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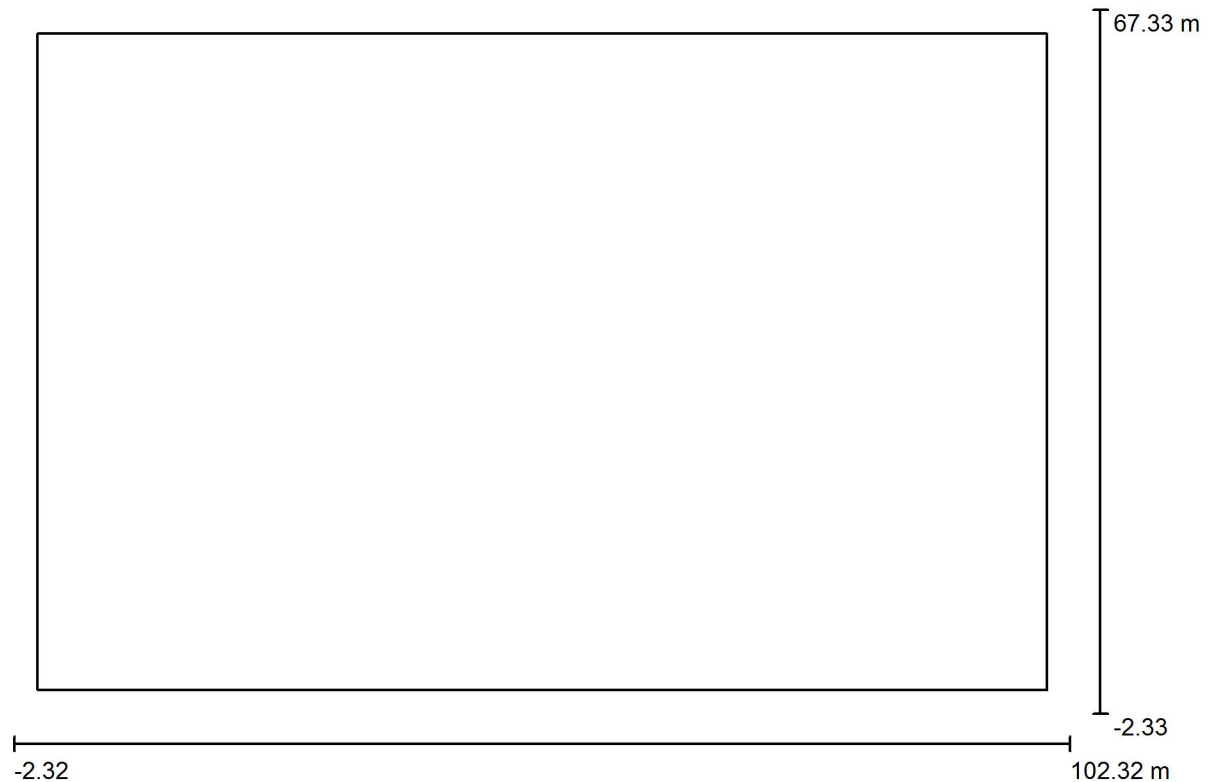
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Exterior Scene 1 / Planning data



Light loss factor: 0.85, ULR (Upward Light Ratio): 6.0%

Scale 1:749

Luminaire Parts List

No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	52	OAK LED Co. Ltd 1 OAK-FL-720W-Smart-25degree (1.000)	121715	122400	720.0
2	20	OAK LED Co. Ltd 1 OAK-FL-720W-Smart-40degree (1.000)	121306	122400	720.0
Total:			8755319	8812800	51840.0

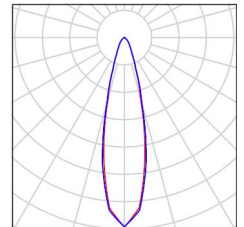


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Exterior Scene 1 / Luminaire parts list

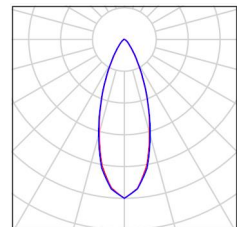
52 Pieces OAK LED Co. Ltd 1 OAK-FL-720W-Smart-25degree
Article No.: 1
Luminous flux (Luminaire): 121715 lm
Luminous flux (Lamps): 122400 lm
Luminaire Wattage: 720.0 W
Luminaire classification according to CIE: 99
CIE flux code: 88 97 99 99 100
Fitting: 1 x OAK-FL-720W-Smart-25degree - 720.00 W (Correction Factor 1.000).

See our luminaire catalog for an image of the luminaire.



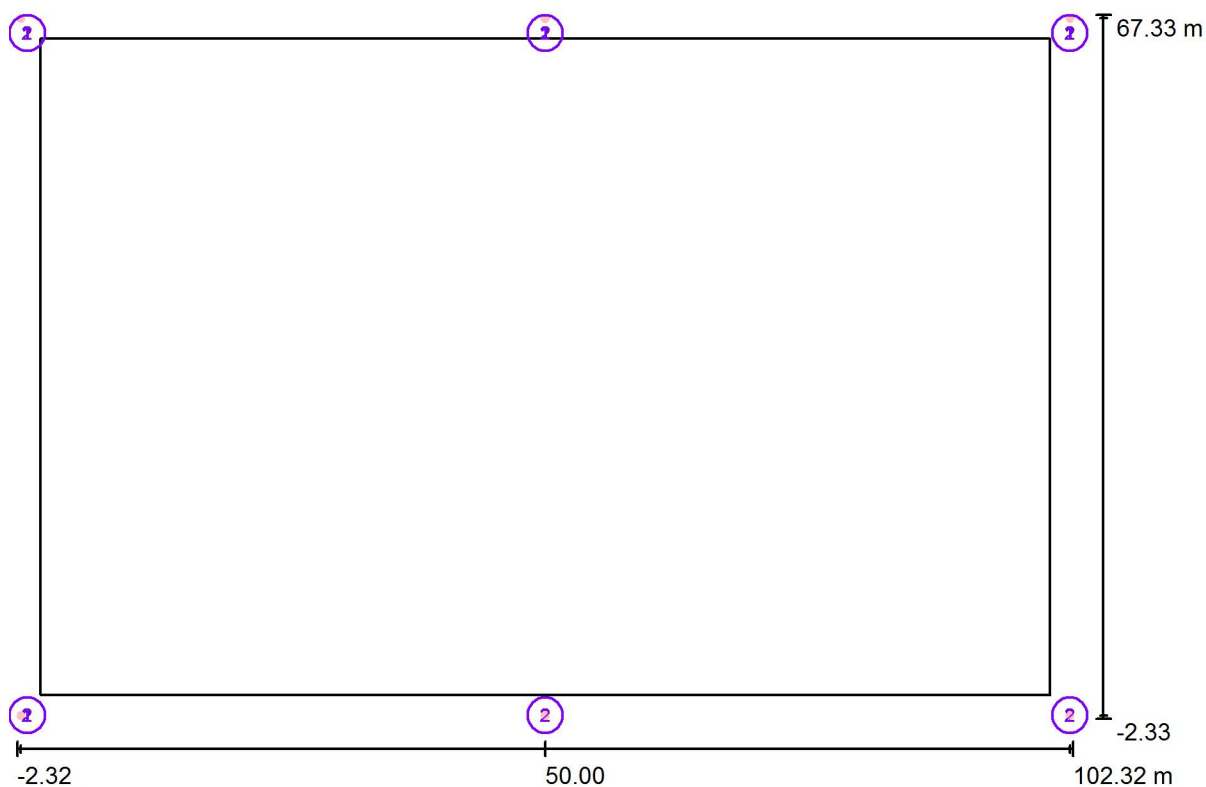
20 Pieces OAK LED Co. Ltd 1 OAK-FL-720W-Smart-40degree
Article No.: 1
Luminous flux (Luminaire): 121306 lm
Luminous flux (Lamps): 122400 lm
Luminaire Wattage: 720.0 W
Luminaire classification according to CIE: 100
CIE flux code: 91 99 100 100 100
Fitting: 1 x OAK-FL-720W-Smart-40degree - 720.00 W (Correction Factor 1.000).

See our luminaire catalog for an image of the luminaire.





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Exterior Scene 1 / Luminaires (layout plan)

Scale 1 : 749

Luminaire Parts List

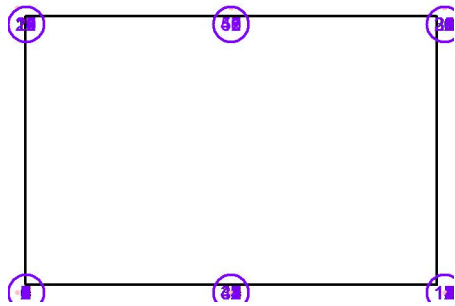
No.	Pieces	Designation
1	52	OAK LED Co. Ltd 1 OAK-FL-720W-Smart-25degree
2	20	OAK LED Co. Ltd 1 OAK-FL-720W-Smart-40degree

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Exterior Scene 1 / Luminaires (coordinates list)

OAK LED Co. Ltd 1 OAK-FL-720W-Smart-25degree

121715 lm, 720.0 W, 1 x 1 x OAK-FL-720W-Smart-25degree - 720.00 W (Correction Factor 1.000).



No.	Position [m]			Rotation [°]		
	X	Y	Z	X	Y	Z
1	-2.000	-2.000	20.000	61.5	0.0	-20.6
2	-2.000	-2.000	20.000	60.2	0.0	-7.3
3	-2.000	-2.000	20.000	65.9	0.0	-39.4
4	-2.000	-2.000	20.000	54.3	0.0	-79.6
5	-2.000	-2.000	20.000	63.4	0.0	-30.4
6	-2.000	-2.000	20.000	59.9	0.0	-56.8
7	-2.000	-2.000	20.000	65.9	0.0	-39.4
8	-2.000	-2.000	20.000	60.2	0.0	-7.3
9	-2.000	-2.000	20.000	67.8	0.0	-45.5
10	102.000	-2.000	20.000	61.5	0.0	20.6
11	102.000	-2.000	20.000	60.2	0.0	7.3
12	102.000	-2.000	20.000	65.9	0.0	39.4
13	102.000	-2.000	20.000	54.3	0.0	79.6
14	102.000	-2.000	20.000	63.4	0.0	30.4
15	102.000	-2.000	20.000	59.9	0.0	56.8
16	102.000	-2.000	20.000	65.9	0.0	39.4
17	102.000	-2.000	20.000	60.2	0.0	7.3
18	102.000	-2.000	20.000	67.8	0.0	45.5
19	-2.000	67.000	20.000	61.5	0.0	-159.4
20	-2.000	67.000	20.000	60.2	0.0	-172.7
21	-2.000	67.000	20.000	65.9	0.0	-140.6
22	-2.000	67.000	20.000	54.3	0.0	-100.4
23	-2.000	67.000	20.000	63.4	0.0	-149.6
24	-2.000	67.000	20.000	59.9	0.0	-123.2
25	-2.000	67.000	20.000	65.9	0.0	-140.6
26	-2.000	67.000	20.000	60.2	0.0	-172.7
27	-2.000	67.000	20.000	67.8	0.0	-134.5
28	102.000	67.000	20.000	61.5	0.0	159.4



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Exterior Scene 1 / Luminaires (coordinates list)

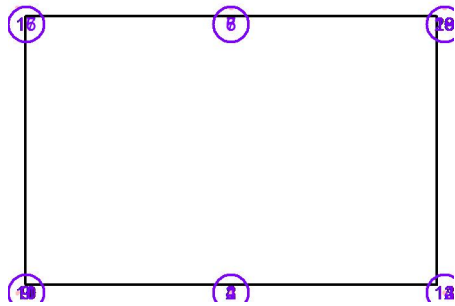
No.	Position [m]			Rotation [°]		
	X	Y	Z	X	Y	Z
29	102.000	67.000	20.000	60.2	0.0	172.7
30	102.000	67.000	20.000	65.9	0.0	140.6
31	102.000	67.000	20.000	54.3	0.0	100.4
32	102.000	67.000	20.000	63.4	0.0	149.6
33	102.000	67.000	20.000	59.9	0.0	123.2
34	102.000	67.000	20.000	65.9	0.0	140.6
35	102.000	67.000	20.000	60.2	0.0	172.7
36	102.000	67.000	20.000	67.8	0.0	134.5
37	50.000	-2.000	20.000	59.6	0.0	7.7
38	50.000	-2.000	20.000	61.8	0.0	23.7
39	50.000	-2.000	20.000	53.0	0.0	53.3
40	50.000	-2.000	20.000	49.8	0.0	77.7
41	50.000	-2.000	20.000	59.6	0.0	-7.7
42	50.000	-2.000	20.000	61.8	0.0	-23.7
43	50.000	-2.000	20.000	53.0	0.0	-53.3
44	50.000	-2.000	20.000	49.8	0.0	-77.7
45	50.000	67.000	20.000	59.6	0.0	172.3
46	50.000	67.000	20.000	61.8	0.0	156.3
47	50.000	67.000	20.000	53.0	0.0	126.7
48	50.000	67.000	20.000	49.8	0.0	102.3
49	50.000	67.000	20.000	59.6	0.0	-172.3
50	50.000	67.000	20.000	61.8	0.0	-156.3
51	50.000	67.000	20.000	53.0	0.0	-126.7
52	50.000	67.000	20.000	49.8	0.0	-102.3

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Exterior Scene 1 / Luminaires (coordinates list)

OAK LED Co. Ltd 1 OAK-FL-720W-Smart-40degree

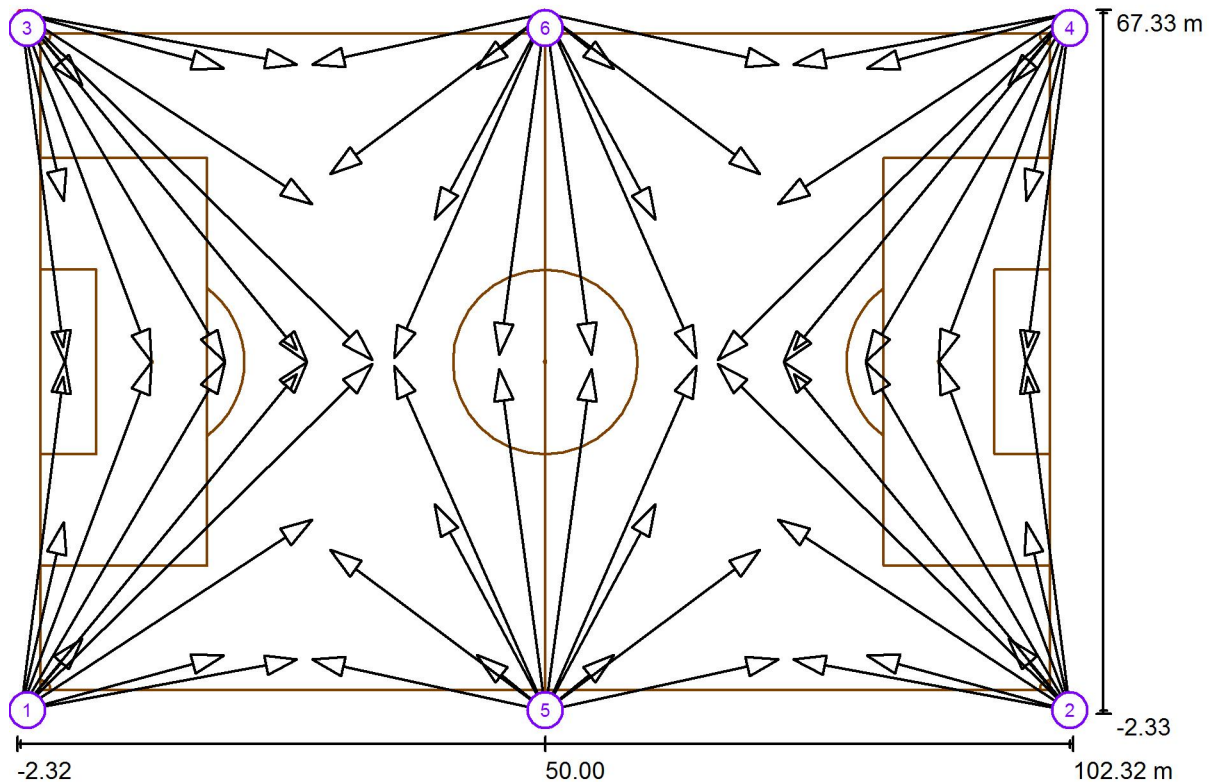
121306 lm, 720.0 W, 1 x 1 x OAK-FL-720W-Smart-40degree - 720.00 W (Correction Factor 1.000).



No.	Position [m]			Rotation [°]		
	X	Y	Z	X	Y	Z
1	50.000	-2.000	20.000	49.2	0.0	28.2
2	50.000	-2.000	20.000	23.6	0.0	51.0
3	50.000	-2.000	20.000	49.2	0.0	-28.2
4	50.000	-2.000	20.000	23.6	0.0	-51.0
5	50.000	67.000	20.000	49.2	0.0	151.8
6	50.000	67.000	20.000	23.6	0.0	129.0
7	50.000	67.000	20.000	49.2	0.0	-151.8
8	50.000	67.000	20.000	23.6	0.0	-129.0
9	-2.000	-2.000	20.000	43.7	0.0	-13.0
10	-2.000	-2.000	20.000	25.1	0.0	-40.7
11	-2.000	-2.000	20.000	46.2	0.0	-74.9
12	102.000	-2.000	20.000	43.7	0.0	13.0
13	102.000	-2.000	20.000	25.1	0.0	40.7
14	102.000	-2.000	20.000	46.2	0.0	74.9
15	-2.000	67.000	20.000	43.7	0.0	-167.0
16	-2.000	67.000	20.000	25.1	0.0	-139.3
17	-2.000	67.000	20.000	46.2	0.0	-105.1
18	102.000	67.000	20.000	43.7	0.0	167.0
19	102.000	67.000	20.000	25.1	0.0	139.3
20	102.000	67.000	20.000	46.2	0.0	105.1

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Exterior Scene 1 / Sport Luminaires (Coordinates List)



Scale 1 : 749

List of the Sport Luminaires

Luminaire	Index	Position [m]			Aiming Point [m]			Angle [°]	Alignment	Pole
		X	Y	Z	X	Y	Z			
OAK LED Co. Ltd 1 OAK-FL-720W-Smart-25degree	1	-2.000	-2.000	20.000	11.000	32.500	0.000	28.5	(C 90, G IMax)	/
OAK LED Co. Ltd 1 OAK-FL-720W-Smart-25degree	1	-2.000	-2.000	20.000	2.400	32.576	0.000	29.8	(C 90, G IMax)	/
OAK LED Co. Ltd 1 OAK-FL-720W-Smart-25degree	1	-2.000	-2.000	20.000	26.385	32.499	0.000	24.1	(C 90, G IMax)	/
OAK LED Co. Ltd 1 OAK-FL-720W-Smart-25degree	1	-2.000	-2.000	20.000	25.417	3.041	0.000	35.7	(C 90, G IMax)	/

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Exterior Scene 1 / Sport Luminares (Coordinates List)

List of the Sport Luminares

Luminaire	Index	Position [m]			Aiming Point [m]			Angle [°]	Alignment	Pole
		X	Y	Z	X	Y	Z			
OAK LED Co. Ltd 1 OAK-FL-720W-Smart-25degree	1	-2.000	-2.000	20.000	18.272	32.499	0.000	26.6	(C 90, G IMax)	/
OAK LED Co. Ltd 1 OAK-FL-720W-Smart-25degree	1	-2.000	-2.000	20.000	26.920	16.900	0.000	30.1	(C 90, G IMax)	/
OAK LED Co. Ltd 1 OAK-FL-720W-Smart-25degree	1	-2.000	-2.000	20.000	26.385	32.499	0.000	24.1	(C 90, G IMax)	/
OAK LED Co. Ltd 1 OAK-FL-720W-Smart-25degree	1	-2.000	-2.000	20.000	2.400	32.576	0.000	29.8	(C 90, G IMax)	/
OAK LED Co. Ltd 1 OAK-FL-720W-Smart-25degree	1	-2.000	-2.000	20.000	32.890	32.300	0.000	22.2	(C 90, G IMax)	/
OAK LED Co. Ltd 1 OAK-FL-720W-Smart-25degree	2	102.000	-2.000	20.000	89.000	32.500	0.000	28.5	(C 90, G IMax)	/
OAK LED Co. Ltd 1 OAK-FL-720W-Smart-25degree	2	102.000	-2.000	20.000	97.600	32.576	0.000	29.8	(C 90, G IMax)	/
OAK LED Co. Ltd 1 OAK-FL-720W-Smart-25degree	2	102.000	-2.000	20.000	73.615	32.499	0.000	24.1	(C 90, G IMax)	/
OAK LED Co. Ltd 1 OAK-FL-720W-Smart-25degree	2	102.000	-2.000	20.000	74.583	3.041	0.000	35.7	(C 90, G IMax)	/
OAK LED Co. Ltd 1 OAK-FL-720W-Smart-25degree	2	102.000	-2.000	20.000	81.728	32.499	0.000	26.6	(C 90, G IMax)	/
OAK LED Co. Ltd 1 OAK-FL-720W-Smart-25degree	2	102.000	-2.000	20.000	73.080	16.900	0.000	30.1	(C 90, G IMax)	/
OAK LED Co. Ltd 1 OAK-FL-720W-Smart-25degree	2	102.000	-2.000	20.000	73.615	32.499	0.000	24.1	(C 90, G IMax)	/
OAK LED Co. Ltd 1 OAK-FL-720W-Smart-25degree	2	102.000	-2.000	20.000	97.600	32.576	0.000	29.8	(C 90, G IMax)	/
OAK LED Co. Ltd 1 OAK-FL-720W-Smart-25degree	2	102.000	-2.000	20.000	67.110	32.300	0.000	22.2	(C 90, G IMax)	/
OAK LED Co. Ltd 1 OAK-FL-720W-Smart-25degree	3	-2.000	67.000	20.000	11.000	32.500	0.000	28.5	(C 90, G IMax)	/
OAK LED Co. Ltd 1 OAK-FL-720W-Smart-25degree	3	-2.000	67.000	20.000	2.400	32.424	0.000	29.8	(C 90, G IMax)	/
OAK LED Co. Ltd 1 OAK-FL-720W-Smart-25degree	3	-2.000	67.000	20.000	26.385	32.501	0.000	24.1	(C 90, G IMax)	/
OAK LED Co. Ltd 1 OAK-FL-720W-Smart-25degree	3	-2.000	67.000	20.000	25.417	61.959	0.000	35.7	(C 90, G IMax)	/
OAK LED Co. Ltd 1 OAK-FL-720W-Smart-25degree	3	-2.000	67.000	20.000	18.272	32.501	0.000	26.6	(C 90, G IMax)	/
OAK LED Co. Ltd 1 OAK-FL-720W-Smart-25degree	3	-2.000	67.000	20.000	26.920	48.100	0.000	30.1	(C 90, G IMax)	/
OAK LED Co. Ltd 1 OAK-FL-720W-Smart-25degree	3	-2.000	67.000	20.000	26.385	32.501	0.000	24.1	(C 90, G IMax)	/
OAK LED Co. Ltd 1 OAK-FL-720W-Smart-25degree	3	-2.000	67.000	20.000	2.400	32.424	0.000	29.8	(C 90, G IMax)	/
OAK LED Co. Ltd 1 OAK-FL-720W-Smart-25degree	3	-2.000	67.000	20.000	32.890	32.700	0.000	22.2	(C 90, G IMax)	/
OAK LED Co. Ltd 1 OAK-FL-720W-Smart-25degree	4	102.000	67.000	20.000	89.000	32.500	0.000	28.5	(C 90, G IMax)	/
OAK LED Co. Ltd 1 OAK-FL-720W-Smart-25degree	4	102.000	67.000	20.000	97.600	32.424	0.000	29.8	(C 90, G IMax)	/
OAK LED Co. Ltd 1 OAK-FL-720W-Smart-25degree	4	102.000	67.000	20.000	73.615	32.501	0.000	24.1	(C 90, G IMax)	/
OAK LED Co. Ltd 1 OAK-FL-720W-Smart-25degree	4	102.000	67.000	20.000	74.583	61.959	0.000	35.7	(C 90, G IMax)	/
OAK LED Co. Ltd 1 OAK-FL-720W-Smart-25degree	4	102.000	67.000	20.000	81.728	32.501	0.000	26.6	(C 90, G IMax)	/
OAK LED Co. Ltd 1 OAK-FL-720W-Smart-25degree	4	102.000	67.000	20.000	73.080	48.100	0.000	30.1	(C 90, G IMax)	/
OAK LED Co. Ltd 1 OAK-FL-720W-Smart-25degree	4	102.000	67.000	20.000	73.615	32.501	0.000	24.1	(C 90, G IMax)	/
OAK LED Co. Ltd 1 OAK-FL-720W-Smart-25degree	4	102.000	67.000	20.000	97.600	32.424	0.000	29.8	(C 90, G IMax)	/
OAK LED Co. Ltd 1 OAK-FL-720W-Smart-25degree	4	102.000	67.000	20.000	67.110	32.700	0.000	22.2	(C 90, G IMax)	/
OAK LED Co. Ltd 1 OAK-FL-720W-Smart-25degree	5	50.000	-2.000	20.000	45.447	31.800	0.000	30.4	(C 90, G IMax)	/
OAK LED Co. Ltd 1 OAK-FL-720W-Smart-25degree	5	50.000	-2.000	20.000	35.000	32.100	0.000	28.2	(C 90, G IMax)	/
OAK LED Co. Ltd 1 OAK-FL-720W-Smart-25degree	5	50.000	-2.000	20.000	28.700	13.902	0.000	37.0	(C 90, G IMax)	/

Smart-25degree
OAK LED Co. Ltd 1 OAK-FL-720W-
Smart-25degree

550.000-2.00020.00026.9093.0410.00040.2(C 90, G IMax) /

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Exterior Scene 1 / Sport Luminaires (Coordinates List)

List of the Sport Luminaires

Luminaire	Index	Position [m]			Aiming Point [m]			Angle [°]	Alignment	Pole
		X	Y	Z	X	Y	Z			
OAK LED Co. Ltd 1 OAK-FL-720W-Smart-25degree	5	50.000	-2.000	20.000	54.553	31.800	0.000	30.4	(C 90, G IMax)	/
OAK LED Co. Ltd 1 OAK-FL-720W-Smart-25degree	5	50.000	-2.000	20.000	65.000	32.100	0.000	28.2	(C 90, G IMax)	/
OAK LED Co. Ltd 1 OAK-FL-720W-Smart-25degree	5	50.000	-2.000	20.000	71.300	13.902	0.000	37.0	(C 90, G IMax)	/
OAK LED Co. Ltd 1 OAK-FL-720W-Smart-25degree	5	50.000	-2.000	20.000	73.091	3.041	0.000	40.2	(C 90, G IMax)	/
OAK LED Co. Ltd 1 OAK-FL-720W-Smart-25degree	6	50.000	67.000	20.000	45.447	33.200	0.000	30.4	(C 90, G IMax)	/
OAK LED Co. Ltd 1 OAK-FL-720W-Smart-25degree	6	50.000	67.000	20.000	35.000	32.900	0.000	28.2	(C 90, G IMax)	/
OAK LED Co. Ltd 1 OAK-FL-720W-Smart-25degree	6	50.000	67.000	20.000	28.700	51.098	0.000	37.0	(C 90, G IMax)	/
OAK LED Co. Ltd 1 OAK-FL-720W-Smart-25degree	6	50.000	67.000	20.000	26.909	61.959	0.000	40.2	(C 90, G IMax)	/
OAK LED Co. Ltd 1 OAK-FL-720W-Smart-25degree	6	50.000	67.000	20.000	54.553	33.200	0.000	30.4	(C 90, G IMax)	/
OAK LED Co. Ltd 1 OAK-FL-720W-Smart-25degree	6	50.000	67.000	20.000	65.000	32.900	0.000	28.2	(C 90, G IMax)	/
OAK LED Co. Ltd 1 OAK-FL-720W-Smart-25degree	6	50.000	67.000	20.000	71.300	51.098	0.000	37.0	(C 90, G IMax)	/
OAK LED Co. Ltd 1 OAK-FL-720W-Smart-25degree	6	50.000	67.000	20.000	73.091	61.959	0.000	40.2	(C 90, G IMax)	/
OAK LED Co. Ltd 1 OAK-FL-720W-Smart-40degree	5	50.000	-2.000	20.000	39.059	18.400	0.000	40.8	(C 90, G IMax)	/
OAK LED Co. Ltd 1 OAK-FL-720W-Smart-40degree	5	50.000	-2.000	20.000	43.200	3.500	0.000	66.4	(C 90, G IMax)	/
OAK LED Co. Ltd 1 OAK-FL-720W-Smart-40degree	5	50.000	-2.000	20.000	60.941	18.400	0.000	40.8	(C 90, G IMax)	/
OAK LED Co. Ltd 1 OAK-FL-720W-Smart-40degree	5	50.000	-2.000	20.000	56.800	3.500	0.000	66.4	(C 90, G IMax)	/
OAK LED Co. Ltd 1 OAK-FL-720W-Smart-40degree	6	50.000	67.000	20.000	39.059	46.600	0.000	40.8	(C 90, G IMax)	/
OAK LED Co. Ltd 1 OAK-FL-720W-Smart-40degree	6	50.000	67.000	20.000	43.200	61.500	0.000	66.4	(C 90, G IMax)	/
OAK LED Co. Ltd 1 OAK-FL-720W-Smart-40degree	6	50.000	67.000	20.000	60.941	46.600	0.000	40.8	(C 90, G IMax)	/
OAK LED Co. Ltd 1 OAK-FL-720W-Smart-40degree	6	50.000	67.000	20.000	56.800	61.500	0.000	66.4	(C 90, G IMax)	/
OAK LED Co. Ltd 1 OAK-FL-720W-Smart-40degree	1	-2.000	-2.000	20.000	2.300	16.600	0.000	46.3	(C 90, G IMax)	/
OAK LED Co. Ltd 1 OAK-FL-720W-Smart-40degree	1	-2.000	-2.000	20.000	4.100	5.100	0.000	64.9	(C 90, G IMax)	/
OAK LED Co. Ltd 1 OAK-FL-720W-Smart-40degree	1	-2.000	-2.000	20.000	18.130	3.417	0.000	43.8	(C 90, G IMax)	/
OAK LED Co. Ltd 1 OAK-FL-720W-Smart-40degree	2	102.000	-2.000	20.000	97.700	16.600	0.000	46.3	(C 90, G IMax)	/
OAK LED Co. Ltd 1 OAK-FL-720W-Smart-40degree	2	102.000	-2.000	20.000	95.900	5.100	0.000	64.9	(C 90, G IMax)	/
OAK LED Co. Ltd 1 OAK-FL-720W-Smart-40degree	2	102.000	-2.000	20.000	81.870	3.417	0.000	43.8	(C 90, G IMax)	/
OAK LED Co. Ltd 1 OAK-FL-720W-Smart-40degree	3	-2.000	67.000	20.000	2.300	48.400	0.000	46.3	(C 90, G IMax)	/
OAK LED Co. Ltd 1 OAK-FL-720W-Smart-40degree	3	-2.000	67.000	20.000	4.100	59.900	0.000	64.9	(C 90, G IMax)	/
OAK LED Co. Ltd 1 OAK-FL-720W-Smart-40degree	3	-2.000	67.000	20.000	18.130	61.583	0.000	43.8	(C 90, G IMax)	/
OAK LED Co. Ltd 1 OAK-FL-720W-Smart-40degree	4	102.000	67.000	20.000	97.700	48.400	0.000	46.3	(C 90, G IMax)	/
OAK LED Co. Ltd 1 OAK-FL-720W-Smart-40degree	4	102.000	67.000	20.000	95.900	59.900	0.000	64.9	(C 90, G IMax)	/
OAK LED Co. Ltd 1 OAK-FL-720W-Smart-40degree	4	102.000	67.000	20.000	81.870	61.583	0.000	43.8	(C 90, G IMax)	/



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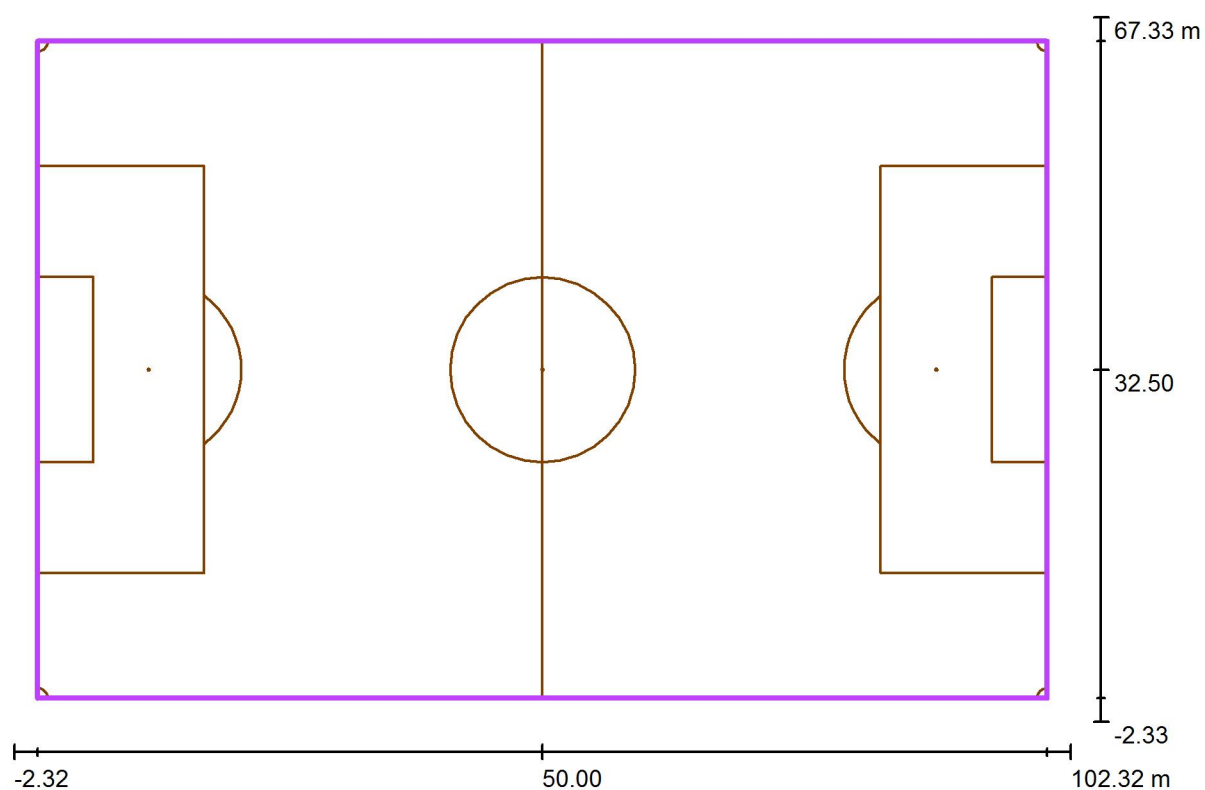
Exterior Scene 1 / 3D Rendering





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Exterior Scene 1 / Soccer Field 1 Calculation Grid (PA) / Summary



Scale 1 : 749

Position: (50.000 m, 32.500 m, 0.000 m)
Size: (100.000 m, 65.000 m)
Rotation: (0.0°, 0.0°, 0.0°)
Type: Normal, Grid: 19 x 13 Points
Belongs to the following sport arena: Soccer Field 1

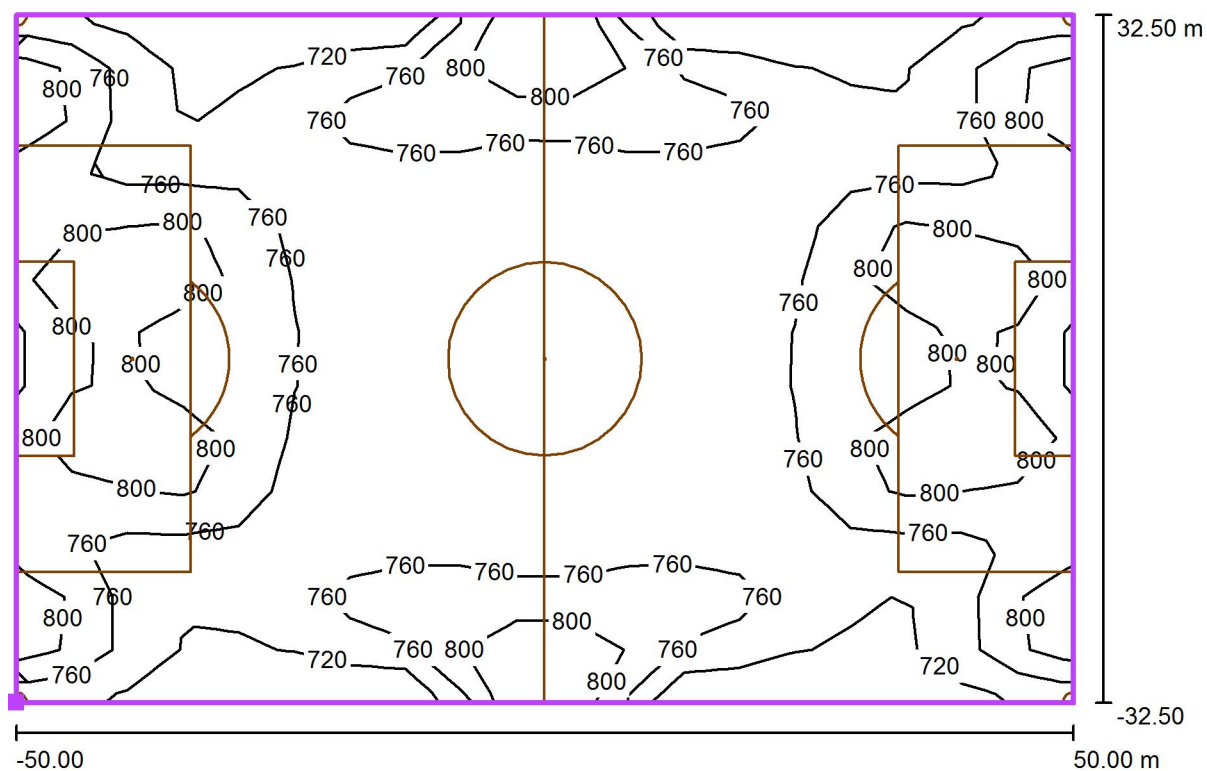
Results overview

No.	Type	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}	$E_{h\ m} / E_m$	H [m]	Camera
1	perpendicular	761	687	856	0.90	0.80	/	0.000	/

$E_{h\ m} / E_m$ = Relationship between middle horizontal and vertical illuminance, H = Measuring Height

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Exterior Scene 1 / Soccer Field 1 Calculation Grid (PA) / Isolines (E, Perpendicular)



Values in Lux, Scale 1 : 715

Position of surface in external scene:
Marked point: (0.000 m, 0.000 m,
0.000 m)



Grid: 19 x 13 Points

E_{av} [lx]
761

E_{min} [lx]
687

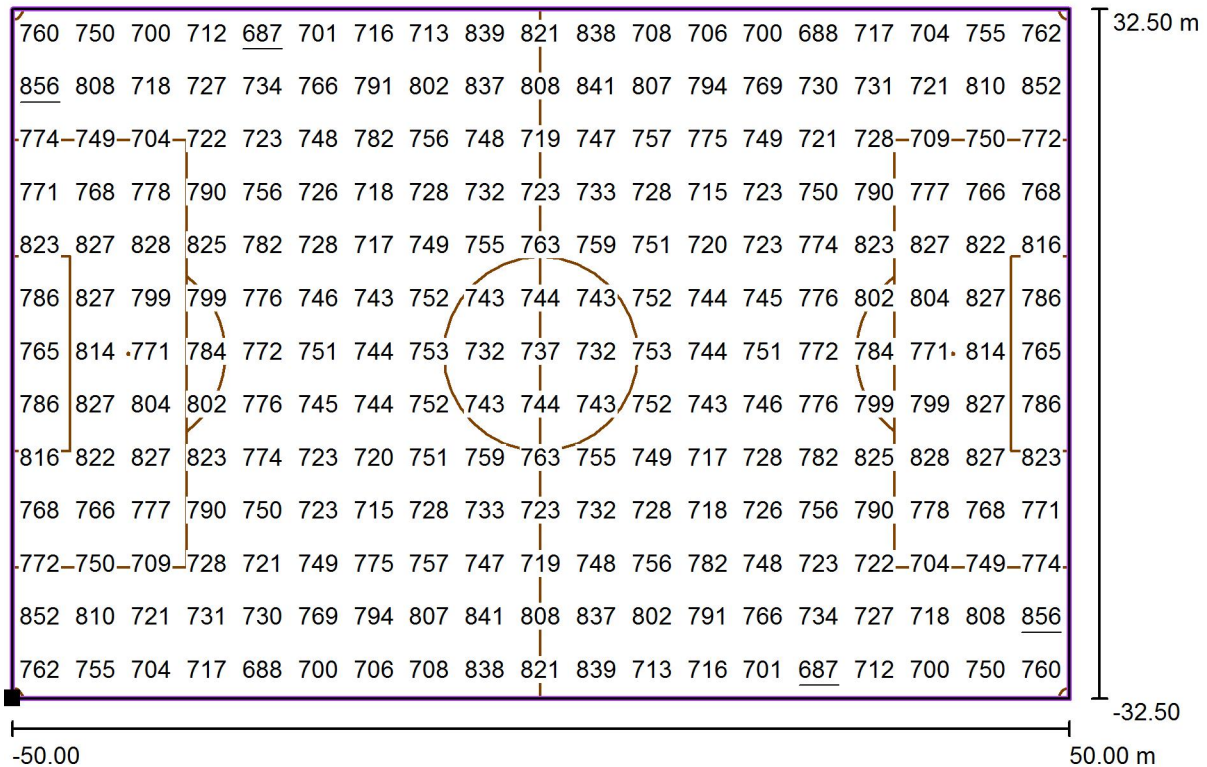
E_{max} [lx]
856

u_0
0.90

E_{min} / E_{max}
0.80

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Exterior Scene 1 / Soccer Field 1 Calculation Grid (PA) / Value Chart (E, Perpendicular)



Values in Lux, Scale 1 : 715

Position of surface in external scene:
Marked point: (0.000 m, 0.000 m, 0.000 m)



Grid: 19 x 13 Points

E_{av} [lx]
761

E_{min} [lx]
687

E_{max} [lx]
856

u_0
0.90

E_{min} / E_{max}
0.80