1x led_2200_3k) 7

Terræn 1

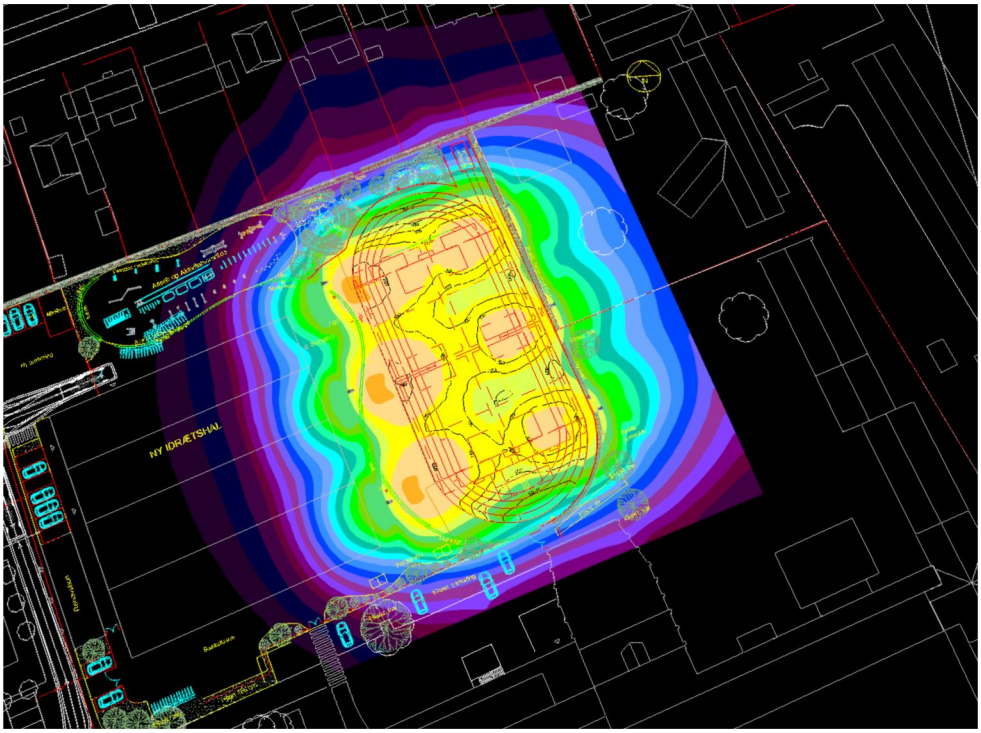
Plan over placering af armaturer 9
Beregningsobjekter / Lysscene 1 12
Beregningsflade 5-mands bane / Lysscene 1 / Lodrette belysningsstyrker 14
Beregningsflade 2 / Lysscene 1 / Lodrette belysningsstyrker 15

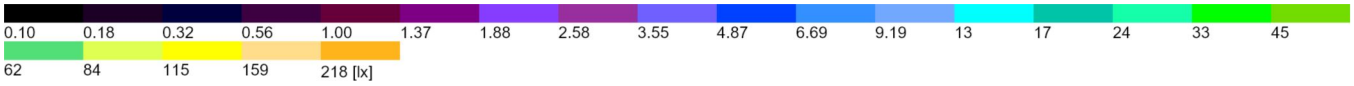
Billeder



Boldbane 3D

Billeder





Boldbane 3D fejlfarver

Liste over armaturer

Φ_{Samlet}	P_{Samlet}	Lysudbytte
484368 lm	3330.0 W	145.5 lm/W

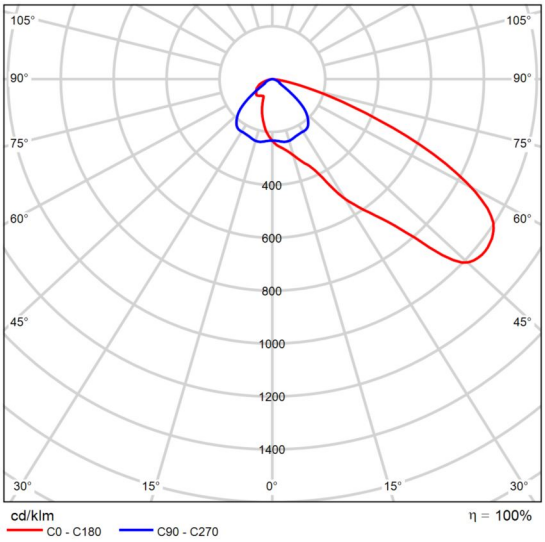
stk.	Fabrikant	Artikel-nr.	Artikelnavn	P	Φ	Lysudbytte
3	Disano Illuminazione S.p.A	412697-39	2200 Forum HE WITH GLASS - 2 MODULES - asymmetric 50° 3000K CRI 70 740W CLD Anthracite	740.0 W	107637 lm	145.5 lm/W
3	Disano Illuminazione S.p.A	412698-39	2177 Forum HE WITH GLASS - 1 MODULE - asymmetric 50° 3000K CRI 70 370W CLD Anthracite	370.0 W	53819 lm	145.5 lm/W

Produktdatablad

Disano Illuminazione S.p.A - 2177 Forum HE WITH GLASS - 1 MODULE - asymmetric 50° 3000K CRI 70 370W CLD Anthracite



Artikel-nr.	412698-39
P	370.0 W
Φ_{Lampe}	53820 lm
$\Phi_{Armatur}$	53819 lm
η	100.00 %
Lysudbytte	145.5 lm/W
CCT	3000 K
CRI	70



Polare LFK'er

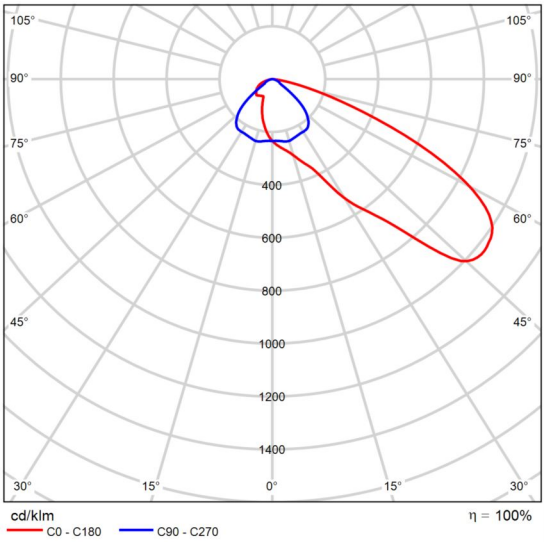
Housing: in die-cast aluminium, with cooling fins.Optics: aluminium coated with very high purity (99.99%) silver using physical vapour deposition (PVD).Diffuser: extra-clear, tempered glass, 4 mm thick, resistant to thermal shock and impact (UNI-EN 12150-1:2001) .Coating: the fully automated powder-coating cycle involves a polyester-based, salt-spray corrosion-resistant and UV-stabilised paint.Special coating: Upon request: protective coating recommended for marine environments within 5 km (3 miles) of the sea.Heat Sink: the heat sink is designed and made to allow the LEDs to operate at temperatures capable of ensuring excellent performance/output and long service life.Wiring: power supply 220-240V 50/60Hz; with external IP66 driver on 1-2 LED module versions.LED: 80%: - 90.000h - (L80B10) 90%: - 50.000h - (L90B10) Laboratory tests: certified ball impact resistant in accordance with DIN 18032-3:2018.Equipment: - with galvanised and painted bracket. - waterproof connector for quick installation with no need to open the fixture. - temperature controller with auto-reset - EN 61547 compliant surge protection. - anti-condensation valve. - goniometric scale.Temperature Chart (Description): -30 °C ÷ +40 °COn request: - adjustment with DIMM 1-10V (20 to 100%) or DALI driver - power line carrier remote control - wireless control system

Produktdatablad

Disano Illuminazione S.p.A - 2200 Forum HE WITH GLASS - 2 MODULES - asymmetric 50° 3000K CRI 70 740W CLD Anthracite



Artikel-nr.	412697-39
P	740.0 W
Φ_{Lampe}	107639 lm
$\Phi_{Armatur}$	107637 lm
η	100.00 %
Lysudbytte	145.5 lm/W
CCT	3000 K
CRI	70



Polare LFK'er

Housing: in die-cast aluminium, with cooling fins. Frame structure in die-cast aluminium with housing for fixing the support bracket.Optics: in high-performance metallised polycarbonate.Diffuser: extra-clear, tempered glass, 4 mm thick, resistant to thermal shock and impact (UNI-EN 12150-1:2001) .Coating: the fully automated powder-coating cycle involves a polyester-based, salt-spray corrosion-resistant and UV-stabilised paint.Special coating: Upon request: protective coating recommended for marine environments within 5 km (3 miles) of the sea.Heat Sink: the heat sink is designed and made to allow the LEDs to operate at temperatures capable of ensuring excellent performance/output and long service life.Wiring: power supply 220-240V 50/60Hz; with external IP66 driver on 1-2 LED module versions.Low flicker: luminaire with very low flicker: evenly distributed light for greater visual safety.Photobiological risk: exempt risk group according to EN62471.: EN60598-1. They have a degree of protection according to the EN60529 standard.Laboratory tests: certified ball impact resistant in accordance with DIN 18032-3:2018.Equipment: - with bracket. - temperature controller with auto-reset. - EN 61547 compliant surge protection. - anti-condensation valve. - goniometric scale.Easy installation: adjustment of the individual modules to an

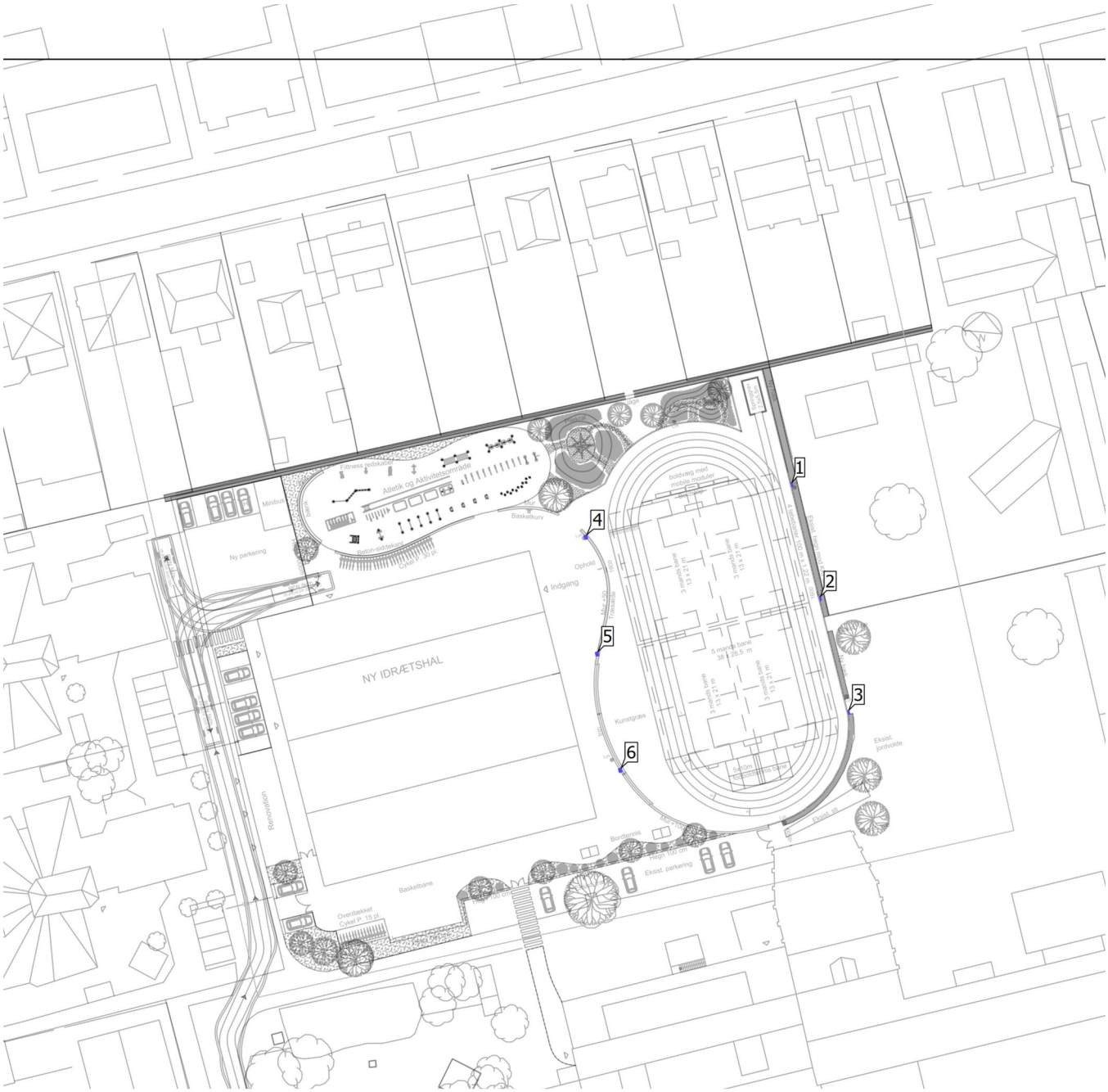
Produktdatablad

Disano Illuminazione S.p.A - 2200 Forum HE WITH GLASS - 2 MODULES - asymmetric 50° 3000K CRI 70 740W CLD Anthracite

angle of +/- 20° around the module's horizontal axis.Warnings:
Registered Design DM/100271On request: - adjustment with DIMM
1-10V (20 to 100%) or DALI driver - power line carrier remote control
- wireless control system

Terræn 1

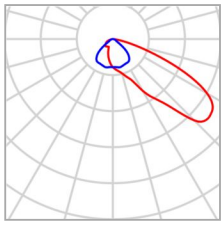
Plan over placering af armaturer



Terræn 1

Plan over placering af armaturer





Fabrikant	Disano Illuminazione S.p.A
Artikel-nr.	412697-39
Artikelnavn	2200 Forum HE WITH GLASS - 2 MODULES - asymmetric 50° 3000K CRI 70 740W CLD Anthracite
Udstyr	1x led_2200_3k

P	740.0 W
$\Phi_{Armatur}$	107637 lm

3 x Disano Illuminazione S.p.A 2200 Forum HE WITH GLASS - 2 MODULES - asymmetric 50° 3000K CRI 70 740W CLD Anthracite

Type	Armaturlinie
1. armatur (X/Y/Z)	268.145 m / 220.805 m / 9.004 m
X-retning	3 stk., Midten - midten, Afstande uregelmæssige

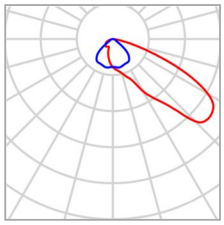
X	Y	Montagehøjde	Armatur
268.145 m	220.805 m	9.004 m	4
269.964 m	202.018 m	9.006 m	5
273.693 m	183.311 m	9.007 m	6

Terræn 1

Plan over placering af armaturer







Fabrikant	Disano Illuminazione S.p.A
Artikel-nr.	412698-39
Artikelnavn	2177 Forum HE WITH GLASS - 1 MODULE - asymmetric 50° 3000K CRI 70 370W CLD Anthracite
Udstyr	1x led_2177_3k

P	370.0 W
$\Phi_{Armatur}$	53819 lm

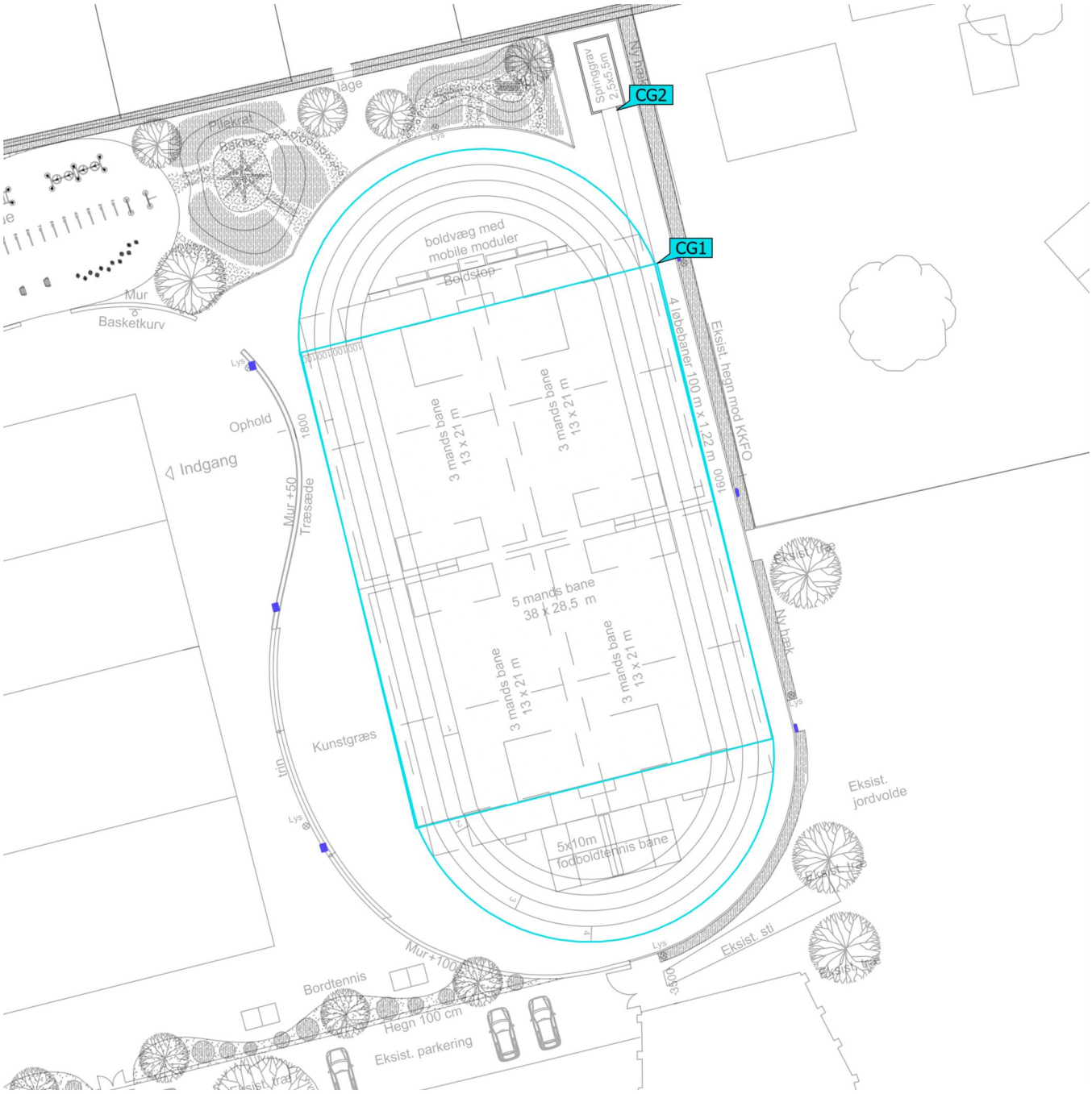
3 x Disano Illuminazione S.p.A 2177 Forum HE WITH GLASS - 1 MODULE - asymmetric 50° 3000K CRI 70 370W CLD Anthracite

Type	Armaturlinie
1. armatur (X/Y/Z)	310.444 m / 192.627 m / 9.000 m
X-retning	3 stk., Midten - midten, Afstande uregelmæssige

X	Y	Montagehøjde	Armatur
301.308 m	229.262 m	9.000 m	1
305.876 m	210.945 m	9.000 m	2
310.444 m	192.627 m	9.000 m	3

Terræn 1 (Lysscene 1)

Beregningsobjekter



Terræn 1 (Lysscene 1)

Beregningsobjekter

Beregningsflader

Egenskaber	Ē	E_{min}	E_{maks}	U_o (g_1)	g_2	Indeks
Beregningsflade 2 Lodrette belysningsstyrker Højde: 0.010 m	140 lx	26.1 lx	222 lx	0.19	0.12	CG2
Beregningsflade 5-mands bane Lodrette belysningsstyrker Højde: 0.010 m	149 lx	92.1 lx	227 lx	0.62	0.41	CG1

Anvendelsesprofil: DIALux forindstilling (5.1.4 Standard (færdselsområde udenfor))

Terræn 1 (Lysscene 1)

Beregningsflade 5-mands bane

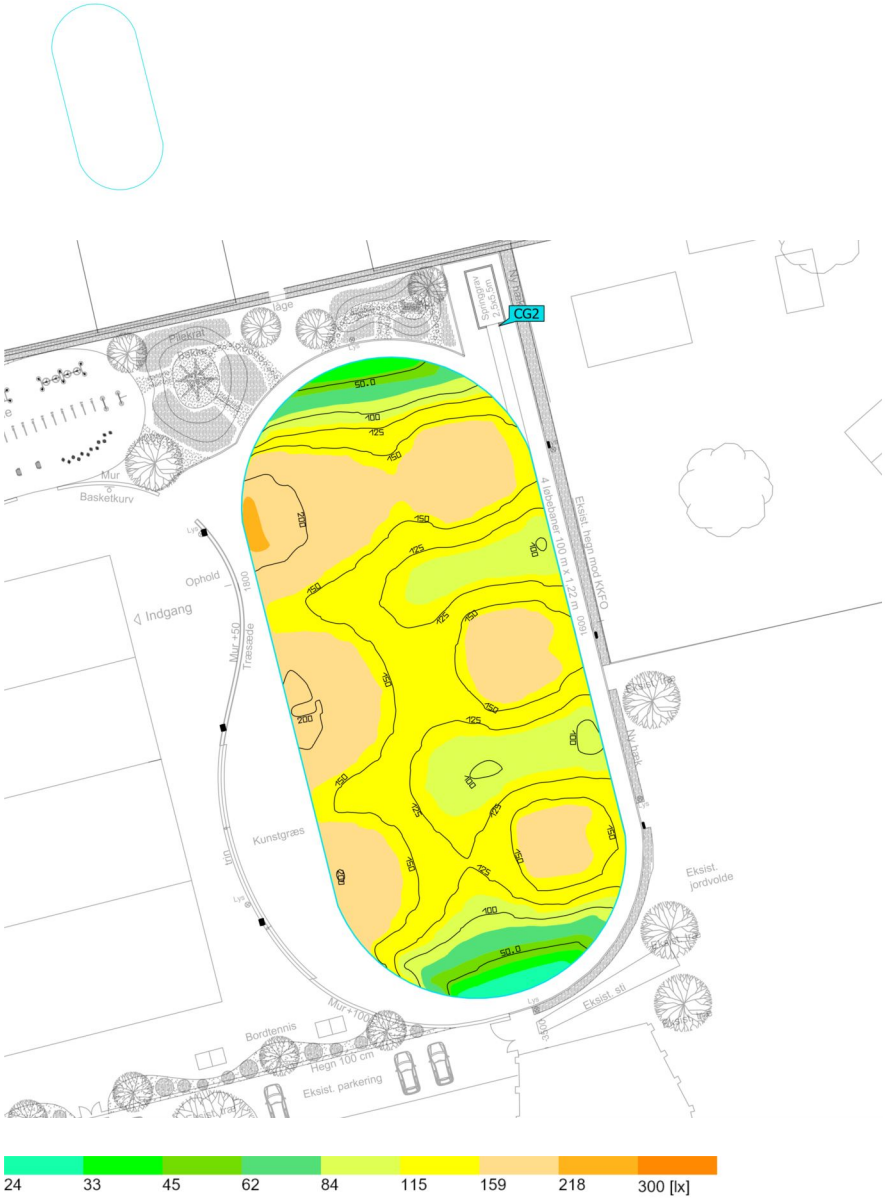


Egenskaber	Ē	E_{min}	E_{maks}	U_o (g_1)	g_2	Indeks
Beregningsflade 5-mands bane Lodrette belysningsstyrker Højde: 0.010 m	149 lx	92.1 lx	227 lx	0.62	0.41	CG1

Anvendelsesprofil: DIALux forindstilling (5.1.4 Standard (færdselsområde udenfor))

Terræn 1 (Lysscene 1)

Beregningsflade 2



Egenskaber	Ē	E_{min}	E_{maks}	U_o (g_1)	g_2	Indeks
Beregningsflade 2 Lodrette belysningsstyrker Højde: 0.010 m	140 lx	26.1 lx	222 lx	0.19	0.12	CG2

Anvendelsesprofil: DIALux forindstilling (5.1.4 Standard (færdselsområde udenfor))