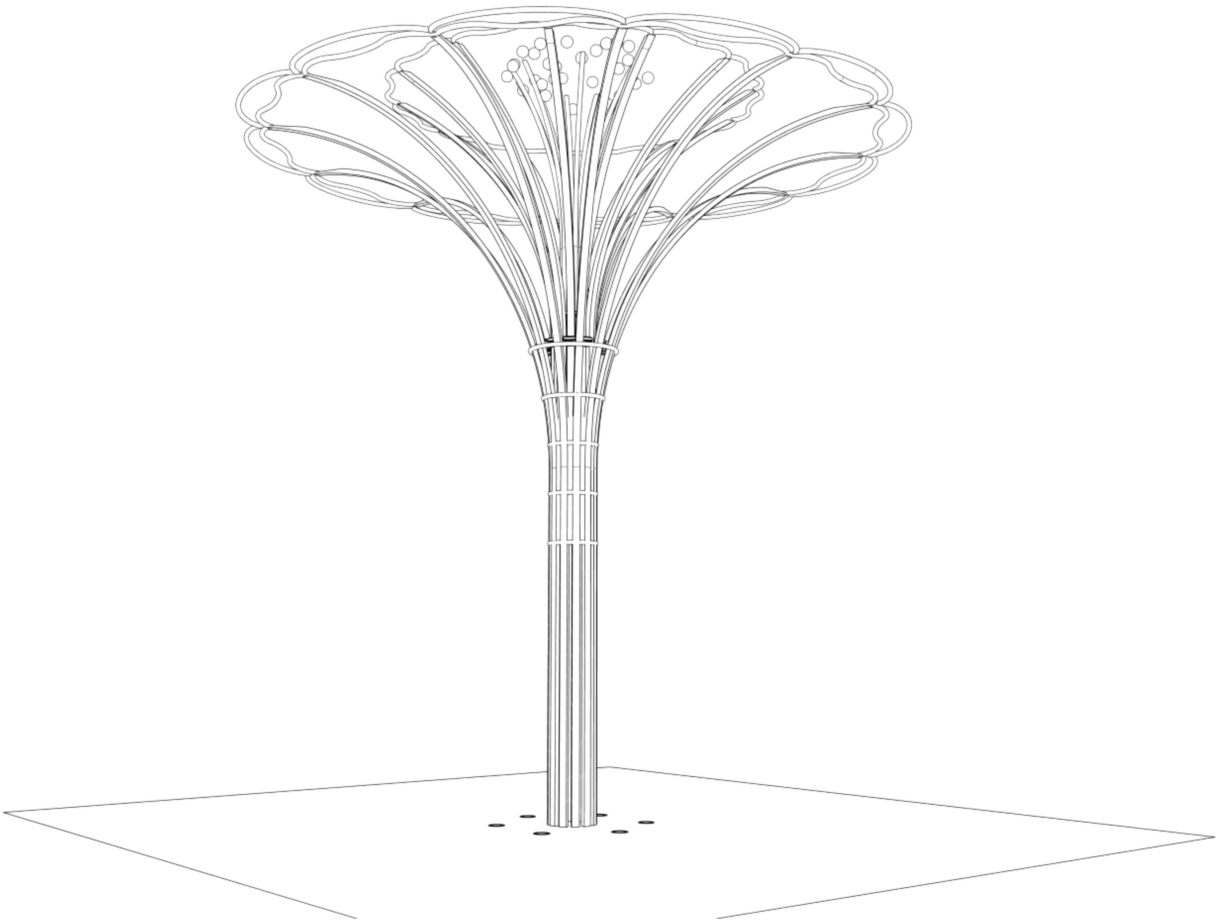




372-YRB - Three Roses

Feature Artwork Lighting for the Seam

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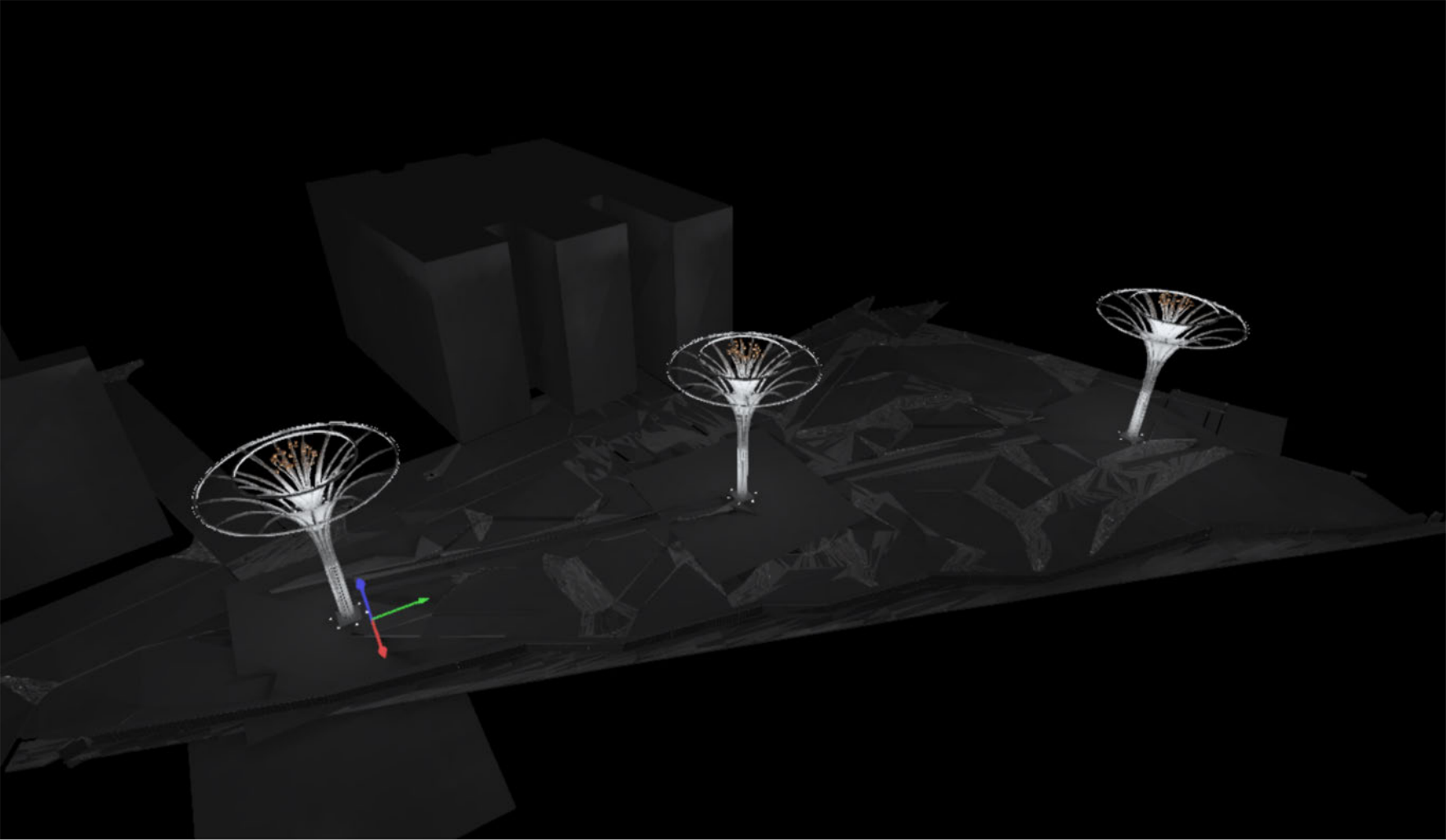
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Description

Luminaire list

Φ_{total}	P_{total}	Luminous efficacy
123729 lm	6232.2 W	19.9 lm/W

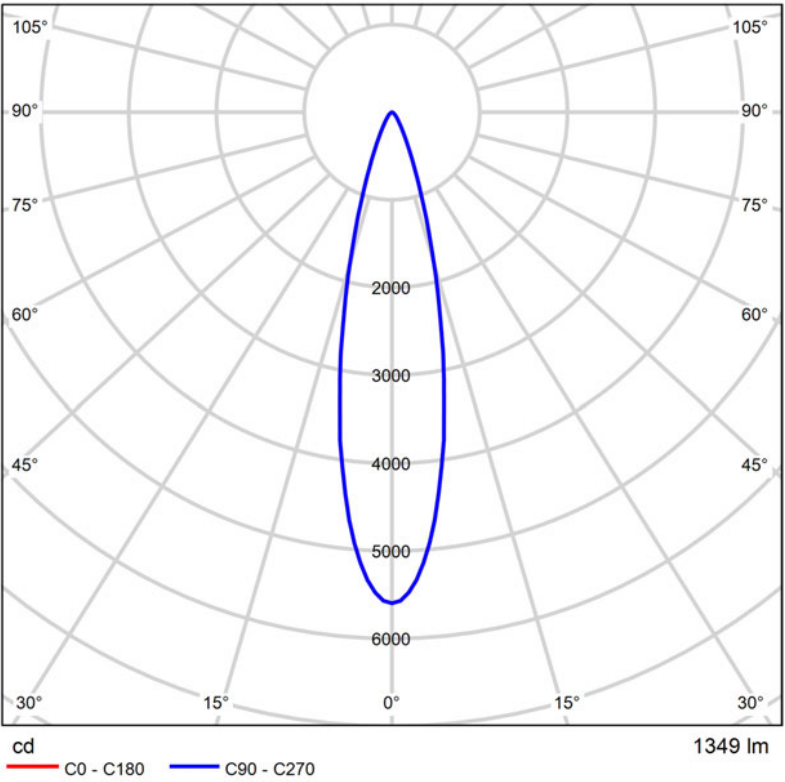
pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
18	Anolis		ArcSource Inground 24MC Integral RGBCW 24dg all-on-full	65.0 W	1349 lm	20.8 lm/W
3	Anolis		Calumma-M multi-chip PW (W-3000K) 10dg all-on-full	65.0 W	1985 lm	30.5 lm/W
36	Anolis		Calumma-M multi-chip PW (W-3000K) 30dg all-on-full	65.0 W	1492 lm	23.0 lm/W
36	Anolis		Calumma-S multi-chip PW (W-3000K) 30dg all-on-full	30.0 W	639 lm	21.3 lm/W
432	Color Kinetics	FLEX COMPACT gen3, RGB, ONE node, Translucen t Dome Lens FULL ON	CK# 999-073000-05 SN:VTN21242E9D8 DC:2124 VTN 0213	1.1 W	12 lm	10.8 lm/W
360	iGuzzini	E259(RGB) _D67P	Underscore InOut: PIXEL version - Top-Bend 16mm - LED - 24Vdc - L= 337mm - 2.7W 32lm - RGBW	2.7 W	32 lm	11.9 lm/W

Product data sheet

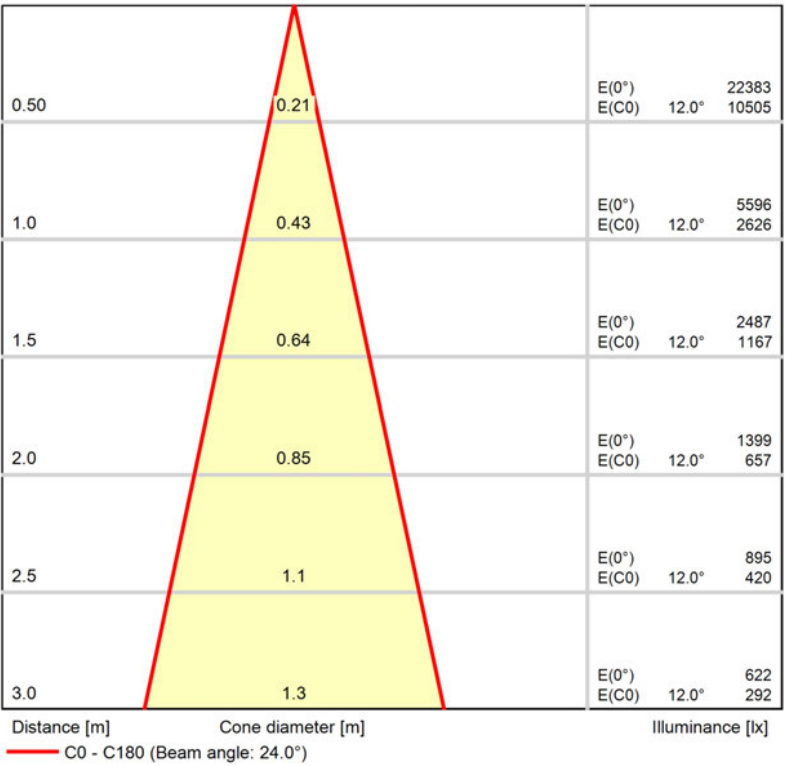
Anolis - ArcSource Inground 24MC Integral RGBCW 24dg all-on-full



P	65.0 W
Φ_{Lamp}	–
$\Phi_{Luminaire}$	1349 lm
η	–
Luminous efficacy	20.8 lm/W
CCT	3000 K
CRI	100



Polar LDC



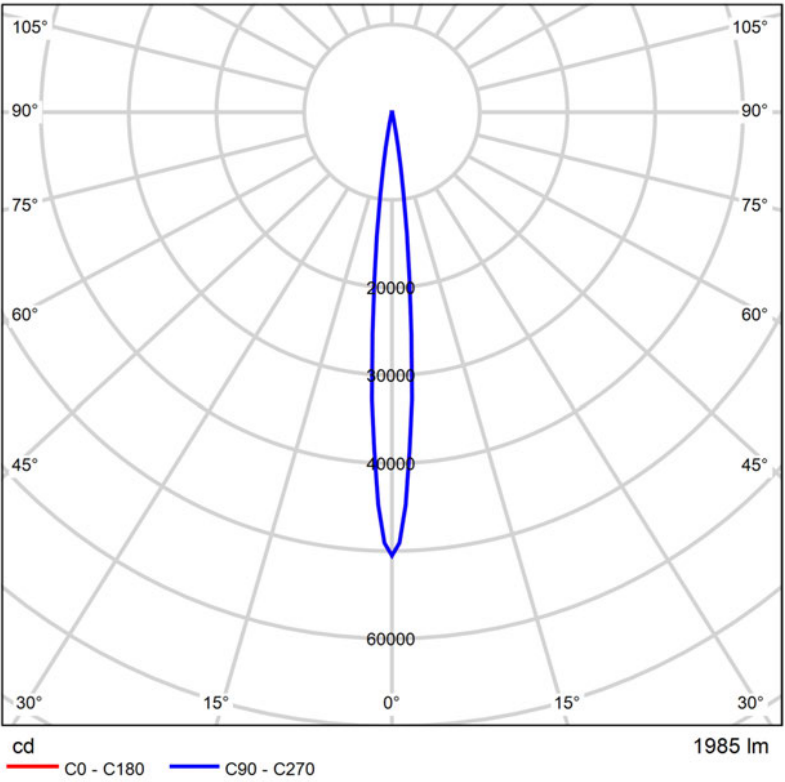
Cone diagram

Product data sheet

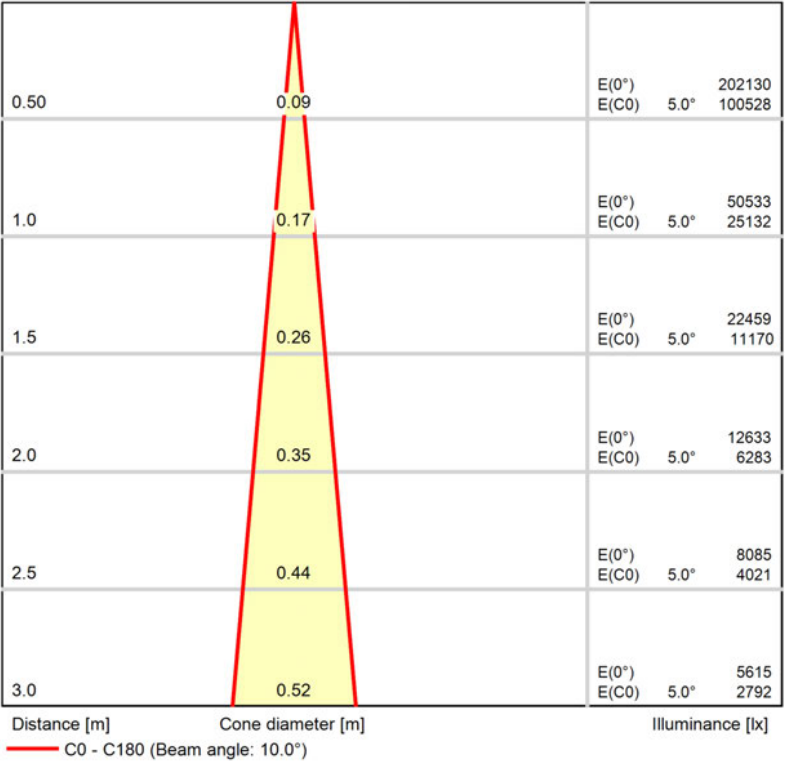
Anolis - Calumma-M multi-chip PW (W-3000K) 10dg all-on-full



P	65.0 W
Φ_{Lamp}	–
$\Phi_{Luminaire}$	1985 lm
η	–
Luminous efficacy	30.5 lm/W
CCT	3000 K
CRI	100



Polar LDC



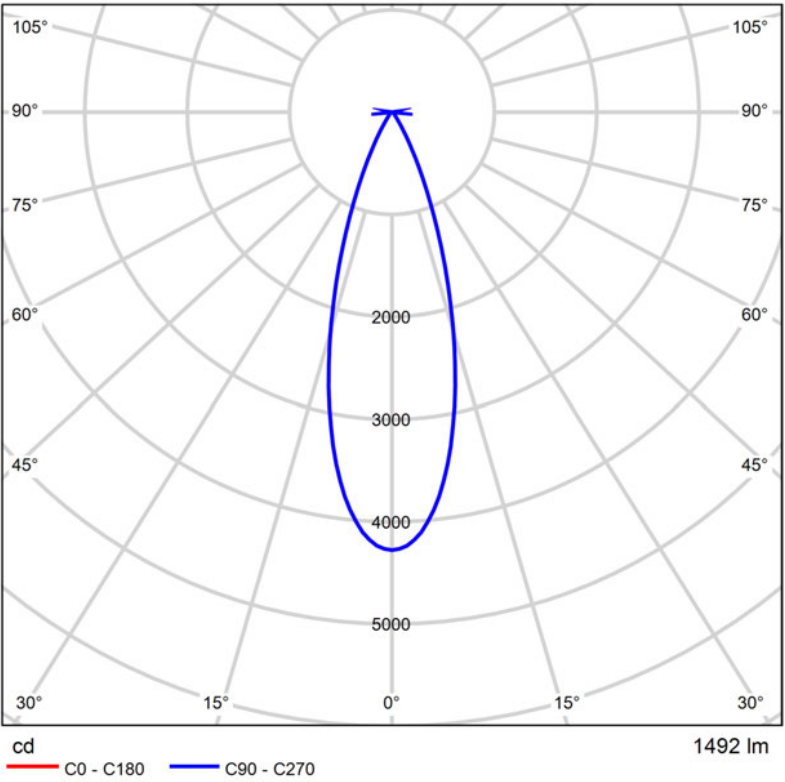
Cone diagram

Product data sheet

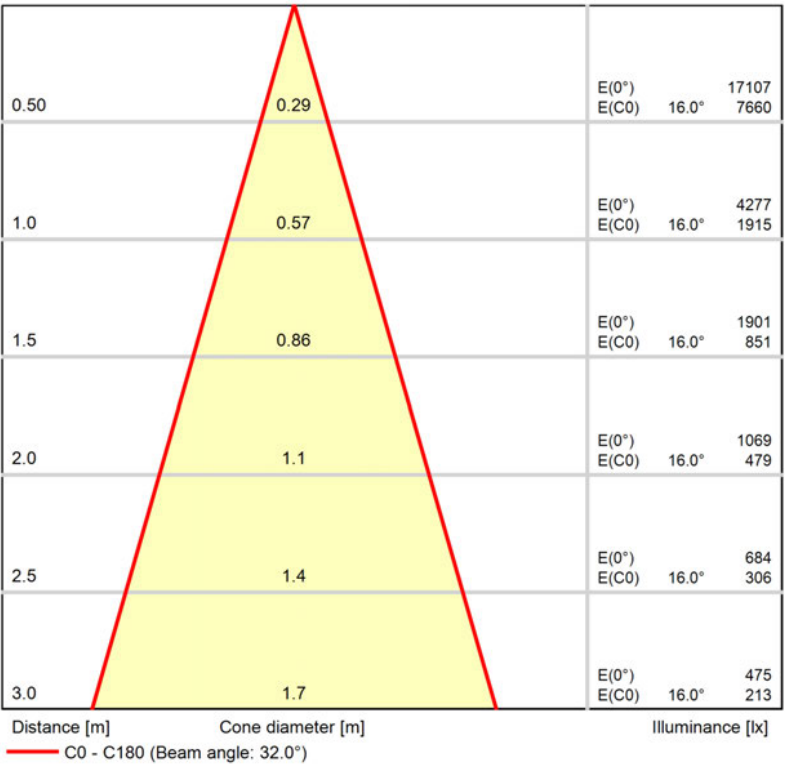
Anolis - Calumma-M multi-chip PW (W-3000K) 30dg all-on-full



P	65.0 W
Φ_{Lamp}	–
$\Phi_{Luminaire}$	1492 lm
η	–
Luminous efficacy	23.0 lm/W
CCT	3000 K
CRI	100



Polar LDC



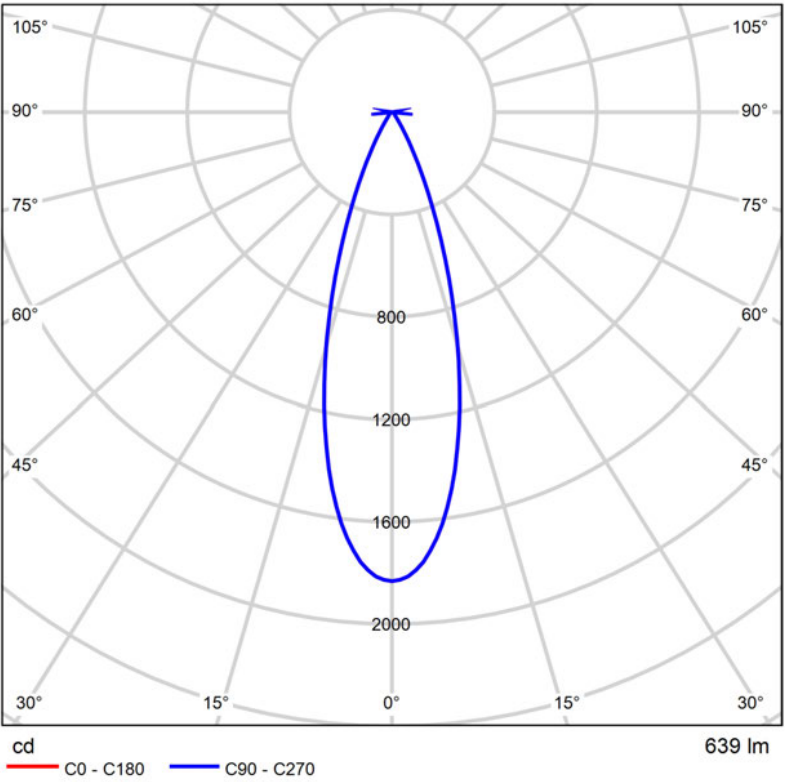
Cone diagram

Product data sheet

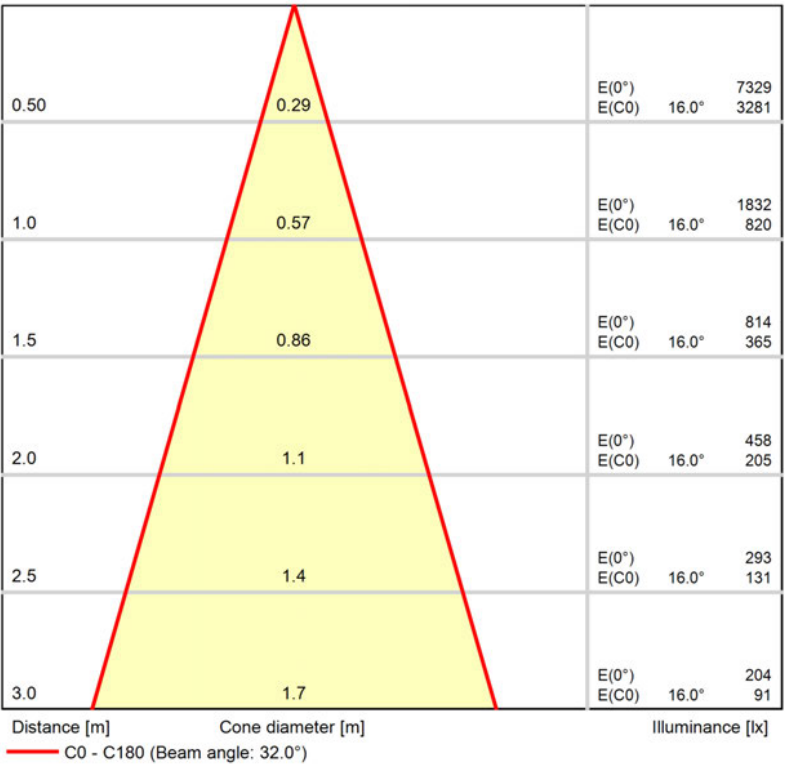
Anolis - Calumma-S multi-chip PW (W-3000K) 30dg all-on-full



P	30.0 W
Φ_{Lamp}	–
$\Phi_{Luminaire}$	639 lm
η	–
Luminous efficacy	21.3 lm/W
CCT	3000 K
CRI	100



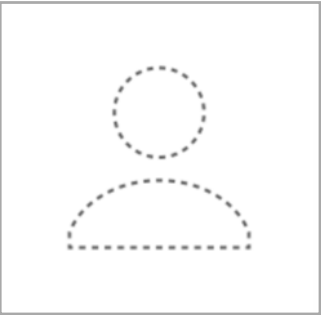
Polar LDC



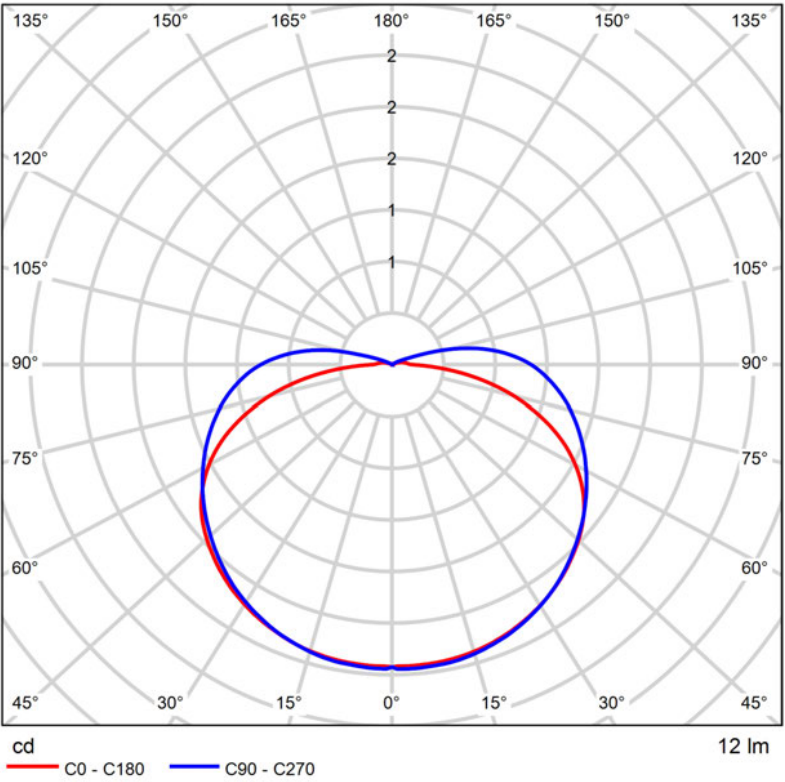
Cone diagram

Product data sheet

Color Kinetics - CK# 999-073000-05 SN:VTN21242E9D8 DC:2124 VTN 0213



Article No.	FLEX COMPACT gen3, RGB, ONE node, Translucent Dome Lens FULL ON
P	1.1 W
Φ_{Lamp}	–
$\Phi_{Luminaire}$	12 lm
η	–
Luminous efficacy	10.8 lm/W
CCT	3000 K
CRI	100



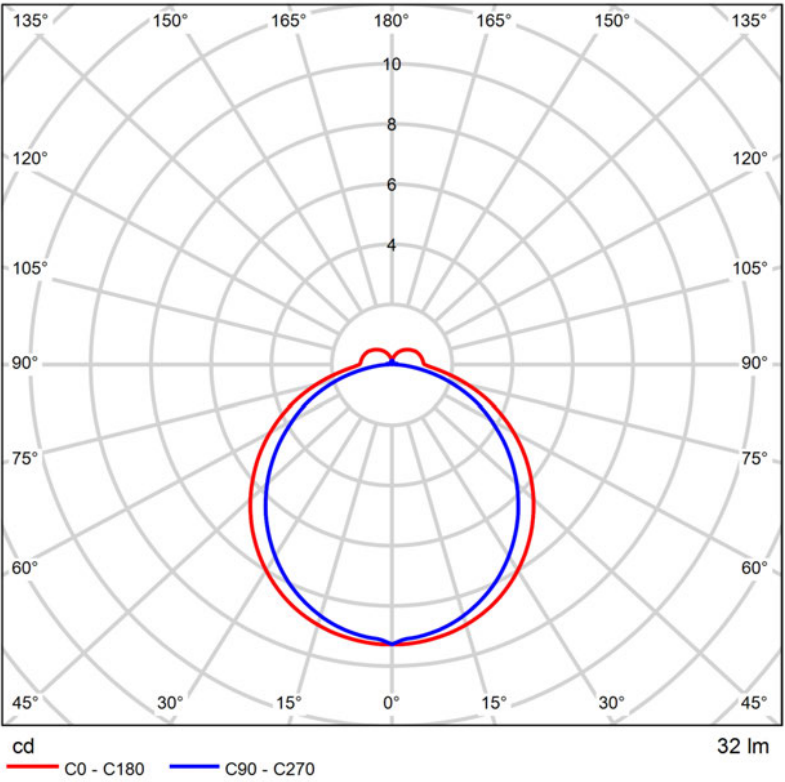
Polar LDC

Product data sheet

iGuzzini - Underscore InOut: PIXEL version - Top-Bend 16mm - LED - 24Vdc - L= 337mm - 2.7W 32lm - RGBW



Article No.	E259(RGB)_D67P
P	2.7 W
Φ _{Lamp}	–
Φ _{Luminaire}	32 lm
η	–
Luminous efficacy	11.9 lm/W
CCT	3000 K
CRI	100



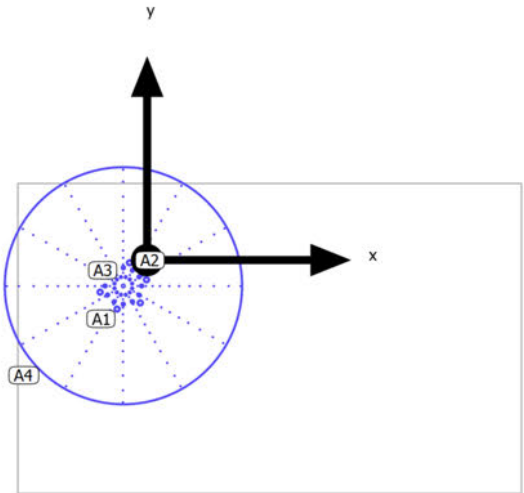
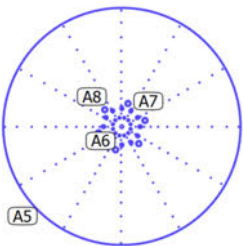
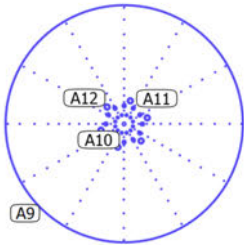
Polar LDC

Glare evaluation according to UGR												
ρ Ceiling		70	70	50	50	30	70	70	50	50	30	
ρ Walls		50	30	50	30	30	50	30	50	30	30	
ρ Floor		20	20	20	20	20	20	20	20	20	20	
Room size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis					
2H	2H	10.6	11.9	11.1	12.3	12.8	11.7	12.9	12.1	13.4	13.8	
	3H	12.0	13.1	12.4	13.6	14.0	13.2	14.3	13.7	14.8	15.3	
	4H	12.5	13.6	13.0	14.0	14.5	13.8	14.8	14.3	15.3	15.8	
	6H	12.9	13.9	13.4	14.4	14.9	14.2	15.2	14.7	15.7	16.2	
	8H	13.0	14.0	13.5	14.5	15.0	14.3	15.2	14.8	15.7	16.3	
4H	12H	13.1	14.1	13.7	14.6	15.1	14.3	15.3	14.9	15.8	16.3	
	2H	11.2	12.3	11.7	12.8	13.3	12.1	13.1	12.6	13.6	14.1	
	3H	12.7	13.7	13.3	14.2	14.7	13.7	14.6	14.2	15.1	15.7	
	4H	13.4	14.2	13.9	14.7	15.3	14.4	15.2	15.0	15.8	16.3	
	6H	13.9	14.6	14.5	15.2	15.8	14.9	15.6	15.5	16.2	16.8	
8H	8H	14.1	14.8	14.7	15.4	16.0	15.0	15.7	15.6	16.3	16.9	
	12H	14.3	14.9	14.9	15.5	16.1	15.1	15.8	15.7	16.4	17.0	
	4H	13.6	14.3	14.2	14.9	15.5	14.5	15.2	15.1	15.8	16.4	
	6H	14.3	14.8	14.9	15.5	16.1	15.1	15.7	15.8	16.3	17.0	
	8H	14.6	15.1	15.2	15.7	16.4	15.4	15.9	16.0	16.5	17.2	
12H	12H	14.8	15.3	15.5	15.9	16.6	15.5	16.0	16.2	16.6	17.3	
	4H	13.6	14.3	14.2	14.8	15.5	14.5	15.2	15.1	15.7	16.4	
	6H	14.3	14.8	15.0	15.5	16.1	15.2	15.7	15.8	16.3	17.0	
Variation of the observer position for the luminaire distances S												
S = 1.0H		+0.1 / -0.2					+0.1 / -0.1					
S = 1.5H		+0.3 / -0.4					+0.3 / -0.4					
S = 2.0H		+0.4 / -0.8					+0.8 / -0.8					
Standard table		BK05					BK05					
Correction summand		-2.5					-1.5					
Corrected glare indices referring to 32lm Total luminous flux												

UGR diagram (SHR: 0.25)

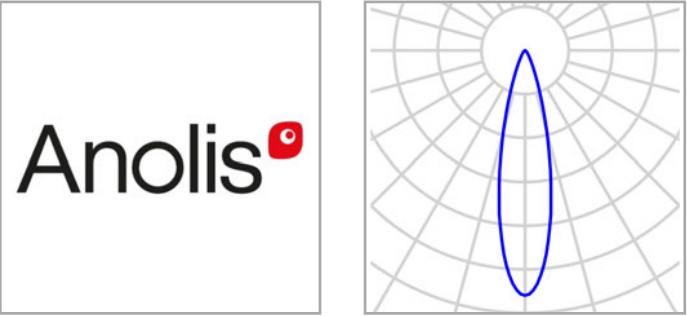
Site 1

Luminaire layout plan



Site 1

Luminaire layout plan



Manufacturer	Anolis
Article name	ArcSource Inground 24MC Integral RGBCW 24dg all-on-full
Fitting	1x Osram

P	65.0 W
Φ _{Luminaire}	1349 lm

6 x Anolis ArcSource Inground 24MC Integral RGBCW 24dg all-on-full

Type	Circle Arrangement	X	Y	Mounting height
1st luminaire (X/Y/Z)	-0.037 m / -1.104 m / -0.348 m	-0.037 m	-1.104 m	-0.348 m
Arrangement	A1	-0.988 m	-0.153 m	-0.348 m
		-2.288 m	-0.501 m	-0.348 m
		-2.636 m	-1.801 m	-0.348 m
		-1.685 m	-2.752 m	-0.348 m
		-0.385 m	-2.404 m	-0.348 m

6 x Anolis ArcSource Inground 24MC Integral RGBCW 24dg all-on-full

Type	Circle Arrangement	X	Y	Mounting height
1st luminaire (X/Y/Z)	3.300 m / 33.848 m / -0.348 m	3.300 m	33.848 m	-0.348 m
Arrangement	A8	2.348 m	34.800 m	-0.348 m
		1.049 m	34.451 m	-0.348 m
		0.700 m	33.152 m	-0.348 m

Site 1

Luminaire layout plan

X	Y	Mounting height
1.652 m	32.200 m	-0.348 m
2.951 m	32.549 m	-0.348 m

6 x Anolis ArcSource Inground 24MC Integral RGBCW 24dg all-on-full

Type	Circle Arrangement	X	Y	Mounting height
1st luminaire (X/Y/Z)	16.500 m / 74.248 m / -0.348 m	16.500 m	74.248 m	-0.348 m
Arrangement	A12	15.548 m	75.200 m	-0.348 m
		14.249 m	74.851 m	-0.348 m
		13.900 m	73.552 m	-0.348 m
		14.852 m	72.600 m	-0.348 m
		16.151 m	72.949 m	-0.348 m

Site 1

Luminaire layout plan



Manufacturer	Anolis
Article name	Calumma-M multi-chip PW (W-3000K) 10dg all-on-full
Fitting	1x Osram

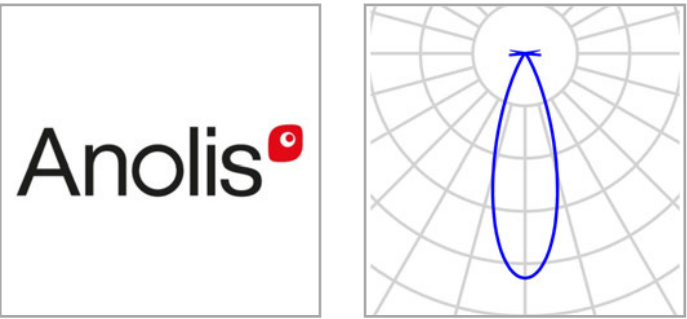
P	65.0 W
Φ _{Luminaire}	1985 lm

Individual luminaires

X	Y	Mounting height
-1.336 m	-1.452 m	0.400 m
2.000 m	33.500 m	0.400 m
15.200 m	73.900 m	0.400 m

Site 1

Luminaire layout plan



Manufacturer	Anolis
Article name	Calumma-M multi-chip PW (W-3000K) 30dg all-on-full
Fitting	1x Osram

P	65.0 W
Φ _{Luminaire}	1492 lm

12 x Anolis Calumma-M multi-chip PW (W-3000K) 30dg all-on-full

Type	Circle Arrangement
1st luminaire (X/Y/Z)	-0.336 m / -1.453 m / 11.000 m
Arrangement	A2

X	Y	Mounting height
-0.336 m	-1.453 m	11.000 m
-0.470 m	-0.953 m	11.000 m
-0.836 m	-0.587 m	11.000 m
-1.336 m	-0.452 m	11.000 m
-1.836 m	-0.586 m	11.000 m
-2.202 m	-0.952 m	11.000 m
-2.336 m	-1.452 m	11.000 m
-2.203 m	-1.952 m	11.000 m
-1.837 m	-2.318 m	11.000 m
-1.337 m	-2.452 m	11.000 m
-0.837 m	-2.319 m	11.000 m
-0.471 m	-1.953 m	11.000 m

Site 1

Luminaire layout plan

12 x Anolis Calumma-M multi-chip PW (W-3000K) 30dg all-on-full

Type	Circle Arrangement	X	Y	Mounting height
1st luminaire (X/Y/Z)	3.000 m / 33.499 m / 11.000 m	3.000 m	33.499 m	11.000 m
Arrangement	A7	2.866 m	33.999 m	11.000 m
		2.501 m	34.366 m	11.000 m
		2.001 m	34.500 m	11.000 m
		1.501 m	34.366 m	11.000 m
		1.134 m	34.001 m	11.000 m
		2.866 m	32.999 m	11.000 m
		2.499 m	32.634 m	11.000 m
		1.999 m	32.500 m	11.000 m
		1.499 m	32.634 m	11.000 m
		1.134 m	33.001 m	11.000 m
		1.000 m	33.501 m	11.000 m

12 x Anolis Calumma-M multi-chip PW (W-3000K) 30dg all-on-full

Type	Circle Arrangement	X	Y	Mounting height
1st luminaire (X/Y/Z)	16.200 m / 73.899 m / 11.000 m	16.200 m	73.899 m	11.000 m
Arrangement	A11	16.066 m	74.399 m	11.000 m
		15.701 m	74.766 m	11.000 m
		15.201 m	74.900 m	11.000 m
		14.701 m	74.766 m	11.000 m
		14.334 m	74.401 m	11.000 m
		16.066 m	73.399 m	11.000 m
		15.699 m	73.034 m	11.000 m

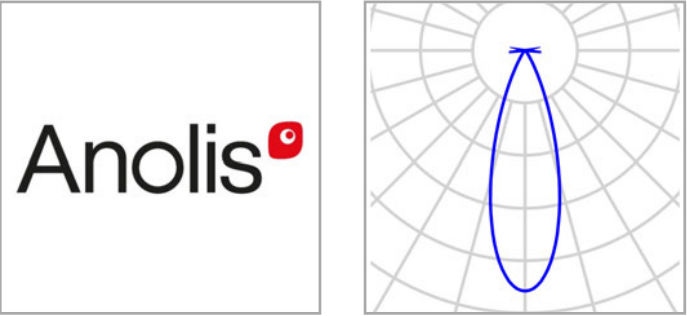
Site 1

Luminaire layout plan

X	Y	Mounting height
15.199 m	72.900 m	11.000 m
14.699 m	73.034 m	11.000 m
14.334 m	73.401 m	11.000 m
14.200 m	73.901 m	11.000 m

Site 1

Luminaire layout plan



Manufacturer	Anolis
Article name	Calumma-S multi-chip PW (W-3000K) 30dg all-on-full
Fitting	1x Osram

P	30.0 W
Φ _{Luminaire}	639 lm

12 x Anolis Calumma-S multi-chip PW (W-3000K) 30dg all-on-full

Type	Circle Arrangement
1st luminaire (X/Y/Z)	-0.853 m / -1.323 m / 11.700 m
Arrangement	A3

X	Y	Mounting height
-0.853 m	-1.323 m	11.700 m
-0.983 m	-1.099 m	11.700 m
-1.207 m	-0.970 m	11.700 m
-1.466 m	-0.970 m	11.700 m
-1.690 m	-1.099 m	11.700 m
-1.819 m	-1.323 m	11.700 m
-1.819 m	-1.582 m	11.700 m
-1.690 m	-1.806 m	11.700 m
-1.466 m	-1.935 m	11.700 m
-1.207 m	-1.935 m	11.700 m
-0.983 m	-1.806 m	11.700 m
-0.853 m	-1.582 m	11.700 m

Site 1

Luminaire layout plan

12 x Anolis Calumma-S multi-chip PW (W-3000K) 30dg all-on-full

Type	Circle Arrangement	X	Y	Mounting height
1st luminaire (X/Y/Z)	2.483 m / 33.629 m / 11.700 m	2.483 m	33.629 m	11.700 m
Arrangement	A6	2.354 m	33.854 m	11.700 m
		2.129 m	33.983 m	11.700 m
		1.871 m	33.983 m	11.700 m
		1.646 m	33.854 m	11.700 m
		1.517 m	33.629 m	11.700 m
		1.517 m	33.371 m	11.700 m
		1.646 m	33.146 m	11.700 m
		1.871 m	33.017 m	11.700 m
		2.129 m	33.017 m	11.700 m
		2.354 m	33.146 m	11.700 m
		2.483 m	33.371 m	11.700 m

12 x Anolis Calumma-S multi-chip PW (W-3000K) 30dg all-on-full

Type	Circle Arrangement	X	Y	Mounting height
1st luminaire (X/Y/Z)	15.683 m / 74.029 m / 11.700 m	15.683 m	74.029 m	11.700 m
Arrangement	A10	15.554 m	74.254 m	11.700 m
		15.329 m	74.383 m	11.700 m
		15.071 m	74.383 m	11.700 m
		14.846 m	74.254 m	11.700 m
		14.717 m	74.029 m	11.700 m
		14.717 m	73.771 m	11.700 m
		14.846 m	73.546 m	11.700 m

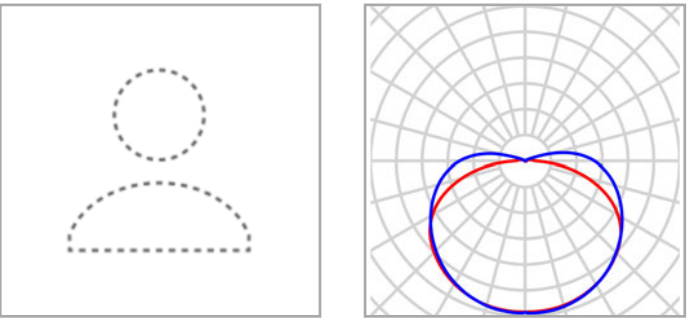
Site 1

Luminaire layout plan

X	Y	Mounting height
15.071 m	73.417 m	11.700 m
15.329 m	73.417 m	11.700 m
15.554 m	73.546 m	11.700 m
15.683 m	73.771 m	11.700 m

Site 1

Luminaire layout plan



Manufacturer	Color Kinetics
Article No.	FLEX COMPACT gen3, RGB, ONE node, Translucent Dome Lens FULL ON
Article name	CK# 999-073000-05 SN:VTN21242E9D8 DC:2124 VTN 0213
Fitting	1x LED

P	1.1 W
Φ _{Luminaire}	12 lm

Individual luminaires

X	Y	Mounting height
-7.871 m	-1.462 m	13.807 m
-7.200 m	-1.462 m	13.807 m
-6.365 m	-1.462 m	13.636 m
-5.600 m	-1.462 m	13.400 m
-5.000 m	-1.462 m	13.000 m
-4.411 m	-1.462 m	12.637 m
-3.862 m	-1.462 m	12.127 m
-3.337 m	-1.462 m	11.548 m
-2.925 m	-1.462 m	10.940 m
-2.552 m	-1.462 m	10.214 m
-2.300 m	-1.462 m	9.500 m
-2.082 m	-1.462 m	8.763 m
-6.966 m	-4.695 m	13.807 m

Site 1

Luminaire layout plan

X	Y	Mounting height
-6.384 m	-4.360 m	13.807 m
-5.662 m	-3.942 m	13.636 m
-4.999 m	-3.560 m	13.400 m
-4.479 m	-3.260 m	13.000 m
-3.969 m	-2.965 m	12.637 m
-3.494 m	-2.691 m	12.127 m
-3.039 m	-2.428 m	11.548 m
-2.682 m	-2.222 m	10.940 m
-2.359 m	-2.036 m	10.214 m
-2.141 m	-1.910 m	9.500 m
-1.952 m	-1.801 m	8.763 m
-4.546 m	-7.085 m	13.807 m
-4.210 m	-6.503 m	13.807 m
-3.793 m	-5.780 m	13.636 m
-3.410 m	-5.118 m	13.400 m
-3.110 m	-4.598 m	13.000 m
-2.816 m	-4.088 m	12.637 m
-2.541 m	-3.612 m	12.127 m
-2.279 m	-3.158 m	11.548 m
-2.073 m	-2.801 m	10.940 m
-1.887 m	-2.478 m	10.214 m
-1.760 m	-2.260 m	9.500 m
-1.651 m	-2.070 m	8.763 m
-1.358 m	-7.986 m	13.807 m
-1.358 m	-7.314 m	13.807 m

Site 1

Luminaire layout plan

X	Y	Mounting height
-1.358 m	-6.480 m	13.636 m
-1.358 m	-5.714 m	13.400 m
-1.358 m	-5.114 m	13.000 m
-1.358 m	-4.526 m	12.637 m
-1.358 m	-3.976 m	12.127 m
-1.358 m	-3.451 m	11.548 m
-1.358 m	-3.039 m	10.940 m
-1.358 m	-2.666 m	10.214 m
-1.358 m	-2.414 m	9.500 m
-1.358 m	-2.196 m	8.763 m
4.265 m	-4.660 m	13.807 m
3.684 m	-4.325 m	13.807 m
2.961 m	-3.907 m	13.636 m
2.298 m	-3.525 m	13.400 m
1.778 m	-3.225 m	13.000 m
1.269 m	-2.930 m	12.637 m
0.793 m	-2.656 m	12.127 m
0.338 m	-2.393 m	11.548 m
-0.019 m	-2.187 m	10.940 m
-0.341 m	-2.001 m	10.214 m
-0.560 m	-1.875 m	9.500 m
-0.749 m	-1.766 m	8.763 m
1.540 m	-6.499 m	13.807 m
1.876 m	-7.080 m	13.807 m
1.123 m	-5.776 m	13.636 m

Site 1

Luminaire layout plan

X	Y	Mounting height
0.740 m	-5.113 m	13.400 m
0.440 m	-4.593 m	13.000 m
0.146 m	-4.084 m	12.637 m
-0.129 m	-3.608 m	12.127 m
-0.391 m	-3.153 m	11.548 m
-0.597 m	-2.796 m	10.940 m
-0.784 m	-2.474 m	10.214 m
-0.910 m	-2.255 m	9.500 m
-1.019 m	-2.066 m	8.763 m
5.245 m	-1.459 m	13.807 m
4.574 m	-1.459 m	13.807 m
3.739 m	-1.459 m	13.636 m
2.974 m	-1.459 m	13.400 m
2.374 m	-1.459 m	13.000 m
1.785 m	-1.459 m	12.637 m
1.236 m	-1.459 m	12.127 m
0.711 m	-1.459 m	11.548 m
0.299 m	-1.459 m	10.940 m
-0.074 m	-1.459 m	10.214 m
-0.326 m	-1.459 m	9.500 m
-0.545 m	-1.459 m	8.763 m
1.920 m	4.164 m	13.807 m
1.584 m	3.583 m	13.807 m
1.167 m	2.860 m	13.636 m
0.784 m	2.197 m	13.400 m

Site 1

Luminaire layout plan

X	Y	Mounting height
0.484 m	1.678 m	13.000 m
0.190 m	1.168 m	12.637 m
-0.085 m	0.692 m	12.127 m
-0.347 m	0.237 m	11.548 m
-0.553 m	-0.119 m	10.940 m
-0.740 m	-0.442 m	10.214 m
-0.866 m	-0.661 m	9.500 m
-0.975 m	-0.850 m	8.763 m
3.758 m	1.439 m	13.807 m
4.340 m	1.775 m	13.807 m
3.035 m	1.022 m	13.636 m
2.373 m	0.639 m	13.400 m
1.853 m	0.339 m	13.000 m
1.343 m	0.045 m	12.637 m
0.867 m	-0.230 m	12.127 m
0.413 m	-0.492 m	11.548 m
0.056 m	-0.698 m	10.940 m
-0.267 m	-0.885 m	10.214 m
-0.485 m	-1.011 m	9.500 m
-0.674 m	-1.120 m	8.763 m
-1.346 m	5.068 m	13.807 m
-1.346 m	4.397 m	13.807 m
-1.346 m	3.562 m	13.636 m
-1.346 m	2.797 m	13.400 m
-1.346 m	2.197 m	13.000 m

Site 1

Luminaire layout plan

X	Y	Mounting height
-1.346 m	1.608 m	12.637 m
-1.346 m	1.059 m	12.127 m
-1.346 m	0.534 m	11.548 m
-1.346 m	0.122 m	10.940 m
-1.346 m	-0.251 m	10.214 m
-1.346 m	-0.503 m	9.500 m
-1.346 m	-0.722 m	8.763 m
-6.969 m	1.743 m	13.807 m
-6.388 m	1.407 m	13.807 m
-5.665 m	0.990 m	13.636 m
-5.002 m	0.607 m	13.400 m
-4.483 m	0.307 m	13.000 m
-3.973 m	0.013 m	12.637 m
-3.497 m	-0.262 m	12.127 m
-3.042 m	-0.524 m	11.548 m
-2.686 m	-0.730 m	10.940 m
-2.363 m	-0.917 m	10.214 m
-2.144 m	-1.043 m	9.500 m
-1.955 m	-1.152 m	8.763 m
-4.244 m	3.581 m	13.807 m
-4.580 m	4.163 m	13.807 m
-3.827 m	2.858 m	13.636 m
-3.444 m	2.196 m	13.400 m
-3.144 m	1.676 m	13.000 m
-2.850 m	1.166 m	12.637 m

Site 1

Luminaire layout plan

X	Y	Mounting height
-2.575 m	0.690 m	12.127 m
-2.313 m	0.236 m	11.548 m
-2.107 m	-0.121 m	10.940 m
-1.920 m	-0.444 m	10.214 m
-1.794 m	-0.662 m	9.500 m
-1.685 m	-0.851 m	8.763 m
-4.556 m	33.490 m	13.807 m
-3.884 m	33.490 m	13.807 m
-3.049 m	33.490 m	13.636 m
-2.284 m	33.490 m	13.400 m
-1.684 m	33.490 m	13.000 m
-1.095 m	33.490 m	12.637 m
-0.546 m	33.490 m	12.127 m
-0.021 m	33.490 m	11.548 m
0.391 m	33.490 m	10.940 m
0.764 m	33.490 m	10.214 m
1.016 m	33.490 m	9.500 m
1.234 m	33.490 m	8.763 m
-1.230 m	27.867 m	13.807 m
-0.895 m	28.449 m	13.807 m
-0.477 m	29.171 m	13.636 m
-0.095 m	29.834 m	13.400 m
0.205 m	30.354 m	13.000 m
0.500 m	30.864 m	12.637 m
0.774 m	31.339 m	12.127 m

Site 1

Luminaire layout plan

X	Y	Mounting height
1.037 m	31.794 m	11.548 m
1.243 m	32.151 m	10.940 m
1.429 m	32.474 m	10.214 m
1.555 m	32.692 m	9.500 m
1.665 m	32.881 m	8.763 m
-3.069 m	30.592 m	13.807 m
-3.650 m	30.256 m	13.807 m
-2.346 m	31.009 m	13.636 m
-1.683 m	31.392 m	13.400 m
-1.163 m	31.692 m	13.000 m
-0.654 m	31.986 m	12.637 m
-0.178 m	32.261 m	12.127 m
0.277 m	32.523 m	11.548 m
0.634 m	32.730 m	10.940 m
0.957 m	32.916 m	10.214 m
1.175 m	33.042 m	9.500 m
1.364 m	33.151 m	8.763 m
1.958 m	26.966 m	13.807 m
1.958 m	27.637 m	13.807 m
1.958 m	28.472 m	13.636 m
1.958 m	29.237 m	13.400 m
1.958 m	29.837 m	13.000 m
1.958 m	30.426 m	12.637 m
1.958 m	30.976 m	12.127 m
1.958 m	31.500 m	11.548 m

Site 1

Luminaire layout plan

X	Y	Mounting height
1.958 m	31.912 m	10.940 m
1.958 m	32.285 m	10.214 m
1.958 m	32.537 m	9.500 m
1.958 m	32.756 m	8.763 m
7.581 m	30.291 m	13.807 m
7.000 m	30.627 m	13.807 m
6.277 m	31.044 m	13.636 m
5.614 m	31.427 m	13.400 m
5.094 m	31.727 m	13.000 m
4.584 m	32.021 m	12.637 m
4.109 m	32.296 m	12.127 m
3.654 m	32.558 m	11.548 m
3.297 m	32.764 m	10.940 m
2.974 m	32.951 m	10.214 m
2.756 m	33.077 m	9.500 m
2.567 m	33.186 m	8.763 m
4.856 m	28.453 m	13.807 m
5.192 m	27.872 m	13.807 m
4.439 m	29.176 m	13.636 m
4.056 m	29.839 m	13.400 m
3.756 m	30.358 m	13.000 m
3.462 m	30.868 m	12.637 m
3.187 m	31.344 m	12.127 m
2.925 m	31.798 m	11.548 m
2.719 m	32.155 m	10.940 m

Site 1

Luminaire layout plan

X	Y	Mounting height
2.532 m	32.478 m	10.214 m
2.406 m	32.697 m	9.500 m
2.297 m	32.886 m	8.763 m
8.561 m	33.493 m	13.807 m
7.890 m	33.493 m	13.807 m
7.055 m	33.493 m	13.636 m
6.290 m	33.493 m	13.400 m
5.690 m	33.493 m	13.000 m
5.101 m	33.493 m	12.637 m
4.552 m	33.493 m	12.127 m
4.027 m	33.493 m	11.548 m
3.615 m	33.493 m	10.940 m
3.242 m	33.493 m	10.214 m
2.990 m	33.493 m	9.500 m
2.771 m	33.493 m	8.763 m
5.236 m	39.116 m	13.807 m
4.900 m	38.535 m	13.807 m
4.483 m	37.812 m	13.636 m
4.100 m	37.149 m	13.400 m
3.800 m	36.629 m	13.000 m
3.506 m	36.120 m	12.637 m
3.231 m	35.644 m	12.127 m
2.969 m	35.189 m	11.548 m
2.763 m	34.832 m	10.940 m
2.576 m	34.509 m	10.214 m

Site 1

Luminaire layout plan

X	Y	Mounting height
2.450 m	34.291 m	9.500 m
2.341 m	34.102 m	8.763 m
7.074 m	36.391 m	13.807 m
7.656 m	36.727 m	13.807 m
6.351 m	35.974 m	13.636 m
5.688 m	35.591 m	13.400 m
5.169 m	35.291 m	13.000 m
4.659 m	34.997 m	12.637 m
4.183 m	34.722 m	12.127 m
3.729 m	34.460 m	11.548 m
3.372 m	34.254 m	10.940 m
3.049 m	34.067 m	10.214 m
2.831 m	33.941 m	9.500 m
2.641 m	33.832 m	8.763 m
1.970 m	40.020 m	13.807 m
1.970 m	39.349 m	13.807 m
1.970 m	38.514 m	13.636 m
1.970 m	37.749 m	13.400 m
1.970 m	37.149 m	13.000 m
1.970 m	36.560 m	12.637 m
1.970 m	36.011 m	12.127 m
1.970 m	35.486 m	11.548 m
1.970 m	35.074 m	10.940 m
1.970 m	34.701 m	10.214 m
1.970 m	34.449 m	9.500 m

Site 1

Luminaire layout plan

X	Y	Mounting height
1.970 m	34.230 m	8.763 m
-3.653 m	36.695 m	13.807 m
-3.072 m	36.359 m	13.807 m
-2.349 m	35.942 m	13.636 m
-1.686 m	35.559 m	13.400 m
-1.167 m	35.259 m	13.000 m
-0.657 m	34.965 m	12.637 m
-0.181 m	34.690 m	12.127 m
0.274 m	34.428 m	11.548 m
0.630 m	34.222 m	10.940 m
0.953 m	34.035 m	10.214 m
1.172 m	33.909 m	9.500 m
1.361 m	33.800 m	8.763 m
-0.928 m	38.533 m	13.807 m
-1.264 m	39.114 m	13.807 m
-0.511 m	37.810 m	13.636 m
-0.128 m	37.147 m	13.400 m
0.172 m	36.628 m	13.000 m
0.466 m	36.118 m	12.637 m
0.741 m	35.642 m	12.127 m
1.003 m	35.188 m	11.548 m
1.209 m	34.831 m	10.940 m
1.395 m	34.508 m	10.214 m
1.522 m	34.290 m	9.500 m
1.631 m	34.100 m	8.763 m

Site 1

Luminaire layout plan

X	Y	Mounting height
8.672 m	73.906 m	13.807 m
9.344 m	73.906 m	13.807 m
10.179 m	73.906 m	13.636 m
10.944 m	73.906 m	13.400 m
11.544 m	73.906 m	13.000 m
12.132 m	73.906 m	12.637 m
12.682 m	73.906 m	12.127 m
13.207 m	73.906 m	11.548 m
13.619 m	73.906 m	10.940 m
13.992 m	73.906 m	10.214 m
14.244 m	73.906 m	9.500 m
14.462 m	73.906 m	8.763 m
11.998 m	68.283 m	13.807 m
12.333 m	68.865 m	13.807 m
12.751 m	69.587 m	13.636 m
13.133 m	70.250 m	13.400 m
13.433 m	70.770 m	13.000 m
13.728 m	71.280 m	12.637 m
14.002 m	71.755 m	12.127 m
14.265 m	72.210 m	11.548 m
14.471 m	72.567 m	10.940 m
14.657 m	72.890 m	10.214 m
14.783 m	73.108 m	9.500 m
14.893 m	73.297 m	8.763 m
10.159 m	71.008 m	13.807 m

Site 1

Luminaire layout plan

X	Y	Mounting height
9.578 m	70.672 m	13.807 m
10.882 m	71.425 m	13.636 m
11.545 m	71.808 m	13.400 m
12.065 m	72.108 m	13.000 m
12.574 m	72.402 m	12.637 m
13.050 m	72.677 m	12.127 m
13.505 m	72.939 m	11.548 m
13.862 m	73.146 m	10.940 m
14.185 m	73.332 m	10.214 m
14.403 m	73.458 m	9.500 m
14.592 m	73.567 m	8.763 m
15.186 m	67.382 m	13.807 m
15.186 m	68.053 m	13.807 m
15.186 m	68.888 m	13.636 m
15.186 m	69.653 m	13.400 m
15.186 m	70.253 m	13.000 m
15.186 m	70.842 m	12.637 m
15.186 m	71.392 m	12.127 m
15.186 m	71.916 m	11.548 m
15.186 m	72.328 m	10.940 m
15.186 m	72.701 m	10.214 m
15.186 m	72.953 m	9.500 m
15.186 m	73.172 m	8.763 m
20.809 m	70.707 m	13.807 m
20.227 m	71.043 m	13.807 m

Site 1

Luminaire layout plan

X	Y	Mounting height
19.505 m	71.460 m	13.636 m
18.842 m	71.843 m	13.400 m
18.322 m	72.143 m	13.000 m
17.812 m	72.437 m	12.637 m
17.337 m	72.712 m	12.127 m
16.882 m	72.974 m	11.548 m
16.525 m	73.180 m	10.940 m
16.202 m	73.367 m	10.214 m
15.984 m	73.493 m	9.500 m
15.795 m	73.602 m	8.763 m
18.084 m	68.869 m	13.807 m
18.420 m	68.288 m	13.807 m
17.667 m	69.592 m	13.636 m
17.284 m	70.255 m	13.400 m
16.984 m	70.774 m	13.000 m
16.690 m	71.284 m	12.637 m
16.415 m	71.760 m	12.127 m
16.153 m	72.214 m	11.548 m
15.947 m	72.571 m	10.940 m
15.760 m	72.894 m	10.214 m
15.634 m	73.113 m	9.500 m
15.525 m	73.302 m	8.763 m
21.789 m	73.909 m	13.807 m
21.118 m	73.909 m	13.807 m
20.283 m	73.909 m	13.636 m

Site 1

Luminaire layout plan

X	Y	Mounting height
19.518 m	73.909 m	13.400 m
18.918 m	73.909 m	13.000 m
18.329 m	73.909 m	12.637 m
17.780 m	73.909 m	12.127 m
17.255 m	73.909 m	11.548 m
16.843 m	73.909 m	10.940 m
16.470 m	73.909 m	10.214 m
16.218 m	73.909 m	9.500 m
15.999 m	73.909 m	8.763 m
18.464 m	79.532 m	13.807 m
18.128 m	78.951 m	13.807 m
17.711 m	78.228 m	13.636 m
17.328 m	77.565 m	13.400 m
17.028 m	77.045 m	13.000 m
16.734 m	76.536 m	12.637 m
16.459 m	76.060 m	12.127 m
16.197 m	75.605 m	11.548 m
15.991 m	75.248 m	10.940 m
15.804 m	74.925 m	10.214 m
15.678 m	74.707 m	9.500 m
15.569 m	74.518 m	8.763 m
20.302 m	76.807 m	13.807 m
20.884 m	77.143 m	13.807 m
19.579 m	76.390 m	13.636 m
18.916 m	76.007 m	13.400 m

Site 1

Luminaire layout plan

X	Y	Mounting height
18.397 m	75.707 m	13.000 m
17.887 m	75.413 m	12.637 m
17.411 m	75.138 m	12.127 m
16.957 m	74.876 m	11.548 m
16.600 m	74.670 m	10.940 m
16.277 m	74.483 m	10.214 m
16.059 m	74.357 m	9.500 m
15.869 m	74.248 m	8.763 m
15.198 m	80.436 m	13.807 m
15.198 m	79.765 m	13.807 m
15.198 m	78.930 m	13.636 m
15.198 m	78.165 m	13.400 m
15.198 m	77.565 m	13.000 m
15.198 m	76.976 m	12.637 m
15.198 m	76.427 m	12.127 m
15.198 m	75.902 m	11.548 m
15.198 m	75.490 m	10.940 m
15.198 m	75.117 m	10.214 m
15.198 m	74.865 m	9.500 m
15.198 m	74.646 m	8.763 m
9.575 m	77.111 m	13.807 m
10.156 m	76.775 m	13.807 m
10.879 m	76.358 m	13.636 m
11.542 m	75.975 m	13.400 m
12.061 m	75.675 m	13.000 m

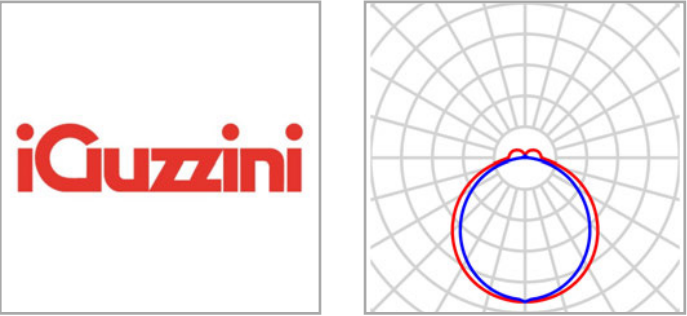
Site 1

Luminaire layout plan

X	Y	Mounting height
12.571 m	75.381 m	12.637 m
13.047 m	75.106 m	12.127 m
13.501 m	74.844 m	11.548 m
13.858 m	74.638 m	10.940 m
14.181 m	74.451 m	10.214 m
14.400 m	74.325 m	9.500 m
14.589 m	74.216 m	8.763 m
12.300 m	78.949 m	13.807 m
11.964 m	79.530 m	13.807 m
12.717 m	78.226 m	13.636 m
13.100 m	77.563 m	13.400 m
13.400 m	77.044 m	13.000 m
13.694 m	76.534 m	12.637 m
13.969 m	76.058 m	12.127 m
14.231 m	75.604 m	11.548 m
14.437 m	75.247 m	10.940 m
14.623 m	74.924 m	10.214 m
14.750 m	74.706 m	9.500 m
14.859 m	74.516 m	8.763 m

Site 1

Luminaire layout plan



Manufacturer	iGuzzini
Article No.	E259(RGB)_D67P
Article name	Underscore InOut: PIXEL version - Top-Bend 16mm - LED - 24Vdc - L= 337mm - 2.7W 32lm - RGBW
Fitting	1x LED RGB

P	2.7 W
Φ _{Luminaire}	32 lm

120 x iGuzzini illuminazione Underscore InOut: PIXEL version - Top-Bend 16mm - LED - 24Vdc - L= 337mm - 2.7W 32lm - RGBW

Type	Circle Arrangement
1st luminaire (X/Y/Z)	5.319 m / -1.441 m / 14.000 m
Arrangement	A4

X	Y	Mounting height
5.319 m	-1.441 m	14.000 m
5.310 m	-1.093 m	14.000 m
5.283 m	-0.746 m	14.000 m
5.238 m	-0.401 m	14.000 m
5.174 m	-0.058 m	14.000 m
5.093 m	0.280 m	14.000 m
4.994 m	0.614 m	14.000 m
4.878 m	0.942 m	14.000 m
4.745 m	1.263 m	14.000 m
4.595 m	1.578 m	14.000 m
4.429 m	1.883 m	14.000 m
4.247 m	2.180 m	14.000 m
4.050 m	2.467 m	14.000 m

Site 1

Luminaire layout plan

X	Y	Mounting height
3.838 m	2.743 m	14.000 m
3.612 m	3.008 m	14.000 m
3.372 m	3.260 m	14.000 m
3.120 m	3.500 m	14.000 m
2.855 m	3.726 m	14.000 m
2.579 m	3.938 m	14.000 m
2.292 m	4.135 m	14.000 m
1.995 m	4.317 m	14.000 m
1.689 m	4.483 m	14.000 m
1.375 m	4.633 m	14.000 m
1.054 m	4.766 m	14.000 m
0.726 m	4.882 m	14.000 m
0.392 m	4.981 m	14.000 m
0.053 m	5.062 m	14.000 m
-0.289 m	5.126 m	14.000 m
-0.634 m	5.171 m	14.000 m
-0.981 m	5.199 m	14.000 m
-1.329 m	5.208 m	14.000 m
-1.677 m	5.199 m	14.000 m
-2.024 m	5.171 m	14.000 m
-2.369 m	5.126 m	14.000 m
-2.711 m	5.062 m	14.000 m
-3.050 m	4.981 m	14.000 m
-3.383 m	4.882 m	14.000 m
-3.712 m	4.766 m	14.000 m

Site 1

Luminaire layout plan

X	Y	Mounting height
-4.033 m	4.633 m	14.000 m
-4.347 m	4.483 m	14.000 m
-4.653 m	4.317 m	14.000 m
-4.950 m	4.135 m	14.000 m
-5.237 m	3.938 m	14.000 m
-5.513 m	3.726 m	14.000 m
-5.778 m	3.500 m	14.000 m
-6.030 m	3.260 m	14.000 m
-6.270 m	3.008 m	14.000 m
-6.496 m	2.743 m	14.000 m
-6.708 m	2.467 m	14.000 m
-6.905 m	2.180 m	14.000 m
-7.087 m	1.883 m	14.000 m
-7.253 m	1.578 m	14.000 m
-7.403 m	1.263 m	14.000 m
-7.536 m	0.942 m	14.000 m
-7.652 m	0.614 m	14.000 m
-7.751 m	0.280 m	14.000 m
-7.832 m	-0.058 m	14.000 m
-7.896 m	-0.401 m	14.000 m
-7.941 m	-0.746 m	14.000 m
-7.968 m	-1.093 m	14.000 m
-7.977 m	-1.441 m	14.000 m
-7.968 m	-1.789 m	14.000 m
-7.941 m	-2.136 m	14.000 m

Site 1

Luminaire layout plan

X	Y	Mounting height
-7.896 m	-2.481 m	14.000 m
-7.832 m	-2.823 m	14.000 m
-7.751 m	-3.161 m	14.000 m
-7.652 m	-3.495 m	14.000 m
-7.536 m	-3.823 m	14.000 m
-7.403 m	-4.145 m	14.000 m
-7.253 m	-4.459 m	14.000 m
-7.087 m	-4.765 m	14.000 m
-6.905 m	-5.062 m	14.000 m
-6.708 m	-5.349 m	14.000 m
-6.496 m	-5.625 m	14.000 m
-6.270 m	-5.889 m	14.000 m
-6.030 m	-6.142 m	14.000 m
-5.778 m	-6.381 m	14.000 m
-5.513 m	-6.607 m	14.000 m
-5.237 m	-6.819 m	14.000 m
-4.950 m	-7.017 m	14.000 m
-4.653 m	-7.198 m	14.000 m
-4.347 m	-7.364 m	14.000 m
-4.033 m	-7.514 m	14.000 m
-3.712 m	-7.648 m	14.000 m
-3.383 m	-7.764 m	14.000 m
-3.050 m	-7.863 m	14.000 m
-2.711 m	-7.944 m	14.000 m
-2.369 m	-8.007 m	14.000 m

Site 1

Luminaire layout plan

X	Y	Mounting height
-2.024 m	-8.053 m	14.000 m
-1.677 m	-8.080 m	14.000 m
-1.329 m	-8.089 m	14.000 m
-0.981 m	-8.080 m	14.000 m
-0.634 m	-8.053 m	14.000 m
-0.289 m	-8.007 m	14.000 m
0.053 m	-7.944 m	14.000 m
0.392 m	-7.863 m	14.000 m
0.726 m	-7.764 m	14.000 m
1.054 m	-7.648 m	14.000 m
1.375 m	-7.514 m	14.000 m
1.689 m	-7.364 m	14.000 m
1.995 m	-7.198 m	14.000 m
2.292 m	-7.017 m	14.000 m
2.579 m	-6.819 m	14.000 m
2.855 m	-6.607 m	14.000 m
3.120 m	-6.381 m	14.000 m
3.372 m	-6.142 m	14.000 m
3.612 m	-5.889 m	14.000 m
3.838 m	-5.625 m	14.000 m
4.050 m	-5.349 m	14.000 m
4.247 m	-5.062 m	14.000 m
4.429 m	-4.765 m	14.000 m
4.595 m	-4.459 m	14.000 m
4.745 m	-4.145 m	14.000 m

Site 1

Luminaire layout plan

X	Y	Mounting height
4.878 m	-3.823 m	14.000 m
4.994 m	-3.495 m	14.000 m
5.093 m	-3.161 m	14.000 m
5.174 m	-2.823 m	14.000 m
5.238 m	-2.481 m	14.000 m
5.283 m	-2.136 m	14.000 m
5.310 m	-1.789 m	14.000 m

120 x iGuzzini illuminazione Underscore InOut: PIXEL version - Top-Bend 16mm - LED - 24Vdc - L= 337mm - 2.7W 32lm - RGBW

Type	Circle Arrangement	X	Y	Mounting height
1st luminaire (X/Y/Z)	8.656 m / 33.512 m / 14.000 m	8.656 m	33.512 m	14.000 m
Arrangement	A5	8.647 m	33.860 m	14.000 m
		8.619 m	34.207 m	14.000 m
		8.574 m	34.552 m	14.000 m
		8.511 m	34.894 m	14.000 m
		8.429 m	35.233 m	14.000 m
		8.330 m	35.566 m	14.000 m
		8.214 m	35.894 m	14.000 m
		8.081 m	36.216 m	14.000 m
		7.931 m	36.530 m	14.000 m
		7.765 m	36.836 m	14.000 m
		7.583 m	37.133 m	14.000 m
		7.386 m	37.420 m	14.000 m
		7.174 m	37.696 m	14.000 m
		6.948 m	37.960 m	14.000 m

Site 1

Luminaire layout plan

X	Y	Mounting height
6.709 m	38.213 m	14.000 m
6.456 m	38.453 m	14.000 m
6.191 m	38.679 m	14.000 m
5.915 m	38.890 m	14.000 m
5.628 m	39.088 m	14.000 m
5.332 m	39.269 m	14.000 m
5.026 m	39.436 m	14.000 m
4.712 m	39.585 m	14.000 m
4.390 m	39.719 m	14.000 m
4.062 m	39.835 m	14.000 m
3.728 m	39.934 m	14.000 m
3.390 m	40.015 m	14.000 m
3.047 m	40.078 m	14.000 m
2.702 m	40.124 m	14.000 m
2.355 m	40.151 m	14.000 m
2.007 m	40.160 m	14.000 m
1.659 m	40.151 m	14.000 m
1.312 m	40.124 m	14.000 m
0.967 m	40.078 m	14.000 m
0.625 m	40.015 m	14.000 m
0.287 m	39.934 m	14.000 m
-0.047 m	39.835 m	14.000 m
-0.375 m	39.719 m	14.000 m
-0.697 m	39.585 m	14.000 m
-1.011 m	39.436 m	14.000 m

Site 1

Luminaire layout plan

X	Y	Mounting height
-1.317 m	39.269 m	14.000 m
-1.614 m	39.088 m	14.000 m
-1.900 m	38.890 m	14.000 m
-2.177 m	38.679 m	14.000 m
-2.441 m	38.453 m	14.000 m
-2.694 m	38.213 m	14.000 m
-2.933 m	37.960 m	14.000 m
-3.159 m	37.696 m	14.000 m
-3.371 m	37.420 m	14.000 m
-3.568 m	37.133 m	14.000 m
-3.750 m	36.836 m	14.000 m
-3.916 m	36.530 m	14.000 m
-4.066 m	36.216 m	14.000 m
-4.199 m	35.894 m	14.000 m
-4.316 m	35.566 m	14.000 m
-4.414 m	35.233 m	14.000 m
-4.496 m	34.894 m	14.000 m
-4.559 m	34.552 m	14.000 m
-4.605 m	34.207 m	14.000 m
-4.632 m	33.860 m	14.000 m
-4.641 m	33.512 m	14.000 m
-4.632 m	33.164 m	14.000 m
-4.605 m	32.817 m	14.000 m
-4.559 m	32.472 m	14.000 m
-4.496 m	32.129 m	14.000 m

Site 1

Luminaire layout plan

X	Y	Mounting height
-4.414 m	31.791 m	14.000 m
-4.316 m	31.457 m	14.000 m
-4.199 m	31.129 m	14.000 m
-4.066 m	30.808 m	14.000 m
-3.916 m	30.493 m	14.000 m
-3.750 m	30.188 m	14.000 m
-3.568 m	29.891 m	14.000 m
-3.371 m	29.604 m	14.000 m
-3.159 m	29.328 m	14.000 m
-2.933 m	29.063 m	14.000 m
-2.694 m	28.811 m	14.000 m
-2.441 m	28.571 m	14.000 m
-2.177 m	28.345 m	14.000 m
-1.900 m	28.133 m	14.000 m
-1.614 m	27.936 m	14.000 m
-1.317 m	27.754 m	14.000 m
-1.011 m	27.588 m	14.000 m
-0.697 m	27.438 m	14.000 m
-0.375 m	27.305 m	14.000 m
-0.047 m	27.189 m	14.000 m
0.287 m	27.090 m	14.000 m
0.625 m	27.009 m	14.000 m
0.967 m	26.945 m	14.000 m
1.312 m	26.900 m	14.000 m
1.659 m	26.872 m	14.000 m

Site 1

Luminaire layout plan

X	Y	Mounting height
2.007 m	26.863 m	14.000 m
2.355 m	26.872 m	14.000 m
2.702 m	26.900 m	14.000 m
3.047 m	26.945 m	14.000 m
3.390 m	27.009 m	14.000 m
3.728 m	27.090 m	14.000 m
4.062 m	27.189 m	14.000 m
4.390 m	27.305 m	14.000 m
4.712 m	27.438 m	14.000 m
5.026 m	27.588 m	14.000 m
5.332 m	27.754 m	14.000 m
5.628 m	27.936 m	14.000 m
5.915 m	28.133 m	14.000 m
6.191 m	28.345 m	14.000 m
6.456 m	28.571 m	14.000 m
6.709 m	28.811 m	14.000 m
6.948 m	29.063 m	14.000 m
7.174 m	29.328 m	14.000 m
7.386 m	29.604 m	14.000 m
7.583 m	29.891 m	14.000 m
7.765 m	30.188 m	14.000 m
7.931 m	30.493 m	14.000 m
8.081 m	30.808 m	14.000 m
8.214 m	31.129 m	14.000 m
8.330 m	31.457 m	14.000 m

Site 1

Luminaire layout plan

X	Y	Mounting height
8.429 m	31.791 m	14.000 m
8.511 m	32.129 m	14.000 m
8.574 m	32.472 m	14.000 m
8.619 m	32.817 m	14.000 m
8.647 m	33.164 m	14.000 m

120 x iGuzzini illuminazione Underscore InOut: PIXEL version - Top-Bend 16mm - LED - 24Vdc - L= 337mm - 2.7W 32lm - RGBW

Type	Circle Arrangement	X	Y	Mounting height
1st luminaire (X/Y/Z)	21.856 m / 73.912 m / 14.000 m	21.856 m	73.912 m	14.000 m
Arrangement	A9	21.847 m	74.260 m	14.000 m
		21.819 m	74.607 m	14.000 m
		21.774 m	74.952 m	14.000 m
		21.711 m	75.294 m	14.000 m
		21.629 m	75.633 m	14.000 m
		21.530 m	75.966 m	14.000 m
		21.414 m	76.294 m	14.000 m
		21.281 m	76.616 m	14.000 m
		21.131 m	76.930 m	14.000 m
		20.965 m	77.236 m	14.000 m
		20.783 m	77.533 m	14.000 m
		20.586 m	77.820 m	14.000 m
		20.374 m	78.096 m	14.000 m
		20.148 m	78.360 m	14.000 m
		19.909 m	78.613 m	14.000 m
		19.656 m	78.853 m	14.000 m

Site 1

Luminaire layout plan

X	Y	Mounting height
19.391 m	79.079 m	14.000 m
19.115 m	79.290 m	14.000 m
18.828 m	79.488 m	14.000 m
18.532 m	79.669 m	14.000 m
18.226 m	79.836 m	14.000 m
17.912 m	79.985 m	14.000 m
17.590 m	80.119 m	14.000 m
17.262 m	80.235 m	14.000 m
16.928 m	80.334 m	14.000 m
16.590 m	80.415 m	14.000 m
16.247 m	80.478 m	14.000 m
15.902 m	80.524 m	14.000 m
15.555 m	80.551 m	14.000 m
15.207 m	80.560 m	14.000 m
14.859 m	80.551 m	14.000 m
14.512 m	80.524 m	14.000 m
14.167 m	80.478 m	14.000 m
13.825 m	80.415 m	14.000 m
13.487 m	80.334 m	14.000 m
13.153 m	80.235 m	14.000 m
12.825 m	80.119 m	14.000 m
12.503 m	79.985 m	14.000 m
12.189 m	79.836 m	14.000 m
11.883 m	79.669 m	14.000 m
11.586 m	79.488 m	14.000 m

Site 1

Luminaire layout plan

X	Y	Mounting height
11.300 m	79.290 m	14.000 m
11.023 m	79.079 m	14.000 m
10.759 m	78.853 m	14.000 m
10.506 m	78.613 m	14.000 m
10.267 m	78.360 m	14.000 m
10.041 m	78.096 m	14.000 m
9.829 m	77.820 m	14.000 m
9.632 m	77.533 m	14.000 m
9.450 m	77.236 m	14.000 m
9.284 m	76.930 m	14.000 m
9.134 m	76.616 m	14.000 m
9.001 m	76.294 m	14.000 m
8.884 m	75.966 m	14.000 m
8.786 m	75.633 m	14.000 m
8.704 m	75.294 m	14.000 m
8.641 m	74.952 m	14.000 m
8.595 m	74.607 m	14.000 m
8.568 m	74.260 m	14.000 m
8.559 m	73.912 m	14.000 m
8.568 m	73.564 m	14.000 m
8.595 m	73.217 m	14.000 m
8.641 m	72.872 m	14.000 m
8.704 m	72.529 m	14.000 m
8.786 m	72.191 m	14.000 m
8.884 m	71.857 m	14.000 m

Site 1

Luminaire layout plan

X	Y	Mounting height
9.001 m	71.529 m	14.000 m
9.134 m	71.208 m	14.000 m
9.284 m	70.893 m	14.000 m
9.450 m	70.588 m	14.000 m
9.632 m	70.291 m	14.000 m
9.829 m	70.004 m	14.000 m
10.041 m	69.728 m	14.000 m
10.267 m	69.463 m	14.000 m
10.506 m	69.211 m	14.000 m
10.759 m	68.971 m	14.000 m
11.023 m	68.745 m	14.000 m
11.300 m	68.533 m	14.000 m
11.586 m	68.336 m	14.000 m
11.883 m	68.154 m	14.000 m
12.189 m	67.988 m	14.000 m
12.503 m	67.838 m	14.000 m
12.825 m	67.705 m	14.000 m
13.153 m	67.589 m	14.000 m
13.487 m	67.490 m	14.000 m
13.825 m	67.409 m	14.000 m
14.167 m	67.345 m	14.000 m
14.512 m	67.300 m	14.000 m
14.859 m	67.272 m	14.000 m
15.207 m	67.263 m	14.000 m
15.555 m	67.272 m	14.000 m

Site 1

Luminaire layout plan

X	Y	Mounting height
15.902 m	67.300 m	14.000 m
16.247 m	67.345 m	14.000 m
16.590 m	67.409 m	14.000 m
16.928 m	67.490 m	14.000 m
17.262 m	67.589 m	14.000 m
17.590 m	67.705 m	14.000 m
17.912 m	67.838 m	14.000 m
18.226 m	67.988 m	14.000 m
18.532 m	68.154 m	14.000 m
18.828 m	68.336 m	14.000 m
19.115 m	68.533 m	14.000 m
19.391 m	68.745 m	14.000 m
19.656 m	68.971 m	14.000 m
19.909 m	69.211 m	14.000 m
20.148 m	69.463 m	14.000 m
20.374 m	69.728 m	14.000 m
20.586 m	70.004 m	14.000 m
20.783 m	70.291 m	14.000 m
20.965 m	70.588 m	14.000 m
21.131 m	70.893 m	14.000 m
21.281 m	71.208 m	14.000 m
21.414 m	71.529 m	14.000 m
21.530 m	71.857 m	14.000 m
21.629 m	72.191 m	14.000 m
21.711 m	72.529 m	14.000 m

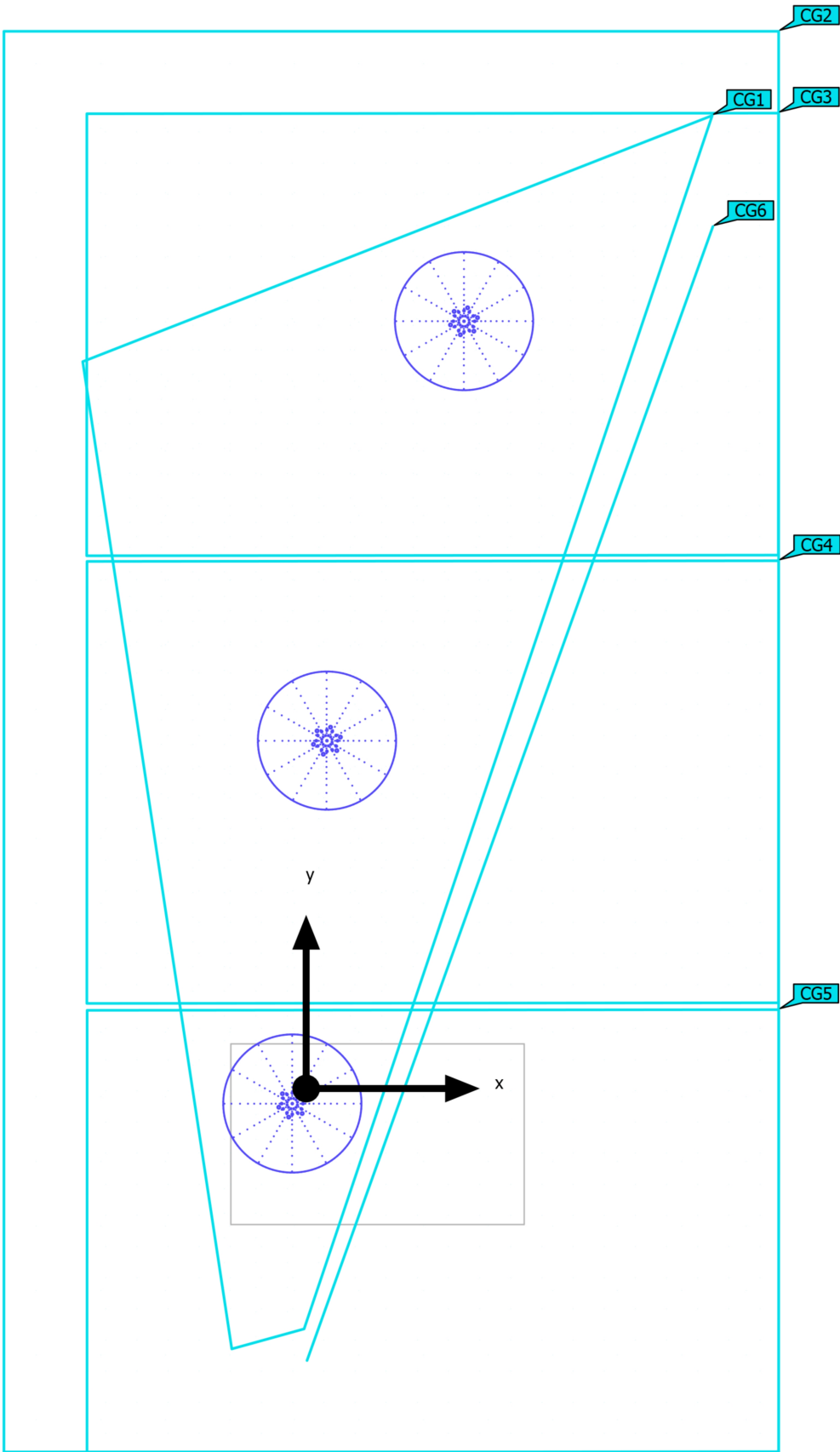
Site 1

Luminaire layout plan

X	Y	Mounting height
21.774 m	72.872 m	14.000 m
21.819 m	73.217 m	14.000 m
21.847 m	73.564 m	14.000 m

Site 1 (Light scene 1)

Calculation objects



Site 1 (Light scene 1)

Calculation objects

Calculation surfaces

Properties	$\bar{E}$	E_{min}	E_{max}	$U_o (g_1)$	g_2	Index
The Seam Site, DMC Perpendicular illuminance Height: 0.565 m	2.84 lx	0.00 lx	9.64 lx	0.00	0.00	CG1
Upward receptor at 19m Perpendicular illuminance Height: 19.000 m	5.91 lx	0.001 lx	93.0 lx	0.000	0.000	CG2
East Boundary of Site Perpendicular illuminance Height: 6.292 m	3.60 lx	0.014 lx	32.2 lx	0.004	0.000	CG6

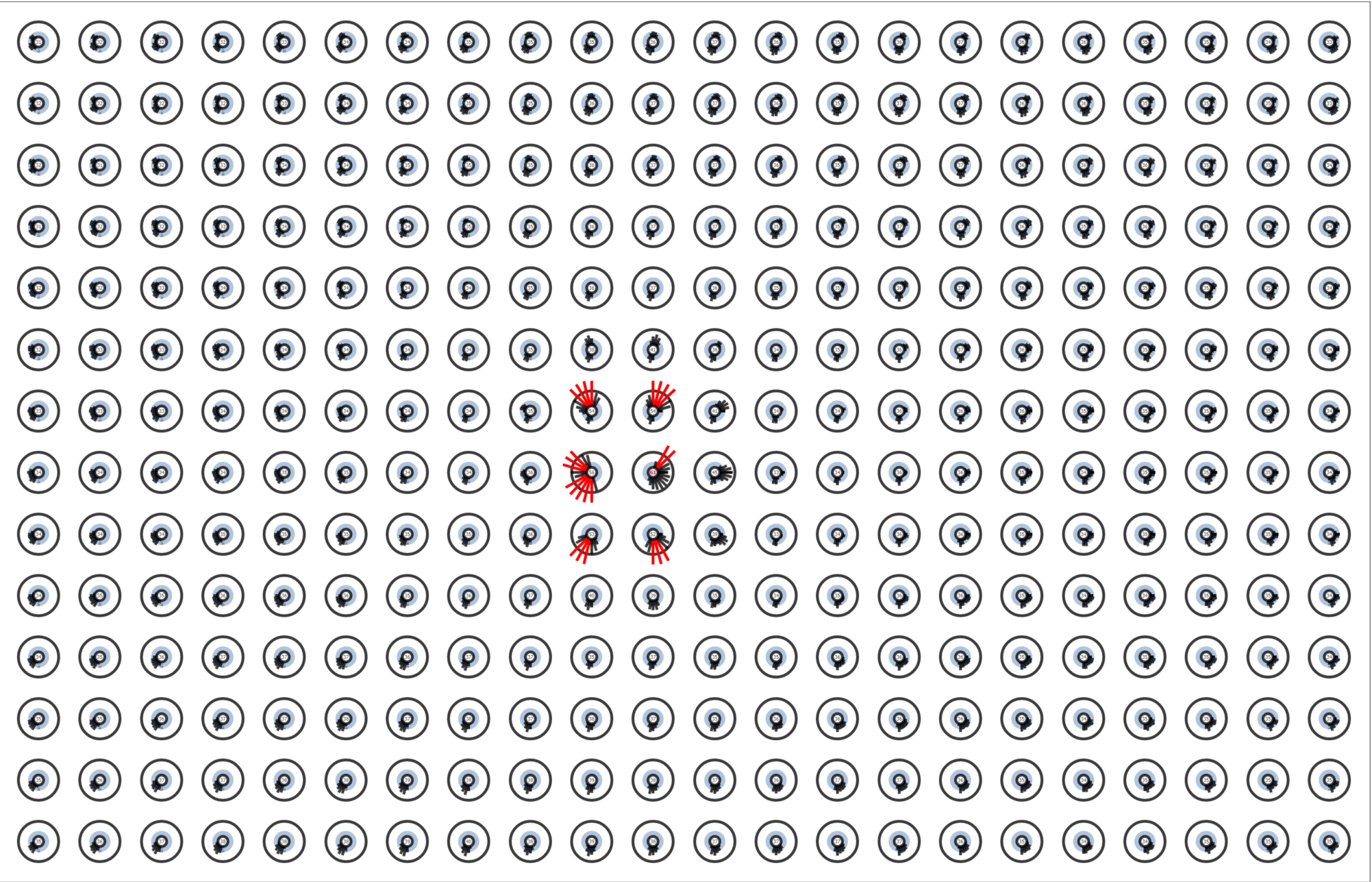
North (GR)

Strongest glare at	45°
max	61
Target	≤50
Viewing sector	0° - 360°
Step width	15°
Angle of inclination	-2°
Height	1.700 m
Index	CG3
Method	Simplified calculation as per EN12464

Site 1 (Light scene 1)

Calculation objects

North (GR)



Site 1 (Light scene 1)

Calculation objects

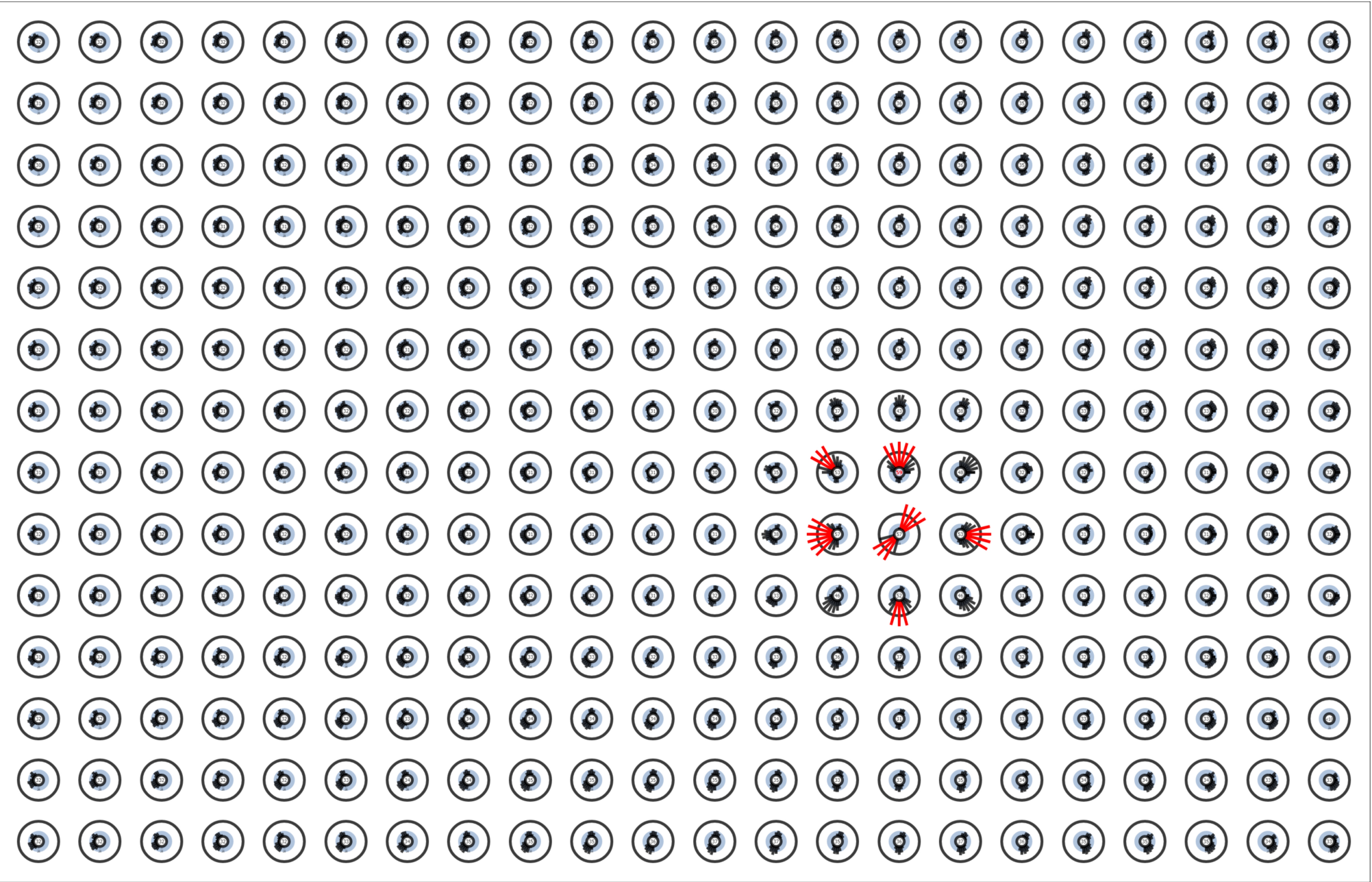
Central (GR)

Strongest glare at	90°
max	59
Target	≤50
Viewing sector	0° - 360°
Step width	15°
Angle of inclination	-2°
Height	1.700 m
Index	CG4
Method	Simplified calculation as per EN12464

Site 1 (Light scene 1)

Calculation objects

Central (GR)



Site 1 (Light scene 1)

Calculation objects

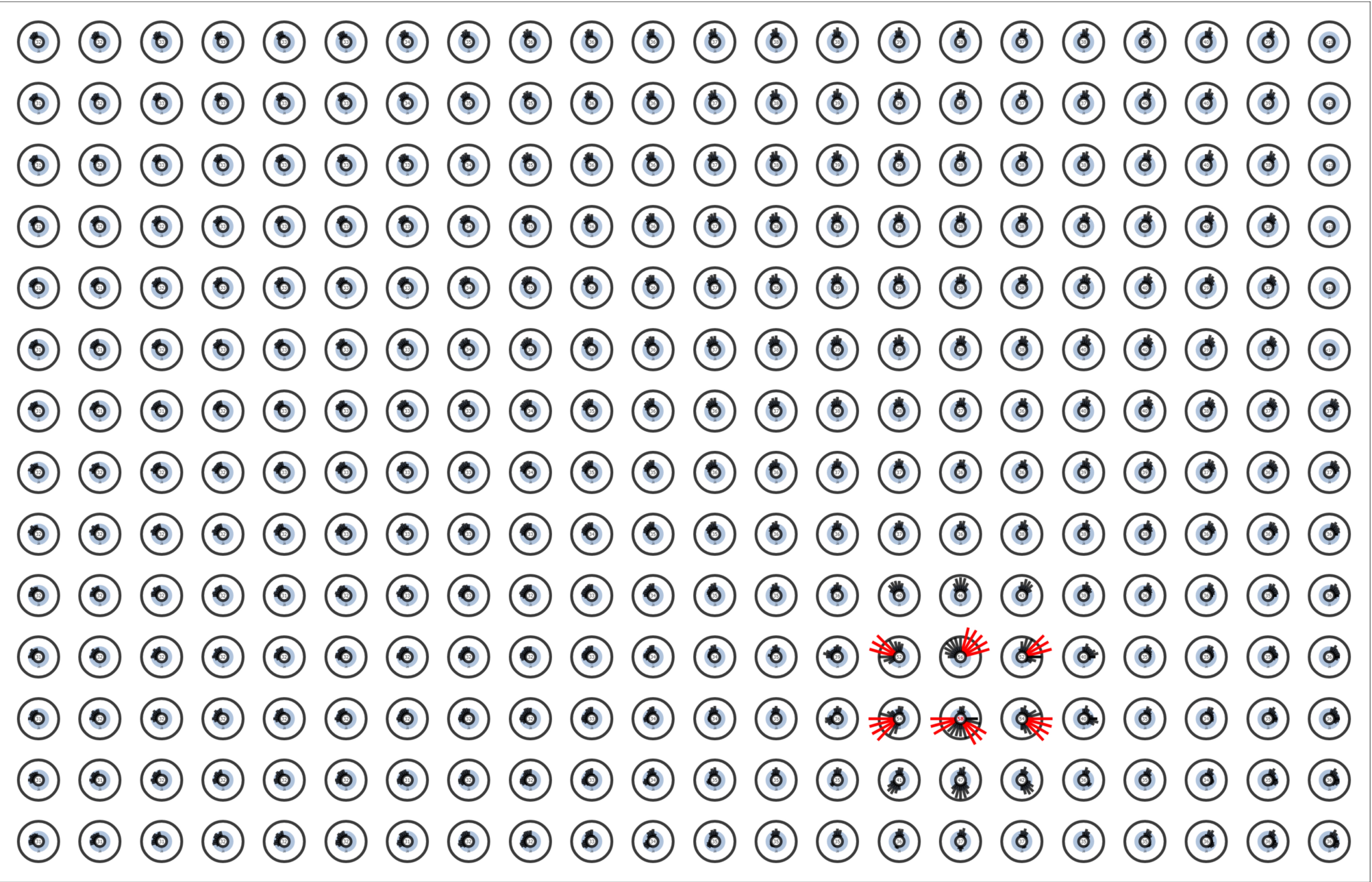
South (GR)

Strongest glare at	210°
max	58
Target	≤50
Viewing sector	0° - 360°
Step width	15°
Angle of inclination	-2°
Height	1.700 m
Index	CG5
Method	Simplified calculation as per EN12464

Site 1 (Light scene 1)

Calculation objects

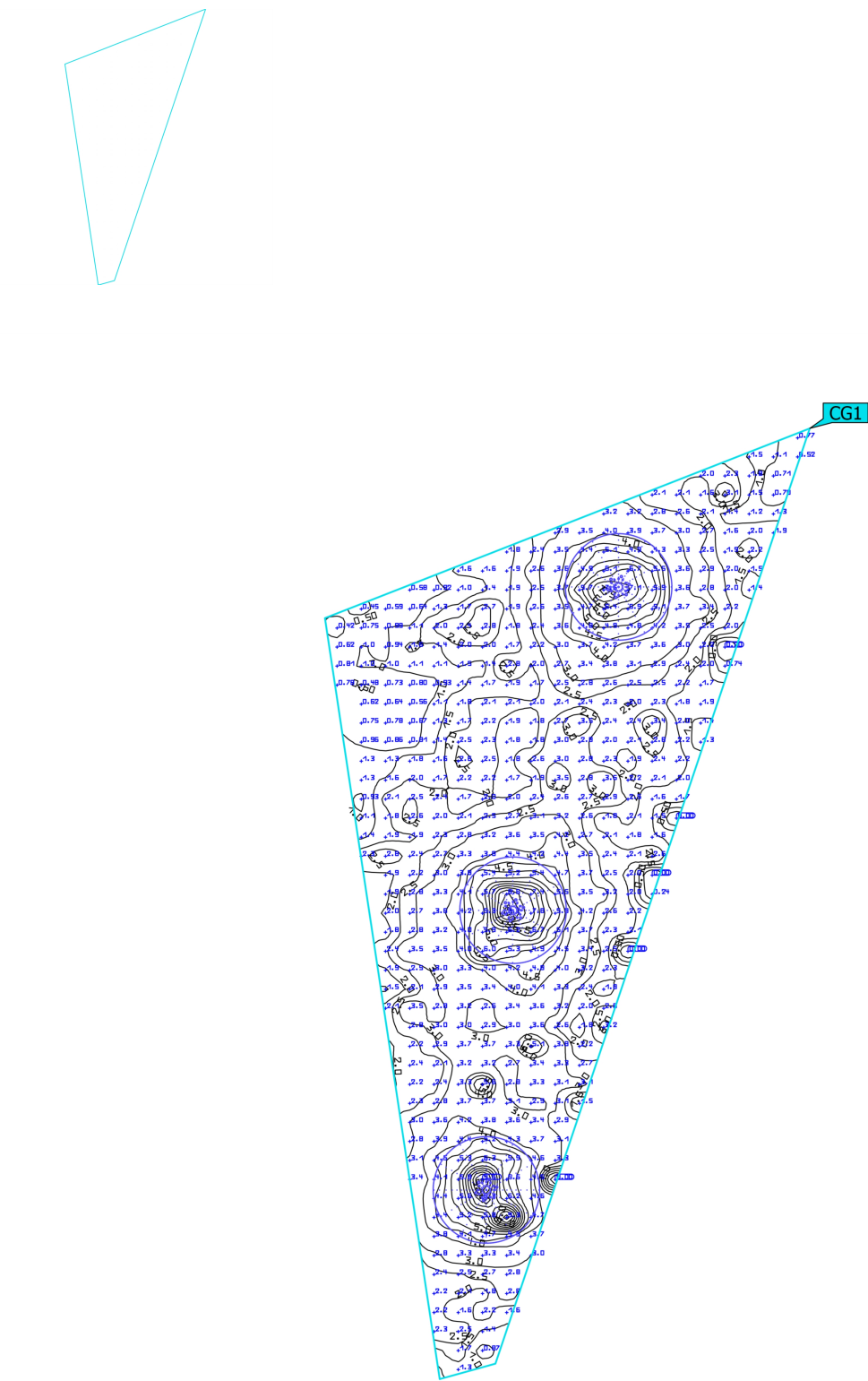
South (GR)



Utilisation profile: DIALux presetting (5.1.4 Standard (outdoor transportation area))

Site 1 (Light scene 1)

The Seam Site, DMC

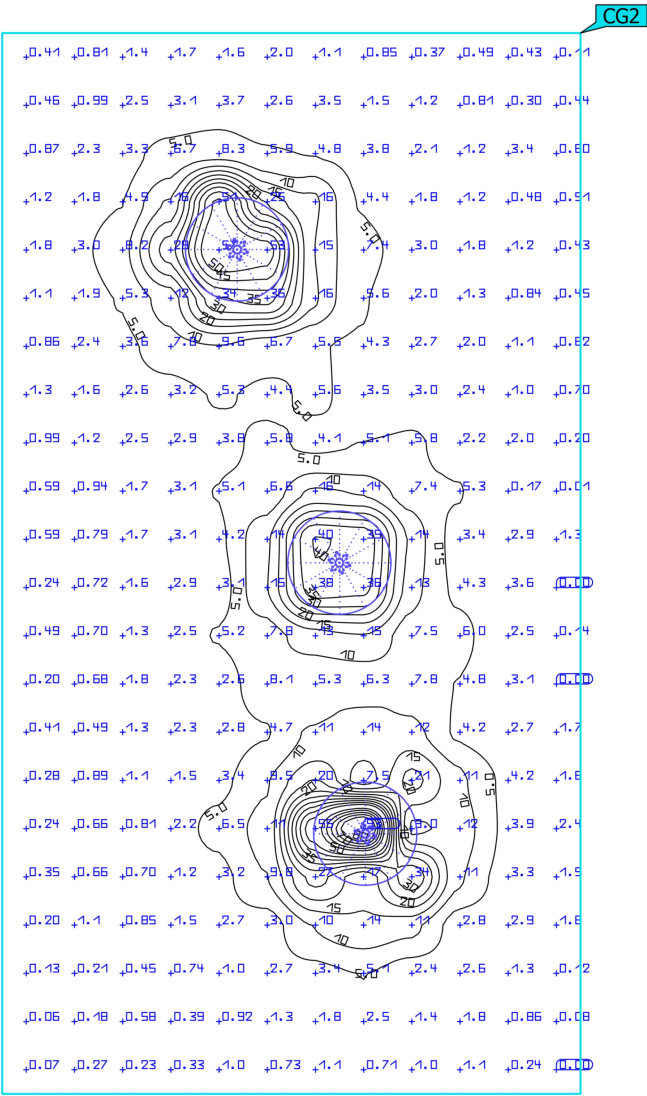
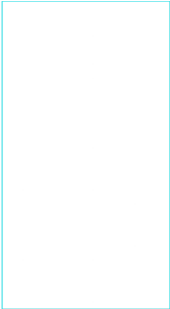


Properties	$\bar{E}$	E_{min}	E_{max}	$U_o (g_1)$	g_2	Index
The Seam Site, DMC Perpendicular illuminance Height: 0.565 m	2.84 lx	0.00 lx	9.64 lx	0.00	0.00	CG1

Utilisation profile: DIALux presetting (5.1.4 Standard (outdoor transportation area))

Site 1 (Light scene 1)

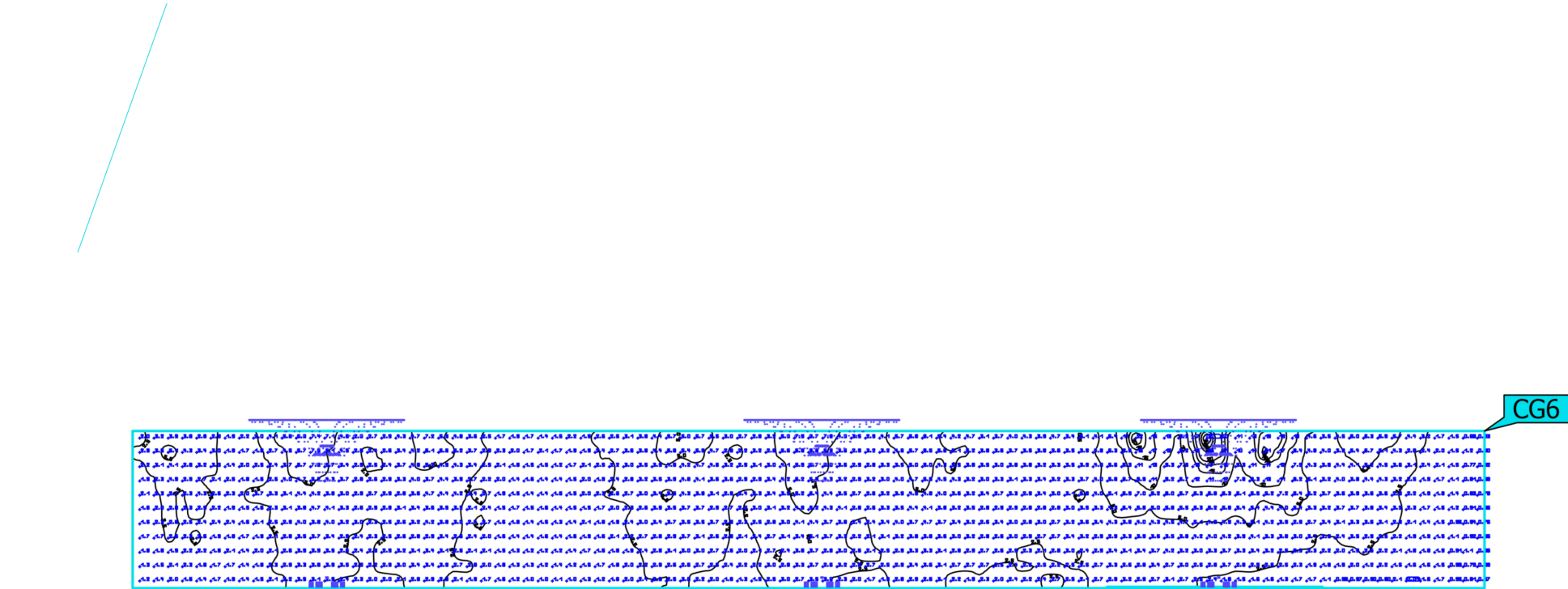
Upward receptor at 19m



Properties	$\bar{E}$	E_{min}	E_{max}	$U_o (g_1)$	g_2	Index
Upward receptor at 19m Perpendicular illuminance Height: 19.000 m	5.91 lx	0.001 lx	93.0 lx	0.000	0.000	CG2

Utilisation profile: DIALux presetting (5.1.4 Standard (outdoor transportation area))

Site 1 (Light scene 1)
East Boundary of Site



Properties	$\bar{E}$	E_{min}	E_{max}	$U_o (g_1)$	g_2	Index
East Boundary of Site Perpendicular illuminance Height: 6.292 m	3.60 lx	0.014 lx	32.2 lx	0.004	0.000	CG6

Utilisation profile: DIALux presetting (5.1.4 Standard (outdoor transportation area))

Glossary

A	
A	Formula symbol for a surface in the geometry
B	
Background area	The background area borders the direct ambient area according to DIN EN 12464-1 and reaches up to the borders of the room. In larger rooms, the background area is at least 3 m wide. It is located horizontally at floor level.
C	
CCT	(Engl. correlated colour temperature) Body temperature of a thermal radiator which serves to describe its light colour. Unit: Kelvin [K]. The lesser the numerical value the redder; the greater the numerical value the bluer the light colour. The colour temperature of gas-discharge lamps and semi-conductors are termed "correlated colour temperature" in contrast to the colour temperature of thermal radiators. Allocation of the light colours to the colour temperature ranges acc. to EN 12464-1: Light colour - colour temperature [K] warm white (ww) < 3,300 K neutral white (nw) ≥ 3,300 – 5,300 K daylight white (dw) > 5,300 K
Clearance height	The designation for the distance between upper edge of the floor and bottom edge of the ceiling (in the completely furnished status of room).
Control group	A group of luminaires that are dimmed and controlled together. For each lighting scene, a control group provides its own dimming value. All luminaires within a control group share this dimming value. The control groups with their luminaires are automatically determined by DIALux on the basis of the created light scenes and their luminaire groups.
CRI	(Engl. colour rendering index) Designation for the colour rendering index of a luminaire or a lamp acc. to DIN 6169: 1976 or CIE 13.3: 1995. The general colour rendering index Ra (or CRI) is a dimensionless figure that describes the quality of a white light source in regards to its similarity with the remission spectra of defined 8 test colours (see DIN 6169 or CIE 1974) to a reference light source.

Glossary

D

Daylight autonomy	Describes what percentage of the daily working time the required illuminance is met by daylight. The nominal illuminance is used from the room profile, unlike described in EN 17037. The calculation is not done in the centre of the room but at the placed sensor measuring point. A room is considered sufficiently supplied with daylight if it achieves at least 50% daylight autonomy.
Daylight factor	Ratio of the illuminance achieved solely by daylight incidence at a point in the inside to the horizontal illuminance in the outer area under an unobstructed sky. Formula symbol: D (Engl. daylight factor) Unit: %
Daylight quotient effective area	A calculation surface within which the daylight quotient is calculated.

E

Energy evaluation	Based on an hourly calculation procedure for daylight in indoor spaces, considering the project geometry and any existing daylight control systems. Orientation and location of the project are also considered. The calculation uses the specified system power of the luminaires to determine the energy demand. A linear relationship between power and luminous flux in the dimmed state is assumed for daylight-controlled luminaires. Times of use and nominal illuminance are determined from the usage profiles of the spaces. Switched-on luminaires that are explicitly excluded from control also consider the specified times-of-use. The daylight control systems use a simplified control logic that closes them at an outdoor horizontal illuminance of 27,500lx. The calendar year 2022 is used as a reference only. It is not a simulation of this year. The reference year is only used to assign the days of the week to the calculated results. The changeover to summer time is not considered. The reference sky type used is the average sky described in CIE 110 without direct sunlight. The method was developed together with the Fraunhofer Institute for Building Physics and is available for review by the Joint Working Group 1 ISO TC 274 as an extension of the previous annual regression-based method.
Eta (η)	(light output ratio) The light output ratio describes what percentage of the luminous flux of a free radiating lamp (or LED module) is emitted by the luminaire when installed. Unit: %

G

g ₁	Often also U _o (Engl. overall uniformity) Designates the overall uniformity of the illuminance on a surface. It is the quotient from E _{min} to $\bar{E}$ and is required, for instance, in standards for illumination of workstations.
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Glossary

g ₂	Actually it designates the "non-uniformity" of the illuminance on a surface. It is the quotient of E _{min} to E _{max} and is generally only relevant for certifying the emergency lighting acc. to EN 1838.
I	
Illuminance	Describes the ratio of the luminous flux that strikes a certain surface to the size of this surface (lm/m² = lx). The illuminance is not tied to an object surface. It can be determined anywhere in space (inside or outside). The illuminance is not a product feature because it is a recipient value. Luxometers are used for measuring. Unit: Lux Abbreviation: lx Formula symbol: E
Illuminance, adaptive	For the determining of the middle adaptive illuminance on a surface, this is rastered "adaptively". In the area of large illuminance differences within the surface, the raster is subdivided finer; within lesser differences, a rougher classification is made.
Illuminance, horizontal	Illuminance that is calculated or measured on a horizontal (level) surface (this can be for example a table top or the floor). The horizontal illuminance is usually identified by the formula letter E _h .
Illuminance, perpendicular	Illuminance that is calculated or measured plumb-vertical to a surface. This needs to be taken into account for tilted surfaces. If the surface is horizontal or vertical, then there is no difference between the perpendicular and the horizontal or vertical illuminance.
Illuminance, vertical	Illuminance that is calculated or measured on a vertical surface (this can be for example the front of some shelves). The vertical illuminance is usually identified by the formula letter E _v .
L	
LENI	(Engl. lighting energy numeric indicator) Lighting energy numeric indicator acc. to EN 15193 Unit: kWh/(m² * a)
LLMF	(Engl. lamp lumen maintenance factor)/acc. to CIE 97: 2005 Lamp flux maintenance factor that takes the luminous flux reduction into account of a luminaire or an LED module in the course of the operating time. The lamp flux maintenance factor is specified as a decimal digit and can have a maximum value of 1 (no luminous flux reduction existing).
LMF	(Engl. luminaire maintenance factor)/acc. to CIE 97: 2005 Luminaire maintenance factor that takes the soiling into account of the luminaire in the course of the operating time. The luminaire maintenance factor is specified as a decimal digit and can have a maximum value of 1 (no soiling existing).

Glossary

LSF	(Engl. lamp survival factor)/acc. to CIE 97: 2005 Lamp survival factor that takes the total failure into account of a luminaire in the course of the operating time. The lamp survival factor is specified as a decimal digit and can have a maximum value of 1 (no failures existing within the time concerned or prompt replacement after the failure).
Luminance	Dimension for the "brightness impression" that the human eye has of a surface. The surface itself can emit light thereby or light striking it can be reflected (emitter value). It is the only photometric value that the human eye can perceive. Unit: Candela per square metre Abbreviation: cd/m² Formula symbol: L
Luminous efficacy	Ratio of the emitted luminous flux Φ [lm] to the absorbed electrical power P [W] Unit: lm/W. This ratio can be formed for the lamp or LED module (lamp or module light output), the lamp or module with control gear (system light output) and the complete luminaire (luminaire light output).
Luminous flux	Dimension for the total light output that is emitted from one light source in all directions. It is thus an "emitter value" that specifies the entire emitting output. The luminous flux of a light source can only be determined in a laboratory. A difference is made between the lamp or LED module luminous flux and the luminaire luminous flux. Unit: Lumen Abbreviation: lm Formula symbol: Φ
Luminous intensity	Describes the intensity of the light in a certain direction (emitter value). The luminous intensity is a matter of the luminous flux Φ that is emitted in a certain spherical angle Ω. The radiation characteristics of a light source are presented graphically in a light distribution curve (LDC). The luminous intensity is an SI base unit. Unit: Candela Abbreviation: cd Formula symbol: I
M	
Maintenance factor	See MF

Glossary

MF	(Engl. maintenance factor)/acc. to CIE 97: 2005 Maintenance factor as decimal number between 0 and 1 that describes the ratio of the new value of a photometric planning parameter (e.g. of the illuminance) to a maintenance value after a certain time. The maintenance factor takes into account the soiling of luminaires and rooms as well as the luminous flux reduction and the failure of light sources. The maintenance factor is taken into account either overall or determined in detail acc. to CIE 97: 2005 by the formula $RMF \times LMF \times LLMF \times LSF$.
P	
P	(Engl. power) Electric power consumption Unit: watt Abbreviation: W
R	
$R_{(UG)} \text{ max}$	Measure of the psychological glare in indoor spaces. In addition to the luminance of luminaires, the level of the $R_{(UG)}$ value also depends on the observer position, the viewing direction and the ambient luminance. The calculation is made according to the table method, see CIE 117. Among other things, EN 12464-1:2021 specifies maximum permissible $R_{(UG)}$- values $R_{(UGL)}$ for various indoor workplaces.
Reflection factor	The reflection factor of a surface describes how much of the striking light is reflected back. The reflection factor is defined by the colour of the surface.
RMF	(Engl. room maintenance factor)/acc. to CIE 97: 2005 Room maintenance factor that takes the soiling into account of the space encompassing surfaces in the course of the operating time. The room maintenance factor is specified as a decimal digit and can have a maximum value of 1 (no soiling existing).
S	
Surrounding area	The ambient area directly borders the area of the visual task and should be planned with a width of at least 0.5 m according to DIN EN 12464-1. It is at the same height as the area of the visual task.

Glossary

U

UGR (max)	(unified glare rating) Measure for the psychological glare effect in interiors. In addition to luminaire luminance, the UGR value also depends on the position of the observer, the viewing direction and the ambient luminance. Among other things, EN 12464-1 specifies maximum permissible UGR values for various indoor workplaces.
UGR observer	Calculation point in the room, for the DIALux the UGR value is determined. The location and height of the calculation point should correspond to the typical observer position (position and eye level of the user).

V

Visual task area	The area that is needed for carrying out the visual task in accordance with DIN EN 12464-1. The height corresponds with the height at which the visual task is executed.
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W

Wall zone	Circumferential area between working plane and walls which is not taken into account for the calculation.
Working plane	Virtual measuring or calculation surface at the height of the visual task that generally follows the room geometry. The working plane may also feature a wall zone.