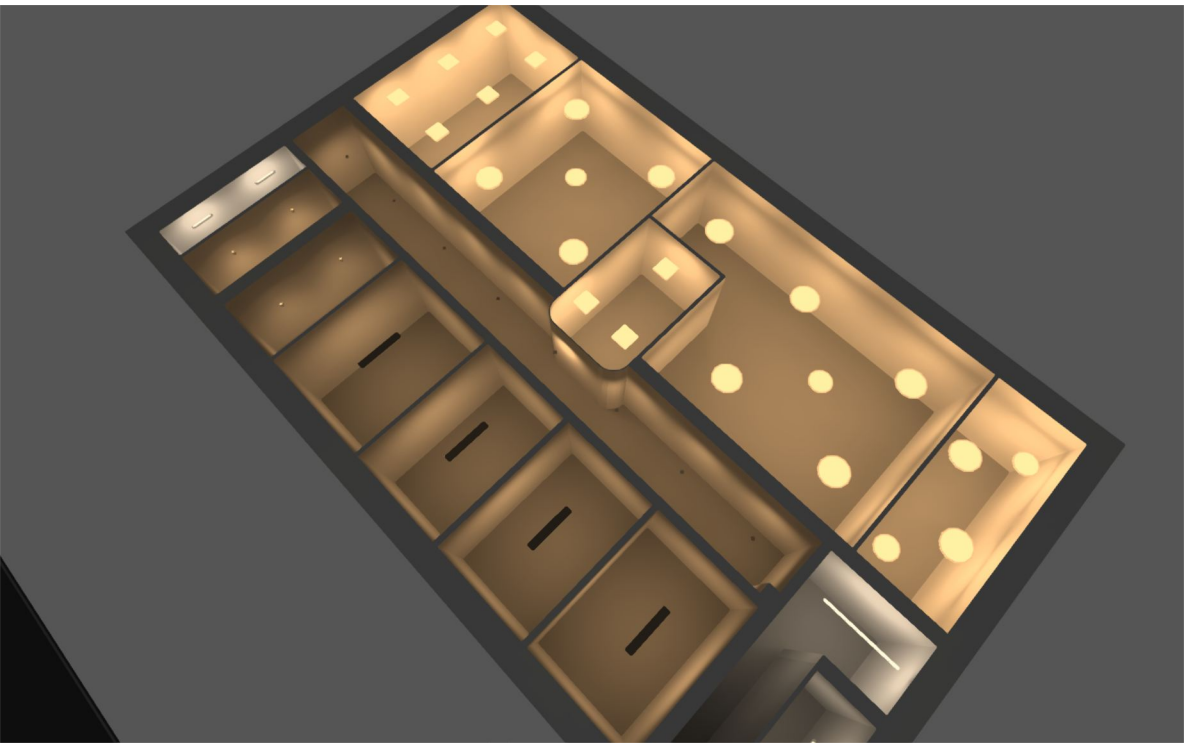
Date 10.04.2025



PUSAUDŽU NARKOLOĢISKĀS REHABILITĀCIJAS PROGRAMMAS ĒKA, Filozofa 69. Jelgava

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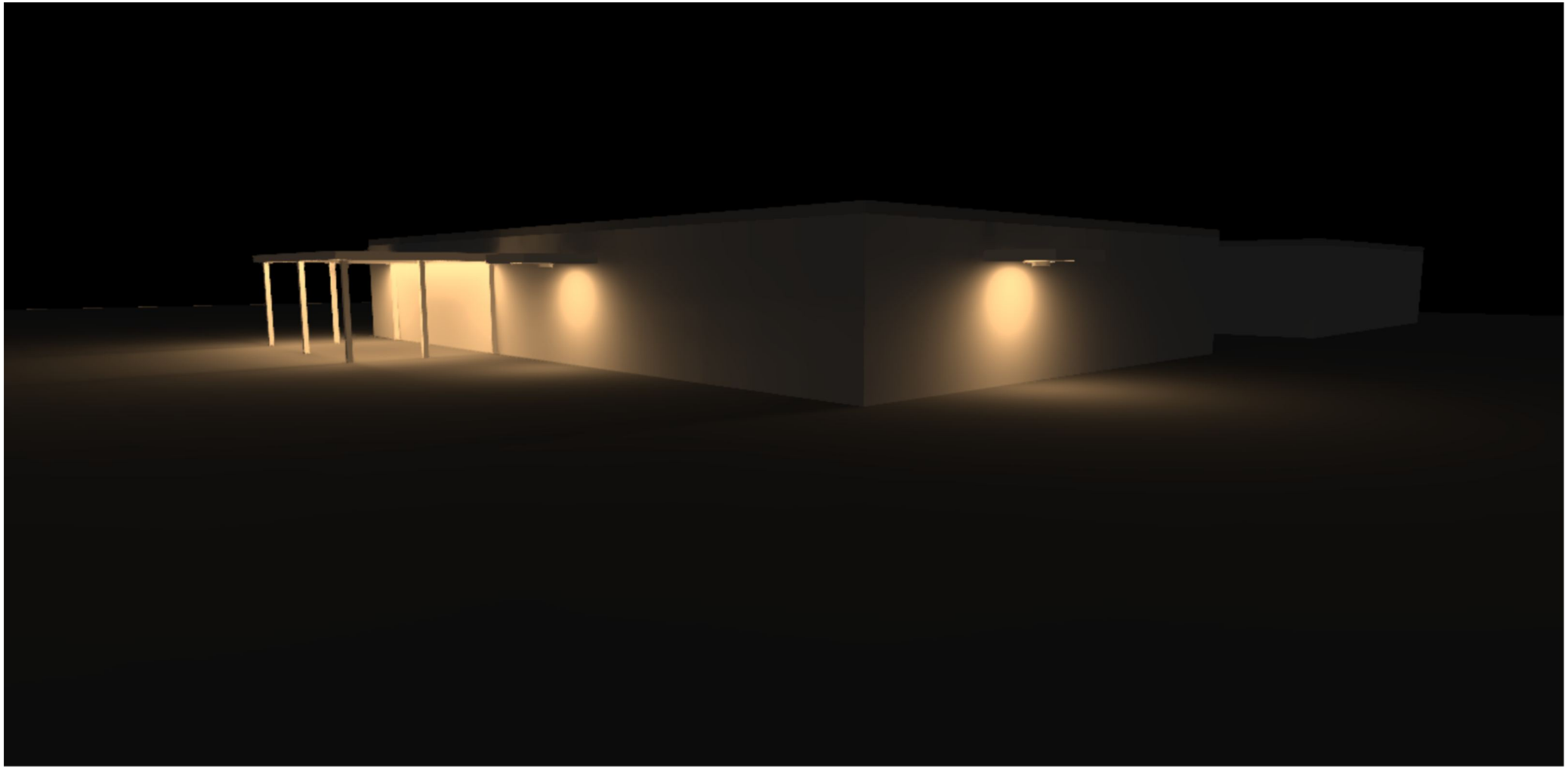
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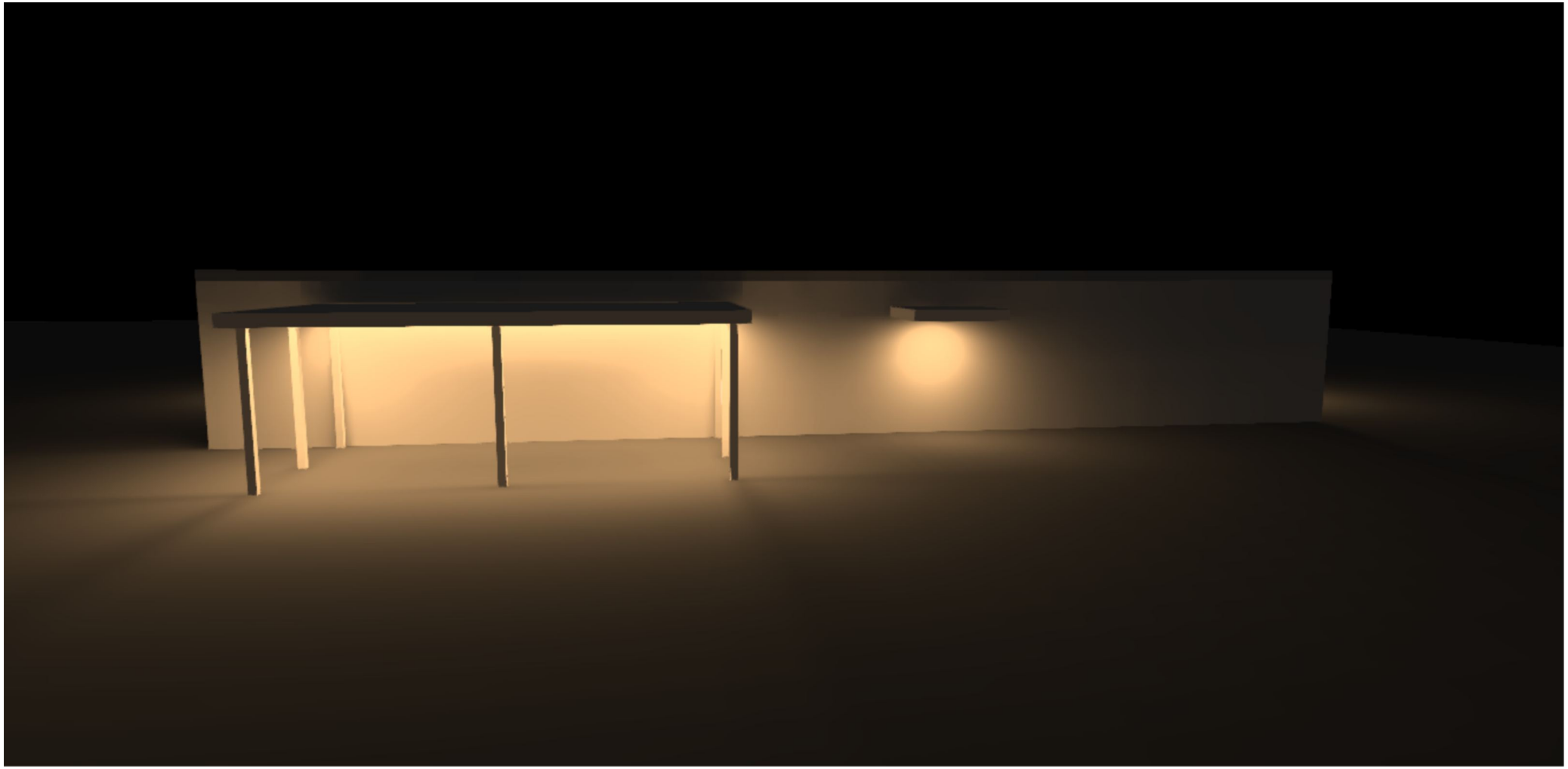
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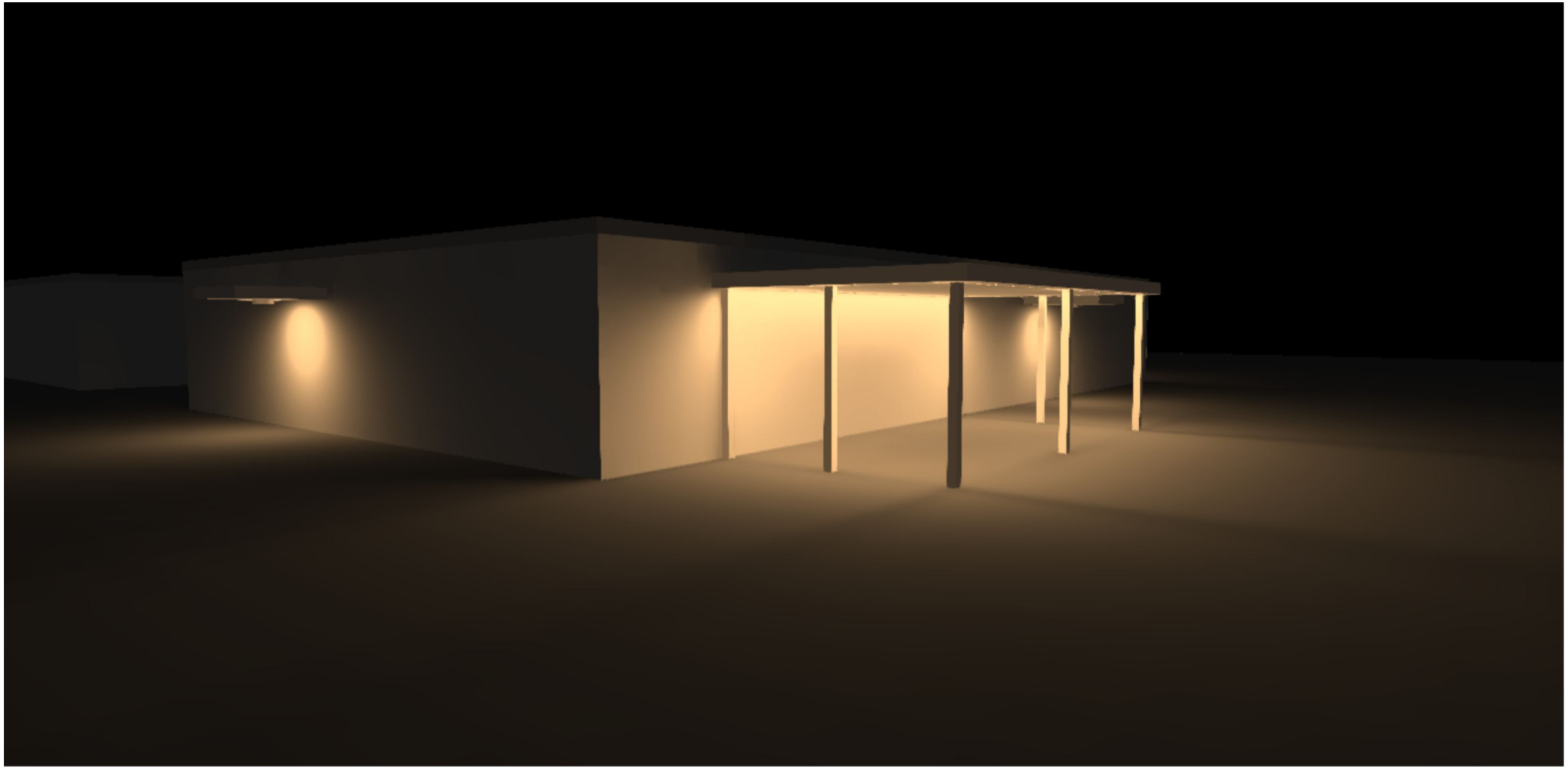
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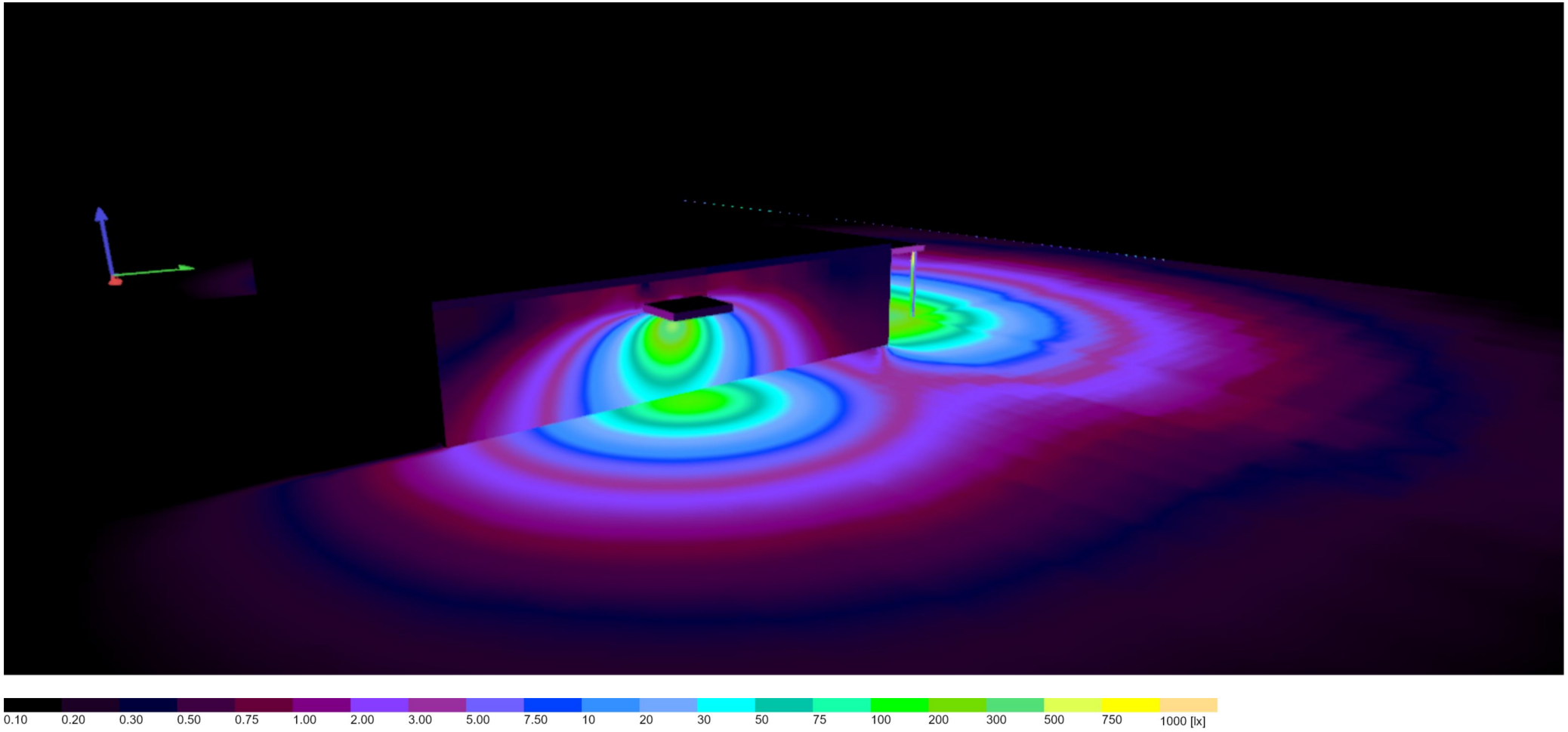
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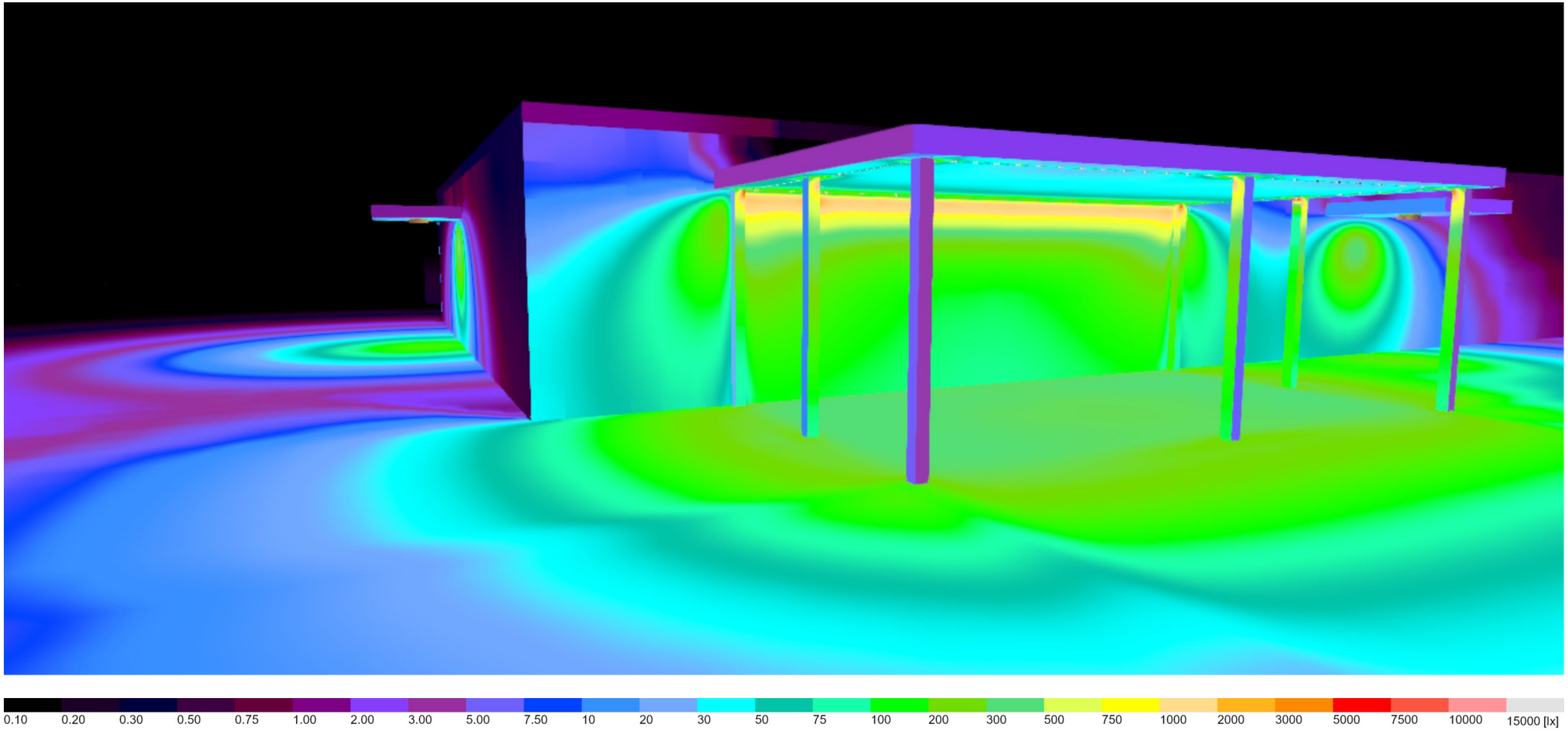
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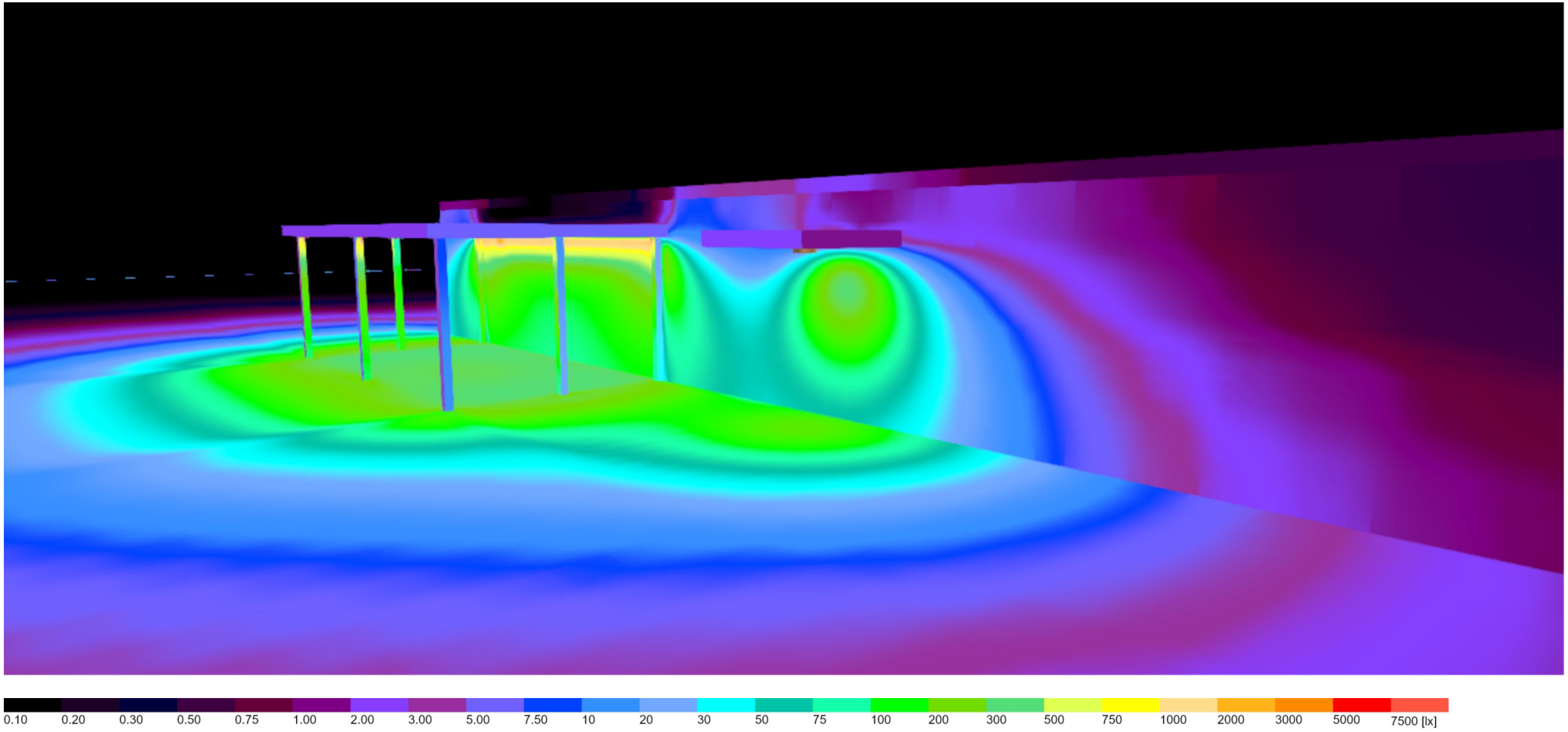
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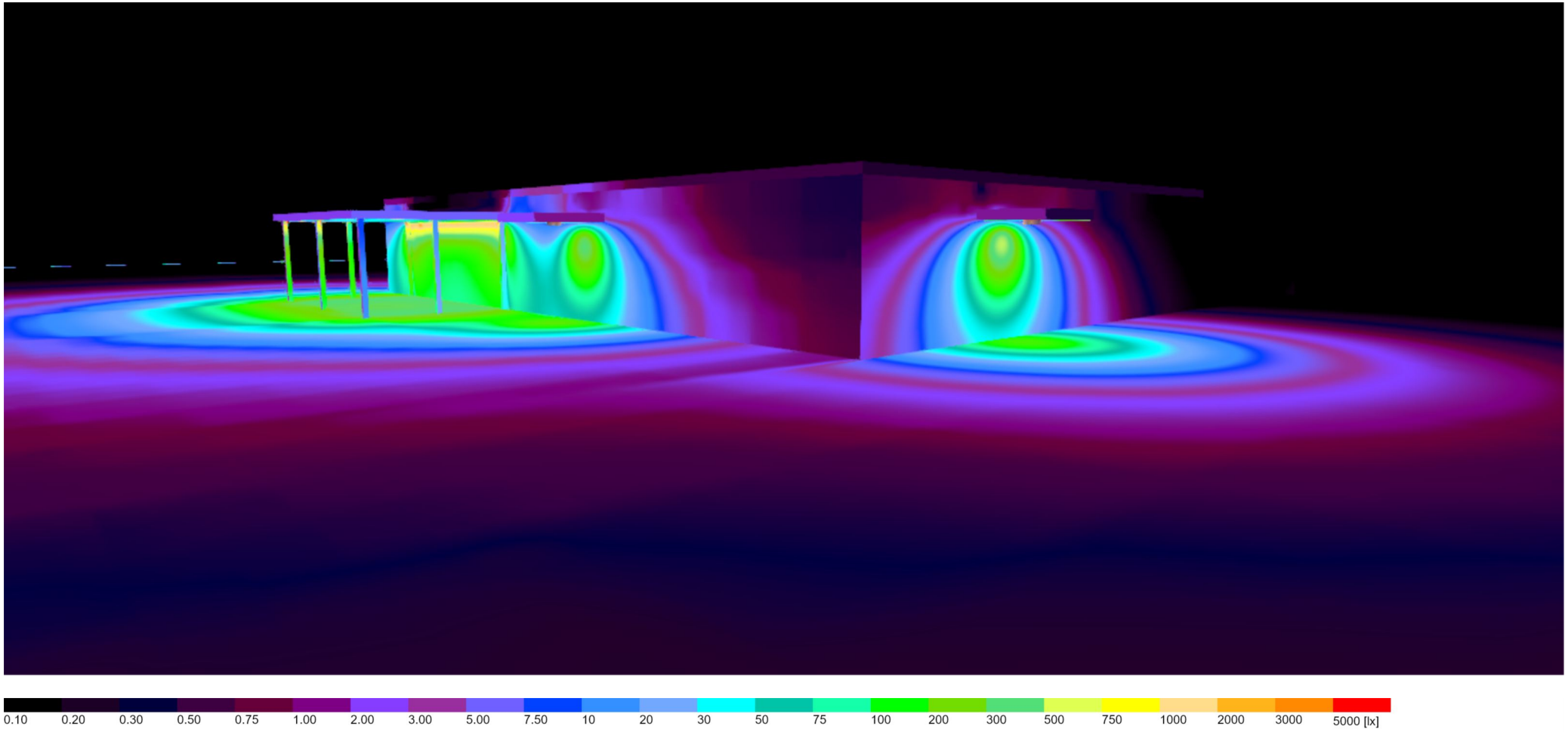
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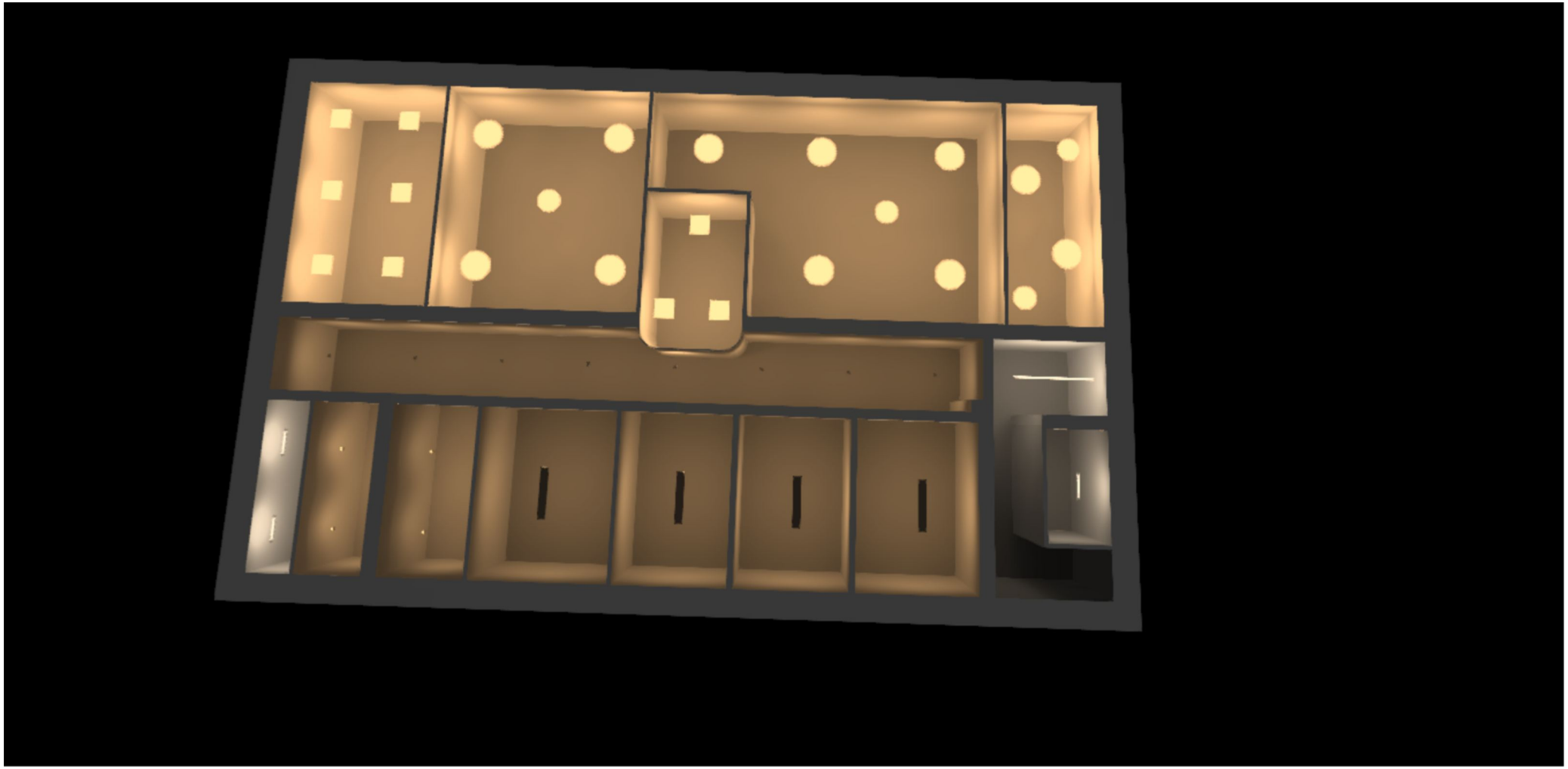
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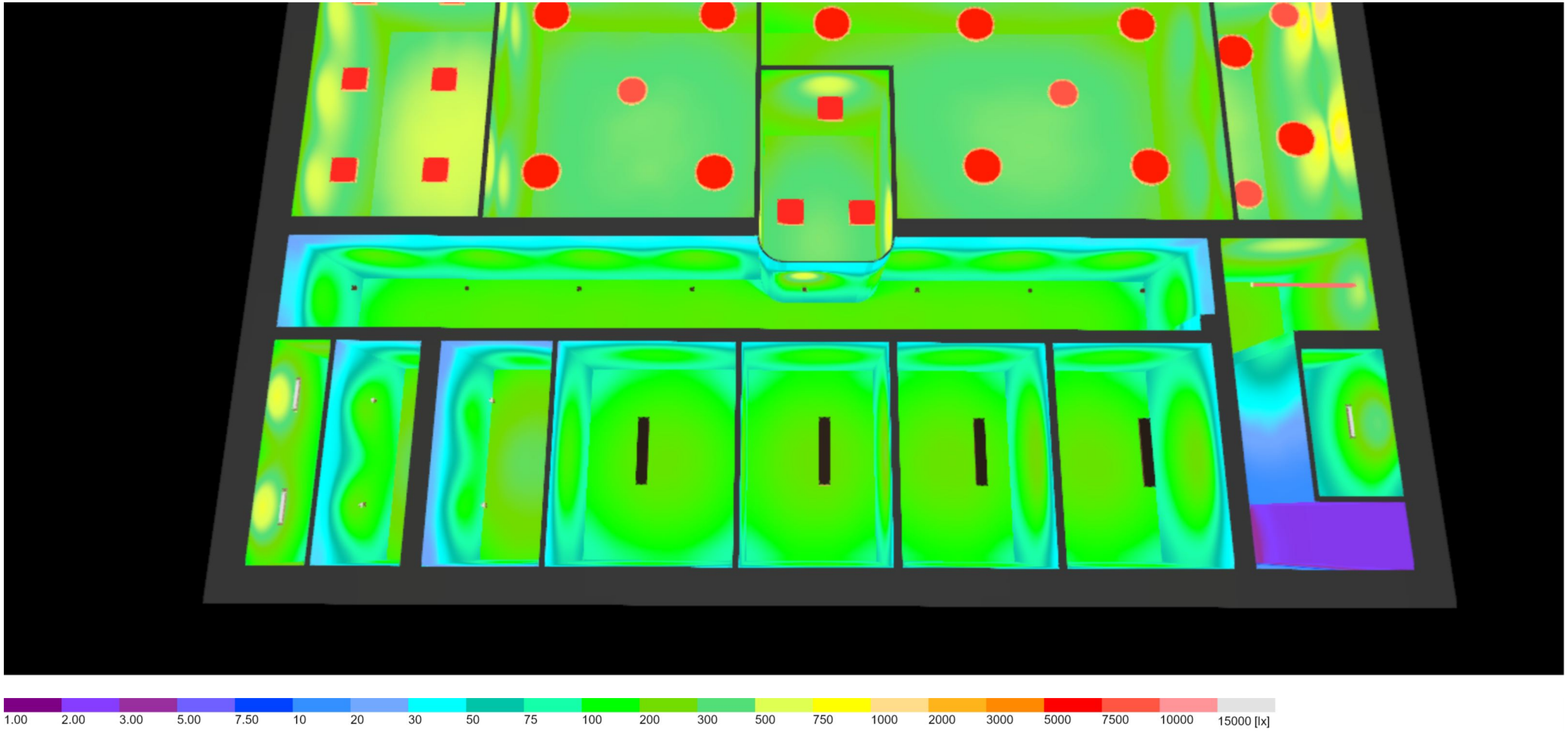
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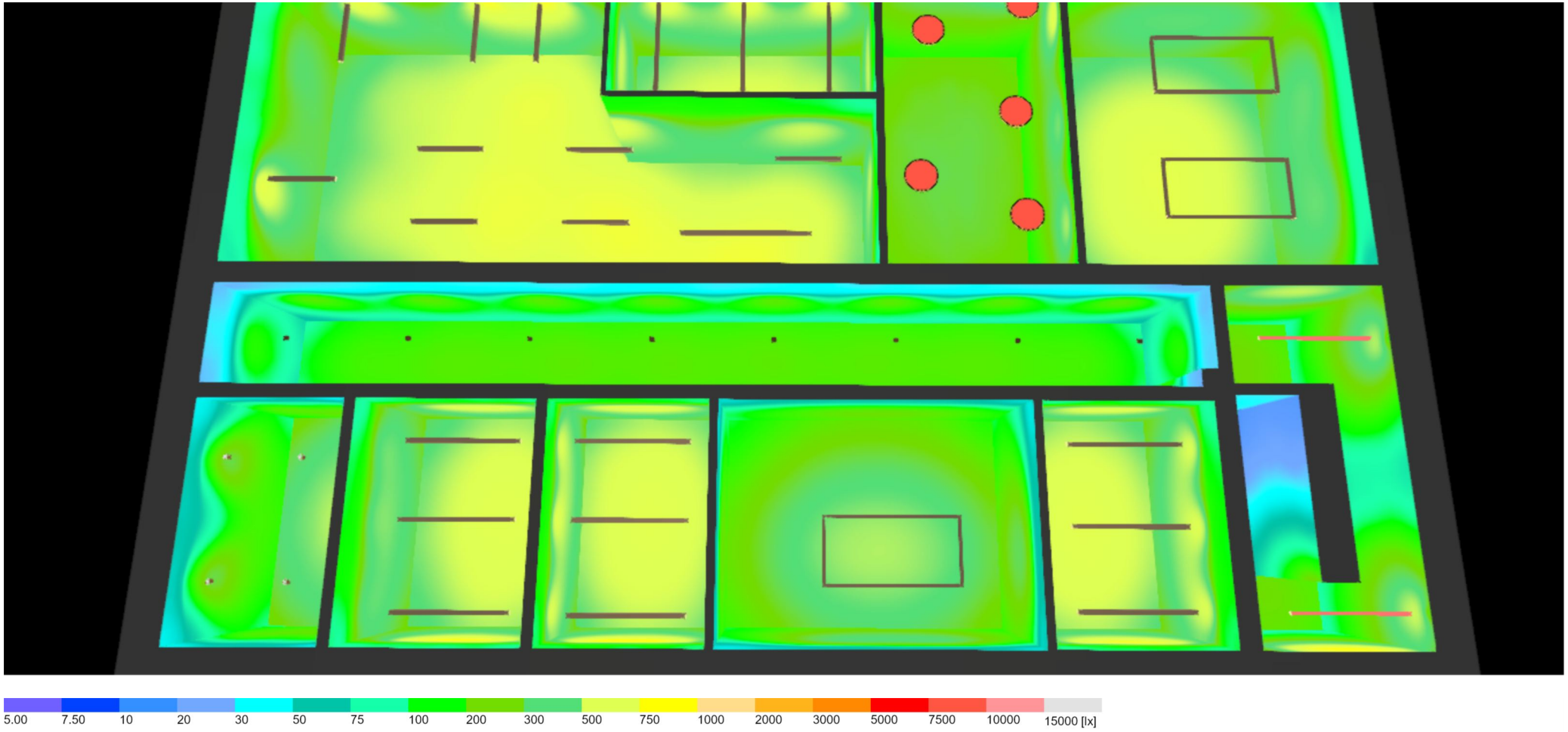
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Luminaire list

Φ_{total}	P_{total}	Luminous efficacy
364628 lm	3745.2 W	97.4 lm/W

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
9	LED LUKS	EC03S000060110	EOS C 650 SKY 930 WHITE-W	63.0 W	4744 lm	75.3 lm/W
11	LED LUKS	EC05S000060110	EOS C 825 SKY 930 WHITE-W	69.0 W	5228 lm	75.8 lm/W
3	LED LUKS	I500P4O4081L8010_22T00	ILO 50 P QUADRO 1190/2380 LP 940 OP FO WHITE PART 1-4	27.0 W	2732 lm	101.2 lm/W
3	LED LUKS	I500P4O4081L8010_22T00	ILO 50 P QUADRO 1190/2380 LP 940 OP FO WHITE PART 2-4	27.0 W	2732 lm	101.2 lm/W
3	LED LUKS	I500P4O4081L8010_22T00	ILO 50 P QUADRO 1190/2380 LP 940 OP FO WHITE PART 3-4	27.0 W	2732 lm	101.2 lm/W
3	LED LUKS	I500P4O4081L8010_22T00	ILO 50 P QUADRO 1190/2380 LP 940 OP FO WHITE PART 4-4	27.0 W	2732 lm	101.2 lm/W
3	LED LUKS	LE60P0O7000E80100000_22T00	LENE TUBE 60 P 1968 HE 940 OP FO WHITE	44.0 W	5098 lm	115.9 lm/W
9	LED LUKS	O800P0O4200O4010_22T00	ORA 80 P 1266 HO 840 OP FO WHITE	40.0 W	4209 lm	105.2 lm/W
12	LED LUKS	O800P0O7100E8010_22T00	ORA 80 P 2036 HE 940 OP FO WHITE	46.0 W	4486 lm	97.5 lm/W
1	LED LUKS	O800P0O8300O4010_22T00	ORA 80 P 2456 HO 840 OP FO WHITE	77.0 W	8182 lm	106.3 lm/W
22	LEDVANCE	4058075707573	LS P-1000/930/5	8.6 W	1030 lm	119.8 lm/W

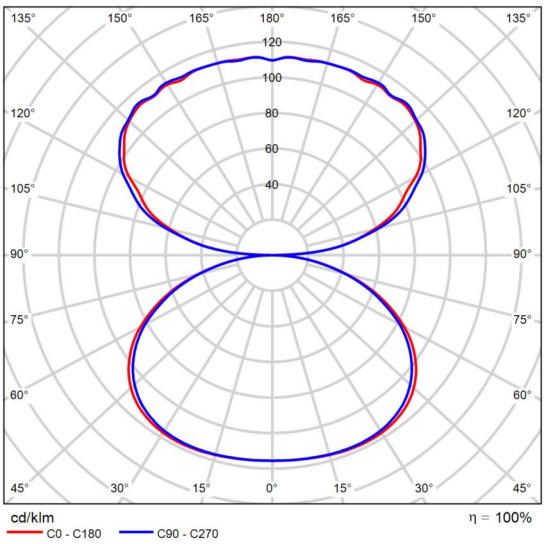
Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
3	LEDVANCE	40580757 40853	DP COMP 600 V 16W 840 IP66	16.0 W	1920 lm	120.0 lm/W
8	LEDVANCE	40580757 68963	DL SURFACE DN 90 P 15W 830 60D IP65 WT	15.0 W	1575 lm	105.0 lm/W
3	LEDVANCE	40998542 86247	BLKH RD SEN 300 P 18W CPS WT	18.0 W	2160 lm	120.0 lm/W
9	LEDVANCE	40998542 92675	SF FLAT SQ 500 P 27W CPS	27.0 W	3599 lm	133.3 lm/W
16	LEDVANCE	40998544 90842	DL CMFT D100 P 13W MS 940 OP WT	13.0 W	1300 lm	100.0 lm/W
4	LUXIONA	19.4204.34 21.34	PRISON LED 5200 PC E 34 IP65 830 / 1240X200MM	28.0 W	3940 lm	140.7 lm/W

Product data sheet

LED LUKS - EOS C 650 SKY 930 WHITE-W

Article No.	EC03S000060110
P	63.0 W
Φ_{Lamp}	4744 lm
$\Phi_{Luminaire}$	4744 lm
η	100.00 %
Luminous efficacy	75.3 lm/W
CCT	3000 K
CRI	90



Polar LDC

Glare evaluation according to RUG

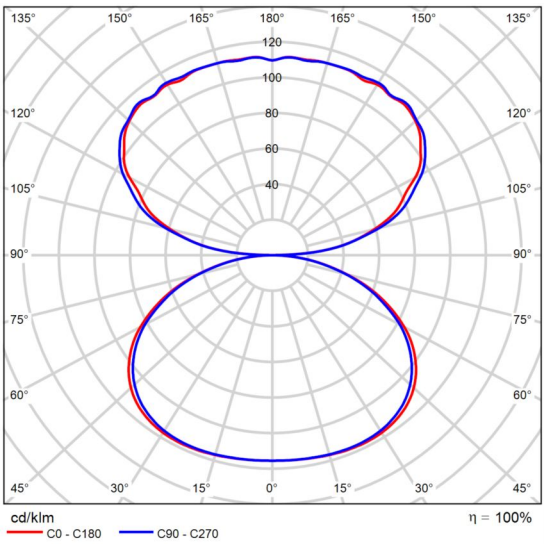
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ρ Walls		50	30	50	30	30	50	30	50	30	30
ρ Floor		20	20	20	20	20	20	20	20	20	20
Room size X	Y	Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	13.2	14.1	14.1	15.0	16.2	13.1	13.9	14.0	14.8	16.0
	3H	15.1	15.9	16.1	16.8	18.0	14.9	15.7	15.9	16.6	17.9
	4H	15.9	16.6	16.9	17.6	18.8	15.7	16.4	16.7	17.4	18.6
	6H	16.5	17.2	17.5	18.1	19.4	16.3	17.0	17.3	17.9	19.2
	8H	16.7	17.3	17.7	18.3	19.6	16.6	17.2	17.5	18.1	19.4
	12H	16.9	17.5	17.8	18.4	19.7	16.7	17.3	17.7	18.3	19.5
4H	2H	13.9	14.6	14.8	15.5	16.8	13.8	14.5	14.7	15.4	16.6
	3H	15.9	16.5	16.9	17.5	18.8	15.8	16.4	16.8	17.4	18.6
	4H	16.8	17.4	17.8	18.3	19.6	16.7	17.2	17.7	18.2	19.5
	6H	17.6	18.0	18.6	19.0	20.3	17.4	17.9	18.4	18.9	20.2
	8H	17.8	18.2	18.8	19.3	20.6	17.7	18.1	18.7	19.1	20.5
	12H	18.0	18.4	19.0	19.4	20.8	17.9	18.3	18.9	19.3	20.6
8H	4H	17.1	17.5	18.1	18.5	19.9	17.0	17.4	18.0	18.4	19.7
	6H	18.0	18.3	19.0	19.3	20.7	17.9	18.2	18.9	19.2	20.6
	8H	18.3	18.6	19.4	19.7	21.1	18.3	18.5	19.3	19.6	21.0
	12H	18.6	18.9	19.7	19.9	21.3	18.6	18.8	19.6	19.9	21.2
12H	4H	17.1	17.5	18.1	18.5	19.8	17.0	17.4	18.0	18.4	19.7
	6H	18.0	18.3	19.1	19.4	20.7	17.9	18.2	19.0	19.3	20.6
	8H	18.5	18.7	19.5	19.8	21.1	18.4	18.6	19.4	19.7	21.1
Variation of the observer position for the luminaire distances S											
S = 1.0H S = 1.5H S = 2.0H		+0.1 / -0.1 +0.2 / -0.2 +0.3 / -0.4					+0.1 / -0.1 +0.2 / -0.2 +0.3 / -0.5				
Standard table		BK07					BK07				
Correction summand		2.9					2.8				
Corrected glare indices referring to 4744lm Total luminous flux											

RUG diagram (SHR: 0.25)

Product data sheet

LED LUKS - EOS C 825 SKY 930 WHITE-W

Article No.	EC05S000060110
P	69.0 W
Φ_{Lamp}	5228 lm
$\Phi_{Luminaire}$	5228 lm
η	100.00 %
Luminous efficacy	75.8 lm/W
CCT	3000 K
CRI	90



Polar LDC

Glare evaluation according to RUG

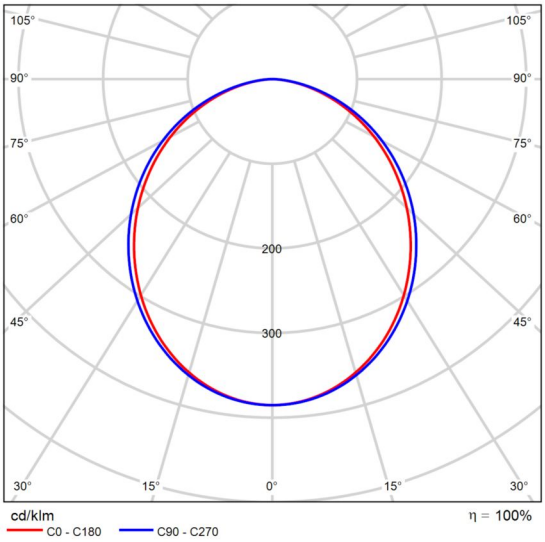
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ρ Walls		50	30	50	30	30	50	30	50	30	30
ρ Floor		20	20	20	20	20	20	20	20	20	20
Room size X	Y	Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	11.8	12.6	12.7	13.6	14.7	11.6	12.5	12.5	13.4	14.6
	3H	13.7	14.5	14.6	15.4	16.6	13.5	14.3	14.4	15.2	16.4
	4H	14.5	15.2	15.4	16.1	17.4	14.3	15.0	15.2	15.9	17.2
	6H	15.1	15.7	16.0	16.7	17.9	14.9	15.5	15.8	16.5	17.7
	8H	15.3	15.9	16.2	16.9	18.1	15.1	15.7	16.1	16.7	18.0
	12H	15.4	16.0	16.4	17.0	18.3	15.3	15.9	16.2	16.8	18.1
4H	2H	12.4	13.1	13.4	14.1	15.3	12.3	13.0	13.3	14.0	15.2
	3H	14.5	15.1	15.5	16.1	17.3	14.3	14.9	15.3	15.9	17.2
	4H	15.4	15.9	16.4	16.9	18.2	15.2	15.8	16.2	16.7	18.0
	6H	16.1	16.6	17.1	17.6	18.9	16.0	16.4	17.0	17.4	18.7
	8H	16.4	16.8	17.4	17.8	19.1	16.2	16.7	17.3	17.7	19.0
	12H	16.6	17.0	17.6	18.0	19.3	16.4	16.8	17.5	17.9	19.2
8H	4H	15.7	16.1	16.7	17.1	18.4	15.5	15.9	16.5	17.0	18.3
	6H	16.5	16.9	17.6	17.9	19.3	16.4	16.8	17.5	17.8	19.1
	8H	16.9	17.2	18.0	18.2	19.6	16.8	17.1	17.9	18.1	19.5
	12H	17.2	17.4	18.2	18.5	19.9	17.1	17.4	18.2	18.4	19.8
12H	4H	15.7	16.0	16.7	17.1	18.4	15.5	15.9	16.6	16.9	18.3
	6H	16.6	16.9	17.6	17.9	19.3	16.5	16.8	17.5	17.8	19.2
	8H	17.0	17.3	18.1	18.3	19.7	16.9	17.2	18.0	18.2	19.6
Variation of the observer position for the luminaire distances S											
S = 1.0H S = 1.5H S = 2.0H		+0.1 / -0.1 +0.2 / -0.2 +0.3 / -0.4					+0.1 / -0.1 +0.2 / -0.2 +0.3 / -0.5				
Standard table		BK07					BK07				
Correction summand		1.5					1.3				
Corrected glare indices referring to 5228lm Total luminous flux											

RUG diagram (SHR: 0.25)

Product data sheet

LED LUKS - ILO 50 P QUADRO 1190/2380 LP 940 OP FO WHITE PART 1-4

Article No.	I500P4O4081L8010_22T00
P	27.0 W
Φ_{Lamp}	2732 lm
$\Phi_{Luminaire}$	2732 lm
η	99.99 %
Luminous efficacy	101.2 lm/W
CCT	4000 K
CRI	90



Polar LDC

Glare evaluation according to RUG

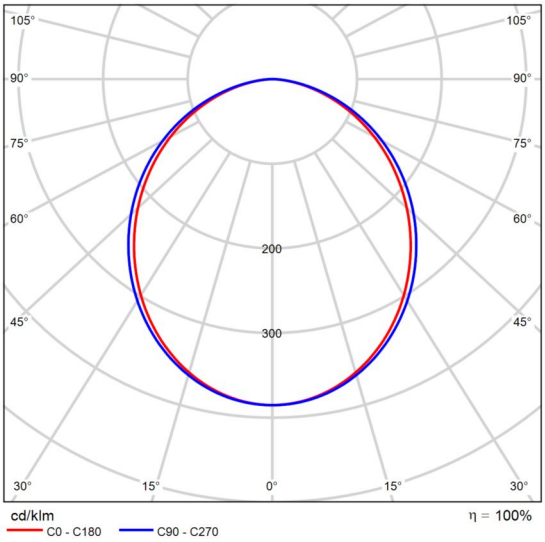
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ρ Floor		20	20	20	20	20	20	20	20	20	20
Room size X	Y	Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
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	3H	23.4	24.6	23.7	24.9	25.1	23.8	25.0	24.1	25.3	25.6
	4H	23.9	25.1	24.3	25.4	25.7	24.4	25.5	24.7	25.8	26.1
	6H	24.3	25.4	24.7	25.7	26.0	24.8	25.9	25.1	26.2	26.5
	8H	24.4	25.4	24.8	25.7	26.1	24.9	25.9	25.3	26.2	26.6
	12H	24.4	25.4	24.8	25.8	26.1	25.0	26.0	25.3	26.3	26.6
4H	2H	22.7	23.8	23.0	24.1	24.4	22.9	24.1	23.3	24.3	24.6
	3H	24.3	25.2	24.6	25.6	25.9	24.6	25.6	25.0	25.9	26.2
	4H	24.9	25.8	25.3	26.1	26.5	25.3	26.2	25.7	26.5	26.9
	6H	25.4	26.2	25.8	26.5	26.9	25.8	26.6	26.3	27.0	27.4
	8H	25.5	26.2	26.0	26.6	27.1	26.0	26.7	26.4	27.1	27.5
	12H	25.6	26.3	26.1	26.7	27.1	26.1	26.7	26.5	27.2	27.6
8H	4H	25.2	25.9	25.6	26.3	26.7	25.6	26.3	26.0	26.7	27.1
	6H	25.8	26.4	26.3	26.8	27.3	26.2	26.8	26.7	27.2	27.7
	8H	26.0	26.5	26.5	27.0	27.5	26.4	27.0	26.9	27.4	27.9
	12H	26.1	26.6	26.6	27.1	27.6	26.6	27.0	27.1	27.5	28.0
12H	4H	25.2	25.9	25.7	26.3	26.7	25.6	26.2	26.0	26.6	27.1
	6H	25.9	26.4	26.3	26.8	27.3	26.2	26.8	26.7	27.2	27.7
	8H	26.1	26.5	26.6	27.0	27.5	26.5	27.0	27.0	27.4	27.9
Variation of the observer position for the luminaire distances S											
S = 1.0H S = 1.5H S = 2.0H		+0.1 / -0.1 +0.2 / -0.4 +0.4 / -0.8					+0.1 / -0.1 +0.2 / -0.4 +0.4 / -0.7				
Standard table		BK05					BK05				
Correction summand		8.5					8.9				
Corrected glare indices referring to 2732lm Total luminous flux											

RUG diagram (SHR: 0.25)

Product data sheet

LED LUKS - ILO 50 P QUADRO 1190/2380 LP 940 OP FO WHITE PART 2-4

Article No.	I500P4O4081L8010_22T00
P	27.0 W
Φ_{Lamp}	2732 lm
$\Phi_{Luminaire}$	2732 lm
η	99.99 %
Luminous efficacy	101.2 lm/W
CCT	4000 K
CRI	90



Polar LDC

Glare evaluation according to RUG

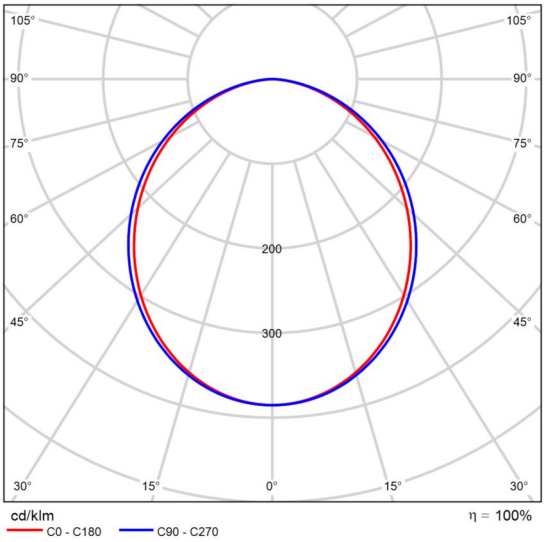
ρ Ceiling		70	70	50	50	30	70	70	50	50	30
ρ Walls		50	30	50	30	30	50	30	50	30	30
ρ Floor		20	20	20	20	20	20	20	20	20	20
Room size X	Y	Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	19.5	20.8	19.8	21.1	21.3	19.8	21.2	20.1	21.4	21.6
	3H	20.9	22.1	21.2	22.4	22.7	21.3	22.5	21.6	22.8	23.1
	4H	21.5	22.6	21.8	22.9	23.2	21.9	23.0	22.2	23.3	23.6
	6H	21.8	22.9	22.2	23.2	23.5	22.3	23.4	22.7	23.7	24.0
	8H	21.9	22.9	22.3	23.3	23.6	22.4	23.4	22.8	23.8	24.1
	12H	22.0	22.9	22.3	23.3	23.6	22.5	23.5	22.9	23.8	24.1
4H	2H	20.2	21.3	20.5	21.6	21.9	20.4	21.6	20.8	21.9	22.1
	3H	21.8	22.7	22.2	23.1	23.4	22.1	23.1	22.5	23.4	23.8
	4H	22.4	23.3	22.8	23.7	24.0	22.8	23.7	23.2	24.1	24.4
	6H	22.9	23.7	23.3	24.1	24.5	23.3	24.1	23.8	24.5	24.9
	8H	23.1	23.8	23.5	24.2	24.6	23.5	24.2	23.9	24.6	25.0
	12H	23.1	23.8	23.6	24.2	24.6	23.6	24.3	24.1	24.7	25.1
8H	4H	22.7	23.4	23.2	23.8	24.2	23.1	23.8	23.5	24.2	24.6
	6H	23.3	23.9	23.8	24.3	24.8	23.7	24.3	24.2	24.7	25.2
	8H	23.5	24.0	24.0	24.5	25.0	24.0	24.5	24.4	24.9	25.4
	12H	23.7	24.1	24.2	24.6	25.1	24.1	24.6	24.6	25.0	25.5
12H	4H	22.7	23.4	23.2	23.8	24.2	23.1	23.7	23.5	24.1	24.6
	6H	23.4	23.9	23.9	24.3	24.8	23.8	24.3	24.2	24.7	25.2
	8H	23.6	24.1	24.1	24.5	25.0	24.0	24.5	24.5	24.9	25.4
Variation of the observer position for the luminaire distances S											
S = 1.0H S = 1.5H S = 2.0H		+0.1 / -0.1 +0.2 / -0.4 +0.4 / -0.8					+0.1 / -0.1 +0.2 / -0.4 +0.4 / -0.7				
Standard table		BK05					BK05				
Correction summand		6.0					6.4				
Corrected glare indices referring to 2732lm Total luminous flux											

RUG diagram (SHR: 0.25)

Product data sheet

LED LUKS - ILO 50 P QUADRO 1190/2380 LP 940 OP FO WHITE PART 3-4

Article No.	I500P4O4081L8010_22T00
P	27.0 W
Φ_{Lamp}	2732 lm
$\Phi_{Luminaire}$	2732 lm
η	99.99 %
Luminous efficacy	101.2 lm/W
CCT	4000 K
CRI	90



Polar LDC

Glare evaluation according to RUG

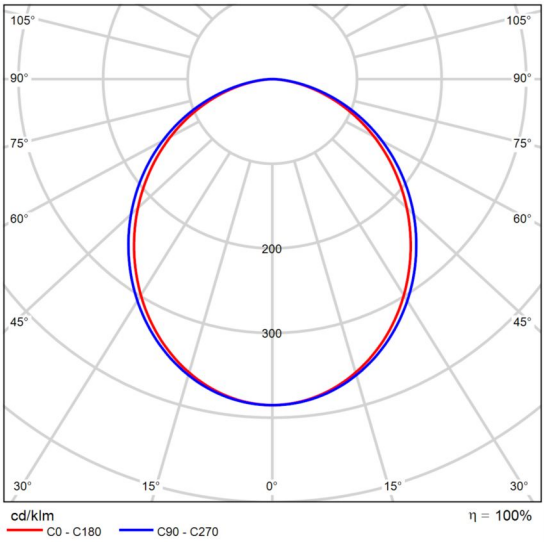
ρ Ceiling		70	70	50	50	30	70	70	50	50	30
ρ Walls		50	30	50	30	30	50	30	50	30	30
ρ Floor		20	20	20	20	20	20	20	20	20	20
Room size X	Y	Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	22.0	23.3	22.3	23.6	23.8	22.3	23.6	22.6	23.9	24.1
	3H	23.4	24.6	23.7	24.9	25.1	23.8	25.0	24.1	25.3	25.6
	4H	23.9	25.1	24.3	25.4	25.7	24.4	25.5	24.7	25.8	26.1
	6H	24.3	25.4	24.7	25.7	26.0	24.8	25.9	25.1	26.2	26.5
	8H	24.4	25.4	24.8	25.7	26.1	24.9	25.9	25.3	26.2	26.6
	12H	24.4	25.4	24.8	25.8	26.1	25.0	26.0	25.3	26.3	26.6
4H	2H	22.7	23.8	23.0	24.1	24.4	22.9	24.1	23.3	24.3	24.6
	3H	24.3	25.2	24.6	25.6	25.9	24.6	25.6	25.0	25.9	26.2
	4H	24.9	25.8	25.3	26.1	26.5	25.3	26.2	25.7	26.5	26.9
	6H	25.4	26.2	25.8	26.5	26.9	25.8	26.6	26.3	27.0	27.4
	8H	25.5	26.2	26.0	26.6	27.1	26.0	26.7	26.4	27.1	27.5
	12H	25.6	26.3	26.1	26.7	27.1	26.1	26.7	26.5	27.2	27.6
8H	4H	25.2	25.9	25.6	26.3	26.7	25.6	26.3	26.0	26.7	27.1
	6H	25.8	26.4	26.3	26.8	27.3	26.2	26.8	26.7	27.2	27.7
	8H	26.0	26.5	26.5	27.0	27.5	26.4	27.0	26.9	27.4	27.9
	12H	26.1	26.6	26.6	27.1	27.6	26.6	27.0	27.1	27.5	28.0
12H	4H	25.2	25.9	25.7	26.3	26.7	25.6	26.2	26.0	26.6	27.1
	6H	25.9	26.4	26.3	26.8	27.3	26.2	26.8	26.7	27.2	27.7
	8H	26.1	26.5	26.6	27.0	27.5	26.5	27.0	27.0	27.4	27.9
Variation of the observer position for the luminaire distances S											
S = 1.0H S = 1.5H S = 2.0H		+0.1 / -0.1 +0.2 / -0.4 +0.4 / -0.8					+0.1 / -0.1 +0.2 / -0.4 +0.4 / -0.7				
Standard table		BK05					BK05				
Correction summand		8.5					8.9				
Corrected glare indices referring to 2732lm Total luminous flux											

RUG diagram (SHR: 0.25)

Product data sheet

LED LUKS - ILO 50 P QUADRO 1190/2380 LP 940 OP FO WHITE PART 4-4

Article No.	I500P4O4081L8010_22T00
P	27.0 W
Φ_{Lamp}	2732 lm
$\Phi_{Luminaire}$	2732 lm
η	99.99 %
Luminous efficacy	101.2 lm/W
CCT	4000 K
CRI	90



Polar LDC

Glare evaluation according to RUG

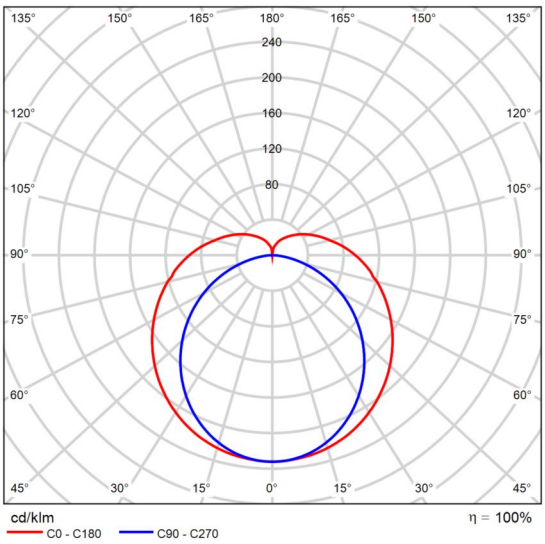
ρ Ceiling		70	70	50	50	30	70	70	50	50	30
ρ Walls		50	30	50	30	30	50	30	50	30	30
ρ Floor		20	20	20	20	20	20	20	20	20	20
Room size X	Y	Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	19.5	20.8	19.8	21.1	21.3	19.8	21.2	20.1	21.4	21.6
	3H	20.9	22.1	21.2	22.4	22.7	21.3	22.5	21.6	22.8	23.1
	4H	21.5	22.6	21.8	22.9	23.2	21.9	23.0	22.2	23.3	23.6
	6H	21.8	22.9	22.2	23.2	23.5	22.3	23.4	22.7	23.7	24.0
	8H	21.9	22.9	22.3	23.3	23.6	22.4	23.4	22.8	23.8	24.1
	12H	22.0	22.9	22.3	23.3	23.6	22.5	23.5	22.9	23.8	24.1
4H	2H	20.2	21.3	20.5	21.6	21.9	20.4	21.6	20.8	21.9	22.1
	3H	21.8	22.7	22.2	23.1	23.4	22.1	23.1	22.5	23.4	23.8
	4H	22.4	23.3	22.8	23.7	24.0	22.8	23.7	23.2	24.1	24.4
	6H	22.9	23.7	23.3	24.1	24.5	23.3	24.1	23.8	24.5	24.9
	8H	23.1	23.8	23.5	24.2	24.6	23.5	24.2	23.9	24.6	25.0
	12H	23.1	23.8	23.6	24.2	24.6	23.6	24.3	24.1	24.7	25.1
8H	4H	22.7	23.4	23.2	23.8	24.2	23.1	23.8	23.5	24.2	24.6
	6H	23.3	23.9	23.8	24.3	24.8	23.7	24.3	24.2	24.7	25.2
	8H	23.5	24.0	24.0	24.5	25.0	24.0	24.5	24.4	24.9	25.4
	12H	23.7	24.1	24.2	24.6	25.1	24.1	24.6	24.6	25.0	25.5
12H	4H	22.7	23.4	23.2	23.8	24.2	23.1	23.7	23.5	24.1	24.6
	6H	23.4	23.9	23.9	24.3	24.8	23.8	24.3	24.2	24.7	25.2
	8H	23.6	24.1	24.1	24.5	25.0	24.0	24.5	24.5	24.9	25.4
Variation of the observer position for the luminaire distances S											
S = 1.0H S = 1.5H S = 2.0H		+0.1 / -0.1 +0.2 / -0.4 +0.4 / -0.8					+0.1 / -0.1 +0.2 / -0.4 +0.4 / -0.7				
Standard table		BK05					BK05				
Correction summand		6.0					6.4				
Corrected glare indices referring to 2732lm Total luminous flux											

RUG diagram (SHR: 0.25)

Product data sheet

LED LUKS - LENE TUBE 60 P 1968 HE 940 OP FO WHITE

Article No.	LE60P0O7000E80100000_22T00
P	44.0 W
Φ_{Lamp}	5098 lm
$\Phi_{Luminaire}$	5098 lm
η	100.00 %
Luminous efficacy	115.9 lm/W
CCT	4000 K
CRI	90



Polar LDC

Glare evaluation according to RUG

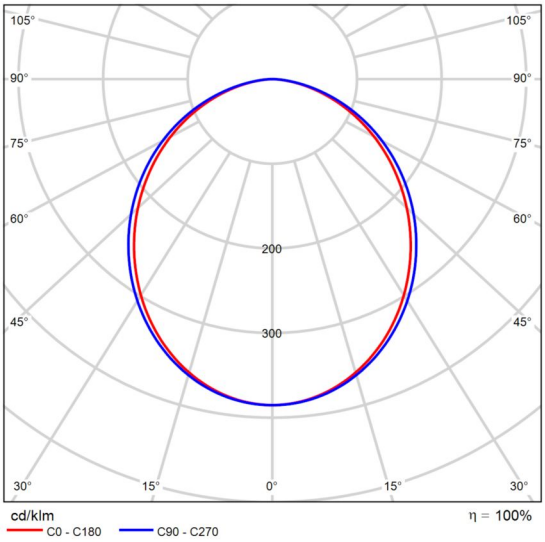
ρ Ceiling		70	70	50	50	30	70	70	50	50	30
ρ Walls		50	30	50	30	30	50	30	50	30	30
ρ Floor		20	20	20	20	20	20	20	20	20	20
Room size X	Y	Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	17.6	18.8	18.1	19.3	19.9	17.2	18.4	17.7	19.0	19.6
	3H	19.6	20.7	20.1	21.2	21.9	18.6	19.8	19.2	20.3	21.0
	4H	20.6	21.6	21.1	22.2	22.8	19.2	20.3	19.8	20.8	21.5
	6H	21.5	22.5	22.1	23.1	23.8	19.6	20.6	20.2	21.2	21.9
	8H	22.0	22.9	22.6	23.5	24.2	19.7	20.7	20.3	21.3	22.0
	12H	22.4	23.4	23.0	24.0	24.7	19.8	20.7	20.4	21.3	22.0
4H	2H	18.2	19.2	18.7	19.8	20.4	17.9	18.9	18.4	19.5	20.1
	3H	20.4	21.3	21.0	21.9	22.6	19.5	20.4	20.1	21.0	21.7
	4H	21.5	22.4	22.2	23.0	23.7	20.2	21.0	20.9	21.7	22.4
	6H	22.7	23.4	23.4	24.1	24.9	20.7	21.5	21.4	22.1	22.9
	8H	23.3	23.9	23.9	24.6	25.4	20.9	21.6	21.6	22.3	23.1
	12H	23.8	24.4	24.5	25.1	25.9	21.0	21.7	21.7	22.4	23.1
8H	4H	21.8	22.5	22.5	23.2	24.0	20.7	21.4	21.4	22.1	22.8
	6H	23.2	23.8	23.9	24.5	25.3	21.5	22.1	22.2	22.8	23.6
	8H	24.0	24.5	24.7	25.2	26.0	21.8	22.3	22.5	23.0	23.8
	12H	24.7	25.1	25.4	25.9	26.7	22.0	22.5	22.7	23.2	24.0
12H	4H	21.9	22.5	22.5	23.2	24.0	20.8	21.5	21.5	22.1	22.9
	6H	23.3	23.8	24.0	24.6	25.4	21.7	22.2	22.4	22.9	23.8
	8H	24.1	24.6	24.9	25.3	26.2	22.1	22.5	22.8	23.3	24.1
Variation of the observer position for the luminaire distances S											
S = 1.0H S = 1.5H S = 2.0H		+0.1 / -0.1 +0.2 / -0.2 +0.3 / -0.4					+0.1 / -0.1 +0.1 / -0.2 +0.4 / -0.5				
Standard table		BK09					BK06				
Correction summand		8.2					5.2				
Corrected glare indices referring to 5098lm Total luminous flux											

RUG diagram (SHR: 0.25)

Product data sheet

LED LUKS - ORA 80 P 1266 HO 840 OP FO WHITE

Article No.	O800P0O4200O4010 _22T00
P	40.0 W
Φ_{Lamp}	4209 lm
$\Phi_{Luminaire}$	4209 lm
η	99.99 %
Luminous efficacy	105.2 lm/W
CCT	4000 K
CRI	80



Polar LDC

Glare evaluation according to RUG

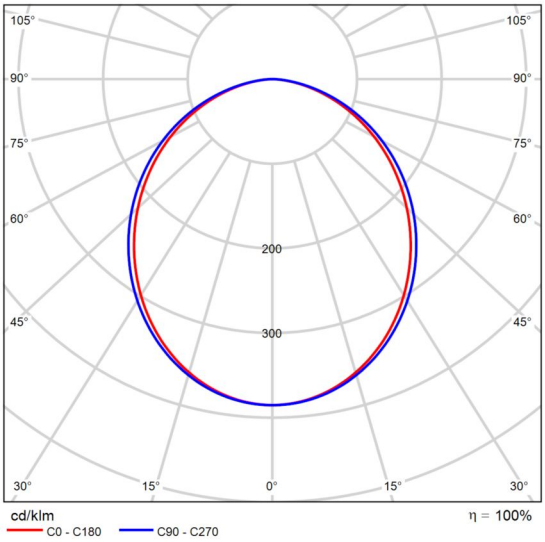
ρ Ceiling		70	70	50	50	30	70	70	50	50	30
ρ Walls		50	30	50	30	30	50	30	50	30	30
ρ Floor		20	20	20	20	20	20	20	20	20	20
Room size X	Y	Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	24.4	25.7	24.7	26.0	26.2	24.7	26.1	25.0	26.3	26.5
	3H	25.8	27.0	26.1	27.3	27.6	26.2	27.4	26.5	27.7	28.0
	4H	26.3	27.5	26.7	27.8	28.1	26.8	27.9	27.1	28.2	28.5
	6H	26.7	27.8	27.1	28.1	28.4	27.2	28.3	27.6	28.6	28.9
	8H	26.8	27.8	27.2	28.1	28.5	27.3	28.3	27.7	28.7	29.0
	12H	26.8	27.8	27.2	28.2	28.5	27.4	28.4	27.7	28.7	29.0
4H	2H	25.1	26.2	25.4	26.5	26.8	25.3	26.5	25.7	26.7	27.0
	3H	26.7	27.6	27.0	28.0	28.3	27.0	28.0	27.4	28.3	28.6
	4H	27.3	28.2	27.7	28.6	28.9	27.7	28.6	28.1	28.9	29.3
	6H	27.8	28.6	28.2	29.0	29.3	28.2	29.0	28.7	29.4	29.8
	8H	27.9	28.7	28.4	29.1	29.5	28.4	29.1	28.8	29.5	29.9
	12H	28.0	28.7	28.5	29.1	29.5	28.5	29.2	28.9	29.6	30.0
8H	4H	27.6	28.3	28.0	28.7	29.1	28.0	28.7	28.4	29.1	29.5
	6H	28.2	28.8	28.7	29.2	29.7	28.6	29.2	29.1	29.6	30.1
	8H	28.4	28.9	28.9	29.4	29.9	28.8	29.4	29.3	29.8	30.3
	12H	28.6	29.0	29.0	29.5	30.0	29.0	29.4	29.5	29.9	30.4
12H	4H	27.6	28.3	28.1	28.7	29.1	28.0	28.6	28.4	29.0	29.5
	6H	28.3	28.8	28.7	29.2	29.7	28.7	29.2	29.1	29.6	30.1
	8H	28.5	29.0	29.0	29.4	29.9	28.9	29.4	29.4	29.8	30.3
Variation of the observer position for the luminaire distances S											
S = 1.0H S = 1.5H S = 2.0H		+0.1 / -0.1 +0.2 / -0.4 +0.4 / -0.8					+0.1 / -0.1 +0.2 / -0.4 +0.4 / -0.7				
Standard table		BK05					BK05				
Correction summand		10.9					11.3				
Corrected glare indices referring to 4209lm Total luminous flux											

RUG diagram (SHR: 0.25)

Product data sheet

LED LUKS - ORA 80 P 2036 HE 940 OP FO WHITE

Article No.	O800P0O7100E8010 _22T00
P	46.0 W
Φ_{Lamp}	4486 lm
$\Phi_{Luminaire}$	4486 lm
η	99.99 %
Luminous efficacy	97.5 lm/W
CCT	4000 K
CRI	90



Polar LDC

Glare evaluation according to RUG

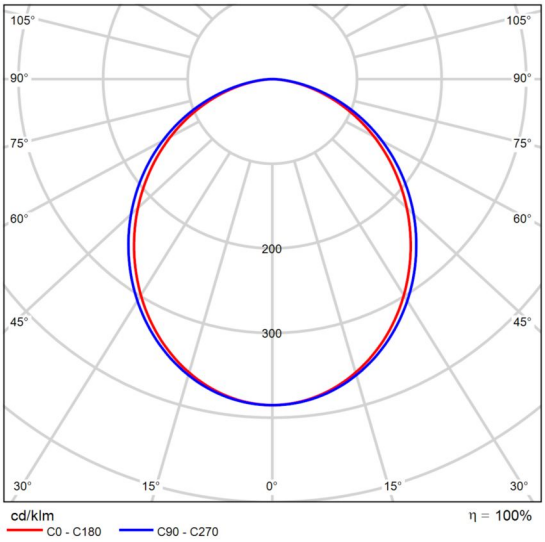
ρ Ceiling		70	70	50	50	30	70	70	50	50	30
ρ Walls		50	30	50	30	30	50	30	50	30	30
ρ Floor		20	20	20	20	20	20	20	20	20	20
Room size X	Y	Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	23.0	24.3	23.3	24.5	24.8	23.3	24.6	23.6	24.9	25.1
	3H	24.4	25.6	24.7	25.8	26.1	24.8	26.0	25.1	26.3	26.5
	4H	24.9	26.1	25.3	26.3	26.6	25.4	26.5	25.7	26.8	27.1
	6H	25.3	26.3	25.6	26.6	27.0	25.8	26.8	26.1	27.1	27.4
	8H	25.4	26.4	25.7	26.7	27.0	25.9	26.9	26.2	27.2	27.5
	12H	25.4	26.4	25.8	26.7	27.1	25.9	26.9	26.3	27.2	27.6
4H	2H	23.6	24.8	24.0	25.1	25.4	23.9	25.0	24.2	25.3	25.6
	3H	25.2	26.2	25.6	26.5	26.9	25.6	26.6	26.0	26.9	27.2
	4H	25.9	26.8	26.3	27.1	27.5	26.3	27.2	26.7	27.5	27.9
	6H	26.4	27.1	26.8	27.5	27.9	26.8	27.6	27.2	28.0	28.4
	8H	26.5	27.2	26.9	27.6	28.0	27.0	27.7	27.4	28.1	28.5
	12H	26.6	27.2	27.0	27.6	28.1	27.1	27.7	27.5	28.1	28.6
8H	4H	26.2	26.9	26.6	27.3	27.7	26.5	27.2	27.0	27.6	28.1
	6H	26.8	27.4	27.2	27.8	28.3	27.2	27.8	27.6	28.2	28.6
	8H	27.0	27.5	27.5	28.0	28.4	27.4	27.9	27.9	28.4	28.9
	12H	27.1	27.6	27.6	28.0	28.5	27.6	28.0	28.1	28.5	29.0
12H	4H	26.2	26.9	26.6	27.3	27.7	26.5	27.2	27.0	27.6	28.0
	6H	26.8	27.4	27.3	27.8	28.3	27.2	27.7	27.7	28.2	28.7
	8H	27.1	27.5	27.6	28.0	28.5	27.5	27.9	28.0	28.4	28.9
Variation of the observer position for the luminaire distances S											
S = 1.0H S = 1.5H S = 2.0H		+0.1 / -0.1 +0.2 / -0.4 +0.4 / -0.8					+0.1 / -0.1 +0.2 / -0.4 +0.4 / -0.7				
Standard table		BK05					BK05				
Correction summand		9.5					9.9				
Corrected glare indices referring to 4486lm Total luminous flux											

RUG diagram (SHR: 0.25)

Product data sheet

LED LUKS - ORA 80 P 2456 HO 840 OP FO WHITE

Article No.	O800P0O8300O4010 _22T00
P	77.0 W
Φ_{Lamp}	8183 lm
$\Phi_{Luminaire}$	8182 lm
η	99.99 %
Luminous efficacy	106.3 lm/W
CCT	4000 K
CRI	80



Polar LDC

Glare evaluation according to RUG

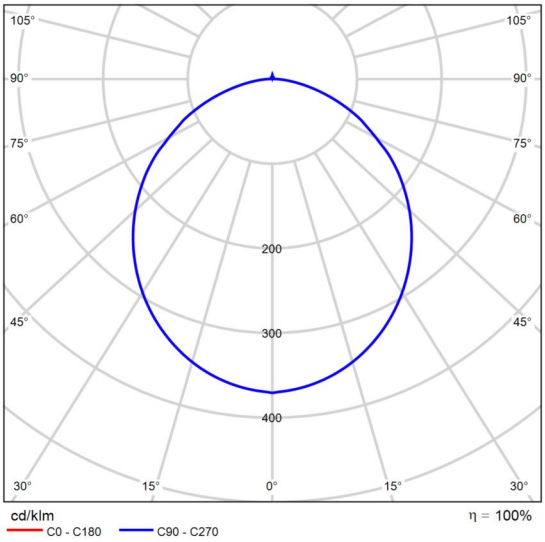
ρ Ceiling		70	70	50	50	30	70	70	50	50	30
ρ Walls		50	30	50	30	30	50	30	50	30	30
ρ Floor		20	20	20	20	20	20	20	20	20	20
Room size X	Y	Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	24.4	25.7	24.7	26.0	26.2	24.7	26.1	25.0	26.3	26.5
	3H	25.8	27.0	26.1	27.3	27.6	26.2	27.4	26.5	27.7	28.0
	4H	26.3	27.5	26.7	27.8	28.1	26.8	27.9	27.1	28.2	28.5
	6H	26.7	27.8	27.1	28.1	28.4	27.2	28.3	27.6	28.6	28.9
	8H	26.8	27.8	27.2	28.2	28.5	27.3	28.3	27.7	28.7	29.0
	12H	26.8	27.8	27.2	28.2	28.5	27.4	28.4	27.7	28.7	29.0
4H	2H	25.1	26.2	25.4	26.5	26.8	25.3	26.5	25.7	26.7	27.0
	3H	26.7	27.6	27.1	28.0	28.3	27.0	28.0	27.4	28.3	28.6
	4H	27.3	28.2	27.7	28.6	28.9	27.7	28.6	28.1	28.9	29.3
	6H	27.8	28.6	28.2	29.0	29.4	28.2	29.0	28.7	29.4	29.8
	8H	27.9	28.7	28.4	29.1	29.5	28.4	29.1	28.8	29.5	29.9
	12H	28.0	28.7	28.5	29.1	29.5	28.5	29.2	28.9	29.6	30.0
8H	4H	27.6	28.3	28.1	28.7	29.1	28.0	28.7	28.4	29.1	29.5
	6H	28.2	28.8	28.7	29.2	29.7	28.6	29.2	29.1	29.6	30.1
	8H	28.4	28.9	28.9	29.4	29.9	28.8	29.4	29.3	29.8	30.3
	12H	28.6	29.0	29.0	29.5	30.0	29.0	29.4	29.5	29.9	30.4
12H	4H	27.6	28.3	28.1	28.7	29.1	28.0	28.6	28.4	29.0	29.5
	6H	28.3	28.8	28.8	29.2	29.7	28.7	29.2	29.1	29.6	30.1
	8H	28.5	29.0	29.0	29.4	29.9	28.9	29.4	29.4	29.8	30.3
Variation of the observer position for the luminaire distances S											
S = 1.0H S = 1.5H S = 2.0H		+0.1 / -0.1 +0.2 / -0.4 +0.4 / -0.8					+0.1 / -0.1 +0.2 / -0.4 +0.4 / -0.7				
Standard table		BK05					BK05				
Correction summand		10.9					11.3				
Corrected glare indices referring to 8183lm Total luminous flux											

RUG diagram (SHR: 0.25)

Product data sheet

LEDVANCE - BLKH RD SEN 300 P 18W CPS WT

Article No.	4099854286247
P	18.0 W
Φ_{Lamp}	2160 lm
$\Phi_{Luminaire}$	2160 lm
η	100.00 %
Luminous efficacy	120.0 lm/W
CCT	3000 K
CRI	80



Polar LDC

Glare evaluation according to RUG

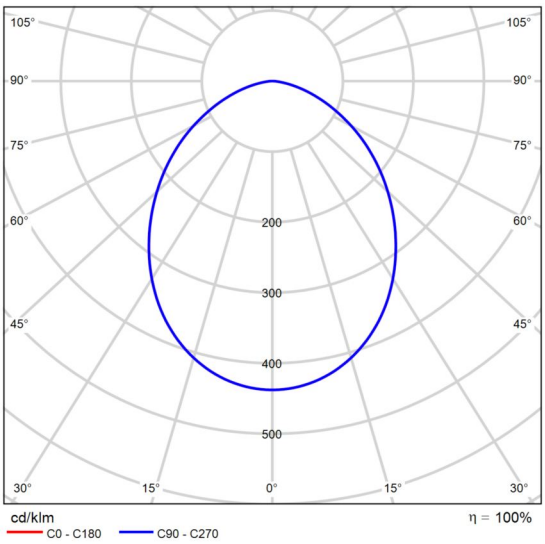
ρ Ceiling		70	70	50	50	30	70	70	50	50	30
ρ Walls		50	30	50	30	30	50	30	50	30	30
ρ Floor		20	20	20	20	20	20	20	20	20	20
Room size X	Y	Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	19.4	20.7	19.7	21.0	21.2	19.4	20.7	19.7	21.0	21.2
	3H	20.6	21.8	20.9	22.1	22.4	20.6	21.8	20.9	22.1	22.4
	4H	21.0	22.1	21.3	22.4	22.7	21.0	22.1	21.3	22.4	22.7
	6H	21.2	22.3	21.6	22.6	22.9	21.2	22.3	21.6	22.6	22.9
	8H	21.3	22.3	21.7	22.6	23.0	21.3	22.3	21.7	22.6	23.0
	12H	21.3	22.3	21.7	22.6	23.0	21.3	22.3	21.7	22.6	23.0
4H	2H	19.9	21.1	20.3	21.4	21.7	19.9	21.1	20.3	21.4	21.7
	3H	21.3	22.3	21.7	22.6	23.0	21.3	22.3	21.7	22.6	23.0
	4H	21.8	22.7	22.2	23.1	23.5	21.8	22.7	22.2	23.1	23.5
	6H	22.1	22.9	22.6	23.3	23.7	22.1	22.9	22.6	23.3	23.7
	8H	22.2	22.9	22.7	23.4	23.8	22.2	22.9	22.7	23.4	23.8
	12H	22.3	22.9	22.7	23.4	23.8	22.3	22.9	22.7	23.4	23.8
8H	4H	22.0	22.7	22.5	23.1	23.6	22.0	22.7	22.5	23.1	23.6
	6H	22.4	23.0	22.9	23.5	23.9	22.4	23.0	22.9	23.5	23.9
	8H	22.6	23.1	23.1	23.5	24.0	22.6	23.1	23.1	23.5	24.0
	12H	22.6	23.1	23.2	23.6	24.1	22.6	23.1	23.2	23.6	24.1
12H	4H	22.0	22.6	22.5	23.1	23.5	22.0	22.6	22.5	23.1	23.5
	6H	22.4	23.0	22.9	23.4	23.9	22.4	23.0	22.9	23.4	23.9
	8H	22.6	23.0	23.1	23.5	24.1	22.6	23.0	23.1	23.5	24.1
Variation of the observer position for the luminaire distances S											
S = 1.0H S = 1.5H S = 2.0H		+0.1 / -0.2 +0.3 / -0.6 +0.6 / -1.0					+0.1 / -0.2 +0.3 / -0.6 +0.6 / -1.0				
Standard table		BK04					BK04				
Correction summand		5.0					5.0				
Corrected glare indices referring to 2160lm Total luminous flux											

RUG diagram (SHR: 0.25)

Product data sheet

LEDVANCE - DL CMFT D100 P 13W MS 940 OP WT

Article No.	4099854490842
P	13.0 W
Φ_{Lamp}	1300 lm
$\Phi_{Luminaire}$	1300 lm
η	100.01 %
Luminous efficacy	100.0 lm/W
CCT	3000 K
CRI	90



Polar LDC

Glare evaluation according to RUG

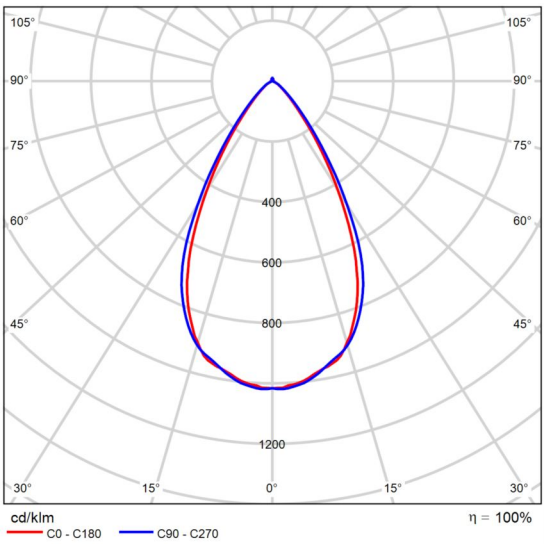
ρ Ceiling		70	70	50	50	30	70	70	50	50	30
ρ Walls		50	30	50	30	30	50	30	50	30	30
ρ Floor		20	20	20	20	20	20	20	20	20	20
Room size X	Y	Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	26.6	27.8	26.9	28.1	28.3	26.6	27.8	26.9	28.1	28.3
	3H	27.7	28.8	28.0	29.1	29.4	27.7	28.8	28.0	29.1	29.4
	4H	28.0	29.1	28.4	29.4	29.7	28.0	29.1	28.4	29.4	29.7
	6H	28.2	29.3	28.6	29.6	29.9	28.2	29.3	28.6	29.6	29.9
	8H	28.3	29.3	28.6	29.6	29.9	28.3	29.3	28.6	29.6	29.9
	12H	28.3	29.2	28.7	29.5	29.9	28.3	29.2	28.7	29.5	29.9
4H	2H	27.1	28.2	27.4	28.5	28.7	27.1	28.2	27.4	28.5	28.7
	3H	28.4	29.3	28.7	29.6	29.9	28.4	29.3	28.7	29.6	29.9
	4H	28.8	29.7	29.2	30.0	30.4	28.8	29.7	29.2	30.0	30.4
	6H	29.1	29.9	29.6	30.2	30.6	29.1	29.9	29.6	30.2	30.6
	8H	29.2	29.9	29.6	30.3	30.7	29.2	29.9	29.6	30.3	30.7
	12H	29.2	29.8	29.7	30.2	30.7	29.2	29.8	29.7	30.2	30.7
8H	4H	29.0	29.7	29.4	30.1	30.5	29.0	29.7	29.4	30.1	30.5
	6H	29.4	29.9	29.8	30.4	30.8	29.4	29.9	29.8	30.4	30.8
	8H	29.5	30.0	30.0	30.4	30.9	29.5	30.0	30.0	30.4	30.9
	12H	29.6	30.0	30.1	30.4	30.9	29.6	30.0	30.1	30.4	30.9
12H	4H	29.0	29.6	29.4	30.0	30.5	29.0	29.6	29.4	30.0	30.5
	6H	29.4	29.9	29.9	30.3	30.8	29.4	29.9	29.9	30.3	30.8
	8H	29.5	29.9	30.0	30.4	30.9	29.5	29.9	30.0	30.4	30.9
Variation of the observer position for the luminaire distances S											
S = 1.0H S = 1.5H S = 2.0H		+0.2 / -0.2 +0.3 / -0.6 +0.7 / -1.1					+0.2 / -0.2 +0.3 / -0.6 +0.7 / -1.1				
Standard table		BK04					BK04				
Correction summand		12.0					12.0				
Corrected glare indices referring to 1300lm Total luminous flux											

RUG diagram (SHR: 0.25)

Product data sheet

LEDVANCE - DL SURFACE DN 90 P 15W 830 60D IP65 WT

Article No.	4058075768963
P	15.0 W
Φ_{Lamp}	1575 lm
$\Phi_{Luminaire}$	1575 lm
η	100.00 %
Luminous efficacy	105.0 lm/W
CCT	3000 K
CRI	80



Polar LDC

Glare evaluation according to RUG

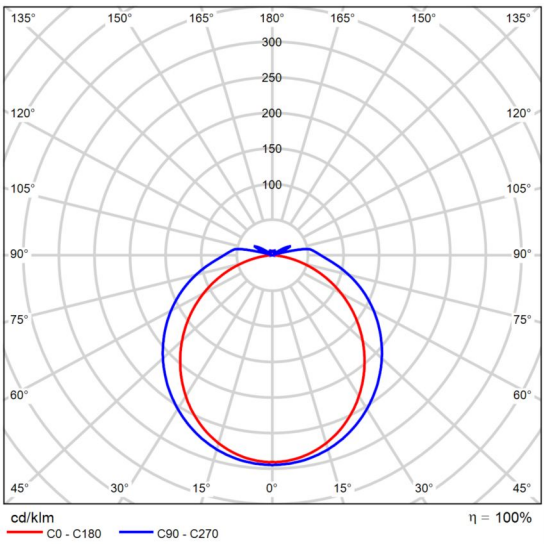
ρ Ceiling		70	70	50	50	30	70	70	50	50	30
ρ Walls		50	30	50	30	30	50	30	50	30	30
ρ Floor		20	20	20	20	20	20	20	20	20	20
Room size X	Y	Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	21.4	22.3	21.7	22.5	22.7	22.8	23.7	23.1	23.9	24.1
	3H	21.3	22.1	21.6	22.4	22.6	22.8	23.5	23.1	23.8	24.1
	4H	21.3	22.0	21.6	22.3	22.5	22.7	23.4	23.0	23.7	24.0
	6H	21.2	21.9	21.5	22.2	22.5	22.6	23.3	23.0	23.6	23.9
	8H	21.1	21.8	21.5	22.1	22.4	22.6	23.2	22.9	23.5	23.9
	12H	21.1	21.7	21.5	22.0	22.4	22.5	23.2	22.9	23.5	23.8
4H	2H	21.4	22.1	21.7	22.4	22.6	22.7	23.4	23.0	23.7	24.0
	3H	21.2	21.9	21.6	22.2	22.5	22.6	23.2	23.0	23.6	23.9
	4H	21.2	21.7	21.6	22.1	22.5	22.6	23.1	23.0	23.5	23.8
	6H	21.1	21.6	21.5	22.0	22.4	22.5	23.0	22.9	23.4	23.8
	8H	21.1	21.5	21.5	21.9	22.3	22.4	22.9	22.9	23.3	23.7
	12H	21.0	21.4	21.5	21.8	22.3	22.4	22.8	22.9	23.2	23.7
8H	4H	21.1	21.5	21.5	21.9	22.3	22.4	22.9	22.9	23.3	23.7
	6H	21.0	21.3	21.5	21.8	22.3	22.4	22.7	22.8	23.2	23.6
	8H	20.9	21.2	21.4	21.7	22.2	22.3	22.6	22.8	23.1	23.6
	12H	20.9	21.1	21.4	21.6	22.2	22.3	22.5	22.8	23.0	23.5
12H	4H	21.0	21.4	21.5	21.8	22.3	22.4	22.8	22.9	23.2	23.7
	6H	20.9	21.2	21.4	21.7	22.2	22.3	22.6	22.8	23.1	23.6
	8H	20.9	21.1	21.4	21.6	22.2	22.3	22.5	22.8	23.0	23.5
Variation of the observer position for the luminaire distances S											
S = 1.0H S = 1.5H S = 2.0H		+3.4 / -4.3 +5.8 / -7.1 +7.8 / -12.3					+3.4 / -4.5 +5.9 / -6.2 +7.8 / -11.3				
Standard table		BK00					BK00				
Correction summand		2.9					4.3				
Corrected glare indices referring to 1575lm Total luminous flux											

RUG diagram (SHR: 0.25)

Product data sheet

LEDVANCE - DP COMP 600 V 16W 840 IP66

Article No.	4058075740853
P	16.0 W
Φ_{Lamp}	1920 lm
$\Phi_{Luminaire}$	1920 lm
η	100.00 %
Luminous efficacy	120.0 lm/W
CCT	4000 K
CRI	80



Polar LDC

Glare evaluation according to RUG

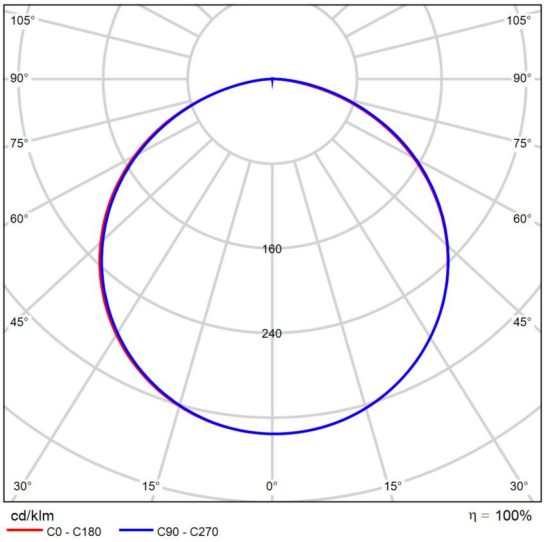
ρ Ceiling		70	70	50	50	30	70	70	50	50	30
ρ Walls		50	30	50	30	30	50	30	50	30	30
ρ Floor		20	20	20	20	20	20	20	20	20	20
Room size X	Y	Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	21.2	22.6	21.6	22.9	23.3	22.5	23.8	22.9	24.2	24.6
	3H	22.7	23.9	23.1	24.3	24.7	24.8	26.0	25.2	26.4	26.8
	4H	23.3	24.4	23.7	24.9	25.3	26.0	27.1	26.4	27.5	28.0
	6H	23.7	24.7	24.1	25.2	25.6	27.2	28.3	27.7	28.7	29.2
	8H	23.8	24.8	24.2	25.2	25.7	27.9	29.0	28.4	29.4	29.9
	12H	23.8	24.8	24.3	25.3	25.7	28.7	29.7	29.2	30.2	30.6
4H	2H	22.2	23.3	22.6	23.7	24.2	23.1	24.3	23.6	24.7	25.1
	3H	23.9	24.9	24.4	25.4	25.9	25.6	26.6	26.1	27.1	27.6
	4H	24.7	25.6	25.2	26.1	26.6	27.0	27.9	27.5	28.4	28.9
	6H	25.2	26.0	25.8	26.5	27.1	28.4	29.2	29.0	29.8	30.3
	8H	25.4	26.2	26.0	26.7	27.3	29.2	30.0	29.8	30.5	31.1
	12H	25.5	26.2	26.1	26.7	27.3	30.2	30.9	30.7	31.4	32.0
8H	4H	25.4	26.2	26.0	26.7	27.2	27.3	28.1	27.9	28.6	29.2
	6H	26.3	26.9	26.8	27.4	28.1	29.0	29.7	29.6	30.2	30.8
	8H	26.6	27.2	27.2	27.7	28.4	30.0	30.6	30.6	31.1	31.8
	12H	26.9	27.4	27.5	27.9	28.6	31.2	31.6	31.8	32.2	32.9
12H	4H	25.6	26.3	26.1	26.8	27.4	27.4	28.0	27.9	28.6	29.2
	6H	26.6	27.2	27.2	27.7	28.4	29.1	29.7	29.7	30.3	30.9
	8H	27.1	27.6	27.7	28.2	28.8	30.2	30.7	30.8	31.3	31.9
Variation of the observer position for the luminaire distances S											
S = 1.0H S = 1.5H S = 2.0H		+0.1 / -0.1 +0.2 / -0.3 +0.4 / -0.7					+0.1 / -0.1 +0.2 / -0.2 +0.3 / -0.4				
Standard table		BK14					BK11				
Correction summand		10.1					14.5				
Corrected glare indices referring to 1920lm Total luminous flux											

RUG diagram (SHR: 0.25)

Product data sheet

LEDVANCE - LS P-1000/930/5

Article No.	4058075707573
P	8.6 W
Φ_{Lamp}	1030 lm
$\Phi_{Luminaire}$	1030 lm
η	100.01 %
Luminous efficacy	119.8 lm/W
CCT	3000 K
CRI	100

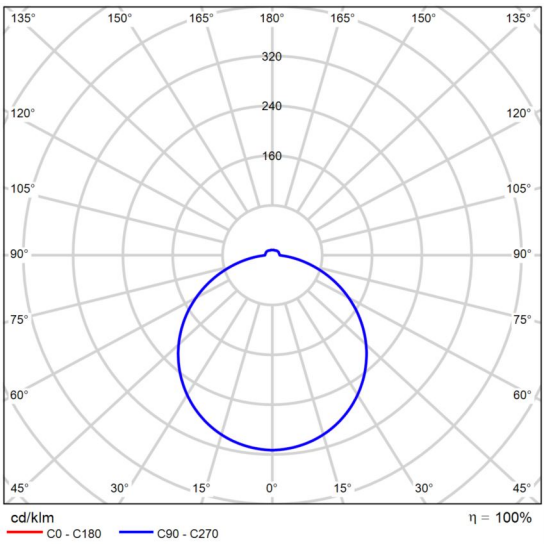


Polar LDC

Product data sheet

LEDVANCE - SF FLAT SQ 500 P 27W CPS

Article No.	4099854292675
P	27.0 W
Φ_{Lamp}	3600 lm
$\Phi_{Luminaire}$	3599 lm
η	99.98 %
Luminous efficacy	133.3 lm/W
CCT	3000 K
CRI	80



Polar LDC

Glare evaluation according to RUG

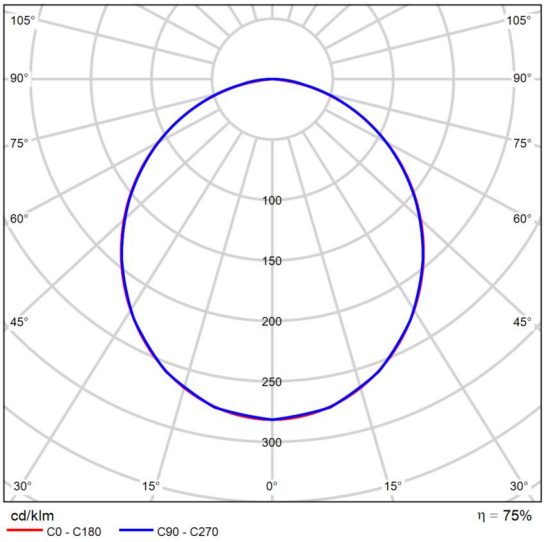
ρ Ceiling		70	70	50	50	30	70	70	50	50	30
ρ Walls		50	30	50	30	30	50	30	50	30	30
ρ Floor		20	20	20	20	20	20	20	20	20	20
Room size X	Y	Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	17.3	18.6	17.7	18.9	19.3	17.3	18.6	17.7	18.9	19.3
	3H	18.9	20.1	19.3	20.5	20.9	18.9	20.1	19.3	20.5	20.9
	4H	19.6	20.7	20.0	21.1	21.5	19.6	20.7	20.0	21.1	21.5
	6H	20.2	21.2	20.6	21.6	22.1	20.2	21.2	20.6	21.6	22.1
	8H	20.4	21.4	20.8	21.8	22.3	20.4	21.4	20.8	21.8	22.3
	12H	20.6	21.5	21.0	22.0	22.4	20.6	21.5	21.0	22.0	22.4
4H	2H	18.0	19.1	18.4	19.5	19.9	18.0	19.1	18.4	19.5	19.9
	3H	19.8	20.7	20.3	21.2	21.7	19.8	20.7	20.3	21.2	21.7
	4H	20.6	21.5	21.1	21.9	22.4	20.6	21.5	21.1	21.9	22.4
	6H	21.3	22.1	21.8	22.6	23.1	21.3	22.1	21.8	22.6	23.1
	8H	21.6	22.3	22.1	22.8	23.4	21.6	22.3	22.1	22.8	23.4
	12H	21.8	22.5	22.4	23.0	23.6	21.8	22.5	22.4	23.0	23.6
8H	4H	20.9	21.6	21.5	22.1	22.7	20.9	21.6	21.5	22.1	22.7
	6H	21.8	22.4	22.4	22.9	23.5	21.8	22.4	22.4	22.9	23.5
	8H	22.2	22.7	22.8	23.3	23.9	22.2	22.7	22.8	23.3	23.9
	12H	22.5	23.0	23.1	23.6	24.2	22.5	23.0	23.1	23.6	24.2
12H	4H	21.0	21.6	21.5	22.1	22.7	21.0	21.6	21.5	22.1	22.7
	6H	21.9	22.4	22.5	23.0	23.6	21.9	22.4	22.5	23.0	23.6
	8H	22.3	22.8	22.9	23.3	24.0	22.3	22.8	22.9	23.3	24.0
Variation of the observer position for the luminaire distances S											
S = 1.0H S = 1.5H S = 2.0H		+0.1 / -0.1 +0.2 / -0.3 +0.3 / -0.6					+0.1 / -0.1 +0.2 / -0.3 +0.3 / -0.6				
Standard table		BK07					BK07				
Correction summand		5.6					5.6				
Corrected glare indices referring to 3600lm Total luminous flux											

RUG diagram (SHR: 0.25)

Product data sheet

LUXIONA - PRISON LED 5200 PC E 34 IP65 830 / 1240X200MM

Article No.	19.4204.3421.34
P	28.0 W
Φ_{Lamp}	5234 lm
$\Phi_{Luminaire}$	3940 lm
η	75.28 %
Luminous efficacy	140.7 lm/W
CCT	3000 K
CRI	100



Polar LDC

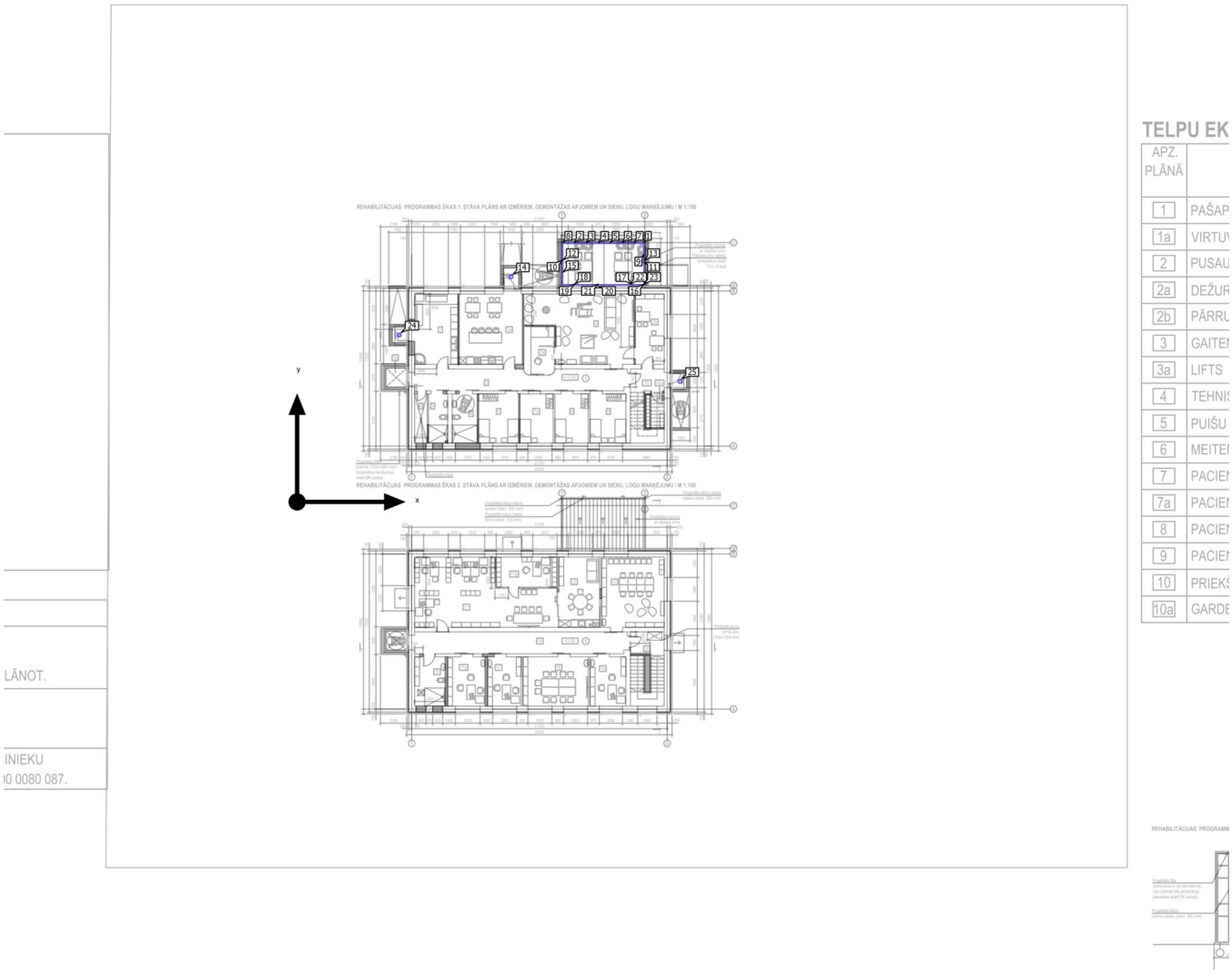
Glare evaluation according to RUG

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	18.2	19.6	18.5	19.8	20.0	18.2	19.5	18.5	19.8	20.0
	3H	19.7	20.9	20.0	21.2	21.5	19.7	20.9	20.0	21.2	21.4
	4H	20.3	21.4	20.6	21.7	22.0	20.3	21.4	20.6	21.7	22.0
	6H	20.6	21.7	21.0	22.0	22.3	20.7	21.7	21.0	22.1	22.4
	8H	20.7	21.7	21.1	22.1	22.4	20.8	21.8	21.2	22.2	22.5
	12H	20.7	21.7	21.1	22.0	22.4	20.9	21.9	21.3	22.2	22.6
4H	2H	18.9	20.0	19.2	20.3	20.6	18.9	20.0	19.2	20.3	20.6
	3H	20.6	21.5	20.9	21.9	22.2	20.5	21.5	20.9	21.8	22.2
	4H	21.3	22.1	21.7	22.5	22.9	21.3	22.1	21.7	22.5	22.9
	6H	21.7	22.5	22.2	22.9	23.3	21.8	22.5	22.2	22.9	23.3
	8H	21.9	22.6	22.3	23.0	23.4	22.0	22.7	22.4	23.1	23.5
	12H	21.9	22.6	22.3	23.0	23.4	22.1	22.8	22.5	23.2	23.6
8H	4H	21.5	22.3	22.0	22.7	23.1	21.5	22.3	22.0	22.7	23.1
	6H	22.1	22.7	22.6	23.2	23.6	22.2	22.8	22.6	23.2	23.7
	8H	22.3	22.9	22.8	23.3	23.8	22.4	23.0	22.9	23.4	23.9
	12H	22.4	22.9	22.9	23.3	23.9	22.7	23.1	23.2	23.6	24.1
12H	4H	21.5	22.2	22.0	22.6	23.1	21.5	22.2	22.0	22.6	23.1
	6H	22.2	22.7	22.7	23.2	23.6	22.2	22.8	22.7	23.2	23.7
	8H	22.4	22.9	22.9	23.3	23.8	22.5	23.0	23.0	23.4	23.9
Variation of the observer position for the luminaire distances S											
S = 1.0H S = 1.5H S = 2.0H		+0.1 / -0.1 +0.2 / -0.4 +0.4 / -0.7					+0.1 / -0.1 +0.2 / -0.4 +0.4 / -0.7				
Standard table		BK05					BK06				
Correction summand		3.8					4.4				
Corrected glare indices referring to 5234lm Total luminous flux											

RUG diagram (SHR: 0.25)

Site 1

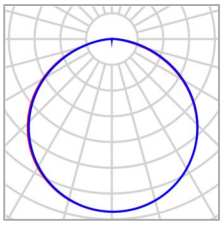
Luminaire layout plan



Site 1

Luminaire layout plan





Manufacturer	LEDVANCE	P	8.6 W
Article No.	4058075707573	$\Phi_{Luminaire}$	1030 lm
Article name	LS P-1000/930/5		
Fitting	1x		

Individual luminaires

X	Y	Mounting height	Luminaire
28.322 m	21.469 m	2.400 m	1
22.555 m	21.469 m	2.400 m	2
23.539 m	21.469 m	2.400 m	3
24.539 m	21.469 m	2.400 m	4
25.524 m	21.469 m	2.400 m	5
26.508 m	21.469 m	2.400 m	6
27.492 m	21.469 m	2.400 m	7
22.059 m	20.973 m	2.400 m	8
28.815 m	20.973 m	2.400 m	9
22.059 m	20.531 m	2.400 m	10
28.815 m	20.531 m	2.400 m	11
22.059 m	19.531 m	2.400 m	12
28.815 m	19.531 m	2.400 m	13

Site 1

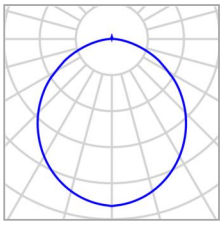
Luminaire layout plan

X	Y	Mounting height	Luminaire
22.059 m	18.531 m	2.400 m	15
28.815 m	18.531 m	2.400 m	16
28.322 m	18.038 m	2.400 m	17
22.555 m	18.038 m	2.400 m	18
23.539 m	18.038 m	2.400 m	19
24.539 m	18.038 m	2.400 m	20
25.524 m	18.038 m	2.400 m	21
26.508 m	18.038 m	2.400 m	22
27.492 m	18.038 m	2.400 m	23

Site 1

Luminaire layout plan





Manufacturer	LEDVANCE	P	18.0 W
Article No.	4099854286247	$\Phi_{Luminaire}$	2160 lm
Article name	BLKH RD SEN 300 P 18W CPS WT		
Fitting	1x LED 3000K / CRI >= 80		

Individual luminaires

X	Y	Mounting height	Luminaire
17.767 m	18.694 m	2.300 m	14
8.478 m	13.858 m	2.300 m	24
31.805 m	10.001 m	2.300 m	25

Site 1

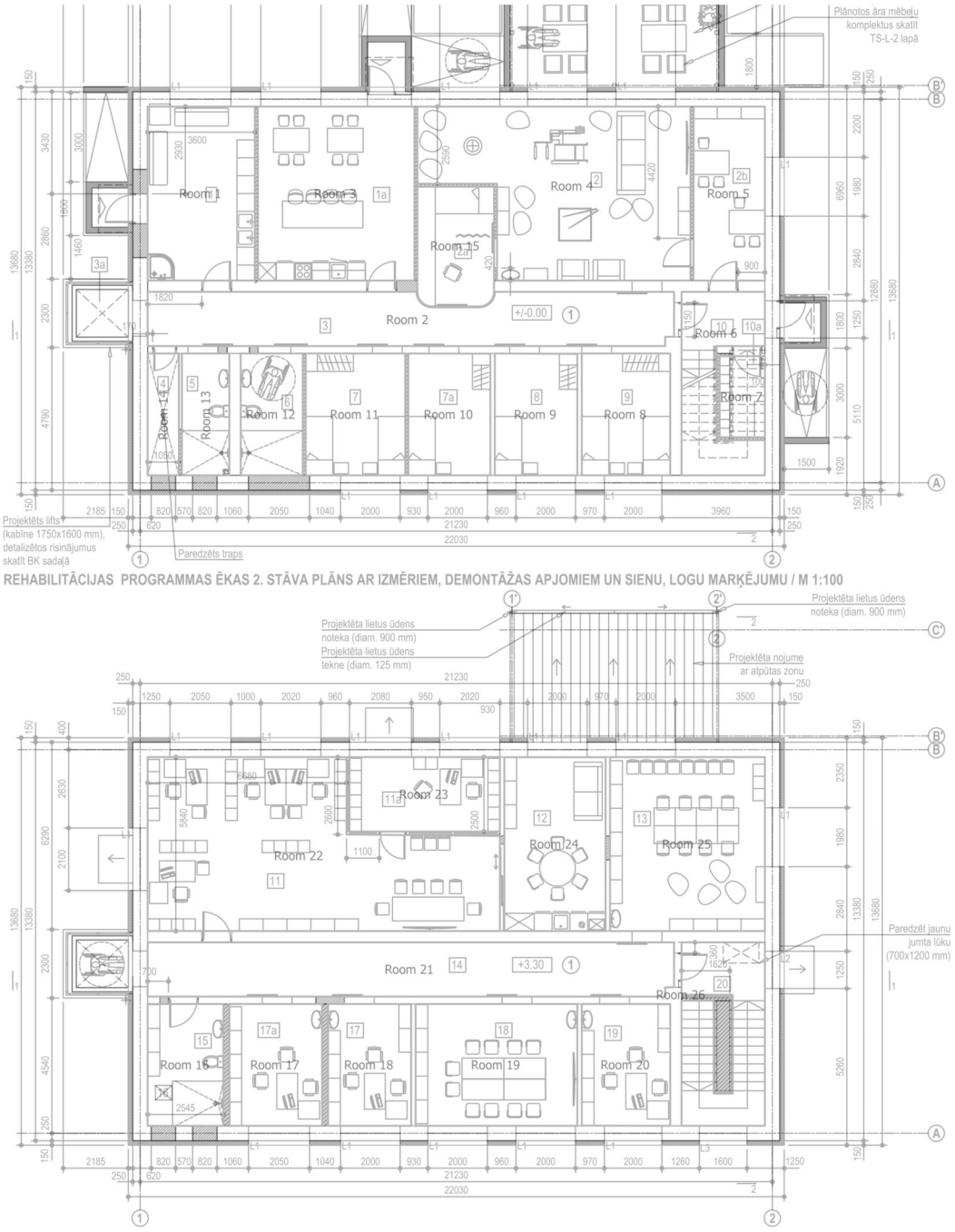
Luminaire list

Φ_{total}	P_{total}	Luminous efficacy
29140 lm	243.2 W	119.8 lm/W

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
22	LEDVANCE	4058075707573	LS P-1000/930/5	8.6 W	1030 lm	119.8 lm/W
3	LEDVANCE	4099854286247	BLKH RD SEN 300 P 18W CPS WT	18.0 W	2160 lm	120.0 lm/W

Building 1 · Storey 1 (Light scene 1)

Room list



REHABILITĀCIJAS PROGRAMMAS ĒKAS 2. STĀVA PLĀNS AR IZMĒRIEM, DEMONTĀŽAS APJOMIEM UN SIENU, LOGU MARĶĒJUMU / M 1:100

Building 1 · Storey 1 (Light scene 1)

Room list

Room 1

P_{total}	A_{Room}	Lighting power density	$\bar{E}_{perpendicular\ (Working\ plane)}$
162.0 W	21.02 m²	7.71 W/m² = 1.57 W/m²/100 lx (Space)	490 lx

pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{Luminaire}$
6	LEDVANCE	4099854292675	SF FLAT SQ 500 P 27W CPS	27.0 W	3599 lm

Room 2

P_{total}	A_{Room}	Lighting power density	$\bar{E}_{perpendicular\ (Working\ plane)}$
104.0 W	30.83 m²	3.37 W/m² = 1.89 W/m²/100 lx (Space)	179 lx

pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{Luminaire}$
8	LEDVANCE	4099854490842	DL CMFT D100 P 13W MS 940 OP WT	13.0 W	1300 lm

Room 3

P_{total}	A_{Room}	Lighting power density	$\bar{E}_{perpendicular\ (Working\ plane)}$
339.0 W	30.71 m²	11.04 W/m² = 3.10 W/m²/100 lx (Space)	357 lx

pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{Luminaire}$
1	LED LUKS	EC03S000060110	EOS C 650 SKY 930 WHITE-W	63.0 W	4744 lm
4	LED LUKS	EC05S000060110	EOS C 825 SKY 930 WHITE-W	69.0 W	5228 lm

Building 1 · Storey 1 (Light scene 1)

Room list

Room 4

P_{total}	A_{Room}	Lighting power density	$\bar{E}_{perpendicular\ (Working\ plane)}$
408.0 W	44.87 m²	9.09 W/m² = 2.78 W/m²/100 lx (Space)	327 lx

pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{Luminaire}$
1	LED LUKS	EC03S000060110	EOS C 650 SKY 930 WHITE-W	63.0 W	4744 lm
5	LED LUKS	EC05S000060110	EOS C 825 SKY 930 WHITE-W	69.0 W	5228 lm

Room 5

P_{total}	A_{Room}	Lighting power density
264.0 W	14.00 m²	18.86 W/m² (Space)

pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{Luminaire}$
2	LED LUKS	EC03S000060110	EOS C 650 SKY 930 WHITE-W	63.0 W	4744 lm
2	LED LUKS	EC05S000060110	EOS C 825 SKY 930 WHITE-W	69.0 W	5228 lm

Building 1 · Storey 1 (Light scene 1)

Room list

Room 6

P_{total}	A_{Room}	Lighting power density	$\bar{E}_{perpendicular\ (Working\ plane)}$
44.0 W	12.13 m²	3.63 W/m² = 3.03 W/m²/100 lx (Space)	120 lx

pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{Luminaire}$
1	LED LUKS	LE60P0O7000E80100000_22T00	LENE TUBE 60 P 1968 HE 940 OP FO WHITE	44.0 W	5098 lm

Room 7

P_{total}	A_{Room}	Lighting power density	$\bar{E}_{perpendicular\ (Working\ plane)}$
16.0 W	4.13 m²	3.87 W/m² = 3.29 W/m²/100 lx (Space)	118 lx

pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{Luminaire}$
1	LEDVANCE	4058075740853	DP COMP 600 V 16W 840 IP66	16.0 W	1920 lm

Room 8

P_{total}	A_{Room}	Lighting power density	$\bar{E}_{perpendicular\ (Working\ plane)}$
28.0 W	12.15 m²	2.31 W/m² = 1.38 W/m²/100 lx (Space)	167 lx

pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{Luminaire}$
1	LUXIONA	19.4204.3421.34	PRISON LED 5200 PC E 34 IP65 830 / 1240X200MM	28.0 W	3940 lm

Building 1 · Storey 1 (Light scene 1)

Room list

Room 9

P_{total}	A_{Room}	Lighting power density	$\bar{E}_{perpendicular\ (Working\ plane)}$
28.0 W	11.31 m²	2.48 W/m² = 1.43 W/m²/100 lx (Space)	173 lx

pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{Luminaire}$
1	LUXIONA	19.4204.34 21.34	PRISON LED 5200 PC E 34 IP65 830 / 1240X200MM	28.0 W	3940 lm

Room 10

P_{total}	A_{Room}	Lighting power density	$\bar{E}_{perpendicular\ (Working\ plane)}$
28.0 W	11.26 m²	2.49 W/m² = 1.44 W/m²/100 lx (Space)	173 lx

pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{Luminaire}$
1	LUXIONA	19.4204.34 21.34	PRISON LED 5200 PC E 34 IP65 830 / 1240X200MM	28.0 W	3940 lm

Room 11

P_{total}	A_{Room}	Lighting power density	$\bar{E}_{perpendicular\ (Working\ plane)}$
28.0 W	13.66 m²	2.05 W/m² = 1.31 W/m²/100 lx (Space)	156 lx

pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{Luminaire}$
1	LUXIONA	19.4204.34 21.34	PRISON LED 5200 PC E 34 IP65 830 / 1240X200MM	28.0 W	3940 lm

Building 1 · Storey 1 (Light scene 1)

Room list

Room 12

P_{total}	A_{Room}	Lighting power density	$\bar{E}_{perpendicular\ (Working\ plane)}$
30.0 W	8.53 m²	3.52 W/m² = 1.47 W/m²/100 lx (Space)	240 lx

pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{Luminaire}$
2	LEDVANCE	40580757 68963	DL SURFACE DN 90 P 15W 830 60D IP65 WT	15.0 W	1575 lm

Room 13

P_{total}	A_{Room}	Lighting power density	$\bar{E}_{perpendicular\ (Working\ plane)}$
30.0 W	6.52 m²	4.60 W/m² = 1.68 W/m²/100 lx (Space)	274 lx

pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{Luminaire}$
2	LEDVANCE	40580757 68963	DL SURFACE DN 90 P 15W 830 60D IP65 WT	15.0 W	1575 lm

Room 14

P_{total}	A_{Room}	Lighting power density	$\bar{E}_{perpendicular\ (Working\ plane)}$
32.0 W	4.29 m²	7.45 W/m² = 4.12 W/m²/100 lx (Space)	181 lx

pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{Luminaire}$
2	LEDVANCE	40580757 40853	DP COMP 600 V 16W 840 IP66	16.0 W	1920 lm

Building 1 · Storey 1 (Light scene 1)

Room list

Room 15

P_{total}	A_{Room}	Lighting power density	$\bar{E}_{perpendicular\ (Working\ plane)}$
81.0 W	10.23 m²	7.92 W/m² = 2.00 W/m²/100 lx (Space)	396 lx

pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{Luminaire}$
3	LEDVANCE	4099854292675	SF FLAT SQ 500 P 27W CPS	27.0 W	3599 lm

Room 16

P_{total}	A_{Room}	Lighting power density	$\bar{E}_{perpendicular\ (Working\ plane)}$
60.0 W	10.41 m²	5.76 W/m² = 1.53 W/m²/100 lx (Space)	377 lx

pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{Luminaire}$
4	LEDVANCE	4058075768963	DL SURFACE DN 90 P 15W 830 60D IP65 WT	15.0 W	1575 lm

Room 17

P_{total}	A_{Room}	Lighting power density
138.0 W	12.73 m²	10.84 W/m² (Space)

pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{Luminaire}$
3	LED LUKS	O800P0O7100E8010_22T00	ORA 80 P 2036 HE 940 OP FO WHITE	46.0 W	4486 lm

Building 1 · Storey 1 (Light scene 1)

Room list

Room 18

P_{total}	A_{Room}	Lighting power density
138.0 W	11.41 m²	12.09 W/m² (Space)

pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{Luminaire}$
3	LED LUKS	O800P0O7100E8010_22T00	ORA 80 P 2036 HE 940 OP FO WHITE	46.0 W	4486 lm

Room 19

P_{total}	A_{Room}	Lighting power density
108.0 W	22.21 m²	4.86 W/m² (Space)

pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{Luminaire}$
1	LED LUKS	I500P4O4081L8010_22T00	ILO 50 P QUADRO 1190/2380 LP 940 OP FO WHITE PART 1-4	27.0 W	2732 lm
1	LED LUKS	I500P4O4081L8010_22T00	ILO 50 P QUADRO 1190/2380 LP 940 OP FO WHITE PART 2-4	27.0 W	2732 lm
1	LED LUKS	I500P4O4081L8010_22T00	ILO 50 P QUADRO 1190/2380 LP 940 OP FO WHITE PART 3-4	27.0 W	2732 lm
1	LED LUKS	I500P4O4081L8010_22T00	ILO 50 P QUADRO 1190/2380 LP 940 OP FO WHITE PART 4-4	27.0 W	2732 lm

Building 1 · Storey 1 (Light scene 1)

Room list

Room 20

P_{total}	A_{Room}	Lighting power density
138.0 W	12.14 m²	11.37 W/m² (Space)

pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{Luminaire}$
3	LED LUKS	O800P0O7100E8010_22T00	ORA 80 P 2036 HE 940 OP FO WHITE	46.0 W	4486 lm

Room 21

P_{total}	A_{Room}	Lighting power density	$\bar{E}_{perpendicular\ (Working\ plane)}$
104.0 W	32.08 m²	3.24 W/m² = 1.83 W/m²/100 lx (Space)	178 lx

pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{Luminaire}$
8	LEDVANCE	4099854490842	DL CMFT D100 P 13W MS 940 OP WT	13.0 W	1300 lm

Room 22

P_{total}	A_{Room}	Lighting power density
437.0 W	55.57 m²	7.86 W/m² (Space)

pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{Luminaire}$
9	LED LUKS	O800P0O4200O4010_22T00	ORA 80 P 1266 HO 840 OP FO WHITE	40.0 W	4209 lm
1	LED LUKS	O800P0O8300O4010_22T00	ORA 80 P 2456 HO 840 OP FO WHITE	77.0 W	8182 lm

Building 1 · Storey 1 (Light scene 1)

Room list

Room 23

P_{total}	A_{Room}	Lighting power density
138.0 W	12.62 m²	10.93 W/m² (Space)

pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{Luminaire}$
3	LED LUKS	O800P0O7100E8010_22T00	ORA 80 P 2036 HE 940 OP FO WHITE	46.0 W	4486 lm

Room 24

P_{total}	A_{Room}	Lighting power density	$\bar{E}_{perpendicular\ (Working\ plane)}$
315.0 W	19.84 m²	15.87 W/m² = 6.10 W/m²/100 lx (Space)	260 lx

pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{Luminaire}$
5	LED LUKS	EC03S000060110	EOS C 650 SKY 930 WHITE-W	63.0 W	4744 lm

Building 1 · Storey 1 (Light scene 1)

Room list

Room 25

P_{total}	A_{Room}	Lighting power density
216.0 W	30.37 m²	7.11 W/m² (Space)

pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{Luminaire}$
2	LED LUKS	I500P4O4 081L8010_ 22T00	ILO 50 P QUADRO 1190/2380 LP 940 OP FO WHITE PART 1-4	27.0 W	2732 lm
2	LED LUKS	I500P4O4 081L8010_ 22T00	ILO 50 P QUADRO 1190/2380 LP 940 OP FO WHITE PART 2-4	27.0 W	2732 lm
2	LED LUKS	I500P4O4 081L8010_ 22T00	ILO 50 P QUADRO 1190/2380 LP 940 OP FO WHITE PART 3-4	27.0 W	2732 lm
2	LED LUKS	I500P4O4 081L8010_ 22T00	ILO 50 P QUADRO 1190/2380 LP 940 OP FO WHITE PART 4-4	27.0 W	2732 lm

Room 26

P_{total}	A_{Room}	Lighting power density	$\bar{E}_{perpendicular\ (Working\ plane)}$
88.0 W	14.91 m²	5.90 W/m² = 3.30 W/m²/100 lx (Space)	179 lx

pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{Luminaire}$
2	LED LUKS	LE60P0O7 000E8010 0000_22T0 0	LENE TUBE 60 P 1968 HE 940 OP FO WHITE	44.0 W	5098 lm

Building 1 · Storey 1

Luminaire list

Φ_{total}	P_{total}	Luminous efficacy
335488 lm	3502.0 W	95.8 lm/W

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
9	LED LUKS	EC03S000060110	EOS C 650 SKY 930 WHITE-W	63.0 W	4744 lm	75.3 lm/W
11	LED LUKS	EC05S000060110	EOS C 825 SKY 930 WHITE-W	69.0 W	5228 lm	75.8 lm/W
3	LED LUKS	I500P4O4081L8010_22T00	ILO 50 P QUADRO 1190/2380 LP 940 OP FO WHITE PART 1-4	27.0 W	2732 lm	101.2 lm/W
3	LED LUKS	I500P4O4081L8010_22T00	ILO 50 P QUADRO 1190/2380 LP 940 OP FO WHITE PART 2-4	27.0 W	2732 lm	101.2 lm/W
3	LED LUKS	I500P4O4081L8010_22T00	ILO 50 P QUADRO 1190/2380 LP 940 OP FO WHITE PART 3-4	27.0 W	2732 lm	101.2 lm/W
3	LED LUKS	I500P4O4081L8010_22T00	ILO 50 P QUADRO 1190/2380 LP 940 OP FO WHITE PART 4-4	27.0 W	2732 lm	101.2 lm/W
3	LED LUKS	LE60P0O7000E80100000_22T00	LENE TUBE 60 P 1968 HE 940 OP FO WHITE	44.0 W	5098 lm	115.9 lm/W
9	LED LUKS	O800P0O4200O4010_22T00	ORA 80 P 1266 HO 840 OP FO WHITE	40.0 W	4209 lm	105.2 lm/W
12	LED LUKS	O800P0O7100E8010_22T00	ORA 80 P 2036 HE 940 OP FO WHITE	46.0 W	4486 lm	97.5 lm/W
1	LED LUKS	O800P0O8300O4010_22T00	ORA 80 P 2456 HO 840 OP FO WHITE	77.0 W	8182 lm	106.3 lm/W
3	LEDVANCE	4058075740853	DP COMP 600 V 16W 840 IP66	16.0 W	1920 lm	120.0 lm/W

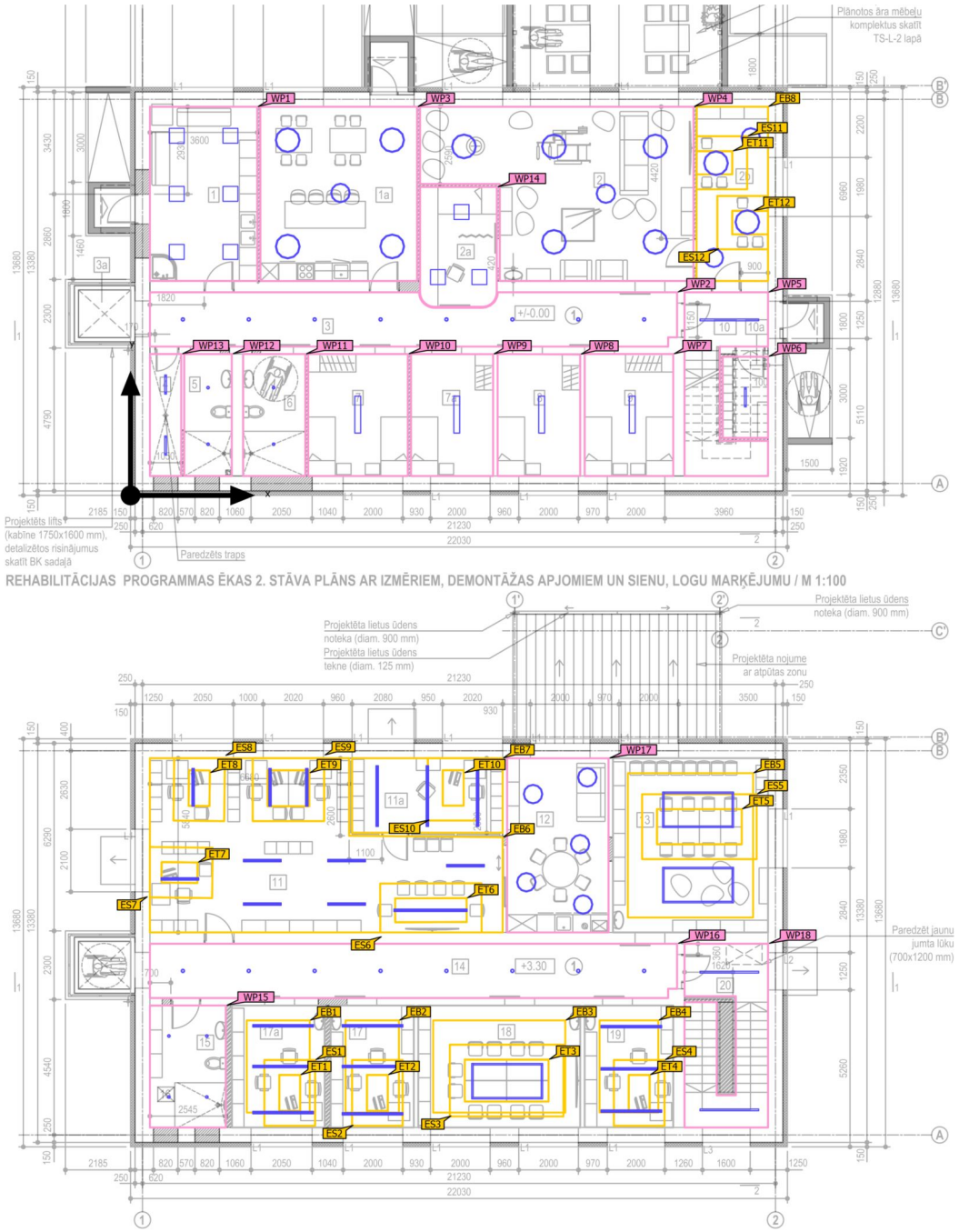
Building 1 · Storey 1

Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
8	LEDVANCE	40580757 68963	DL SURFACE DN 90 P 15W 830 60D IP65 WT	15.0 W	1575 lm	105.0 lm/W
9	LEDVANCE	40998542 92675	SF FLAT SQ 500 P 27W CPS	27.0 W	3599 lm	133.3 lm/W
16	LEDVANCE	40998544 90842	DL CMFT D100 P 13W MS 940 OP WT	13.0 W	1300 lm	100.0 lm/W
4	LUXIONA	19.4204.34 21.34	PRISON LED 5200 PC E 34 IP65 830 / 1240X200MM	28.0 W	3940 lm	140.7 lm/W

Building 1 · Storey 1 (Light scene 1)

Calculation objects



Building 1 · Storey 1 (Light scene 1)

Calculation objects

Working planes

Properties	Ē (Target)	E_{min}	E_{max}	U_o (g_1)	g_2	Index
Working plane (Room 1) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	490 lx (≥ 200 lx) ✓	305 lx	599 lx	0.62	0.51	WP1
Working plane (Room 2) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	179 lx (≥ 100 lx) ✓	75.7 lx	248 lx	0.42	0.31	WP2
Working plane (Room 3) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	357 lx (≥ 100 lx) ✓	256 lx	446 lx	0.72	0.57	WP3
Working plane (Room 4) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	327 lx (≥ 100 lx) ✓	164 lx	459 lx	0.50	0.36	WP4
Working plane (Room 6) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	120 lx (≥ 100 lx) ✓	2.13 lx	294 lx	0.018	0.007	WP5
Working plane (Room 7) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	118 lx (≥ 100 lx) ✓	77.9 lx	149 lx	0.66	0.52	WP6
Working plane (Room 8) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	167 lx (≥ 100 lx) ✓	78.6 lx	278 lx	0.47	0.28	WP7
Working plane (Room 9) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	173 lx (≥ 100 lx) ✓	82.0 lx	285 lx	0.47	0.29	WP8
Working plane (Room 10) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	173 lx (≥ 100 lx) ✓	80.6 lx	283 lx	0.47	0.28	WP9
Working plane (Room 11) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	156 lx (≥ 100 lx) ✓	72.5 lx	274 lx	0.46	0.26	WP10
Working plane (Room 12) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	240 lx (≥ 200 lx) ✓	74.8 lx	341 lx	0.31	0.22	WP11

Building 1 · Storey 1 (Light scene 1)

Calculation objects

Working plane (Room 13) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	274 lx (≥ 200 lx) ✓	110 lx	355 lx	0.40	0.31	WP12
Working plane (Room 14) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	181 lx (≥ 100 lx) ✓	126 lx	204 lx	0.70	0.62	WP13
Working plane (Room 15) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	396 lx (≥ 200 lx) ✓	220 lx	507 lx	0.56	0.43	WP14
Working plane (Room 16) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	377 lx (≥ 200 lx) ✓	175 lx	506 lx	0.46	0.35	WP15
Working plane (Room 21) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	178 lx (≥ 100 lx) ✓	87.4 lx	236 lx	0.49	0.37	WP16
Working plane (Room 24) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	260 lx (≥ 100 lx) ✓	157 lx	311 lx	0.60	0.50	WP17
Working plane (Room 26) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	179 lx (≥ 100 lx) ✓	22.4 lx	294 lx	0.13	0.076	WP18

Visual task areas

Properties	Ē (Target)	E_{min}	E_{max}	U_o (g_1) (Target)	g_2	Index
Visual task area 1 Perpendicular illuminance Height: 0.800 m, Surrounding area: 0.500 m	694 lx (≥ 500 lx) ✓	649 lx	734 lx	0.94 (≥ 0.60) ✓	0.88	ET1
Surrounding area 1 Perpendicular illuminance Height: 0.800 m	653 lx (≥ 300 lx) ✓	495 lx	775 lx	0.76 (≥ 0.40) ✓	0.64	ES1
Background area 1 Perpendicular illuminance Height: 0.000 m, Wall zone: 0.500 m	476 lx (≥ 100 lx) ✓	403 lx	544 lx	0.85 (≥ 0.10) ✓	0.74	EB1

Building 1 · Storey 1 (Light scene 1)

Calculation objects

Visual task area 2 Perpendicular illuminance Height: 0.800 m, Surrounding area: 0.500 m	703 lx (≥ 500 lx) ✓	672 lx	741 lx	0.96 (≥ 0.60) ✓	0.91	ET2
Surrounding area 2 Perpendicular illuminance Height: 0.800 m	664 lx (≥ 300 lx) ✓	516 lx	780 lx	0.78 (≥ 0.40) ✓	0.66	ES2
Background area 2 Perpendicular illuminance Height: 0.000 m, Wall zone: 0.500 m	509 lx (≥ 100 lx) ✓	468 lx	551 lx	0.92 (≥ 0.10) ✓	0.85	EB2
Visual task area 3 Perpendicular illuminance Height: 0.800 m, Surrounding area: 0.500 m	543 lx (≥ 500 lx) ✓	467 lx	592 lx	0.86 (≥ 0.60) ✓	0.79	ET3
Surrounding area 3 Perpendicular illuminance Height: 0.800 m	421 lx (≥ 300 lx) ✓	324 lx	495 lx	0.77 (≥ 0.40) ✓	0.65	ES3
Background area 3 Perpendicular illuminance Height: 0.000 m, Wall zone: 0.500 m	232 lx (≥ 100 lx) ✓	154 lx	302 lx	0.66 (≥ 0.10) ✓	0.51	EB3
Visual task area 4 Perpendicular illuminance Height: 0.800 m, Surrounding area: 0.500 m	724 lx (≥ 500 lx) ✓	677 lx	763 lx	0.94 (≥ 0.60) ✓	0.89	ET4
Surrounding area 4 Perpendicular illuminance Height: 0.800 m	667 lx (≥ 300 lx) ✓	483 lx	782 lx	0.72 (≥ 0.40) ✓	0.62	ES4
Background area 4 Perpendicular illuminance Height: 0.000 m, Wall zone: 0.500 m	490 lx (≥ 100 lx) ✓	429 lx	548 lx	0.88 (≥ 0.10) ✓	0.78	EB4
Visual task area 5 Perpendicular illuminance Height: 0.800 m, Surrounding area: 0.500 m	679 lx (≥ 500 lx) ✓	584 lx	723 lx	0.86 (≥ 0.60) ✓	0.81	ET5
Surrounding area 5 Perpendicular illuminance Height: 0.800 m	588 lx (≥ 300 lx) ✓	436 lx	713 lx	0.74 (≥ 0.40) ✓	0.61	ES5
Background area 5 Perpendicular illuminance Height: 0.000 m, Wall zone: 0.500 m	423 lx (≥ 100 lx) ✓	285 lx	558 lx	0.67 (≥ 0.10) ✓	0.51	EB5

Building 1 · Storey 1 (Light scene 1)

Calculation objects

Visual task area 6 Perpendicular illuminance Height: 0.800 m, Surrounding area: 0.500 m	847 lx (≥ 500 lx) ✓	662 lx	939 lx	0.78 (≥ 0.60) ✓	0.71	ET6
Surrounding area 6 Perpendicular illuminance Height: 0.800 m	699 lx (≥ 300 lx) ✓	421 lx	864 lx	0.60 (≥ 0.40) ✓	0.49	ES6
Background area 6 Perpendicular illuminance Height: 0.000 m, Wall zone: 0.500 m	478 lx (≥ 100 lx) ✓	233 lx	636 lx	0.49 (≥ 0.10) ✓	0.37	EB6
Visual task area 7 Perpendicular illuminance Height: 0.800 m, Surrounding area: 0.500 m	566 lx (≥ 500 lx) ✓	497 lx	606 lx	0.88 (≥ 0.60) ✓	0.82	ET7
Surrounding area 7 Perpendicular illuminance Height: 0.800 m	476 lx (≥ 300 lx) ✓	324 lx	579 lx	0.68 (≥ 0.40) ✓	0.56	ES7
Background area 6 Perpendicular illuminance Height: 0.000 m, Wall zone: 0.500 m	492 lx (≥ 100 lx) ✓	233 lx	641 lx	0.47 (≥ 0.10) ✓	0.36	EB6
Visual task area 8 Perpendicular illuminance Height: 0.800 m, Surrounding area: 0.500 m	566 lx (≥ 500 lx) ✓	524 lx	595 lx	0.93 (≥ 0.60) ✓	0.88	ET8
Surrounding area 8 Perpendicular illuminance Height: 0.800 m	473 lx (≥ 300 lx) ✓	380 lx	564 lx	0.80 (≥ 0.40) ✓	0.67	ES8
Background area 6 Perpendicular illuminance Height: 0.000 m, Wall zone: 0.500 m	494 lx (≥ 100 lx) ✓	233 lx	641 lx	0.47 (≥ 0.10) ✓	0.36	EB6
Visual task area 9 Perpendicular illuminance Height: 0.800 m, Surrounding area: 0.500 m	790 lx (≥ 500 lx) ✓	722 lx	839 lx	0.91 (≥ 0.60) ✓	0.86	ET9
Surrounding area 9 Perpendicular illuminance Height: 0.800 m	646 lx (≥ 300 lx) ✓	486 lx	750 lx	0.75 (≥ 0.40) ✓	0.65	ES9
Background area 6 Perpendicular illuminance Height: 0.000 m, Wall zone: 0.500 m	483 lx (≥ 100 lx) ✓	233 lx	641 lx	0.48 (≥ 0.10) ✓	0.36	EB6

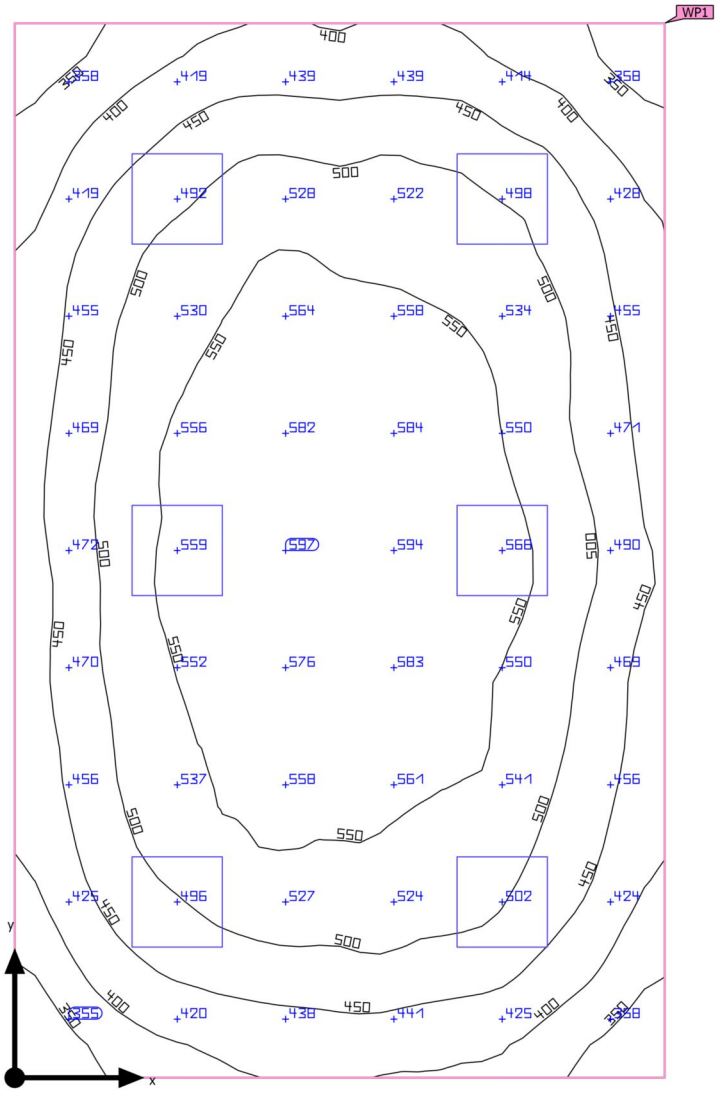
Building 1 · Storey 1 (Light scene 1)

Calculation objects

Visual task area 10 Perpendicular illuminance Height: 0.800 m, Surrounding area: 0.500 m	624 lx (≥ 500 lx) ✓	568 lx	657 lx	0.91 (≥ 0.60) ✓	0.86	ET10
Surrounding area 10 Perpendicular illuminance Height: 0.800 m	591 lx (≥ 300 lx) ✓	445 lx	701 lx	0.75 (≥ 0.40) ✓	0.63	ES10
Background area 7 Perpendicular illuminance Height: 0.000 m, Wall zone: 0.500 m	406 lx (≥ 100 lx) ✓	299 lx	507 lx	0.74 (≥ 0.10) ✓	0.59	EB7
Visual task area 11 Perpendicular illuminance Height: 0.800 m, Surrounding area: 0.500 m	515 lx (≥ 500 lx) ✓	459 lx	557 lx	0.89 (≥ 0.60) ✓	0.82	ET11
Surrounding area 11 Perpendicular illuminance Height: 0.800 m	514 lx (≥ 300 lx) ✓	411 lx	555 lx	0.80 (≥ 0.40) ✓	0.74	ES11
Background area 8 Perpendicular illuminance Height: 0.000 m, Wall zone: 0.500 m	340 lx (≥ 100 lx) ✓	258 lx	409 lx	0.76 (≥ 0.10) ✓	0.63	EB8
Visual task area 12 Perpendicular illuminance Height: 0.800 m, Surrounding area: 0.500 m	506 lx (≥ 500 lx) ✓	455 lx	539 lx	0.90 (≥ 0.60) ✓	0.84	ET12
Surrounding area 12 Perpendicular illuminance Height: 0.800 m	499 lx (≥ 300 lx) ✓	402 lx	535 lx	0.81 (≥ 0.40) ✓	0.75	ES12
Background area 8 Perpendicular illuminance Height: 0.000 m, Wall zone: 0.500 m	341 lx (≥ 100 lx) ✓	258 lx	415 lx	0.76 (≥ 0.10) ✓	0.62	EB8

Building 1 · Storey 1 · Room 1 (Light scene 1)

Summary



Ground area	21.02 m²	Clearance height	3.000 m
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %	Mounting height	3.000 m
		Height Working plane	0.800 m
Maintenance factor	0.80 (fixed)	Wall zone Working plane	0.000 m

Building 1 · Storey 1 · Room 1 (Light scene 1)

Summary

Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{perpendicular}$	490 lx	≥ 200 lx	✓	WP1
	U_o (g_1)	0.62	–		WP1
Energy estimation(2)	Consumption	26.7 kWh/a	max. 750 kWh/a	✓	
Space	Lighting power density	7.71 W/m²	–		
		1.57 W/m²/100 lx	–		

(2) Calculated using DIN:18599-4.

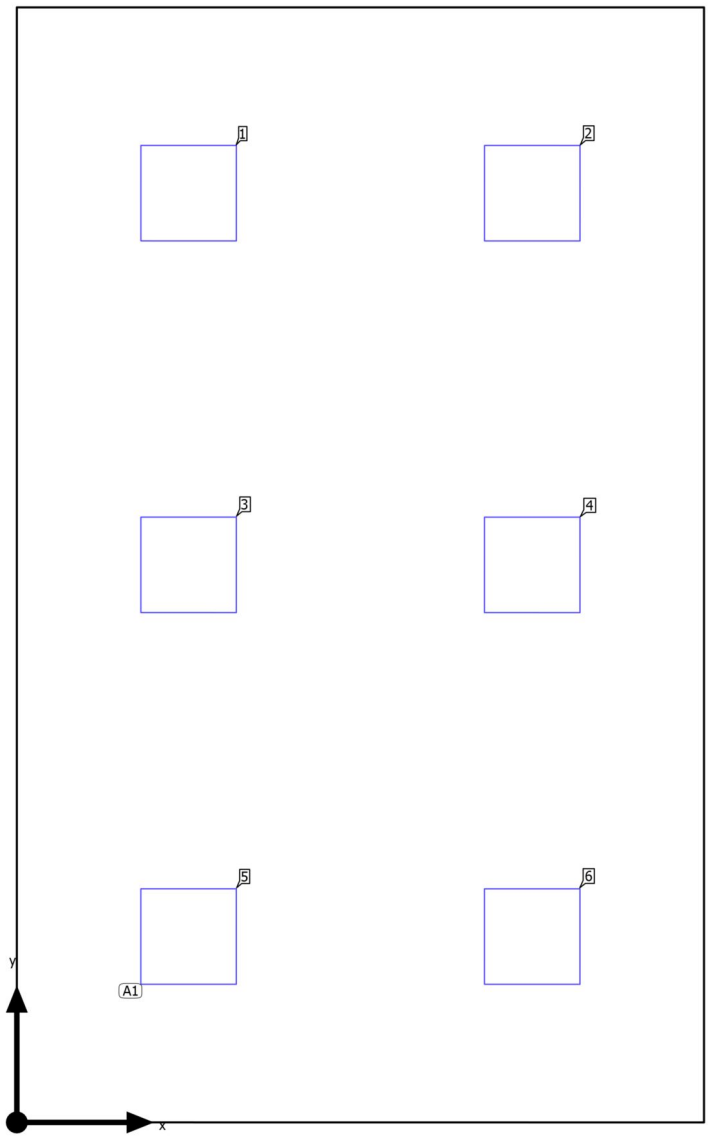
Utilisation profile: General areas inside buildings - Control rooms (11.1 Plant rooms, switchgear rooms)

Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
6	LEDVANCE	4099854292675	SF FLAT SQ 500 P 27W CPS	27.0 W	3599 lm	133.3 lm/W

Building 1 · Storey 1 · Room 1

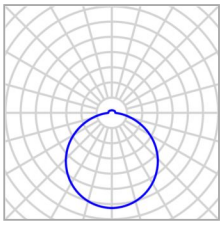
Luminaire layout plan



Building 1 · Storey 1 · Room 1

Luminaire layout plan





Manufacturer	LEDVANCE	P	27.0 W
Article No.	4099854292675	$\Phi_{Luminaire}$	3599 lm
Article name	SF FLAT SQ 500 P 27W CPS		
Fitting	1x LED 3000K / CRI >= 80		

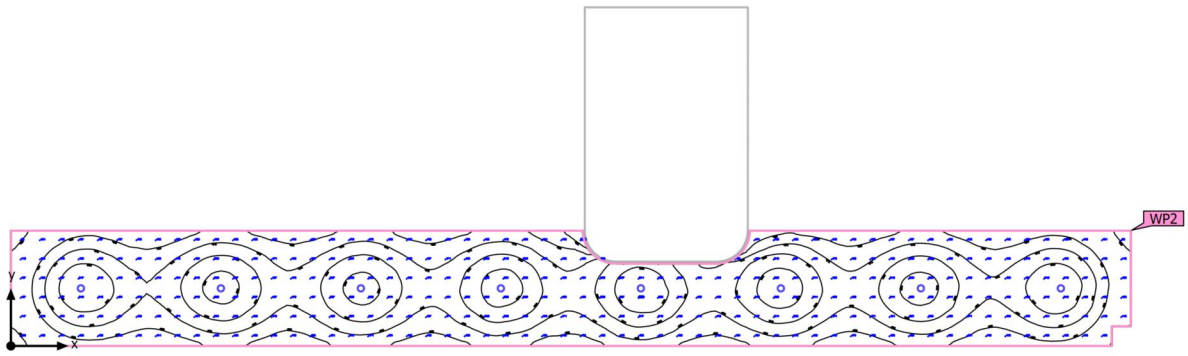
6 x LEDVANCE SF FLAT SQ 500 P 27W CPS

Type	Field Arrangement
1st luminaire (X/Y/Z)	0.900 m / 0.974 m / 3.000 m
X-direction	2 pcs., Centre - centre, 1.800 m
Y-direction	3 pcs., Centre - centre, 1.947 m
Arrangement	A1

X	Y	Mounting height	Luminaire
0.900 m	4.867 m	3.000 m	1
2.700 m	4.867 m	3.000 m	2
0.900 m	2.920 m	3.000 m	3
2.700 m	2.920 m	3.000 m	4
0.900 m	0.974 m	3.000 m	5
2.700 m	0.973 m	3.000 m	6

Building 1 · Storey 1 · Room 2 (Light scene 1)

Summary



Ground area	30.83 m²	Clearance height	3.000 m
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %	Mounting height	2.500 m
		Height Working plane	0.800 m
Maintenance factor	0.80 (fixed)	Wall zone Working plane	0.000 m

Building 1 · Storey 1 · Room 2 (Light scene 1)

Summary

Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{perpendicular}$	179 lx	≥ 100 lx	✓	WP2
	U_o (g_1)	0.42	–		WP2
Energy estimation(2)	Consumption	114 kWh/a	max. 1100 kWh/a	✓	
Space	Lighting power density	3.37 W/m²	–		
		1.89 W/m²/100 lx	–		

(2) Calculated using DIN:18599-4.

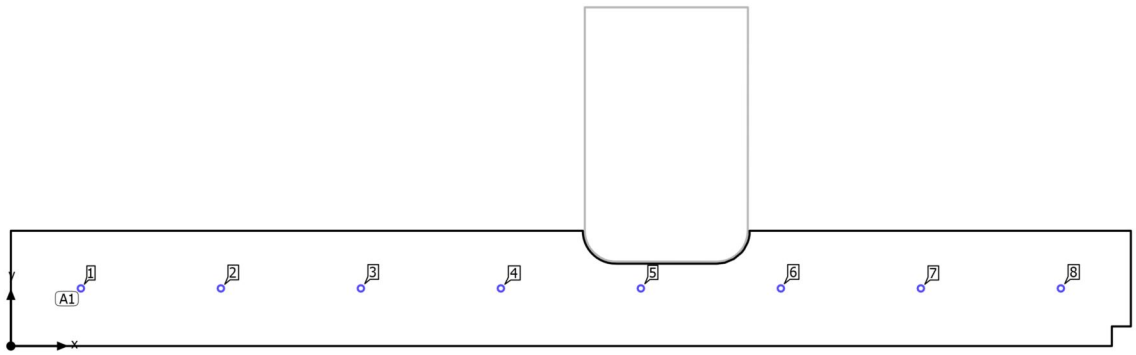
Utilisation profile: Traffic zones inside buildings (9.2 Stairs, escalators, travelators)

Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
8	LEDVANCE	4099854490842	DL CMFT D100 P 13W MS 940 OP WT	13.0 W	1300 lm	100.0 lm/W

Building 1 · Storey 1 · Room 2

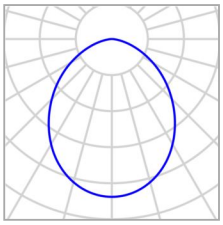
Luminaire layout plan



Building 1 · Storey 1 · Room 2

Luminaire layout plan





Manufacturer	LEDVANCE	P	13.0 W
Article No.	4099854490842	$\Phi_{Luminaire}$	1300 lm
Article name	DL CMFT D100 P 13W MS 940 OP WT		
Fitting	1x LED 3000K / CRI >= 90		

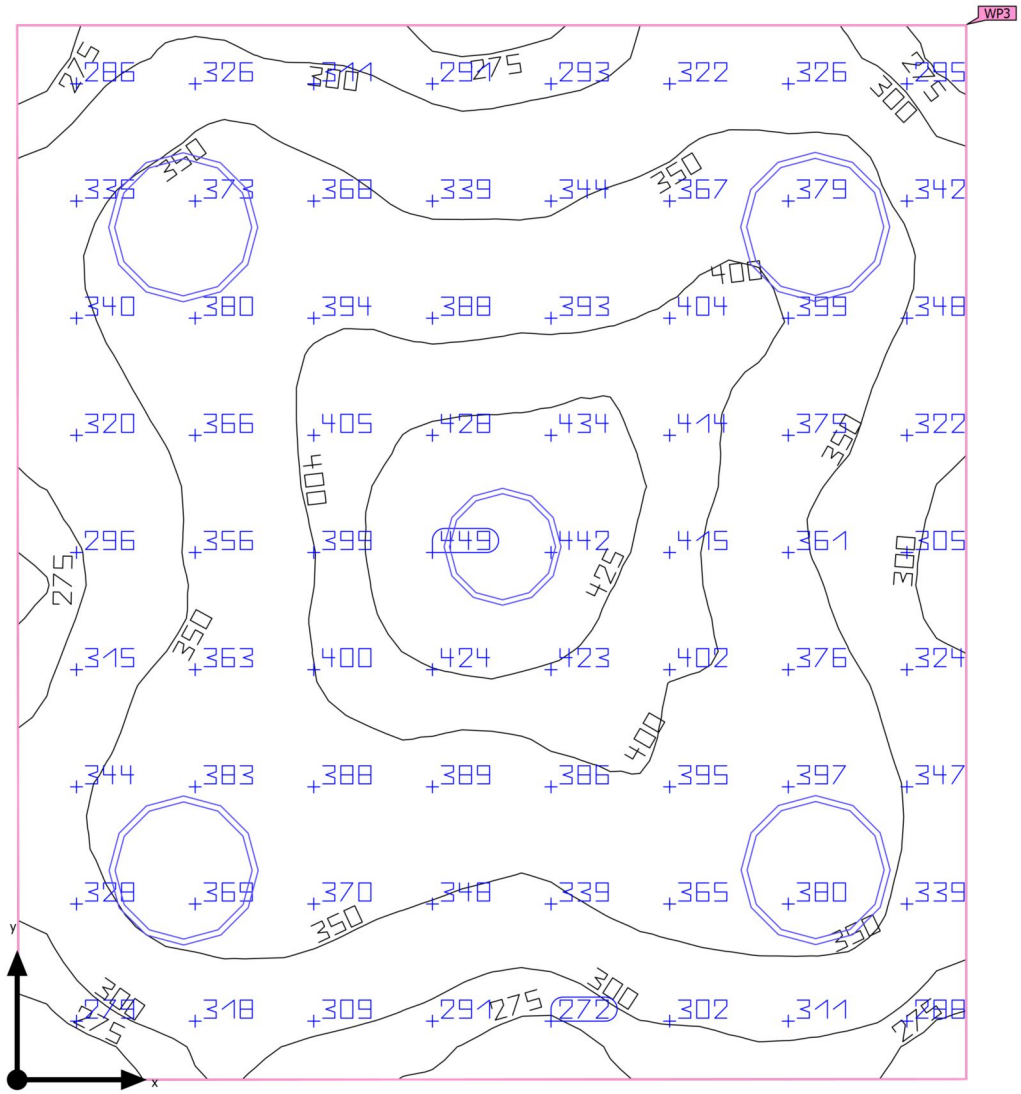
8 x LEDVANCE DL CMFT D100 P 13W MS 940 OP WT

Type	Line arrangement
1st luminaire (X/Y/Z)	1.105 m / 0.910 m / 2.500 m
X-direction	8 pcs., Centre - centre, 2.210 m
Arrangement	A1

X	Y	Mounting height	Luminaire
1.105 m	0.910 m	2.500 m	1
3.315 m	0.910 m	2.500 m	2
5.525 m	0.910 m	2.500 m	3
7.735 m	0.910 m	2.500 m	4
9.945 m	0.910 m	2.500 m	5
12.155 m	0.910 m	2.500 m	6
14.365 m	0.910 m	2.500 m	7
16.575 m	0.910 m	2.500 m	8

Building 1 · Storey 1 · Room 3 (Light scene 1)

Summary



Ground area	30.71 m²	Clearance height	3.000 m
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %	Mounting height	2.500 m
		Height Working plane	0.800 m
Maintenance factor	0.80 (fixed)	Wall zone Working plane	0.000 m

Building 1 · Storey 1 · Room 3 (Light scene 1)

Summary

Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{perpendicular}$	357 lx	≥ 100 lx	✓	WP3
	U_o (g_1)	0.72	–		WP3
Energy estimation(2)	Consumption	653 kWh/a	max. 1100 kWh/a	✓	
Space	Lighting power density	11.04 W/m²	–		
		3.10 W/m²/100 lx	–		

(2) Calculated using DIN:18599-4.

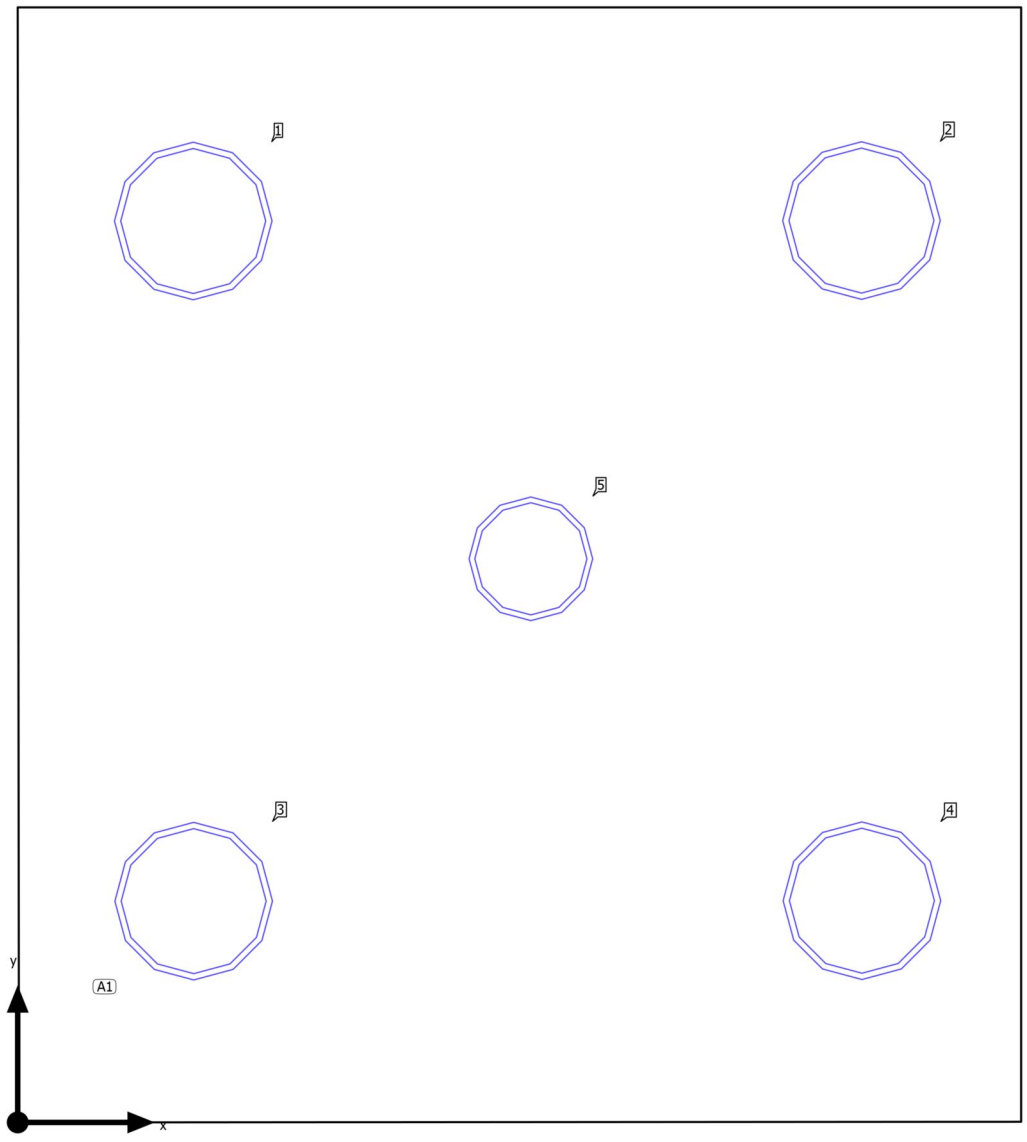
Utilisation profile: General areas inside buildings - Rest, sanitation and first aid rooms (10.2 Rest rooms)

Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
1	LED LUKS	EC03S000060110	EOS C 650 SKY 930 WHITE-W	63.0 W	4744 lm	75.3 lm/W
4	LED LUKS	EC05S000060110	EOS C 825 SKY 930 WHITE-W	69.0 W	5228 lm	75.8 lm/W

Building 1 · Storey 1 · Room 3

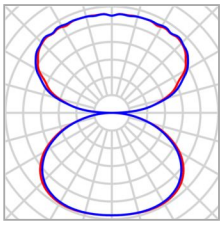
Luminaire layout plan



Building 1 · Storey 1 · Room 3

Luminaire layout plan





Manufacturer	LED LUKS	P	63.0 W
Article No.	EC03S000060110	$\Phi_{Luminaire}$	4744 lm
Article name	EOS C 650 SKY 930 WHITE-W		
Fitting	1x LED		

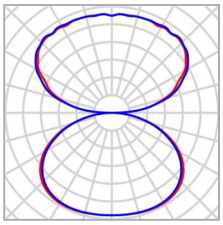
Individual luminaires

X	Y	Mounting height	Luminaire
2.690 m	2.954 m	2.500 m	5

Building 1 · Storey 1 · Room 3

Luminaire layout plan





Manufacturer	LED LUKS	P	69.0 W
Article No.	EC05S000060110	$\Phi_{Luminaire}$	5228 lm
Article name	EOS C 825 SKY 930 WHITE-W		
Fitting	1x LED		

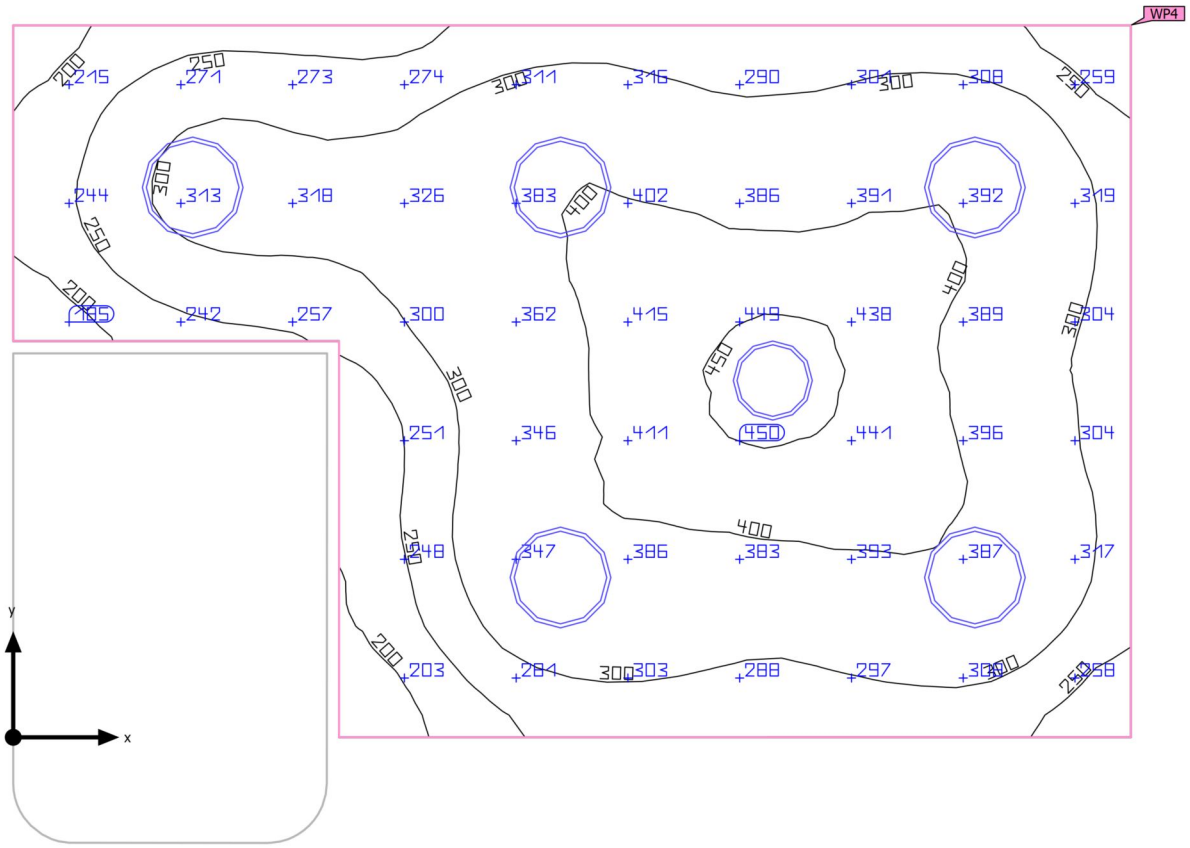
4 x LED LUKS EOS C 825 SKY 930 WHITE-W

Type	Field Arrangement
1st luminaire (X/Y/Z)	0.922 m / 1.160 m / 2.500 m
X-direction	2 pcs., Centre - centre, Distances not equal
Y-direction	2 pcs., Centre - centre, Distances not equal
Arrangement	A1

X	Y	Mounting height	Luminaire
0.920 m	4.725 m	2.500 m	1
4.423 m	4.727 m	2.500 m	2
0.922 m	1.160 m	2.500 m	3
4.425 m	1.162 m	2.500 m	4

Building 1 · Storey 1 · Room 4 (Light scene 1)

Summary



Ground area	44.87 m²	Clearance height	3.000 m
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %	Mounting height	2.500 m
		Height Working plane	0.800 m
Maintenance factor	0.80 (fixed)	Wall zone Working plane	0.000 m

Building 1 · Storey 1 · Room 4 (Light scene 1)

Summary

Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{perpendicular}$	327 lx	≥ 100 lx	✓	WP4
	U_o (g_1)	0.50	–		WP4
Energy estimation(2)	Consumption	785 kWh/a	max. 1600 kWh/a	✓	
Space	Lighting power density	9.09 W/m²	–		
		2.78 W/m²/100 lx	–		

(2) Calculated using DIN:18599-4.

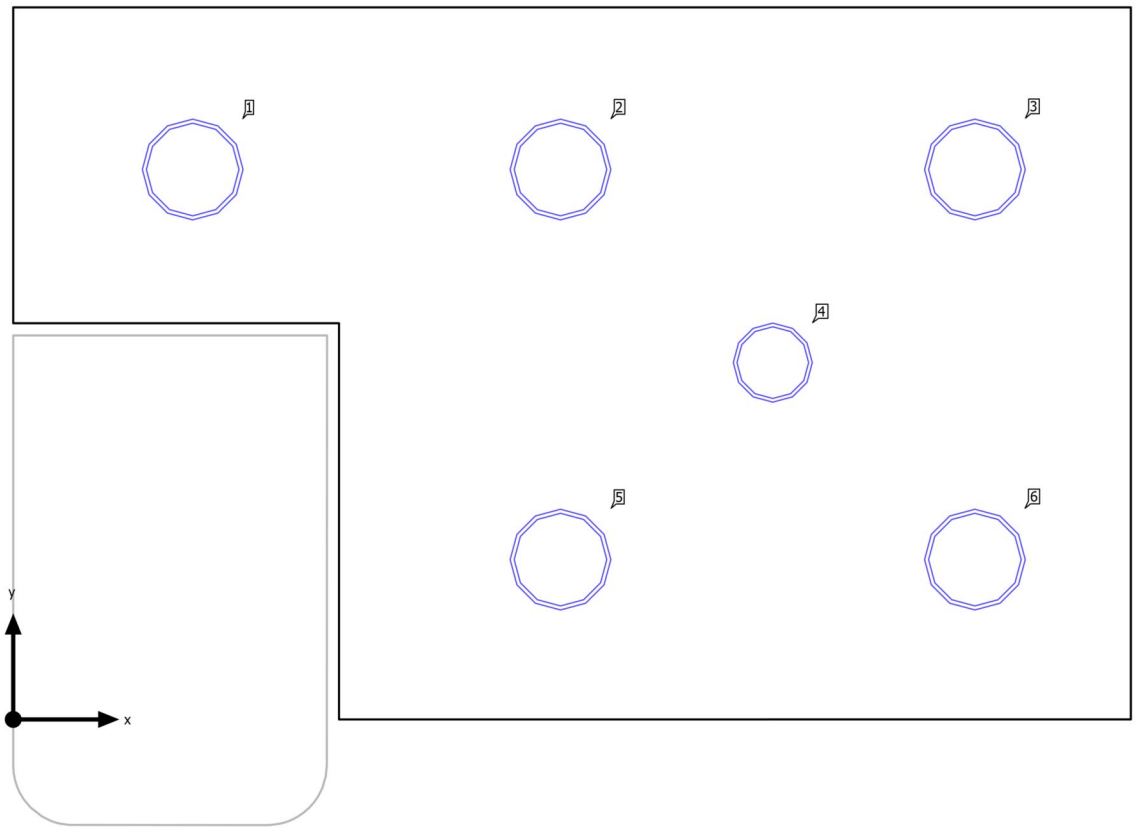
Utilisation profile: General areas inside buildings - Rest, sanitation and first aid rooms (10.2 Rest rooms)

Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
1	LED LUKS	EC03S000 060110	EOS C 650 SKY 930 WHITE-W	63.0 W	4744 lm	75.3 lm/W
5	LED LUKS	EC05S000 060110	EOS C 825 SKY 930 WHITE-W	69.0 W	5228 lm	75.8 lm/W

Building 1 · Storey 1 · Room 4

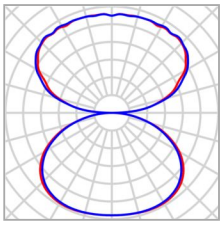
Luminaire layout plan



Building 1 · Storey 1 · Room 4

Luminaire layout plan





Manufacturer	LED LUKS	P	63.0 W
Article No.	EC03S000060110	$\Phi_{Luminaire}$	4744 lm
Article name	EOS C 650 SKY 930 WHITE-W		
Fitting	1x LED		

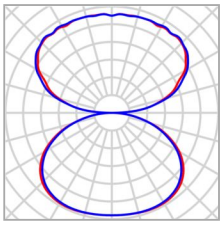
Individual luminaires

X	Y	Mounting height	Luminaire
6.232 m	2.927 m	2.500 m	4

Building 1 · Storey 1 · Room 4

Luminaire layout plan





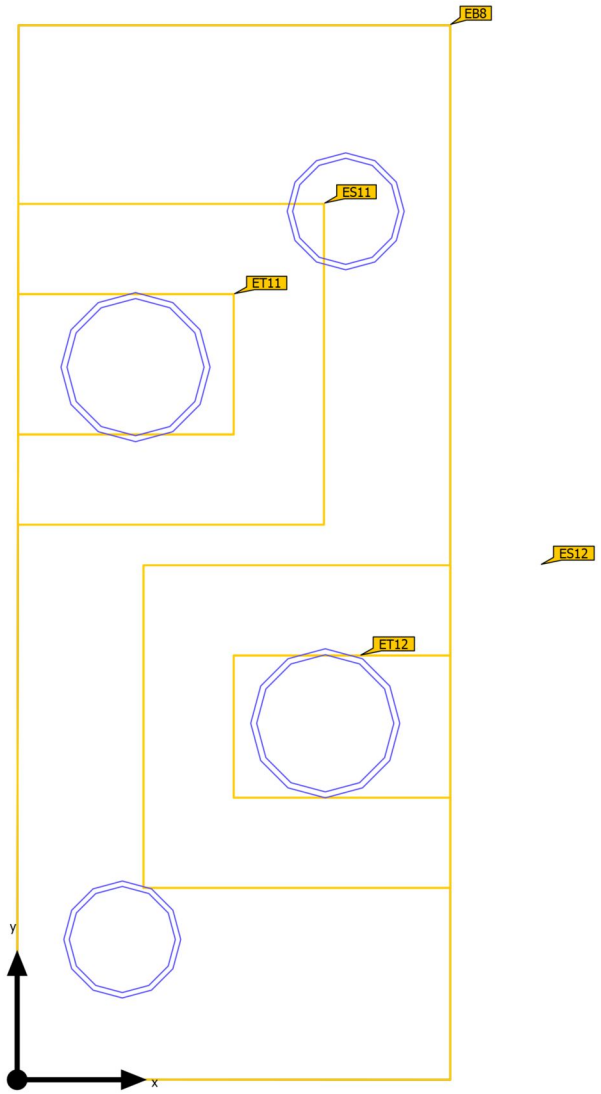
Manufacturer	LED LUKS	P	69.0 W
Article No.	EC05S000060110	$\Phi_{Luminaire}$	5228 lm
Article name	EOS C 825 SKY 930 WHITE-W		
Fitting	1x LED		

Individual luminaires

X	Y	Mounting height	Luminaire
1.472 m	4.511 m	2.500 m	1
4.490 m	4.511 m	2.500 m	2
7.890 m	4.511 m	2.500 m	3
4.490 m	1.311 m	2.500 m	5
7.890 m	1.311 m	2.500 m	6

Building 1 · Storey 1 · Room 5 (Light scene 1)

Summary



Ground area	14.00 m²
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %
Maintenance factor	0.80 (fixed)

Clearance height	3.000 m
Mounting height	2.400 m

Building 1 · Storey 1 · Room 5 (Light scene 1)

Summary

Results

	Symbol	Calculated	Target	Check	Index
Visual task areas	$\bar{E}$ Task Area	506 lx	≥ 500 lx	✓	ET12
	U_o (g_1) Task Area	0.90	≥ 0.60	✓	ET12
	$\bar{E}$ Surrounding area	499 lx	≥ 300 lx	✓	ES12
	U_o (g_1) Surrounding area	0.81	≥ 0.40	✓	ES12
	$\bar{E}$ Background area	340 lx	≥ 100 lx	✓	EB8
	U_o (g_1) Background area	0.76	≥ 0.10	✓	EB8
Energy estimation(2)	Consumption	508 kWh/a	max. 500 kWh/a	✗	
Space	Lighting power density	18.86 W/m²	–		

(2) Calculated using DIN:18599-4.

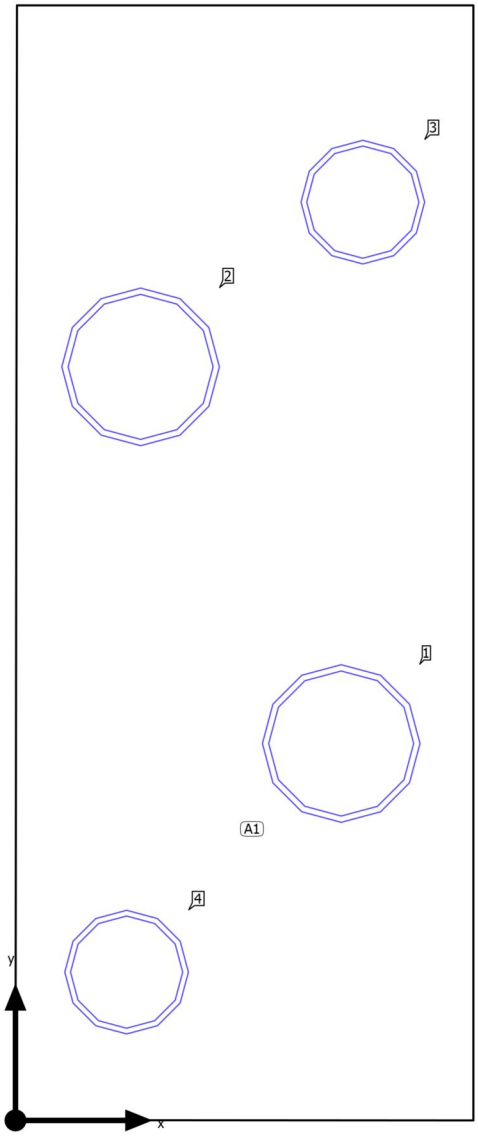
Utilisation profile: Offices (34.5.1 Conference and meeting rooms)

Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
2	LED LUKS	EC03S000060110	EOS C 650 SKY 930 WHITE-W	63.0 W	4744 lm	75.3 lm/W
2	LED LUKS	EC05S000060110	EOS C 825 SKY 930 WHITE-W	69.0 W	5228 lm	75.8 lm/W

Building 1 · Storey 1 · Room 5

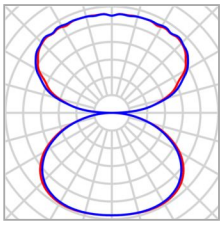
Luminaire layout plan



Building 1 · Storey 1 · Room 5

Luminaire layout plan





Manufacturer	LED LUKS	P	63.0 W
Article No.	EC03S000060110	$\Phi_{Luminaire}$	4744 lm
Article name	EOS C 650 SKY 930 WHITE-W		
Fitting	1x LED		

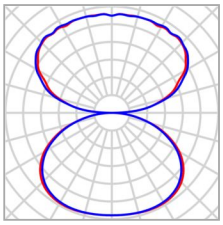
Individual luminaires

X	Y	Mounting height	Luminaire
1.821 m	4.812 m	2.400 m	3
0.582 m	0.777 m	2.400 m	4

Building 1 · Storey 1 · Room 5

Luminaire layout plan





Manufacturer	LED LUKS	P	69.0 W
Article No.	EC05S000060110	$\Phi_{Luminaire}$	5228 lm
Article name	EOS C 825 SKY 930 WHITE-W		
Fitting	1x LED		

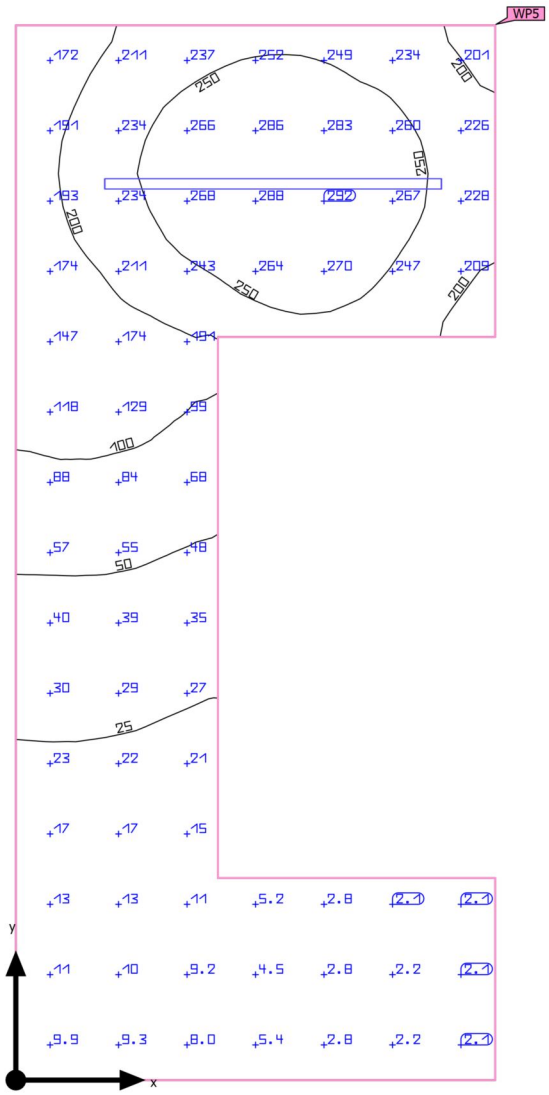
2 x LED LUKS EOS C 825 SKY 930 WHITE-W

Type	Line arrangement
1st luminaire (X/Y/Z)	0.656 m / 3.949 m / 2.400 m
X-direction	2 pcs., Centre - centre, Distances not equal
Arrangement	A1

X	Y	Mounting height	Luminaire
1.707 m	1.975 m	2.400 m	1
0.656 m	3.949 m	2.400 m	2

Building 1 · Storey 1 · Room 6 (Light scene 1)

Summary



Ground area	12.13 m²	Clearance height	3.000 m
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %	Mounting height	3.000 m
		Height Working plane	0.800 m
Maintenance factor	0.80 (fixed)	Wall zone Working plane	0.000 m

Building 1 · Storey 1 · Room 6 (Light scene 1)

Summary

Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{perpendicular}$	120 lx	≥ 100 lx	✓	WP5
	U_o (g_1)	0.018	–		WP5
Energy estimation(2)	Consumption	48.4 kWh/a	max. 450 kWh/a	✓	
Space	Lighting power density	3.63 W/m²	–		
		3.03 W/m²/100 lx	–		

(2) Calculated using DIN:18599-4.

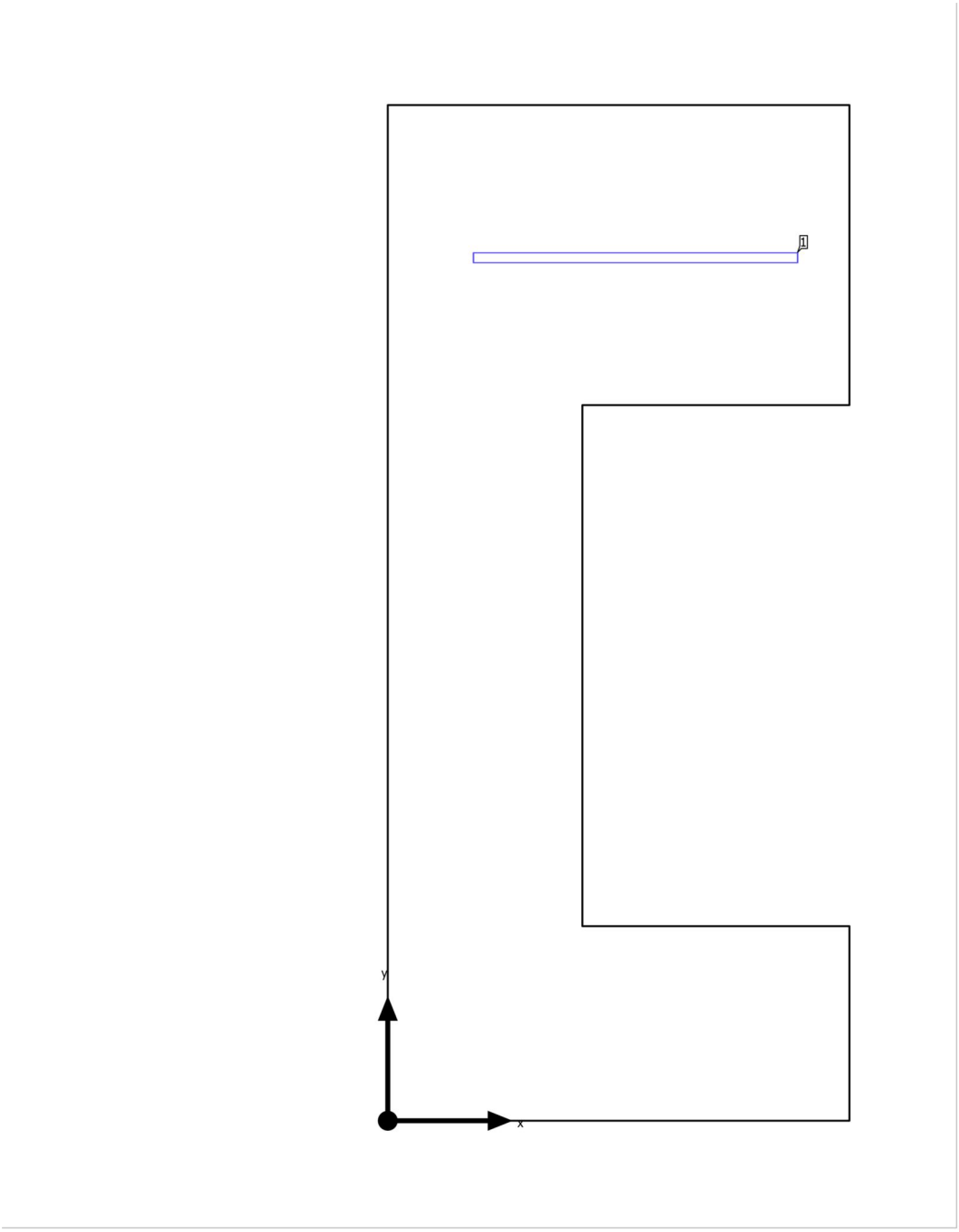
Utilisation profile: Traffic zones inside buildings (9.2 Stairs, escalators, travelators)

Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
1	LED LUKS	LE60P0O7000E80100000_22T00	LENE TUBE 60 P 1968 HE 940 OP FO WHITE	44.0 W	5098 lm	115.9 lm/W

Building 1 · Storey 1 · Room 6

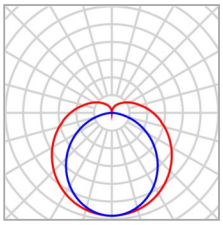
Luminaire layout plan



Building 1 · Storey 1 · Room 6

Luminaire layout plan





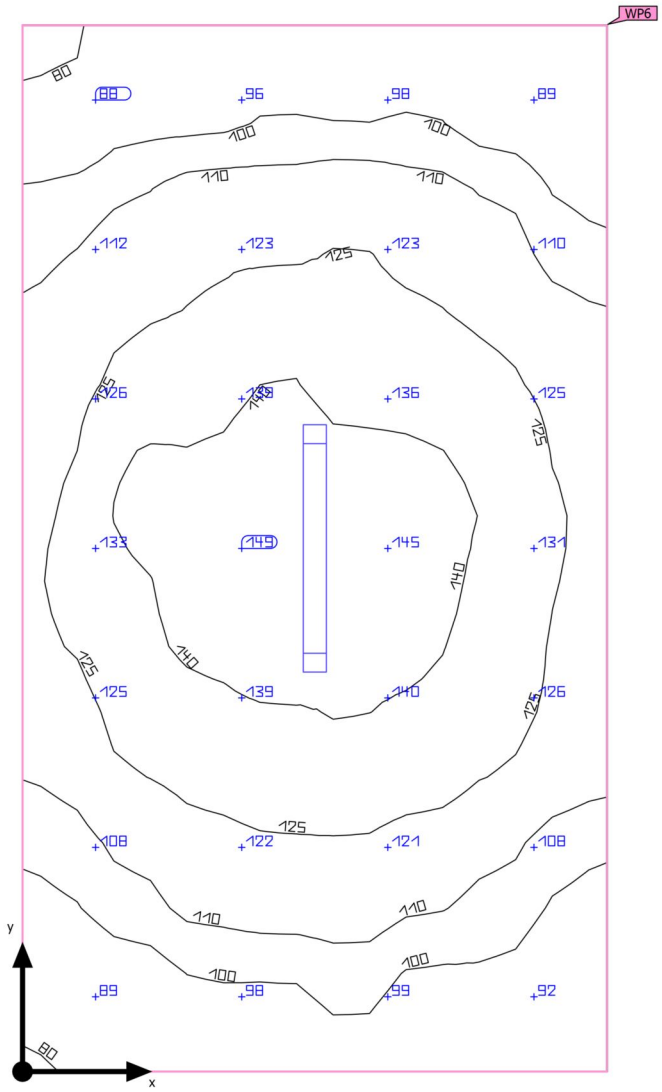
Manufacturer	LED LUKS	P	44.0 W
Article No.	LE60P0O7000E80100000_22T00	$\Phi_{Luminaire}$	5098 lm
Article name	LENE TUBE 60 P 1968 HE 940 OP FO WHITE		
Fitting	1x LED		

Individual luminaires

X	Y	Mounting height	Luminaire
1.502 m	5.234 m	3.000 m	1

Building 1 · Storey 1 · Room 7 (Light scene 1)

Summary



Ground area	4.13 m²	Clearance height	3.000 m
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %	Mounting height	3.000 m
		Height Working plane	0.800 m
Maintenance factor	0.80 (fixed)	Wall zone Working plane	0.000 m

Building 1 · Storey 1 · Room 7 (Light scene 1)

Summary

Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{perpendicular}$	118 lx	≥ 100 lx	✓	WP6
	U_o (g_1)	0.66	–		WP6
Energy estimation(2)	Consumption	39.6 kWh/a	max. 150 kWh/a	✓	
Space	Lighting power density	3.87 W/m²	–		
		3.29 W/m²/100 lx	–		

(2) Calculated using DIN:18599-4.

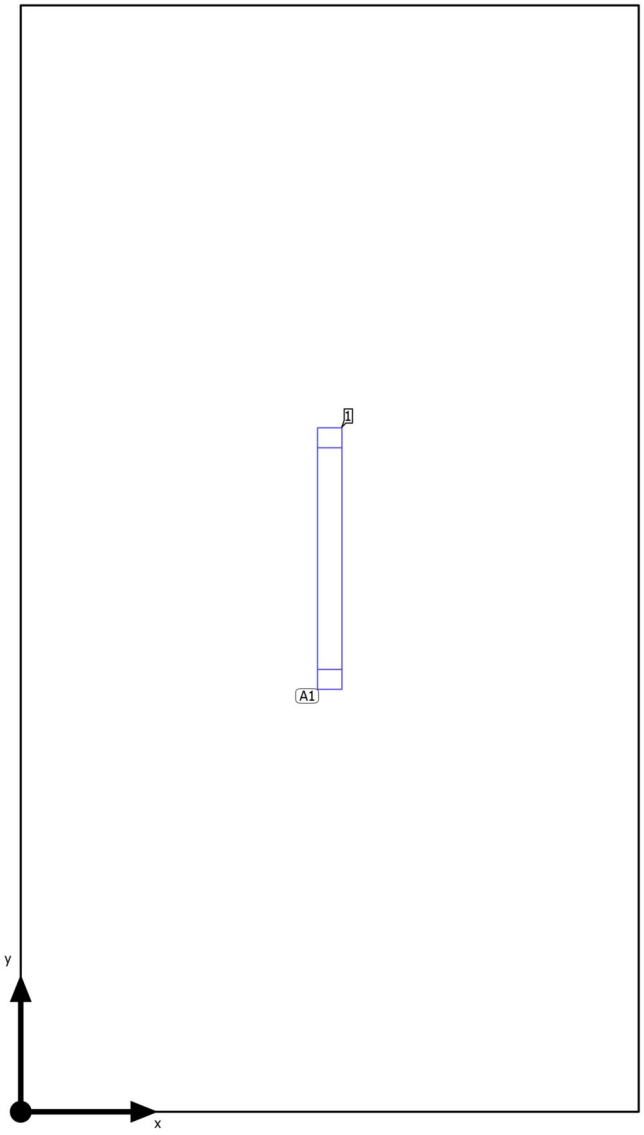
Utilisation profile: General areas inside buildings - Store rooms, cold stores (12.1 Store and stockrooms)

Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
1	LEDVANCE	40580757 40853	DP COMP 600 V 16W 840 IP66	16.0 W	1920 lm	120.0 lm/W

Building 1 · Storey 1 · Room 7

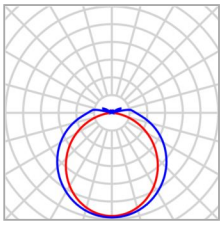
Luminaire layout plan



Building 1 · Storey 1 · Room 7

Luminaire layout plan





Manufacturer	LEDVANCE	P	16.0 W
Article No.	4058075740853	$\Phi_{Luminaire}$	1920 lm
Article name	DP COMP 600 V 16W 840 IP66		
Fitting	1x LED 4000K / CRI >= 80		

1 x LEDVANCE DP COMP 600 V 16W 840 IP66

Type	Line arrangement
1st luminaire (X/Y/Z)	0.760 m / 1.360 m / 3.000 m
X-direction	1 pcs., Centre - centre, 2.720 m
Arrangement	A1

X	Y	Mounting height	Luminaire
0.760 m	1.360 m	3.000 m	1

Building 1 · Storey 1 · Room 8 (Light scene 1)

Summary



Ground area	12.15 m²	Clearance height	3.000 m
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %	Mounting height	3.000 m
		Height Working plane	0.800 m
Maintenance factor	0.80 (fixed)	Wall zone Working plane	0.000 m

Building 1 · Storey 1 · Room 8 (Light scene 1)

Summary

Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{perpendicular}$	167 lx	≥ 100 lx	✓	WP7
	U_o (g_1)	0.47	–		WP7
Energy estimation(2)	Consumption	53.9 kWh/a	max. 450 kWh/a	✓	
Space	Lighting power density	2.31 W/m²	–		
		1.38 W/m²/100 lx	–		

(2) Calculated using DIN:18599-4.

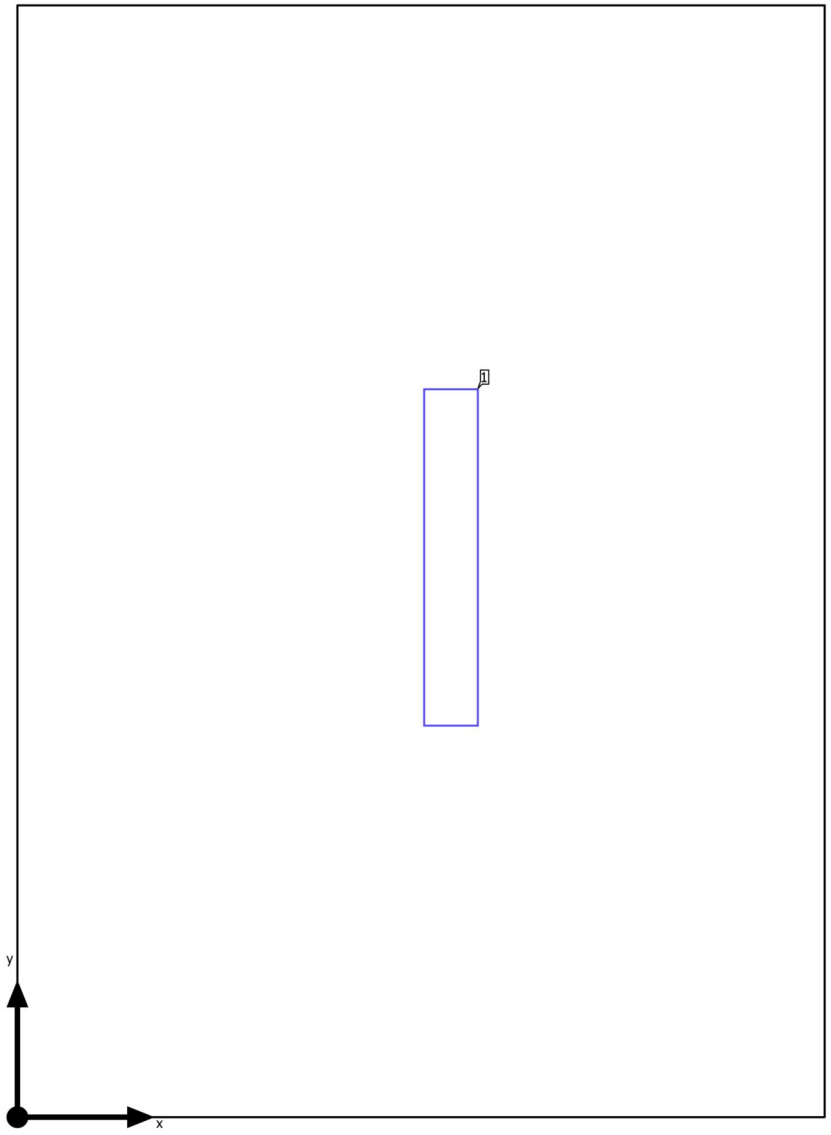
Utilisation profile: General areas inside buildings - Rest, sanitation and first aid rooms (10.2 Rest rooms)

Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
1	LUXIONA	19.4204.34 21.34	PRISON LED 5200 PC E 34 IP65 830 / 1240X200MM	28.0 W	3940 lm	140.7 lm/W

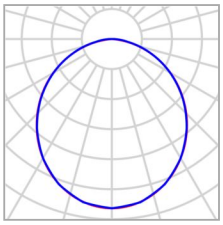
Building 1 · Storey 1 · Room 8

Luminaire layout plan



Building 1 · Storey 1 · Room 8

Luminaire layout plan



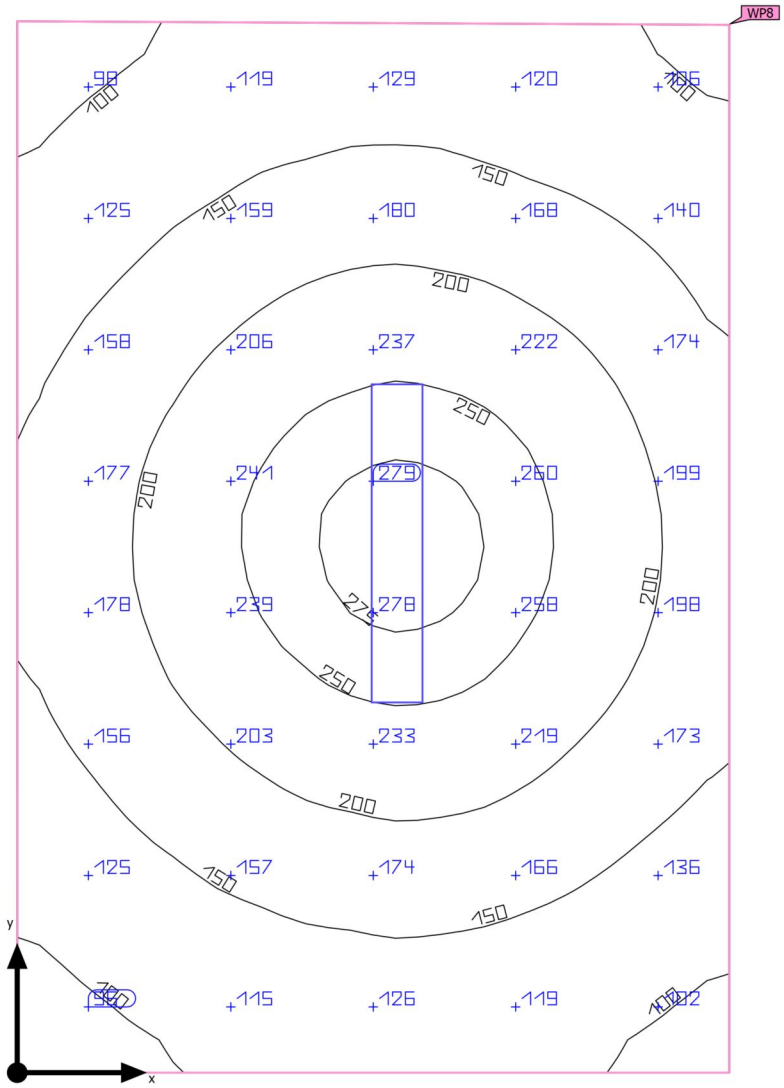
Manufacturer	LUXIONA	P	28.0 W
Article No.	19.4204.3421.34	$\Phi_{Luminaire}$	3940 lm
Article name	PRISON LED 5200 PC E 34 IP65 830 / 1240X200MM		
Fitting	4x cree_5200lm_840		

Individual luminaires

X	Y	Mounting height	Luminaire
1.595 m	2.059 m	3.000 m	1

Building 1 · Storey 1 · Room 9 (Light scene 1)

Summary



Ground area	11.31 m²	Clearance height	3.000 m
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %	Mounting height	3.000 m
		Height Working plane	0.800 m
Maintenance factor	0.80 (fixed)	Wall zone Working plane	0.000 m

Building 1 · Storey 1 · Room 9 (Light scene 1)

Summary

Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{perpendicular}$	173 lx	≥ 100 lx	✓	WP8
	U_o (g_1)	0.47	–		WP8
Energy estimation(2)	Consumption	53.9 kWh/a	max. 400 kWh/a	✓	
Space	Lighting power density	2.48 W/m²	–		
		1.43 W/m²/100 lx	–		

(2) Calculated using DIN:18599-4.

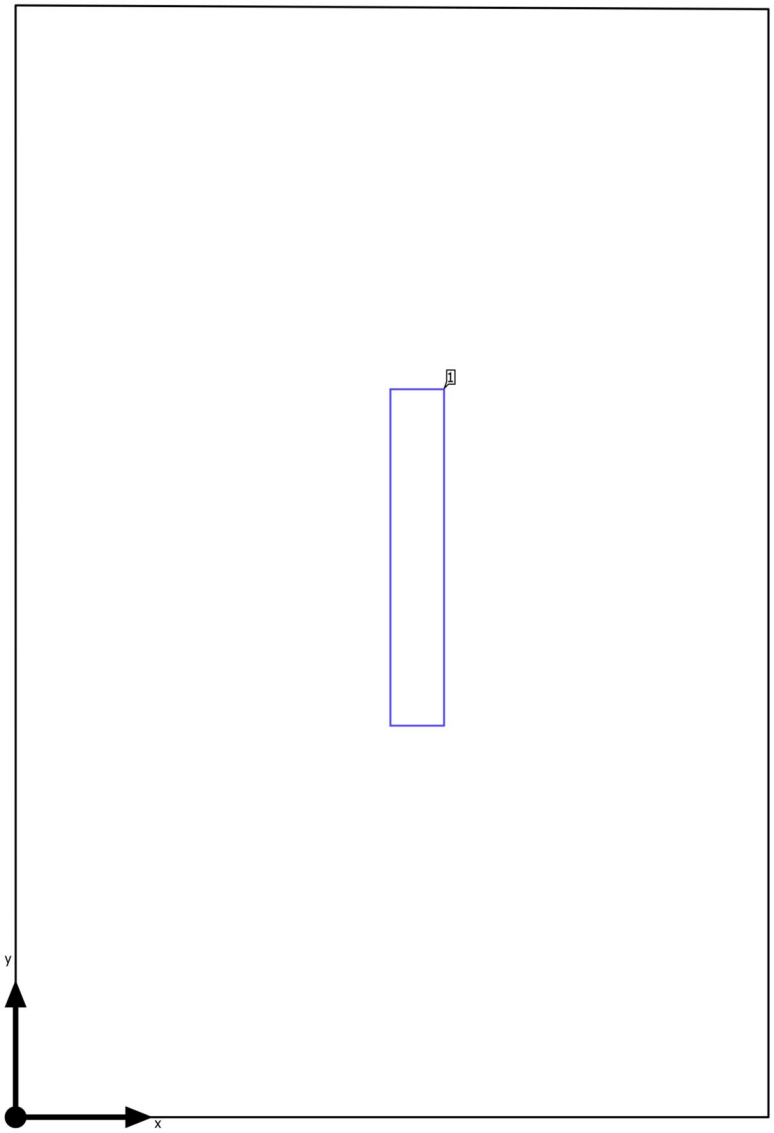
Utilisation profile: General areas inside buildings - Rest, sanitation and first aid rooms (10.2 Rest rooms)

Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
1	LUXIONA	19.4204.34 21.34	PRISON LED 5200 PC E 34 IP65 830 / 1240X200MM	28.0 W	3940 lm	140.7 lm/W

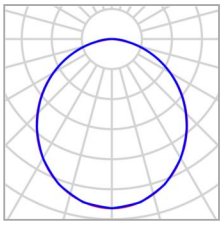
Building 1 · Storey 1 · Room 9

Luminaire layout plan



Building 1 · Storey 1 · Room 9

Luminaire layout plan



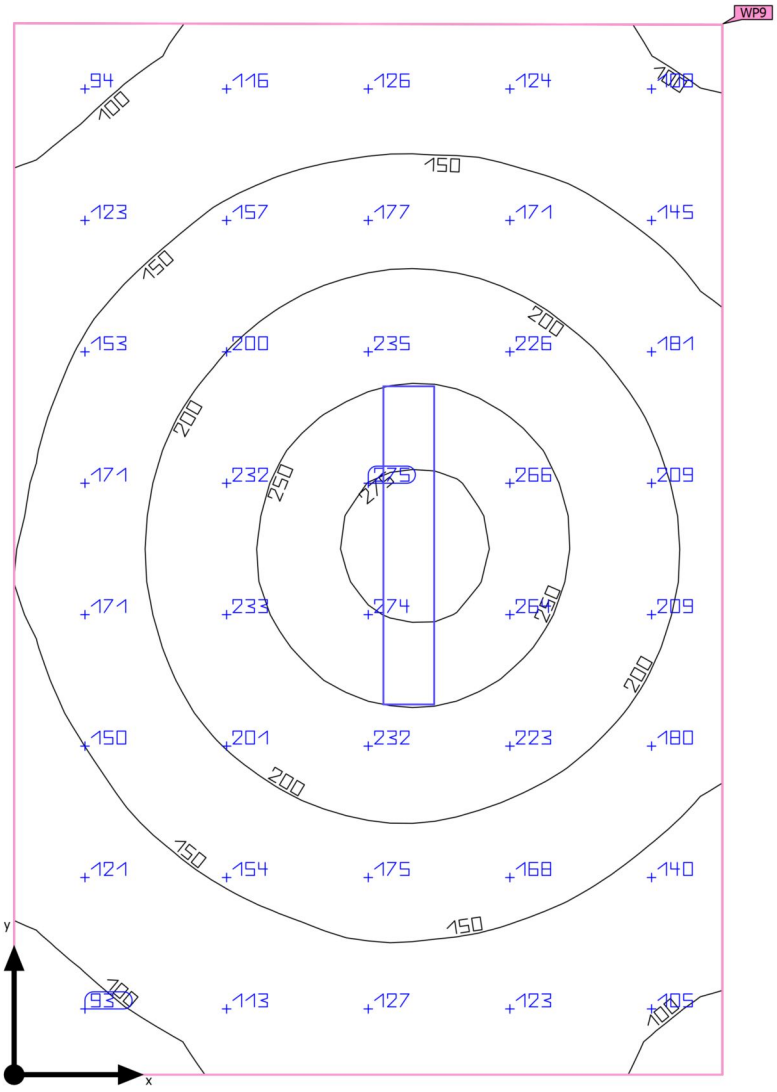
Manufacturer	LUXIONA	P	28.0 W
Article No.	19.4204.3421.34	$\Phi_{Luminaire}$	3940 lm
Article name	PRISON LED 5200 PC E 34 IP65 830 / 1240X200MM		
Fitting	4x cree_5200lm_840		

Individual luminaires

X	Y	Mounting height	Luminaire
1.478 m	2.059 m	3.000 m	1

Building 1 · Storey 1 · Room 10 (Light scene 1)

Summary



Ground area	11.26 m²	Clearance height	3.000 m
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %	Mounting height	3.000 m
		Height Working plane	0.800 m
Maintenance factor	0.80 (fixed)	Wall zone Working plane	0.000 m

Building 1 · Storey 1 · Room 10 (Light scene 1)

Summary

Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{perpendicular}$	173 lx	≥ 100 lx	✓	WP9
	U_o (g_1)	0.47	–		WP9
Energy estimation(2)	Consumption	53.9 kWh/a	max. 400 kWh/a	✓	
Space	Lighting power density	2.49 W/m²	–		
		1.44 W/m²/100 lx	–		

(2) Calculated using DIN:18599-4.

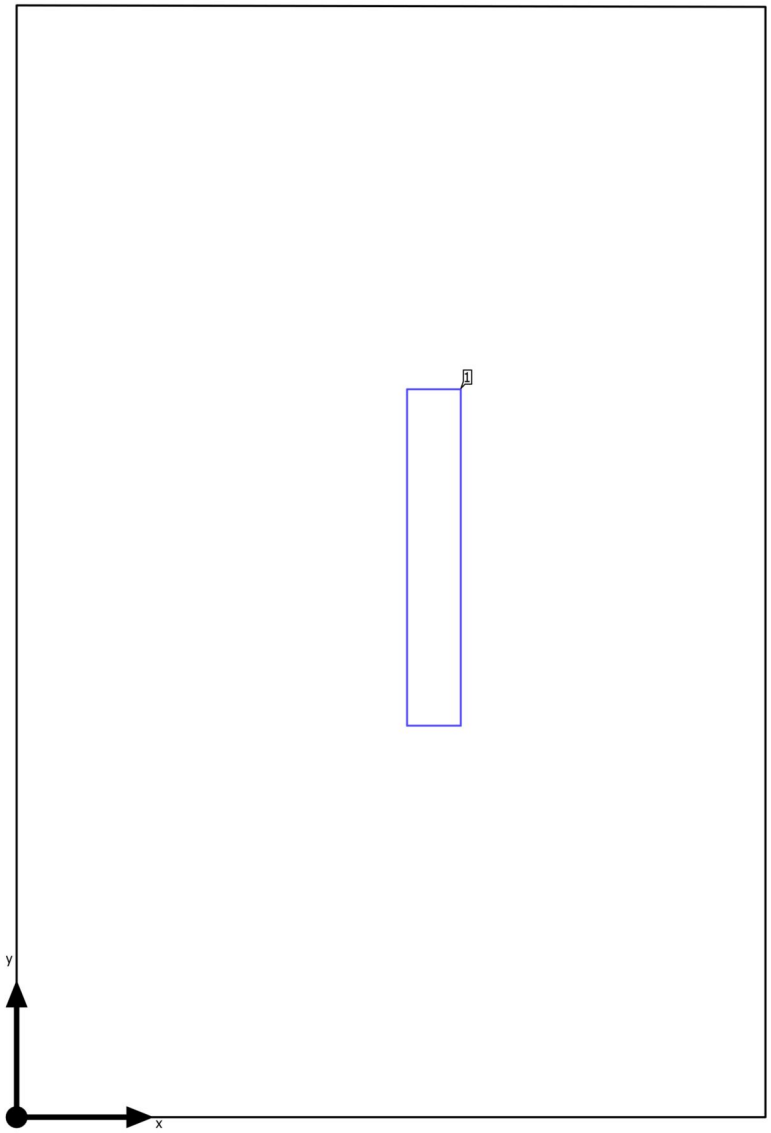
Utilisation profile: General areas inside buildings - Rest, sanitation and first aid rooms (10.2 Rest rooms)

Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
1	LUXIONA	19.4204.34 21.34	PRISON LED 5200 PC E 34 IP65 830 / 1240X200MM	28.0 W	3940 lm	140.7 lm/W

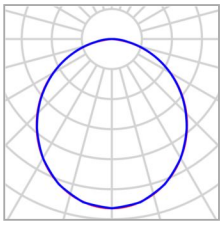
Building 1 · Storey 1 · Room 10

Luminaire layout plan



Building 1 · Storey 1 · Room 10

Luminaire layout plan



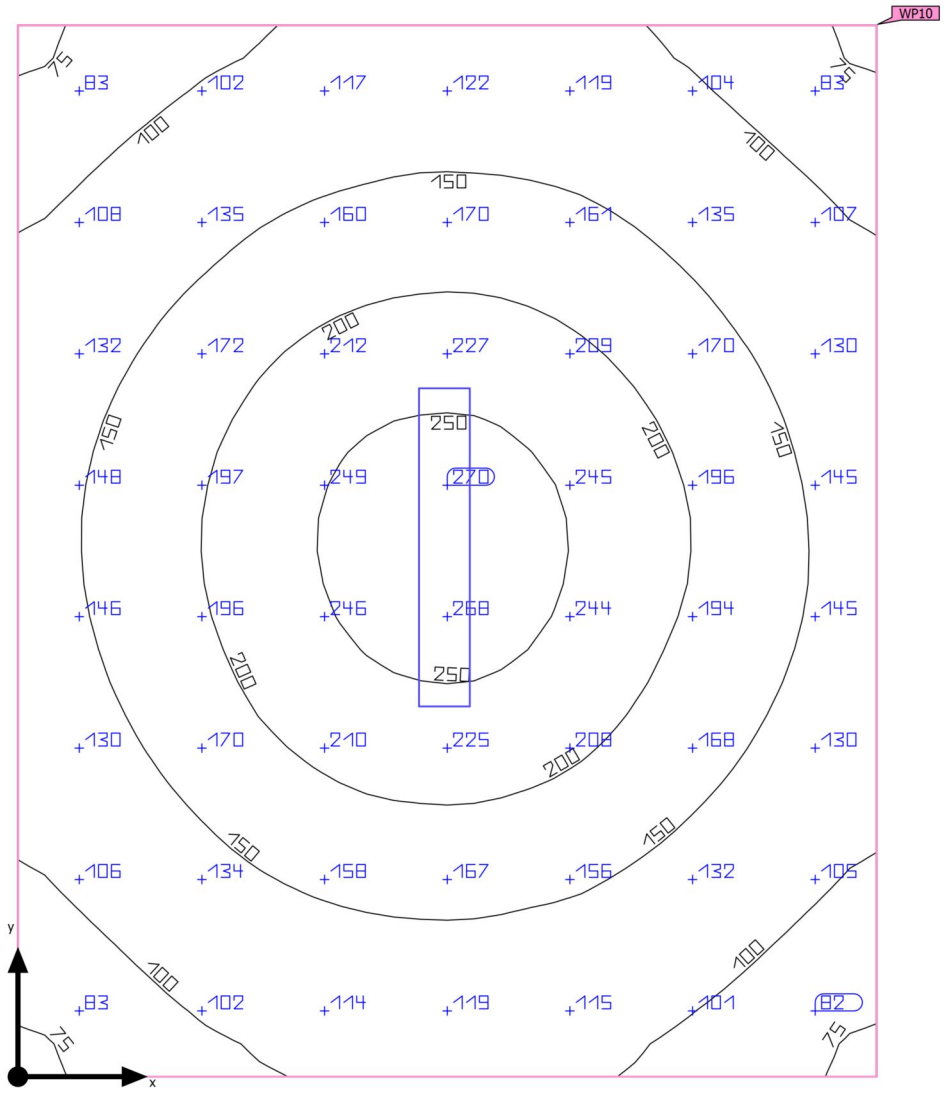
Manufacturer	LUXIONA	P	28.0 W
Article No.	19.4204.3421.34	$\Phi_{Luminaire}$	3940 lm
Article name	PRISON LED 5200 PC E 34 IP65 830 / 1240X200MM		
Fitting	4x cree_5200lm_840		

Individual luminaires

X	Y	Mounting height	Luminaire
1.535 m	2.059 m	3.000 m	1

Building 1 · Storey 1 · Room 11 (Light scene 1)

Summary



Ground area	13.66 m²	Clearance height	3.000 m
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %	Mounting height	3.000 m
		Height Working plane	0.800 m
Maintenance factor	0.80 (fixed)	Wall zone Working plane	0.000 m

Building 1 · Storey 1 · Room 11 (Light scene 1)

Summary

Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{perpendicular}$	156 lx	≥ 100 lx	✓	WP10
	U_o (g_1)	0.46	–		WP10
Energy estimation(2)	Consumption	53.9 kWh/a	max. 500 kWh/a	✓	
Space	Lighting power density	2.05 W/m²	–		
		1.31 W/m²/100 lx	–		

(2) Calculated using DIN:18599-4.

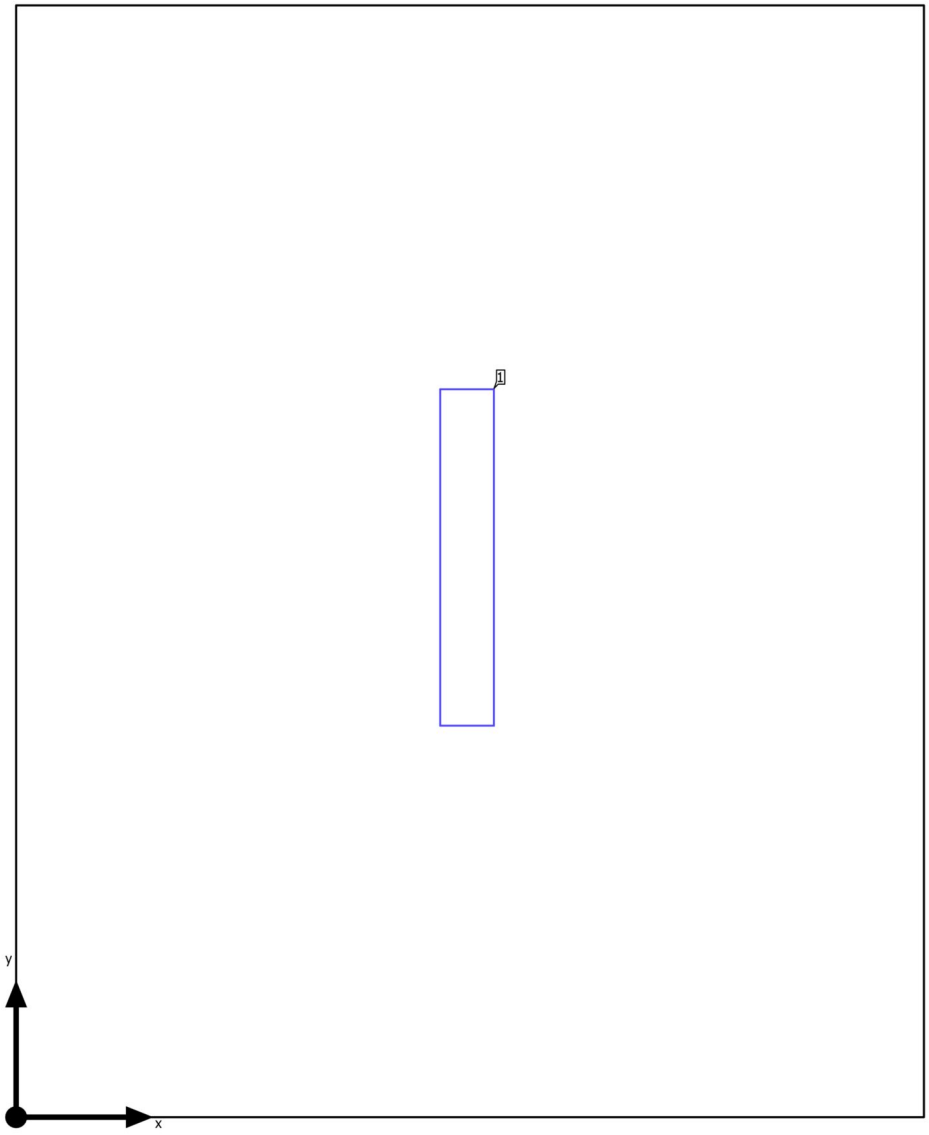
Utilisation profile: General areas inside buildings - Rest, sanitation and first aid rooms (10.2 Rest rooms)

Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
1	LUXIONA	19.4204.34 21.34	PRISON LED 5200 PC E 34 IP65 830 / 1240X200MM	28.0 W	3940 lm	140.7 lm/W

Building 1 · Storey 1 · Room 11

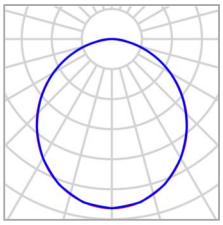
Luminaire layout plan



Building 1 · Storey 1 · Room 11

Luminaire layout plan





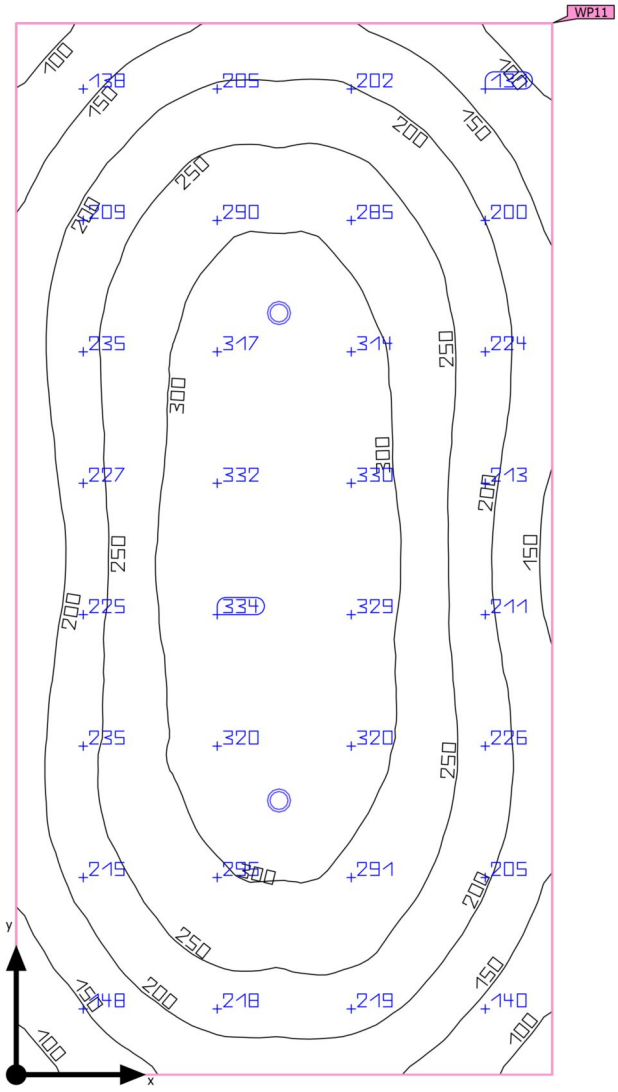
Manufacturer	LUXIONA	P	28.0 W
Article No.	19.4204.3421.34	$\Phi_{Luminaire}$	3940 lm
Article name	PRISON LED 5200 PC E 34 IP65 830 / 1240X200MM		
Fitting	4x cree_5200lm_840		

Individual luminaires

X	Y	Mounting height	Luminaire
1.659 m	2.059 m	3.000 m	1

Building 1 · Storey 1 · Room 12 (Light scene 1)

Summary



Ground area	8.53 m²	Clearance height	3.000 m
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %	Mounting height	3.000 m
		Height Working plane	0.800 m
Maintenance factor	0.80 (fixed)	Wall zone Working plane	0.000 m

Building 1 · Storey 1 · Room 12 (Light scene 1)

Summary

Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{perpendicular}$	240 lx	≥ 200 lx	✓	WP11
	U_o (g_1)	0.31	–		WP11
Energy estimation(2)	Consumption	24.7 kWh/a	max. 300 kWh/a	✓	
Space	Lighting power density	3.52 W/m²	–		
		1.47 W/m²/100 lx	–		

(2) Calculated using DIN:18599-4.

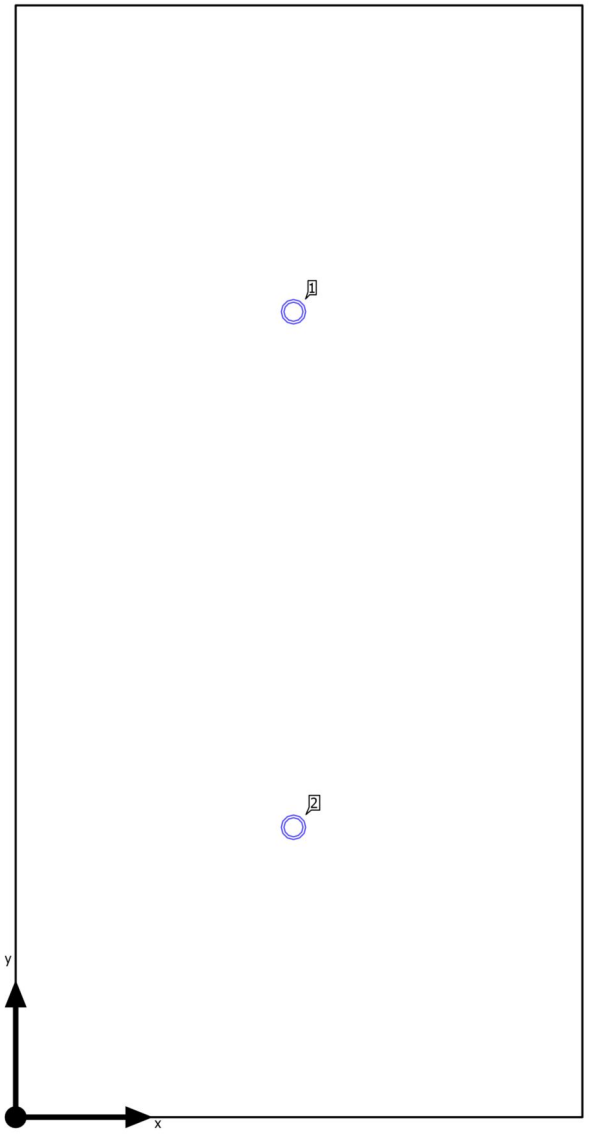
Utilisation profile: General areas inside buildings - Rest, sanitation and first aid rooms (10.4 Cloakrooms, washrooms, bathrooms, toilets)

Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
2	LEDVANCE	40580757 68963	DL SURFACE DN 90 P 15W 830 60D IP65 WT	15.0 W	1575 lm	105.0 lm/W

Building 1 · Storey 1 · Room 12

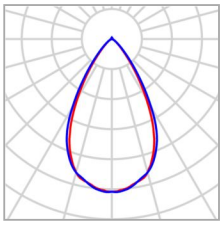
Luminaire layout plan



Building 1 · Storey 1 · Room 12

Luminaire layout plan





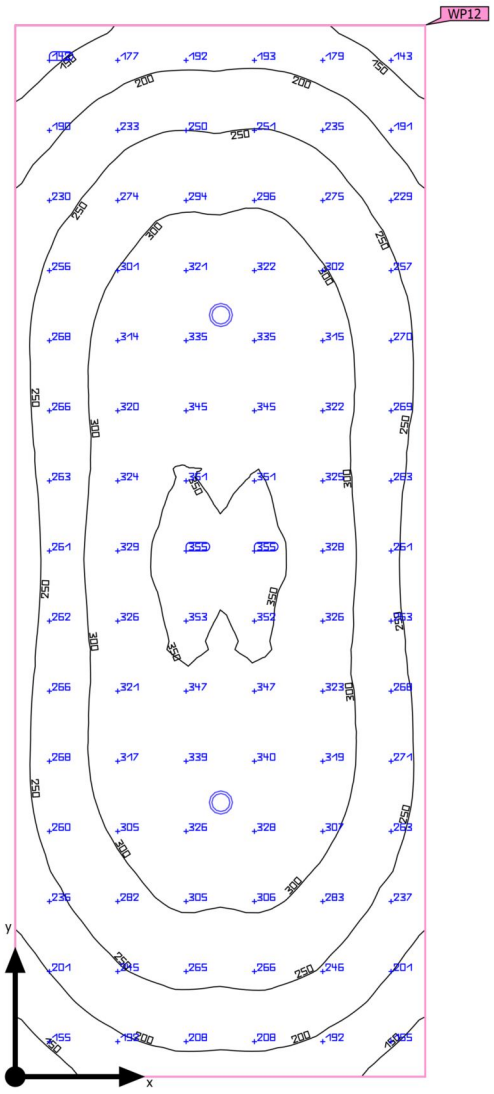
Manufacturer	LEDVANCE	P	15.0 W
Article No.	4058075768963	$\Phi_{Luminaire}$	1575 lm
Article name	DL SURFACE DN 90 P 15W 830 60D IP65 WT		
Fitting	1x LED / CRI >= 80		

Individual luminaires

X	Y	Mounting height	Luminaire
1.022 m	2.963 m	3.000 m	1
1.022 m	1.067 m	3.000 m	2

Building 1 · Storey 1 · Room 13 (Light scene 1)

Summary



Ground area	6.52 m²	Clearance height	3.000 m
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %	Mounting height	3.000 m
		Height Working plane	0.800 m
Maintenance factor	0.80 (fixed)	Wall zone Working plane	0.000 m

Building 1 · Storey 1 · Room 13 (Light scene 1)

Summary

Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{perpendicular}$	274 lx	≥ 200 lx	✓	WP12
	U_o (g_1)	0.40	–		WP12
Energy estimation(2)	Consumption	24.7 kWh/a	max. 250 kWh/a	✓	
Space	Lighting power density	4.60 W/m²	–		
		1.68 W/m²/100 lx	–		

(2) Calculated using DIN:18599-4.

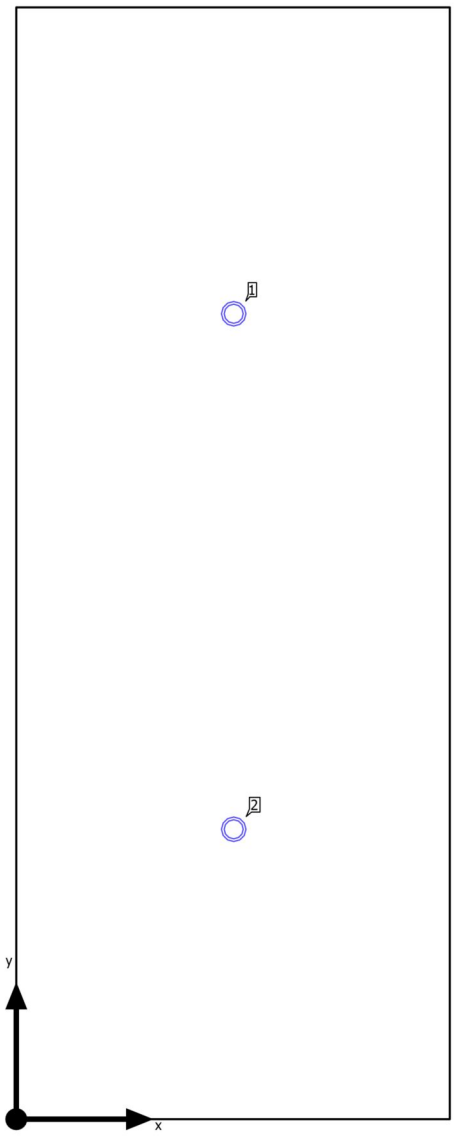
Utilisation profile: General areas inside buildings - Rest, sanitation and first aid rooms (10.4 Cloakrooms, washrooms, bathrooms, toilets)

Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
2	LEDVANCE	40580757 68963	DL SURFACE DN 90 P 15W 830 60D IP65 WT	15.0 W	1575 lm	105.0 lm/W

Building 1 · Storey 1 · Room 13

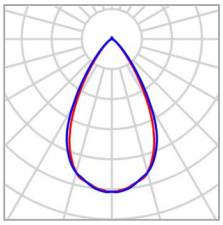
Luminaire layout plan



Building 1 · Storey 1 · Room 13

Luminaire layout plan





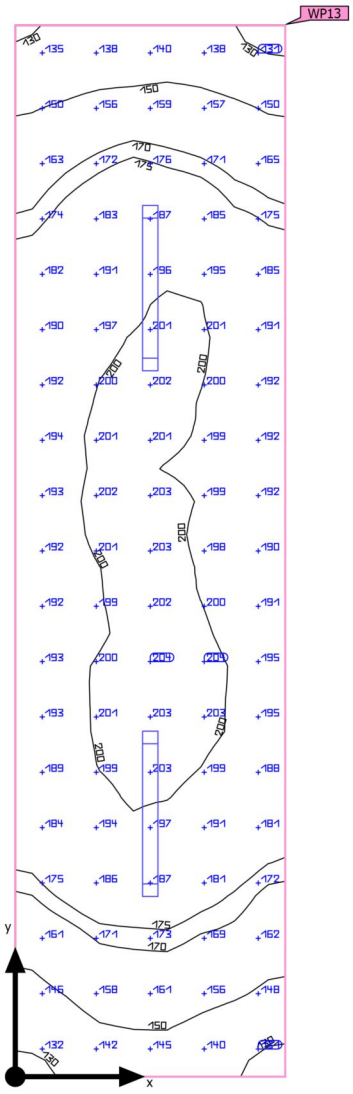
Manufacturer	LEDVANCE	P	15.0 W
Article No.	4058075768963	$\Phi_{Luminaire}$	1575 lm
Article name	DL SURFACE DN 90 P 15W 830 60D IP65 WT		
Fitting	1x LED / CRI >= 80		

Individual luminaires

X	Y	Mounting height	Luminaire
0.800 m	2.963 m	3.000 m	1
0.800 m	1.067 m	3.000 m	2

Building 1 · Storey 1 · Room 14 (Light scene 1)

Summary



Ground area	4.29 m²	Clearance height	3.000 m
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %	Mounting height	3.000 m
		Height Working plane	0.800 m
Maintenance factor	0.80 (fixed)	Wall zone Working plane	0.000 m

Building 1 · Storey 1 · Room 14 (Light scene 1)

Summary

Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{perpendicular}$	181 lx	≥ 100 lx	✓	WP13
	U_o (g_1)	0.70	–		WP13
Energy estimation(2)	Consumption	79.2 kWh/a	max. 200 kWh/a	✓	
Space	Lighting power density	7.45 W/m²	–		
		4.12 W/m²/100 lx	–		

(2) Calculated using DIN:18599-4.

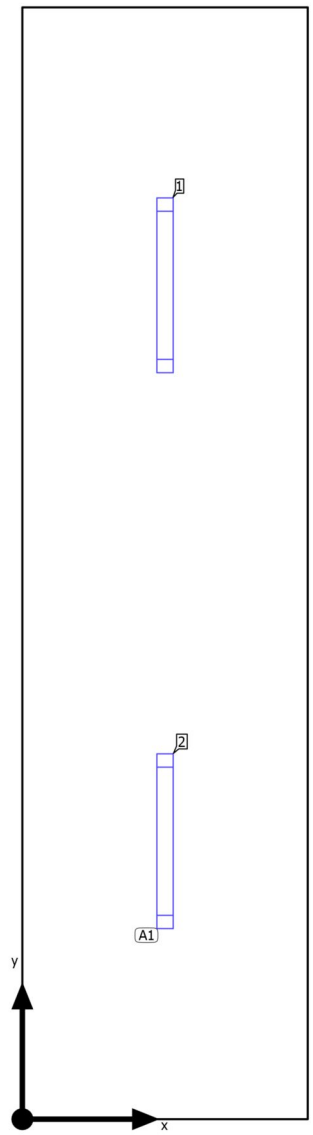
Utilisation profile: General areas inside buildings - Store rooms, cold stores (12.1 Store and stockrooms)

Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
2	LEDVANCE	40580757 40853	DP COMP 600 V 16W 840 IP66	16.0 W	1920 lm	120.0 lm/W

Building 1 · Storey 1 · Room 14

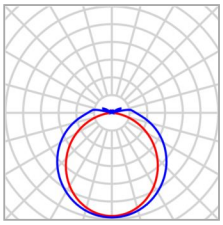
Luminaire layout plan



Building 1 · Storey 1 · Room 14

Luminaire layout plan





Manufacturer	LEDVANCE	P	16.0 W
Article No.	4058075740853	$\Phi_{Luminaire}$	1920 lm
Article name	DP COMP 600 V 16W 840 IP66		
Fitting	1x LED 4000K / CRI >= 80		

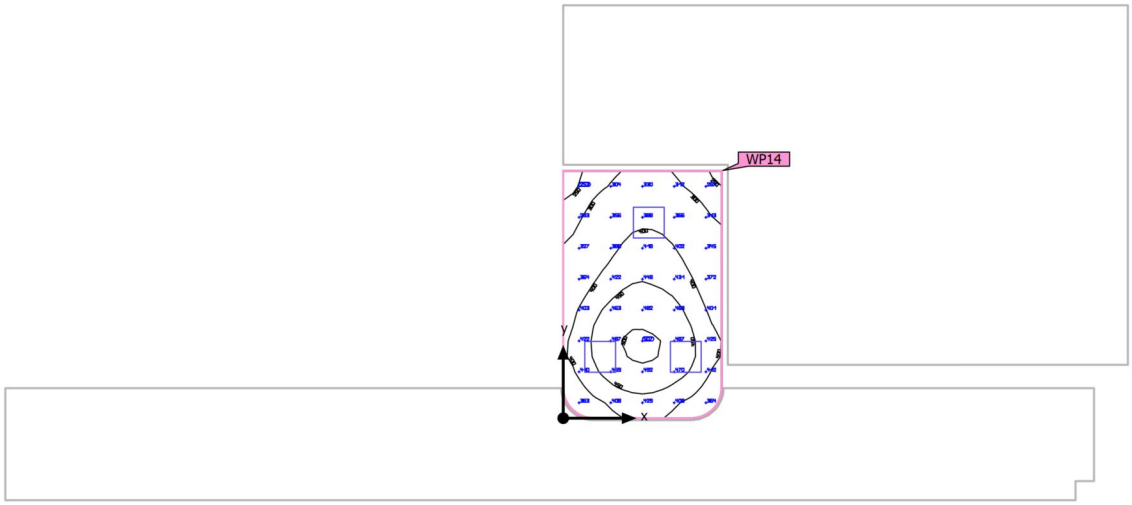
2 x LEDVANCE DP COMP 600 V 16W 840 IP66

Type	Line arrangement
1st luminaire (X/Y/Z)	0.525 m / 3.067 m / 3.000 m
X-direction	2 pcs., Centre - centre, 2.045 m
Arrangement	A1

X	Y	Mounting height	Luminaire
0.525 m	3.067 m	3.000 m	1
0.525 m	1.022 m	3.000 m	2

Building 1 · Storey 1 · Room 15 (Light scene 1)

Summary



Ground area	10.23 m²	Clearance height	3.000 m
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %	Mounting height	3.000 m
		Height Working plane	0.800 m
Maintenance factor	0.80 (fixed)	Wall zone Working plane	0.000 m

Building 1 · Storey 1 · Room 15 (Light scene 1)

Summary

Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{perpendicular}$	396 lx	≥ 200 lx	✓	WP14
	U_o (g_1)	0.56	–		WP14
Energy estimation(2)	Consumption	13.4 kWh/a	max. 400 kWh/a	✓	
Space	Lighting power density	7.92 W/m²	–		
		2.00 W/m²/100 lx	–		

(2) Calculated using DIN:18599-4.

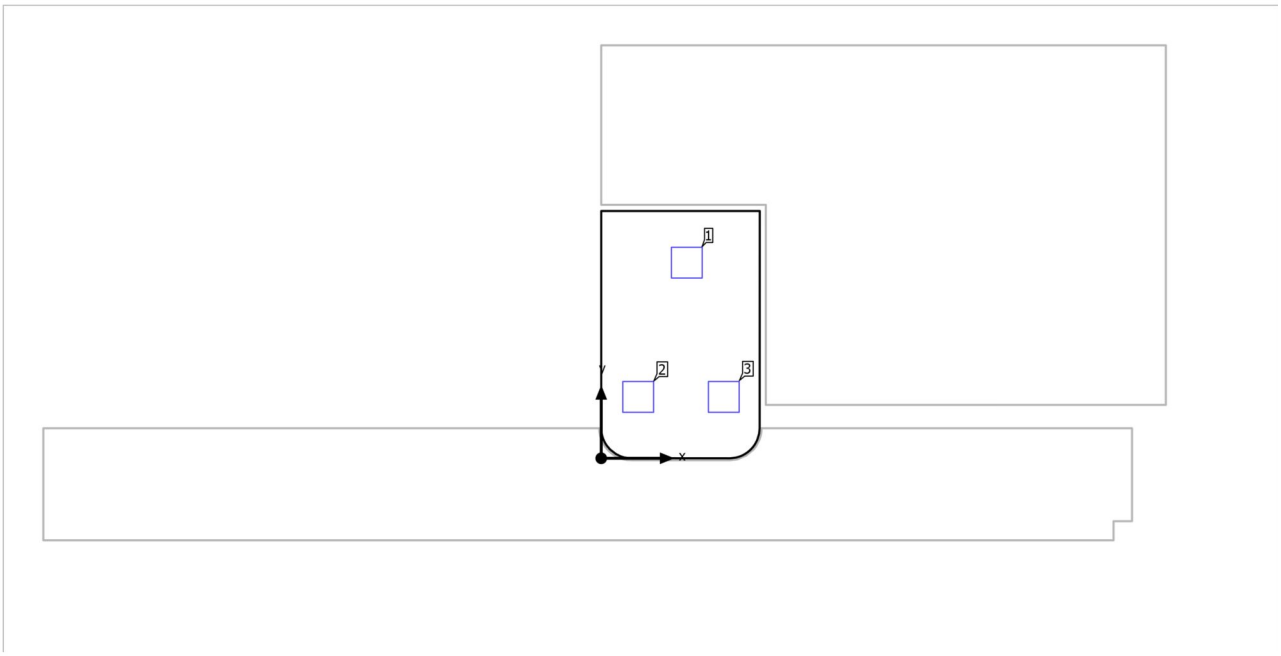
Utilisation profile: General areas inside buildings - Control rooms (11.1 Plant rooms, switchgear rooms)

Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
3	LEDVANCE	4099854292675	SF FLAT SQ 500 P 27W CPS	27.0 W	3599 lm	133.3 lm/W

Building 1 · Storey 1 · Room 15

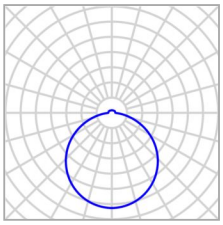
Luminaire layout plan



Building 1 · Storey 1 · Room 15

Luminaire layout plan





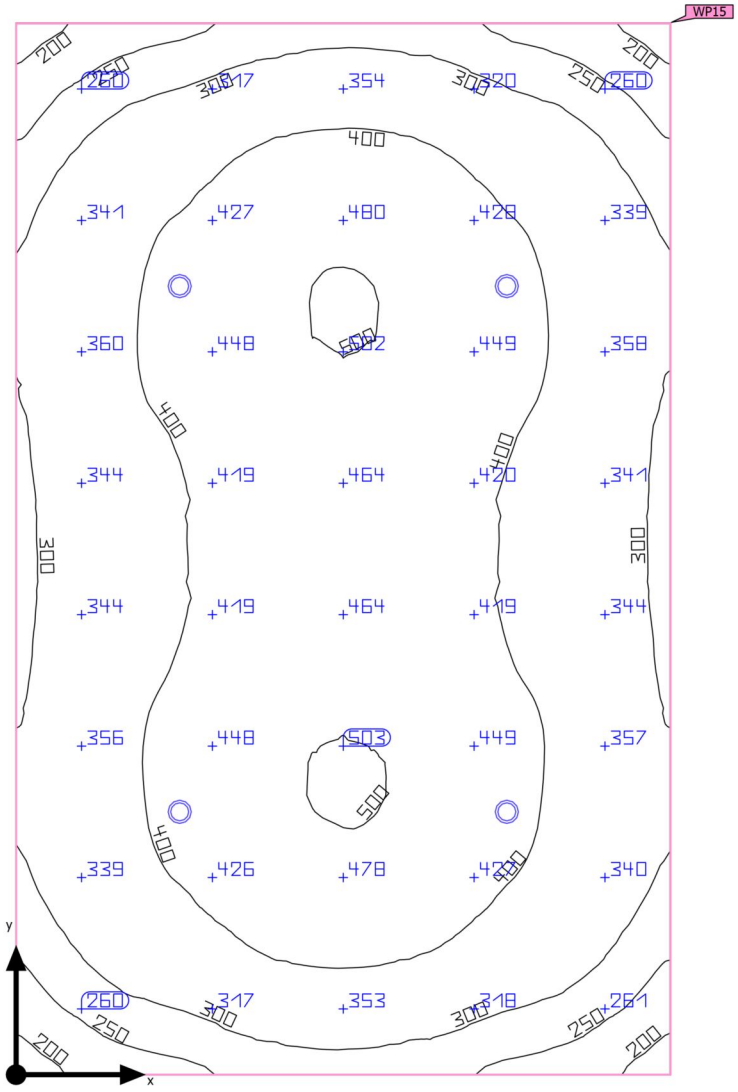
Manufacturer	LEDVANCE	P	27.0 W
Article No.	4099854292675	$\Phi_{Luminaire}$	3599 lm
Article name	SF FLAT SQ 500 P 27W CPS		
Fitting	1x LED 3000K / CRI >= 80		

Individual luminaires

X	Y	Mounting height	Luminaire
1.390 m	3.178 m	3.000 m	1
0.600 m	0.997 m	3.000 m	2
1.990 m	0.997 m	3.000 m	3

Building 1 · Storey 1 · Room 16 (Light scene 1)

Summary



Ground area	10.41 m²	Clearance height	3.000 m
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %	Mounting height	3.000 m
		Height Working plane	0.800 m
Maintenance factor	0.80 (fixed)	Wall zone Working plane	0.000 m

Building 1 · Storey 1 · Room 16 (Light scene 1)

Summary

Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{perpendicular}$	377 lx	≥ 200 lx	✓	WP15
	U_o (g_1)	0.46	–		WP15
Energy estimation(2)	Consumption	49.5 kWh/a	max. 400 kWh/a	✓	
Space	Lighting power density	5.76 W/m²	–		
		1.53 W/m²/100 lx	–		

(2) Calculated using DIN:18599-4.

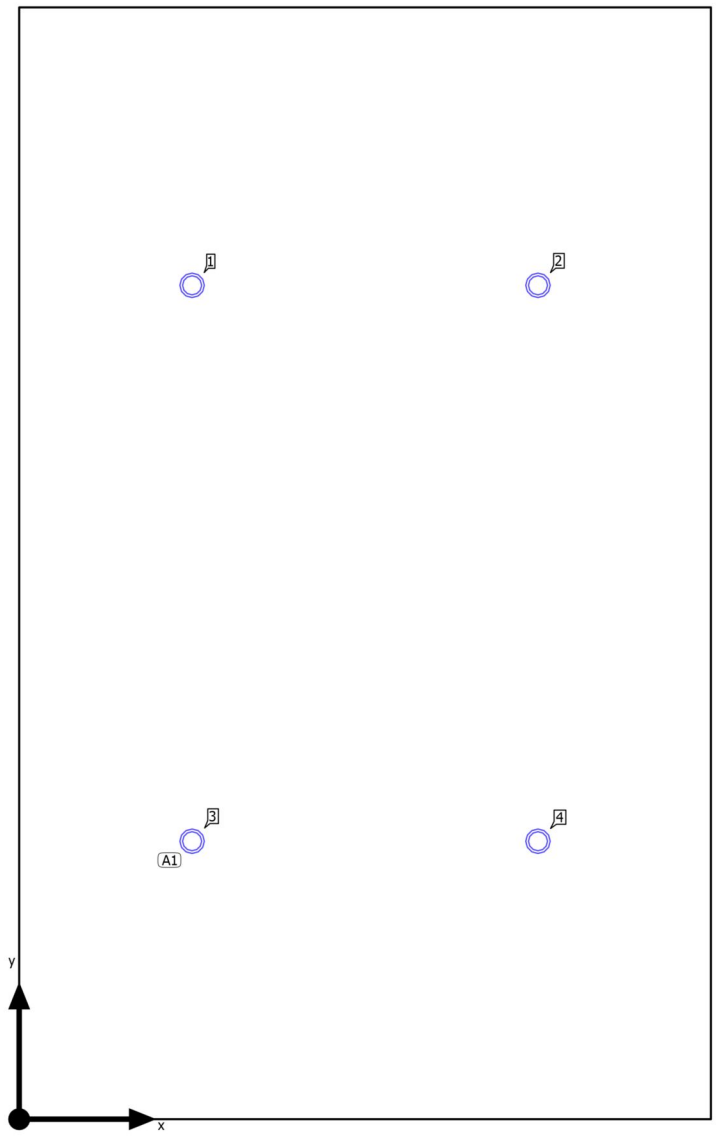
Utilisation profile: General areas inside buildings - Rest, sanitation and first aid rooms (10.4 Cloakrooms, washrooms, bathrooms, toilets)

Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
4	LEDVANCE	40580757 68963	DL SURFACE DN 90 P 15W 830 60D IP65 WT	15.0 W	1575 lm	105.0 lm/W

Building 1 · Storey 1 · Room 16

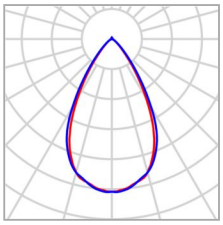
Luminaire layout plan



Building 1 · Storey 1 · Room 16

Luminaire layout plan





Manufacturer	LEDVANCE	P	15.0 W
Article No.	4058075768963	$\Phi_{Luminaire}$	1575 lm
Article name	DL SURFACE DN 90 P 15W 830 60D IP65 WT		
Fitting	1x LED / CRI >= 80		

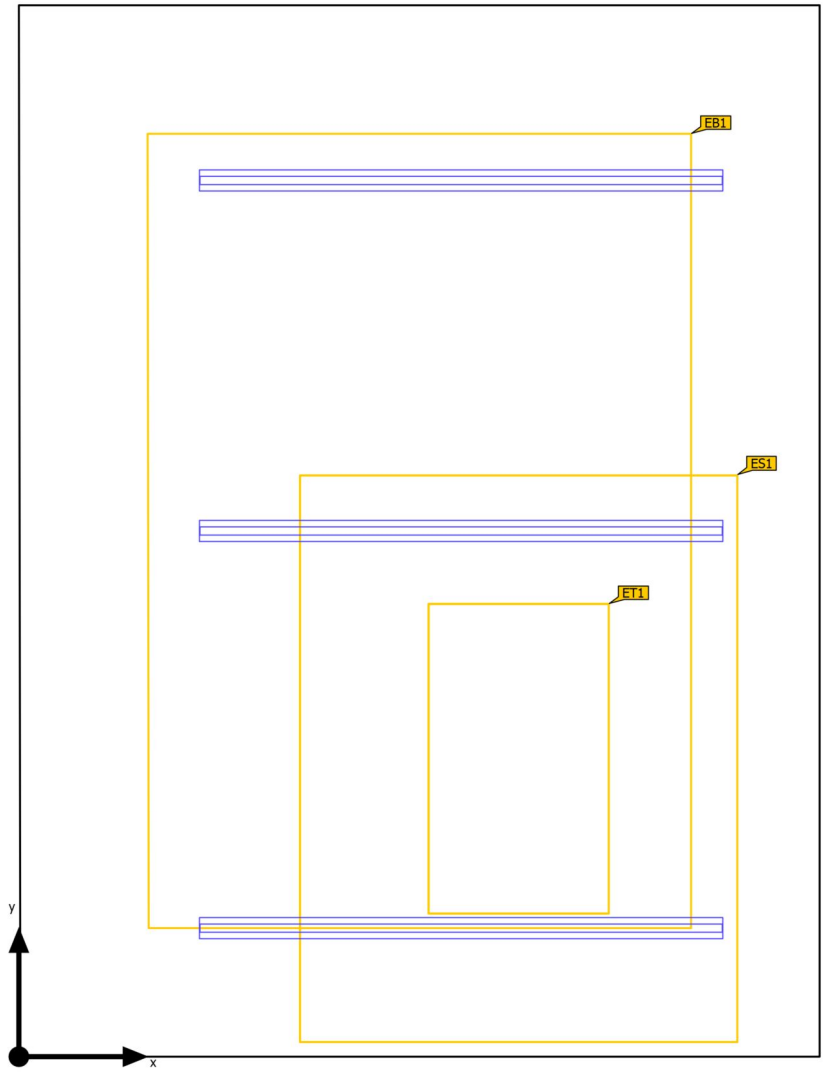
4 x LEDVANCE DL SURFACE DN 90 P 15W 830 60D IP65 WT

Type	Field Arrangement
1st luminaire (X/Y/Z)	0.636 m / 1.022 m / 3.000 m
X-direction	2 pcs., Centre - centre, 1.273 m
Y-direction	2 pcs., Centre - centre, 2.045 m
Arrangement	A1

X	Y	Mounting height	Luminaire
0.636 m	3.067 m	3.000 m	1
1.909 m	3.067 m	3.000 m	2
0.636 m	1.022 m	3.000 m	3
1.909 m	1.022 m	3.000 m	4

Building 1 · Storey 1 · Room 17 (Light scene 1)

Summary



Ground area	12.73 m²
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %
Maintenance factor	0.80 (fixed)

Clearance height	3.000 m
Mounting height	2.500 m

Building 1 · Storey 1 · Room 17 (Light scene 1)

Summary

Results

	Symbol	Calculated	Target	Check	Index
Visual task areas	$\bar{E}$ Task Area	694 lx	≥ 500 lx	✓	ET1
	U_o (g_1) Task Area	0.94	≥ 0.60	✓	ET1
	$\bar{E}$ Surrounding area	653 lx	≥ 300 lx	✓	ES1
	U_o (g_1) Surrounding area	0.76	≥ 0.40	✓	ES1
	$\bar{E}$ Background area	476 lx	≥ 100 lx	✓	EB1
	U_o (g_1) Background area	0.85	≥ 0.10	✓	EB1
Energy estimation(2)	Consumption	342 kWh/a	max. 450 kWh/a	✓	
Space	Lighting power density	10.84 W/m²	–		

(2) Calculated using DIN:18599-4.

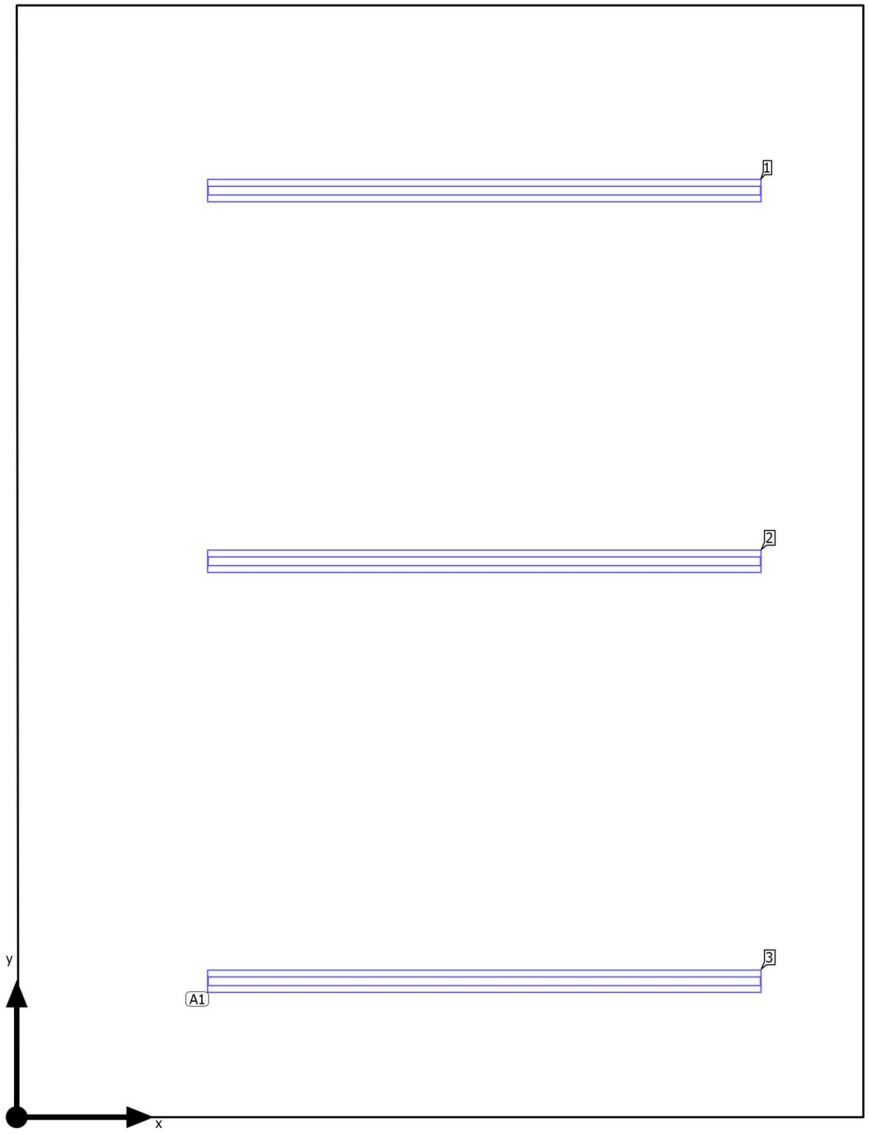
Utilisation profile: DIALux presetting (34.2 Standard (office))

Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
3	LED LUKS	O800P0O7100E8010_22T00	ORA 80 P 2036 HE 940 OP FO WHITE	46.0 W	4486 lm	97.5 lm/W

Building 1 · Storey 1 · Room 17

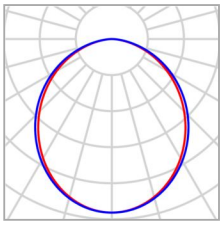
Luminaire layout plan



Building 1 · Storey 1 · Room 17

Luminaire layout plan





Manufacturer	LED LUKS
Article No.	O800P0O7100E8010 _22T00
Article name	ORA 80 P 2036 HE 940 OP FO WHITE
Fitting	1x LED

P	46.0 W
$\Phi_{Luminaire}$	4486 lm

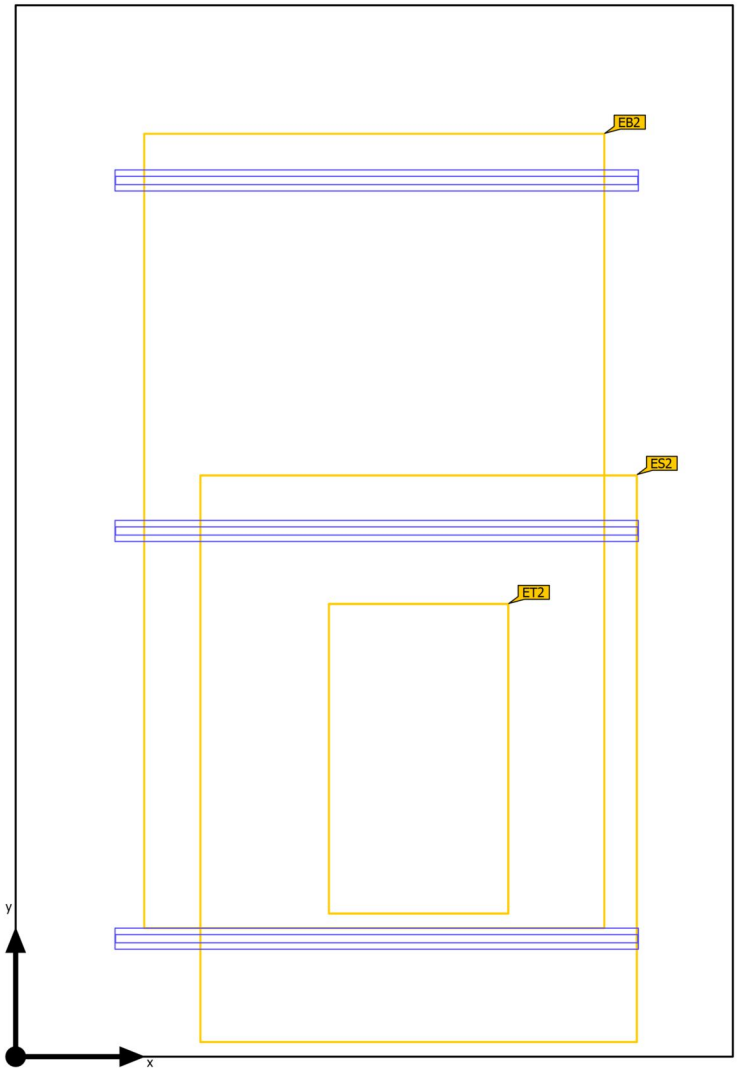
3 x LED LUKS ORA 80 P 2036 HE 940 OP FO WHITE

Type	Line arrangement
1st luminaire (X/Y/Z)	1.720 m / 3.409 m / 2.500 m
X-direction	3 pcs., Centre - centre, Distances not equal
Arrangement	A1

X	Y	Mounting height	Luminaire
1.720 m	3.409 m	2.500 m	1
1.720 m	2.045 m	2.500 m	2
1.720 m	0.500 m	2.500 m	3

Building 1 · Storey 1 · Room 18 (Light scene 1)

Summary



Ground area	11.41 m²
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %
Maintenance factor	0.80 (fixed)

Clearance height	3.000 m
Mounting height	2.500 m

Building 1 · Storey 1 · Room 18 (Light scene 1)

Summary

Results

	Symbol	Calculated	Target	Check	Index
Visual task areas	$\bar{E}$ Task Area	703 lx	≥ 500 lx	✓	ET2
	U_o (g_1) Task Area	0.96	≥ 0.60	✓	ET2
	$\bar{E}$ Surrounding area	664 lx	≥ 300 lx	✓	ES2
	U_o (g_1) Surrounding area	0.78	≥ 0.40	✓	ES2
	$\bar{E}$ Background area	509 lx	≥ 100 lx	✓	EB2
	U_o (g_1) Background area	0.92	≥ 0.10	✓	EB2
Energy estimation(2)	Consumption	342 kWh/a	max. 450 kWh/a	✓	
Space	Lighting power density	12.09 W/m²	–		

(2) Calculated using DIN:18599-4.

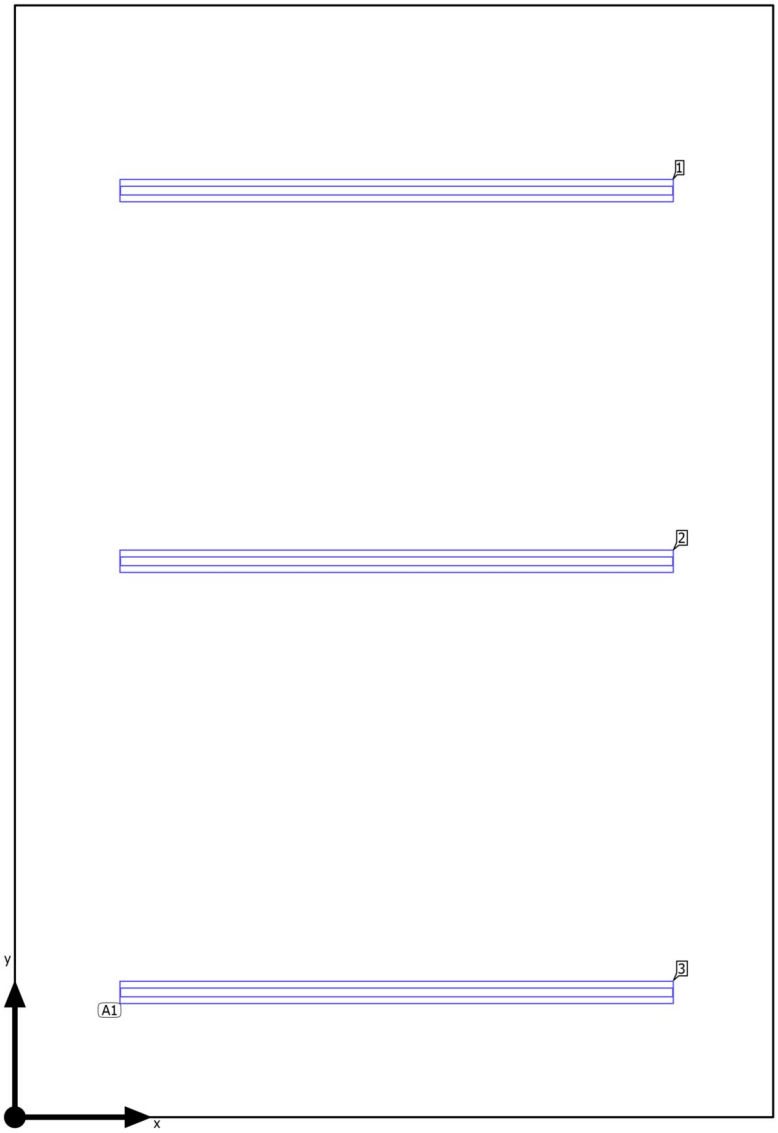
Utilisation profile: DIALux presetting (34.2 Standard (office))

Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
3	LED LUKS	O800P0O7100E8010_22T00	ORA 80 P 2036 HE 940 OP FO WHITE	46.0 W	4486 lm	97.5 lm/W

Building 1 · Storey 1 · Room 18

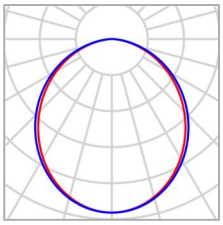
Luminaire layout plan



Building 1 · Storey 1 · Room 18

Luminaire layout plan





Manufacturer	LED LUKS
Article No.	O800P0O7100E8010 _22T00
Article name	ORA 80 P 2036 HE 940 OP FO WHITE
Fitting	1x LED

P	46.0 W
$\Phi_{Luminaire}$	4486 lm

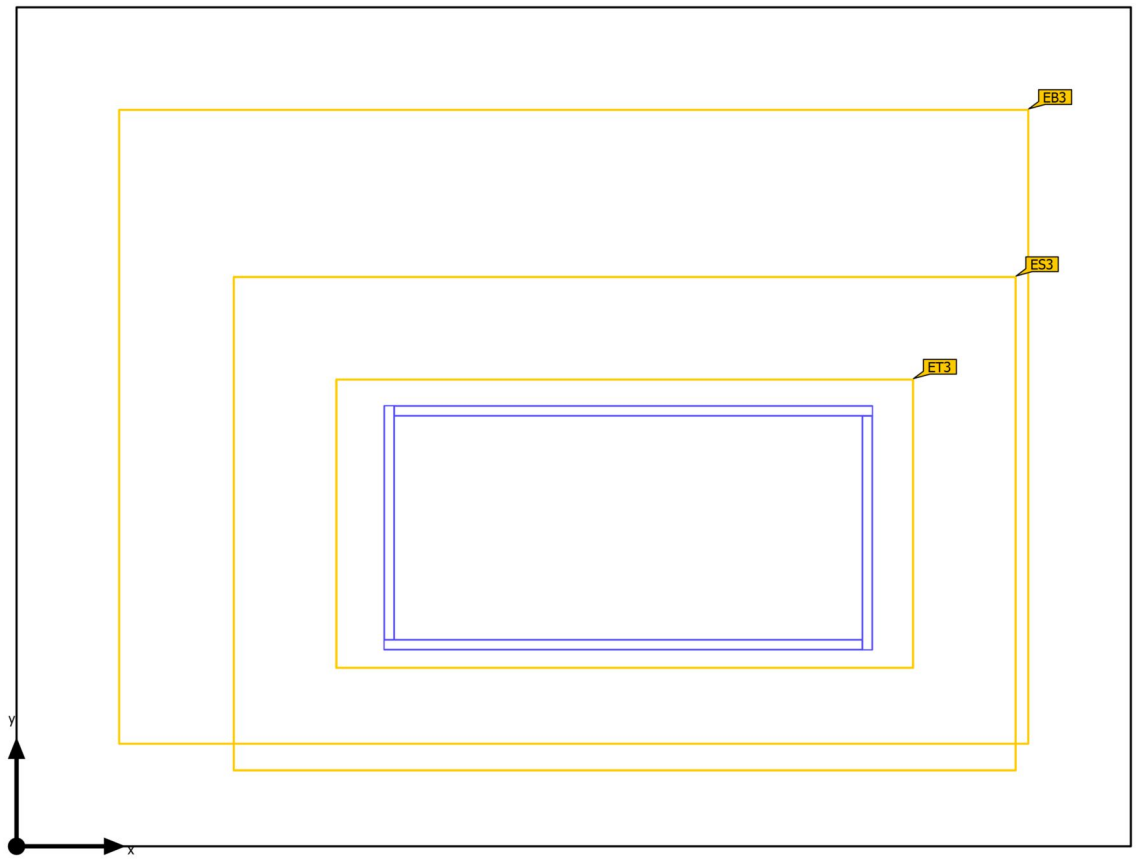
3 x LED LUKS ORA 80 P 2036 HE 940 OP FO WHITE

Type	Line arrangement
1st luminaire (X/Y/Z)	1.405 m / 3.409 m / 2.500 m
X-direction	3 pcs., Centre - centre, Distances not equal
Arrangement	A1

X	Y	Mounting height	Luminaire
1.405 m	3.409 m	2.500 m	1
1.405 m	2.045 m	2.500 m	2
1.405 m	0.459 m	2.500 m	3

Building 1 · Storey 1 · Room 19 (Light scene 1)

Summary



Ground area	22.21 m²
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %
Maintenance factor	0.80 (fixed)

Clearance height	3.000 m
Mounting height	2.700 m

Building 1 · Storey 1 · Room 19 (Light scene 1)

Summary

Results

	Symbol	Calculated	Target	Check	Index
Visual task areas	$\bar{E}$ Task Area	543 lx	≥ 500 lx	✓	ET3
	U_o (g_1) Task Area	0.86	≥ 0.60	✓	ET3
	$\bar{E}$ Surrounding area	421 lx	≥ 300 lx	✓	ES3
	U_o (g_1) Surrounding area	0.77	≥ 0.40	✓	ES3
	$\bar{E}$ Background area	232 lx	≥ 100 lx	✓	EB3
	U_o (g_1) Background area	0.66	≥ 0.10	✓	EB3
Energy estimation(2)	Consumption	267 kWh/a	max. 800 kWh/a	✓	
Space	Lighting power density	4.86 W/m²	–		

(2) Calculated using DIN:18599-4.

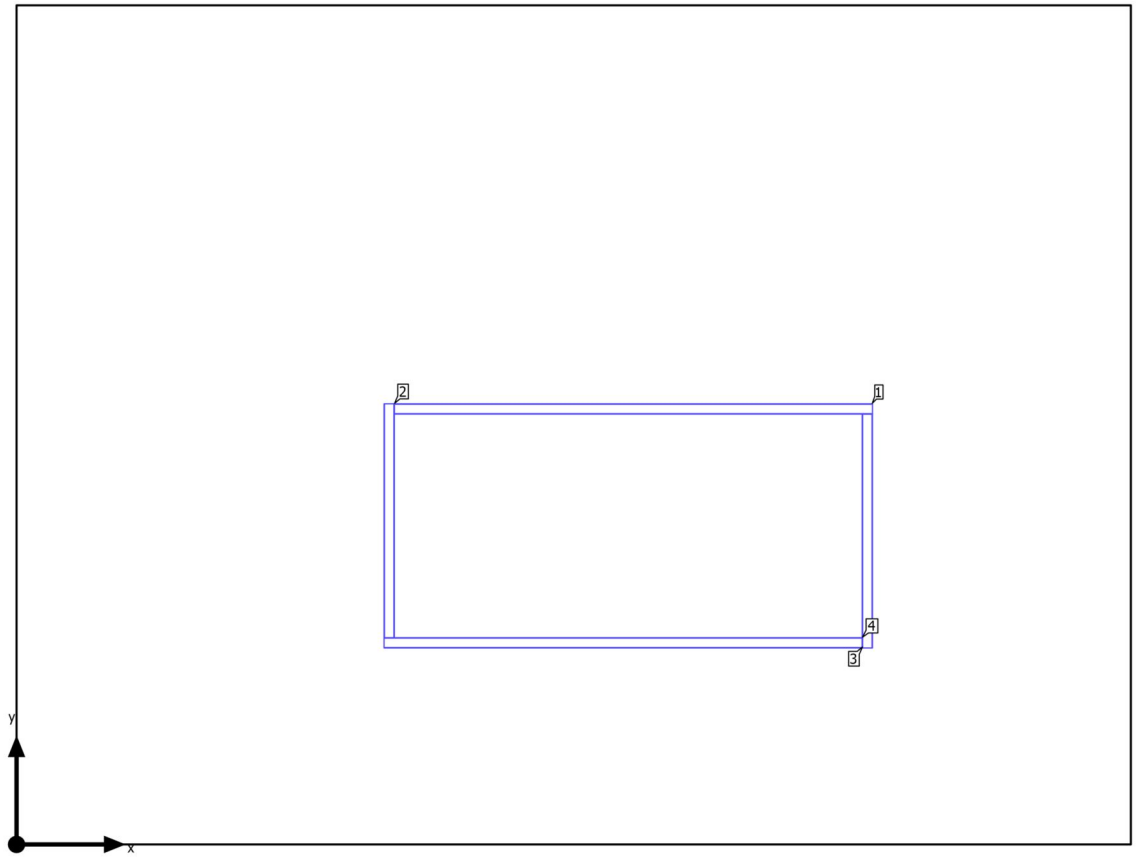
Utilisation profile: DIALux presetting (34.2 Standard (office))

Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
1	LED LUKS	I500P4O4 081L8010_ 22T00	ILO 50 P QUADRO 1190/2380 LP 940 OP FO WHITE PART 1-4	27.0 W	2732 lm	101.2 lm/W
1	LED LUKS	I500P4O4 081L8010_ 22T00	ILO 50 P QUADRO 1190/2380 LP 940 OP FO WHITE PART 2-4	27.0 W	2732 lm	101.2 lm/W
1	LED LUKS	I500P4O4 081L8010_ 22T00	ILO 50 P QUADRO 1190/2380 LP 940 OP FO WHITE PART 3-4	27.0 W	2732 lm	101.2 lm/W
1	LED LUKS	I500P4O4 081L8010_ 22T00	ILO 50 P QUADRO 1190/2380 LP 940 OP FO WHITE PART 4-4	27.0 W	2732 lm	101.2 lm/W

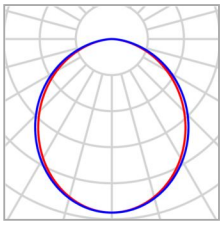
Building 1 · Storey 1 · Room 19

Luminaire layout plan



Building 1 · Storey 1 · Room 19

Luminaire layout plan



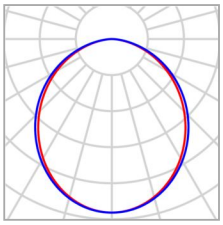
Manufacturer	LED LUKS	P	27.0 W
Article No.	I500P4O4081L8010_22T00	$\Phi_{Luminaire}$	2732 lm
Article name	ILO 50 P QUADRO 1190/2380 LP 940 OP FO WHITE PART 1-4		
Fitting	1x LED		

Individual luminaires

X	Y	Mounting height	Luminaire
1.816 m	1.578 m	2.700 m	2

Building 1 · Storey 1 · Room 19

Luminaire layout plan



Manufacturer	LED LUKS	P	27.0 W
Article No.	I500P4O4081L8010_22T00	$\Phi_{Luminaire}$	2732 lm
Article name	ILO 50 P QUADRO 1190/2380 LP 940 OP FO WHITE PART 2-4		
Fitting	1x LED		

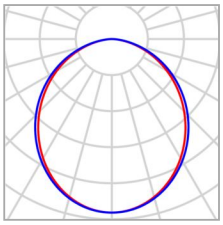
Individual luminaires

X	Y	Mounting height	Luminaire
3.006 m	2.123 m	2.700 m	1

Building 1 · Storey 1 · Room 19

Luminaire layout plan





Manufacturer	LED LUKS	P	27.0 W
Article No.	I500P4O4081L8010_22T00	$\Phi_{Luminaire}$	2732 lm
Article name	ILO 50 P QUADRO 1190/2380 LP 940 OP FO WHITE PART 3-4		
Fitting	1x LED		

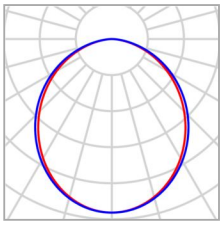
Individual luminaires

X	Y	Mounting height	Luminaire
4.146 m	1.528 m	2.700 m	3

Building 1 · Storey 1 · Room 19

Luminaire layout plan





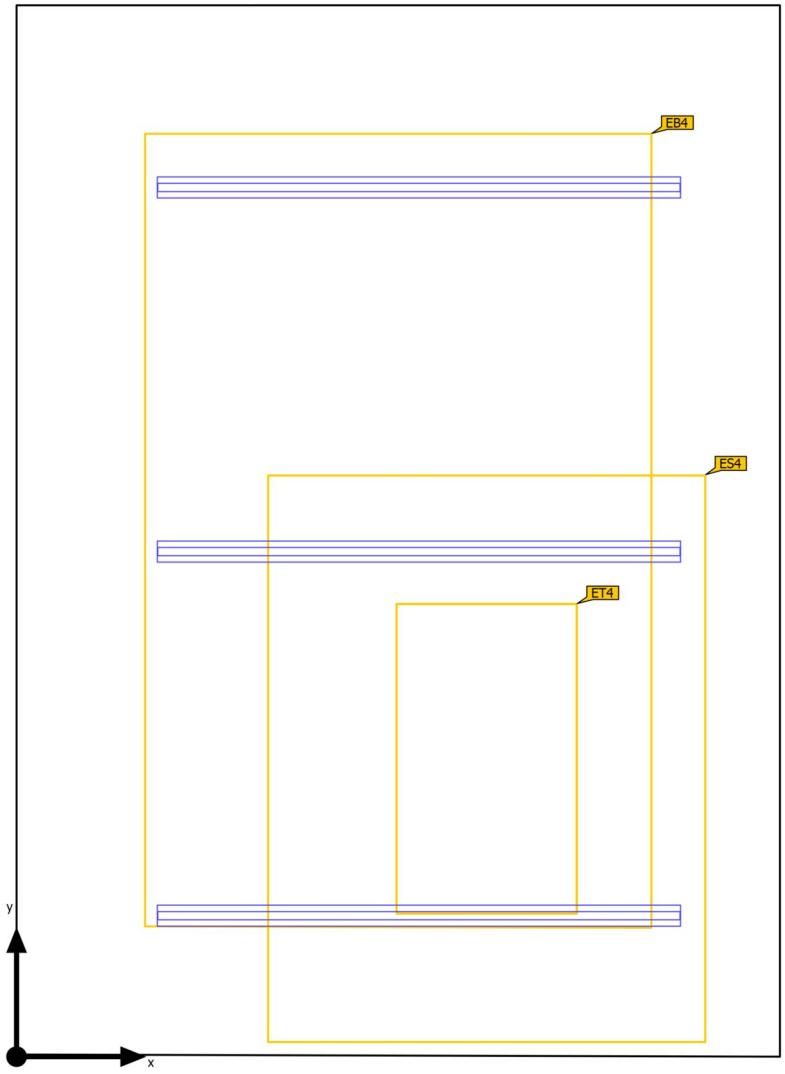
Manufacturer	LED LUKS	P	27.0 W
Article No.	I500P4O4081L8010_22T00	$\Phi_{Luminaire}$	2732 lm
Article name	ILO 50 P QUADRO 1190/2380 LP 940 OP FO WHITE PART 4-4		
Fitting	1x LED		

Individual luminaires

X	Y	Mounting height	Luminaire
2.956 m	0.983 m	2.700 m	4

Building 1 · Storey 1 · Room 20 (Light scene 1)

Summary



Ground area	12.14 m²
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %
Maintenance factor	0.80 (fixed)

Clearance height	3.000 m
Mounting height	2.500 m

Building 1 · Storey 1 · Room 20 (Light scene 1)

Summary

Results

	Symbol	Calculated	Target	Check	Index
Visual task areas	$\bar{E}_{\text{Task Area}}$	724 lx	≥ 500 lx	✓	ET4
	U_o (g_1) Task Area	0.94	≥ 0.60	✓	ET4
	$\bar{E}_{\text{Surrounding area}}$	667 lx	≥ 300 lx	✓	ES4
	U_o (g_1) Surrounding area	0.72	≥ 0.40	✓	ES4
	$\bar{E}_{\text{Background area}}$	490 lx	≥ 100 lx	✓	EB4
	U_o (g_1) Background area	0.88	≥ 0.10	✓	EB4
Energy estimation(2)	Consumption	342 kWh/a	max. 450 kWh/a	✓	
Space	Lighting power density	11.37 W/m²	–		

(2) Calculated using DIN:18599-4.

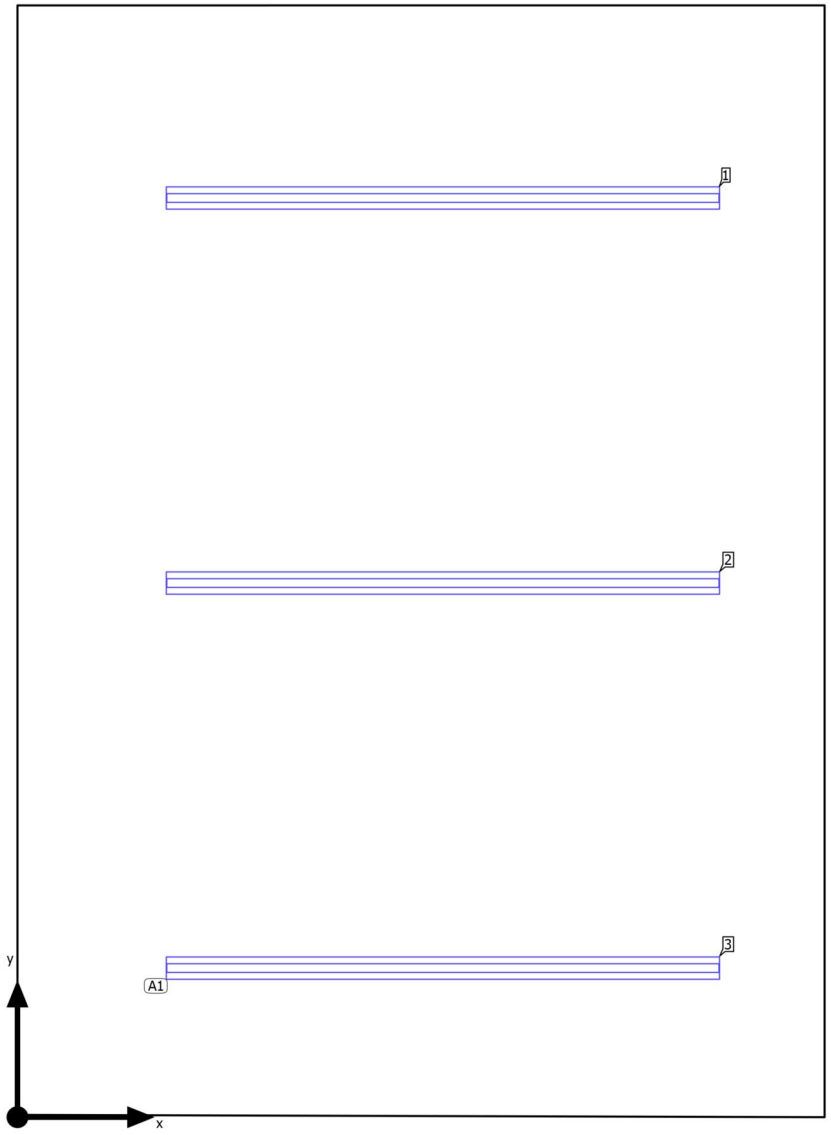
Utilisation profile: DIALux presetting (34.2 Standard (office))

Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
3	LED LUKS	O800P0O7100E8010_22T00	ORA 80 P 2036 HE 940 OP FO WHITE	46.0 W	4486 lm	97.5 lm/W

Building 1 · Storey 1 · Room 20

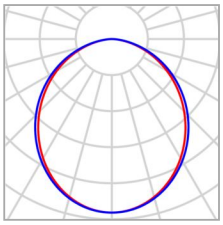
Luminaire layout plan



Building 1 · Storey 1 · Room 20

Luminaire layout plan





Manufacturer	LED LUKS
Article No.	O800P0O7100E8010 _22T00
Article name	ORA 80 P 2036 HE 940 OP FO WHITE
Fitting	1x LED

P	46.0 W
$\Phi_{Luminaire}$	4486 lm

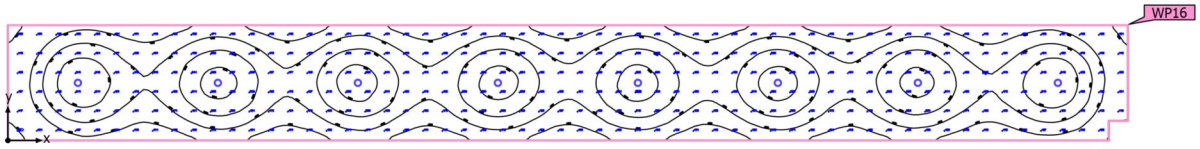
3 x LED LUKS ORA 80 P 2036 HE 940 OP FO WHITE

Type	Line arrangement
1st luminaire (X/Y/Z)	1.565 m / 3.382 m / 2.500 m
X-direction	3 pcs., Centre - centre, 1.417 m
Arrangement	A1

X	Y	Mounting height	Luminaire
1.565 m	3.382 m	2.500 m	1
1.565 m	1.965 m	2.500 m	2
1.565 m	0.548 m	2.500 m	3

Building 1 · Storey 1 · Room 21 (Light scene 1)

Summary



Ground area	32.08 m²	Clearance height	3.000 m
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %	Mounting height	2.500 m
		Height Working plane	0.800 m
Maintenance factor	0.80 (fixed)	Wall zone Working plane	0.000 m

Building 1 · Storey 1 · Room 21 (Light scene 1)

Summary

Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{perpendicular}$	178 lx	≥ 100 lx	✓	WP16
	U_o (g_1)	0.49	–		WP16
Energy estimation(2)	Consumption	114 kWh/a	max. 1150 kWh/a	✓	
Space	Lighting power density	3.24 W/m²	–		
		1.83 W/m²/100 lx	–		

(2) Calculated using DIN:18599-4.

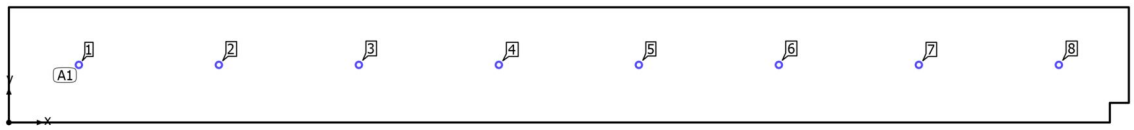
Utilisation profile: Traffic zones inside buildings (9.2 Stairs, escalators, travelators)

Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
8	LEDVANCE	4099854490842	DL CMFT D100 P 13W MS 940 OP WT	13.0 W	1300 lm	100.0 lm/W

Building 1 · Storey 1 · Room 21

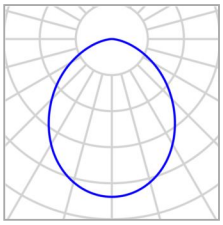
Luminaire layout plan



Building 1 · Storey 1 · Room 21

Luminaire layout plan





Manufacturer	LEDVANCE
Article No.	4099854490842
Article name	DL CMFT D100 P 13W MS 940 OP WT
Fitting	1x LED 3000K / CRI >= 90

P	13.0 W
$\Phi_{Luminaire}$	1300 lm

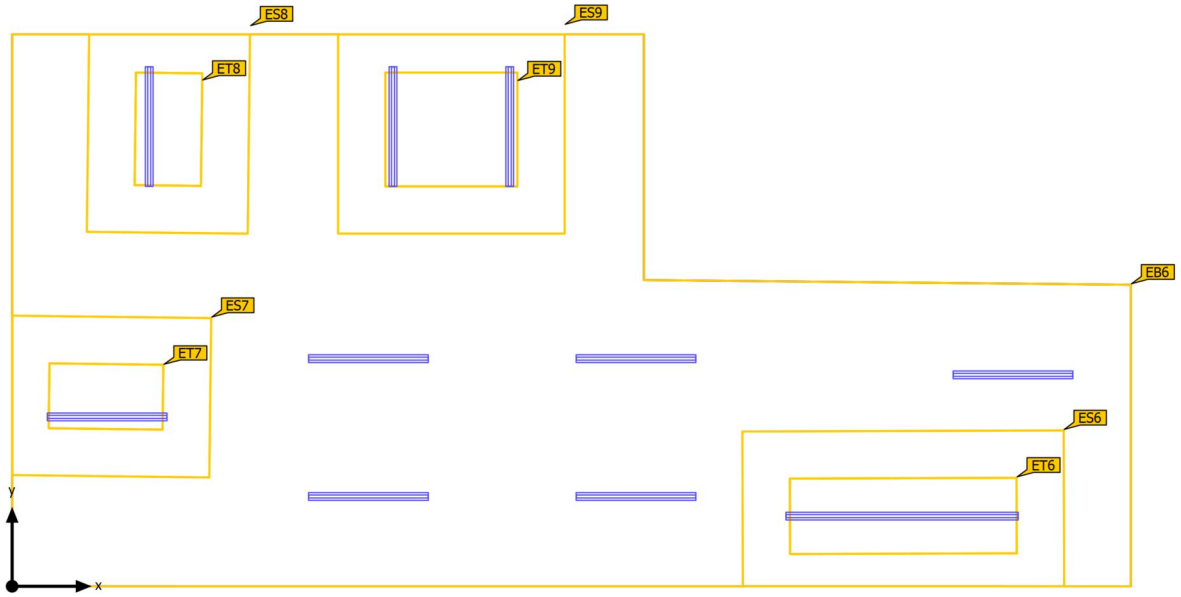
8 x LEDVANCE DL CMFT D100 P 13W MS 940 OP WT

Type	Line arrangement
1st luminaire (X/Y/Z)	1.105 m / 0.910 m / 2.500 m
X-direction	8 pcs., Centre - centre, 2.210 m
Arrangement	A1

X	Y	Mounting height	Luminaire
1.105 m	0.910 m	2.500 m	1
3.315 m	0.910 m	2.500 m	2
5.525 m	0.910 m	2.500 m	3
7.735 m	0.910 m	2.500 m	4
9.945 m	0.910 m	2.500 m	5
12.155 m	0.910 m	2.500 m	6
14.365 m	0.910 m	2.500 m	7
16.575 m	0.910 m	2.500 m	8

Building 1 · Storey 1 · Room 22 (Light scene 1)

Summary



Ground area	55.57 m²
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %
Maintenance factor	0.80 (fixed)

Clearance height	3.000 m
Mounting height	2.500 m

Building 1 · Storey 1 · Room 22 (Light scene 1)

Summary

Results

	Symbol	Calculated	Target	Check	Index
Visual task areas	$\bar{E}$ Task Area	566 lx	≥ 500 lx	✓	ET7
	U_o (g_1) Task Area	0.88	≥ 0.60	✓	ET7
	$\bar{E}$ Surrounding area	473 lx	≥ 300 lx	✓	ES8
	U_o (g_1) Surrounding area	0.80	≥ 0.40	✓	ES8
	$\bar{E}$ Background area	478 lx	≥ 100 lx	✓	EB6
	U_o (g_1) Background area	0.49	≥ 0.10	✓	EB6
Energy estimation(2)	Consumption	1082 kWh/a	max. 1950 kWh/a	✓	
Space	Lighting power density	7.86 W/m²	–		

(2) Calculated using DIN:18599-4.

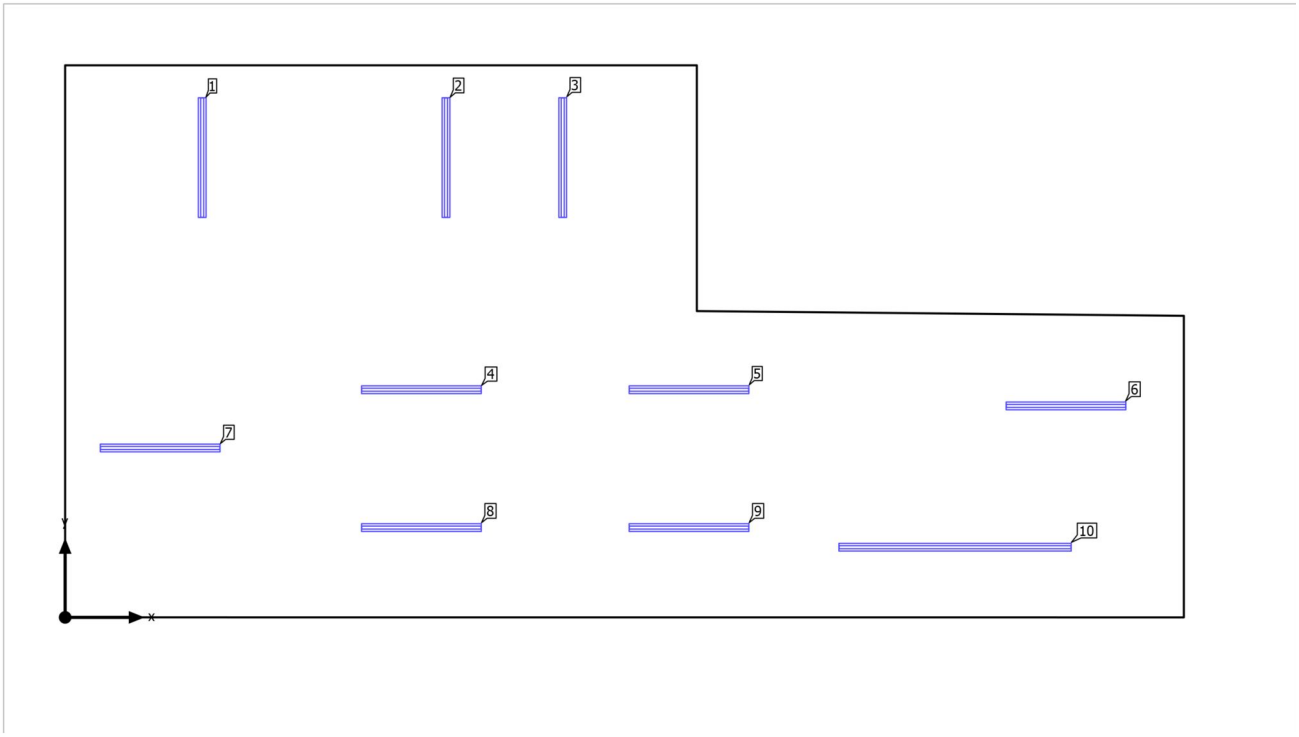
Utilisation profile: DIALux presetting (34.2 Standard (office))

Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
9	LED LUKS	O800P0O4200O4010_22T00	ORA 80 P 1266 HO 840 OP FO WHITE	40.0 W	4209 lm	105.2 lm/W
1	LED LUKS	O800P0O8300O4010_22T00	ORA 80 P 2456 HO 840 OP FO WHITE	77.0 W	8182 lm	106.3 lm/W

Building 1 · Storey 1 · Room 22

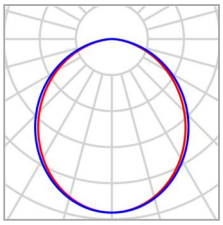
Luminaire layout plan



Building 1 · Storey 1 · Room 22

Luminaire layout plan





Manufacturer	LED LUKS	P	40.0 W
Article No.	O800P0O4200O4010_22T00	$\Phi_{Luminaire}$	4209 lm
Article name	ORA 80 P 1266 HO 840 OP FO WHITE		
Fitting	1x LED		

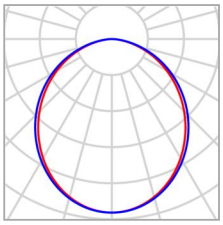
Individual luminaires

X	Y	Mounting height	Luminaire
1.449 m	4.864 m	2.500 m	1
4.027 m	4.864 m	2.500 m	2
5.262 m	4.864 m	2.500 m	3
3.768 m	2.408 m	2.500 m	4
6.597 m	2.408 m	2.500 m	5
10.584 m	2.237 m	2.500 m	6
1.005 m	1.792 m	2.500 m	7
3.768 m	0.950 m	2.500 m	8
6.597 m	0.950 m	2.500 m	9

Building 1 · Storey 1 · Room 22

Luminaire layout plan





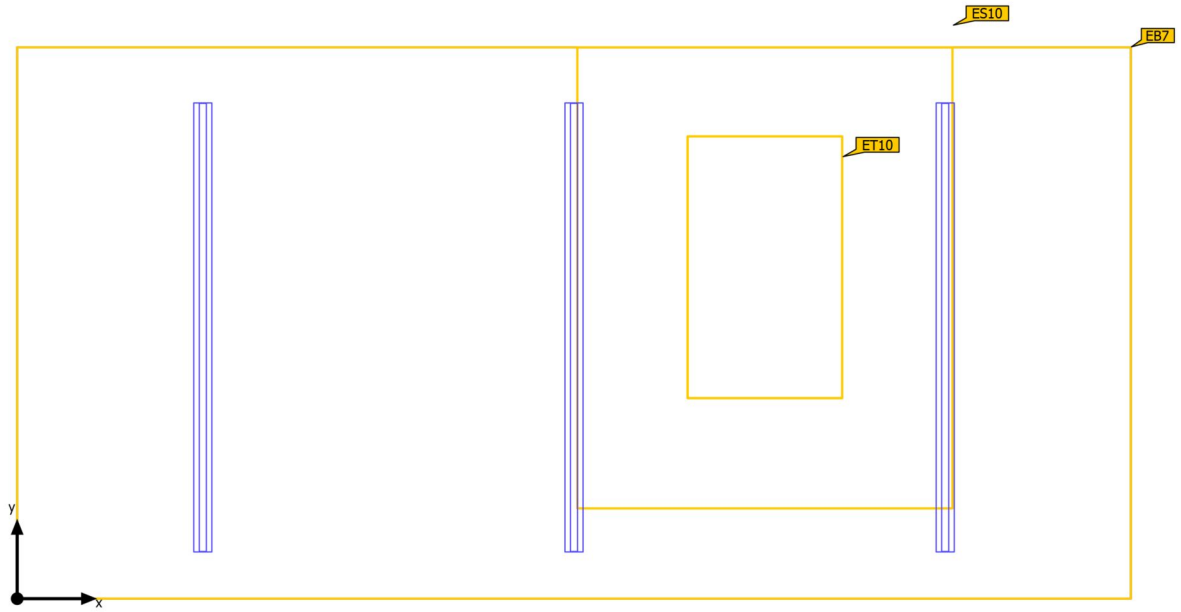
Manufacturer	LED LUKS	P	77.0 W
Article No.	O800P0O8300O4010_22T00	$\Phi_{Luminaire}$	8182 lm
Article name	ORA 80 P 2456 HO 840 OP FO WHITE		
Fitting	1x LED		

Individual luminaires

X	Y	Mounting height	Luminaire
9.411 m	0.742 m	2.500 m	10

Building 1 · Storey 1 · Room 23 (Light scene 1)

Summary



Ground area	12.62 m²
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %
Maintenance factor	0.80 (fixed)

Clearance height	3.000 m
Mounting height	2.500 m

Building 1 · Storey 1 · Room 23 (Light scene 1)

Summary

Results

	Symbol	Calculated	Target	Check	Index
Visual task areas	$\bar{E}_{\text{Task Area}}$	624 lx	≥ 500 lx	✓	ET10
	U_o (g_1) Task Area	0.91	≥ 0.60	✓	ET10
	$\bar{E}_{\text{Surrounding area}}$	591 lx	≥ 300 lx	✓	ES10
	U_o (g_1) Surrounding area	0.75	≥ 0.40	✓	ES10
	$\bar{E}_{\text{Background area}}$	406 lx	≥ 100 lx	✓	EB7
	U_o (g_1) Background area	0.74	≥ 0.10	✓	EB7
Energy estimation(2)	Consumption	342 kWh/a	max. 450 kWh/a	✓	
Space	Lighting power density	10.93 W/m²	–		

(2) Calculated using DIN:18599-4.

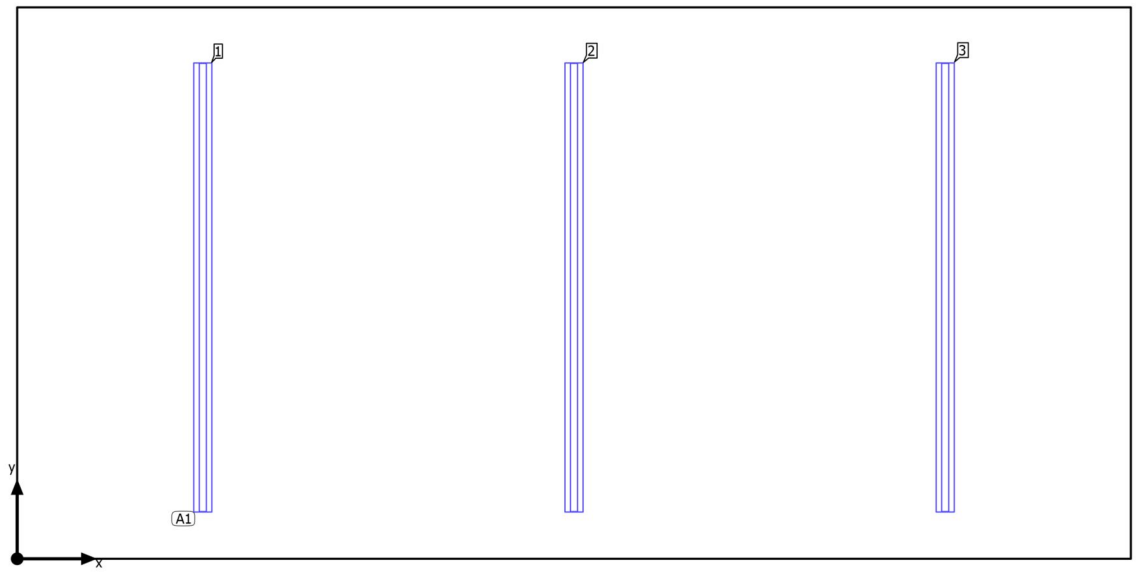
Utilisation profile: DIALux presetting (34.2 Standard (office))

Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
3	LED LUKS	O800P0O7100E8010_22T00	ORA 80 P 2036 HE 940 OP FO WHITE	46.0 W	4486 lm	97.5 lm/W

Building 1 · Storey 1 · Room 23

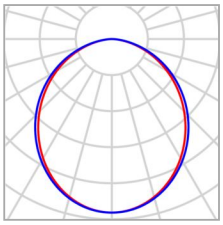
Luminaire layout plan



Building 1 · Storey 1 · Room 23

Luminaire layout plan





Manufacturer	LED LUKS
Article No.	O800P0O7100E8010 _22T00
Article name	ORA 80 P 2036 HE 940 OP FO WHITE
Fitting	1x LED

P	46.0 W
$\Phi_{Luminaire}$	4486 lm

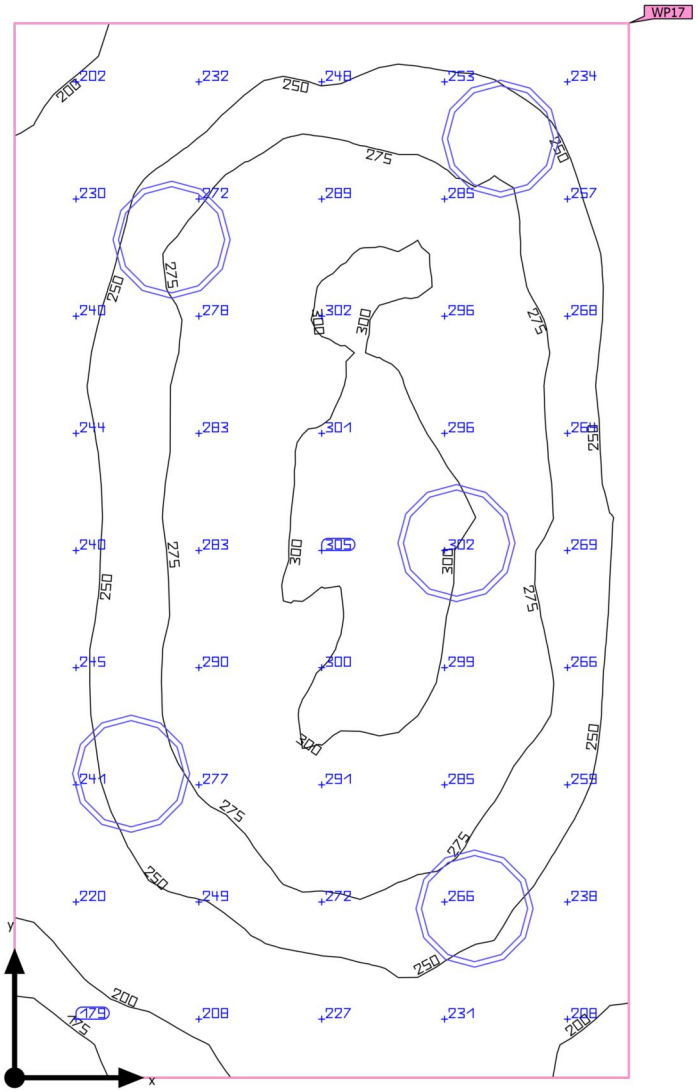
3 x LED LUKS ORA 80 P 2036 HE 940 OP FO WHITE

Type	Line arrangement
1st luminaire (X/Y/Z)	0.842 m / 1.230 m / 2.500 m
X-direction	3 pcs., Centre - centre, 1.683 m
Arrangement	A1

X	Y	Mounting height	Luminaire
0.842 m	1.230 m	2.500 m	1
2.525 m	1.230 m	2.500 m	2
4.208 m	1.230 m	2.500 m	3

Building 1 · Storey 1 · Room 24 (Light scene 1)

Summary



Ground area	19.84 m²	Clearance height	3.000 m
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %	Mounting height	3.000 m
		Height Working plane	0.800 m
Maintenance factor	0.80 (fixed)	Wall zone Working plane	0.000 m

Building 1 · Storey 1 · Room 24 (Light scene 1)

Summary

Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{perpendicular}$	260 lx	≥ 100 lx	✓	WP17
	U_o (g_1)	0.60	–		WP17
Energy estimation(2)	Consumption	606 kWh/a	max. 700 kWh/a	✓	
Space	Lighting power density	15.87 W/m²	–		
		6.10 W/m²/100 lx	–		

(2) Calculated using DIN:18599-4.

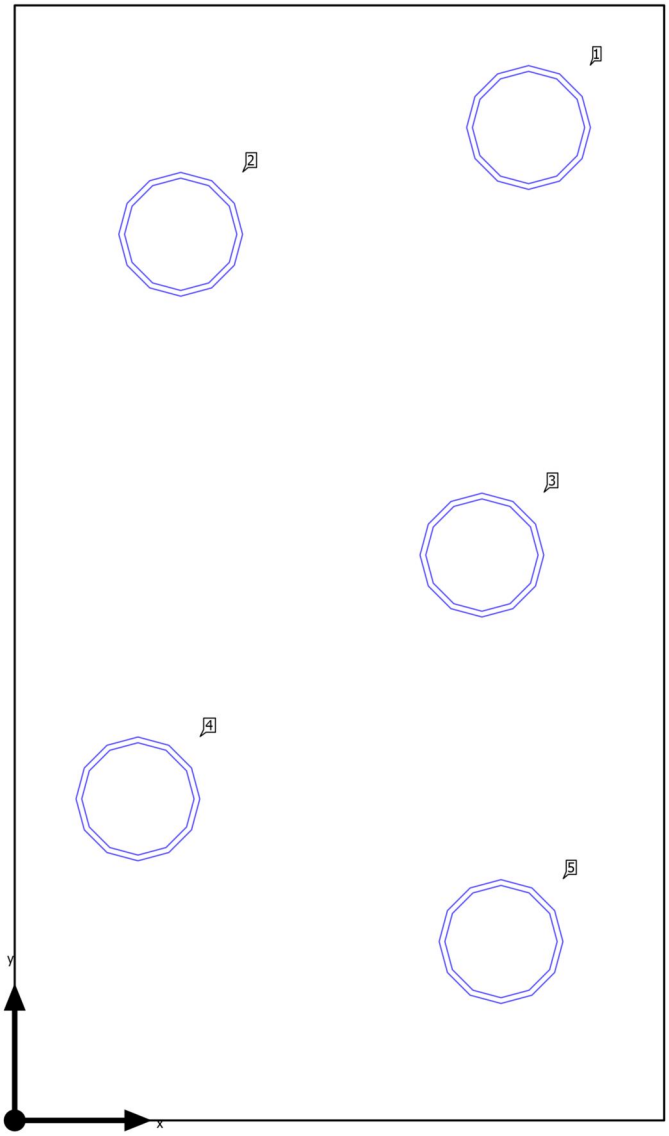
Utilisation profile: General areas inside buildings - Rest, sanitation and first aid rooms (10.2 Rest rooms)

Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
5	LED LUKS	EC03S000060110	EOS C 650 SKY 930 WHITE-W	63.0 W	4744 lm	75.3 lm/W

Building 1 · Storey 1 · Room 24

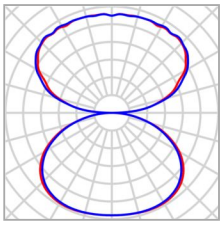
Luminaire layout plan



Building 1 · Storey 1 · Room 24

Luminaire layout plan





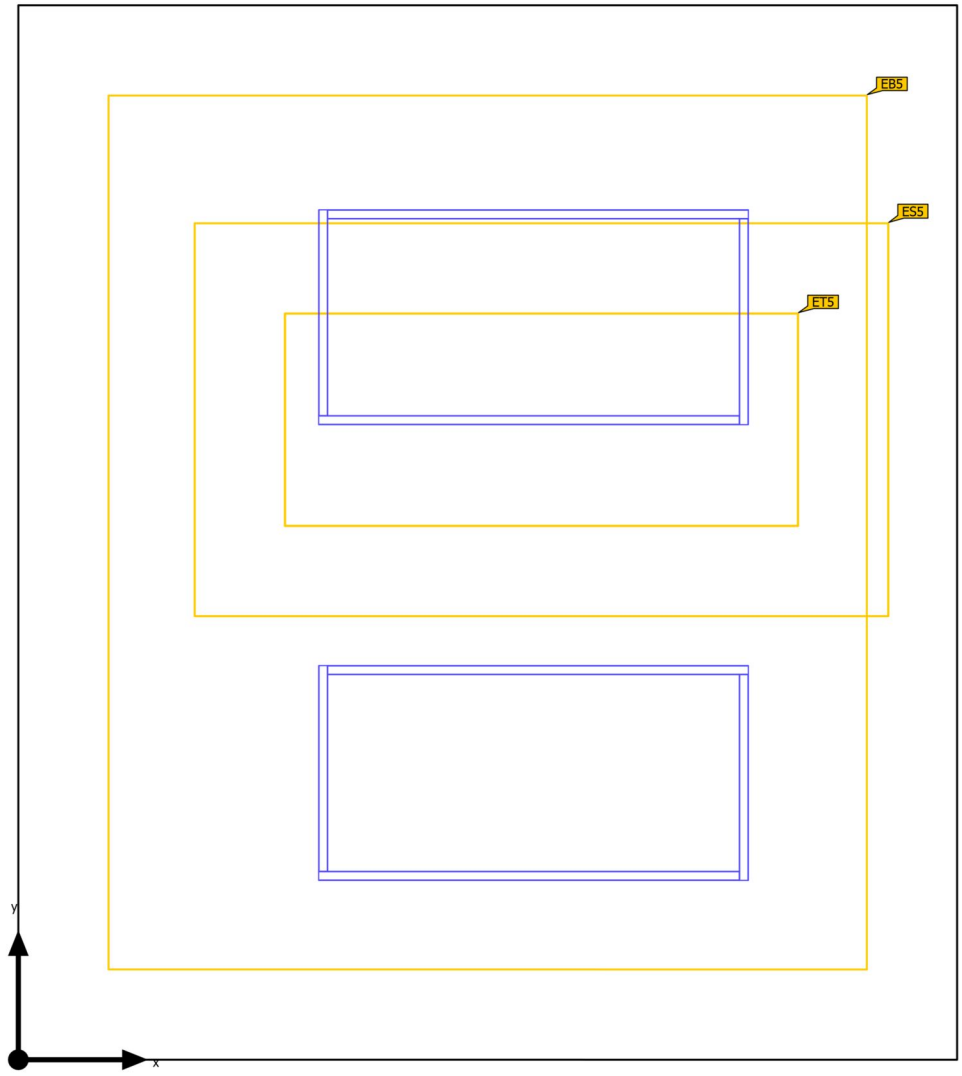
Manufacturer	LED LUKS	P	63.0 W
Article No.	EC03S000060110	$\Phi_{Luminaire}$	4744 lm
Article name	EOS C 650 SKY 930 WHITE-W		
Fitting	1x LED		

Individual luminaires

X	Y	Mounting height	Luminaire
2.690 m	5.197 m	3.000 m	1
0.869 m	4.638 m	3.000 m	2
2.446 m	2.959 m	3.000 m	3
0.645 m	1.683 m	3.000 m	4
2.546 m	0.936 m	3.000 m	5

Building 1 · Storey 1 · Room 25 (Light scene 1)

Summary



Ground area	30.37 m²
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %
Maintenance factor	0.80 (fixed)

Clearance height	3.000 m
Mounting height	2.700 m

Building 1 · Storey 1 · Room 25 (Light scene 1)

Summary

Results

	Symbol	Calculated	Target	Check	Index
Visual task areas	$\bar{E}$ Task Area	679 lx	≥ 500 lx	✓	ET5
	U_o (g_1) Task Area	0.86	≥ 0.60	✓	ET5
	$\bar{E}$ Surrounding area	588 lx	≥ 300 lx	✓	ES5
	U_o (g_1) Surrounding area	0.74	≥ 0.40	✓	ES5
	$\bar{E}$ Background area	423 lx	≥ 100 lx	✓	EB5
	U_o (g_1) Background area	0.67	≥ 0.10	✓	EB5
Energy estimation(2)	Consumption	535 kWh/a	max. 1100 kWh/a	✓	
Space	Lighting power density	7.11 W/m²	–		

(2) Calculated using DIN:18599-4.

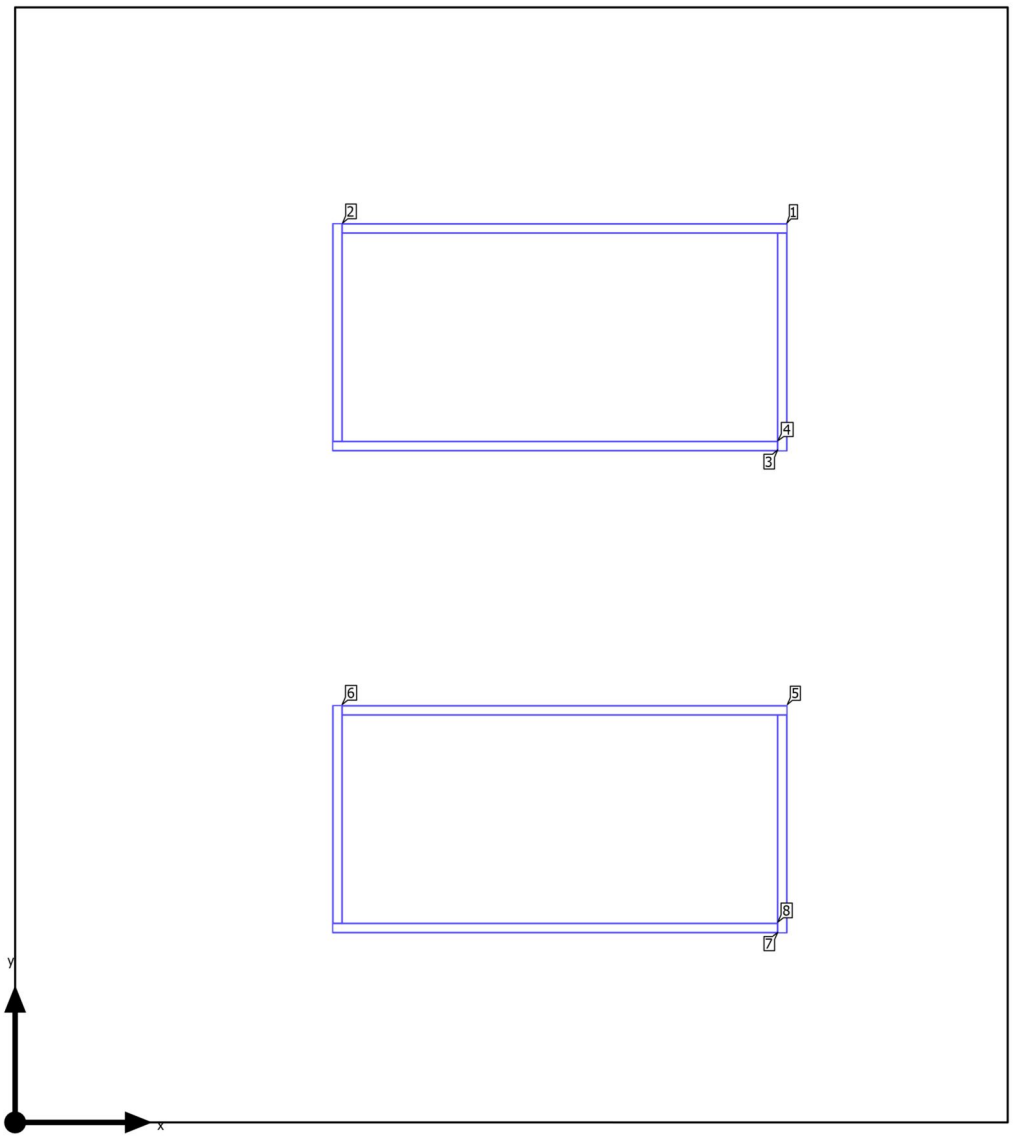
Utilisation profile: DIALux presetting (34.2 Standard (office))

Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
2	LED LUKS	I500P4O4 081L8010_ 22T00	ILO 50 P QUADRO 1190/2380 LP 940 OP FO WHITE PART 1-4	27.0 W	2732 lm	101.2 lm/W
2	LED LUKS	I500P4O4 081L8010_ 22T00	ILO 50 P QUADRO 1190/2380 LP 940 OP FO WHITE PART 2-4	27.0 W	2732 lm	101.2 lm/W
2	LED LUKS	I500P4O4 081L8010_ 22T00	ILO 50 P QUADRO 1190/2380 LP 940 OP FO WHITE PART 3-4	27.0 W	2732 lm	101.2 lm/W
2	LED LUKS	I500P4O4 081L8010_ 22T00	ILO 50 P QUADRO 1190/2380 LP 940 OP FO WHITE PART 4-4	27.0 W	2732 lm	101.2 lm/W

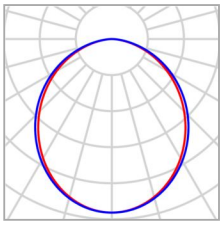
Building 1 · Storey 1 · Room 25

Luminaire layout plan



Building 1 · Storey 1 · Room 25

Luminaire layout plan



Manufacturer	LED LUKS	P	27.0 W
Article No.	I500P4O4081L8010_22T00	$\Phi_{Luminaire}$	2732 lm
Article name	ILO 50 P QUADRO 1190/2380 LP 940 OP FO WHITE PART 1-4		
Fitting	1x LED		

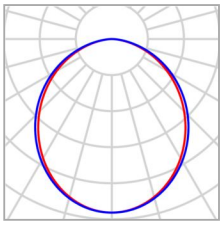
Individual luminaires

X	Y	Mounting height	Luminaire
1.689 m	4.138 m	2.700 m	2
1.689 m	1.613 m	2.700 m	6

Building 1 · Storey 1 · Room 25

Luminaire layout plan





Manufacturer	LED LUKS	P	27.0 W
Article No.	I500P4O4081L8010_22T00	$\Phi_{Luminaire}$	2732 lm
Article name	ILO 50 P QUADRO 1190/2380 LP 940 OP FO WHITE PART 2-4		
Fitting	1x LED		

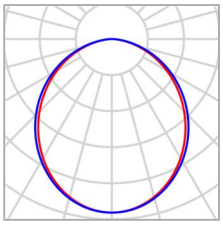
Individual luminaires

X	Y	Mounting height	Luminaire
2.879 m	4.683 m	2.700 m	1
2.879 m	2.158 m	2.700 m	5

Building 1 · Storey 1 · Room 25

Luminaire layout plan





Manufacturer	LED LUKS	P	27.0 W
Article No.	I500P4O4081L8010_22T00	$\Phi_{Luminaire}$	2732 lm
Article name	ILO 50 P QUADRO 1190/2380 LP 940 OP FO WHITE PART 3-4		
Fitting	1x LED		

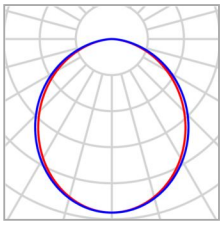
Individual luminaires

X	Y	Mounting height	Luminaire
4.019 m	4.088 m	2.700 m	3
4.019 m	1.563 m	2.700 m	7

Building 1 · Storey 1 · Room 25

Luminaire layout plan





Manufacturer	LED LUKS
Article No.	I500P4O4081L8010_22T00
Article name	ILO 50 P QUADRO 1190/2380 LP 940 OP FO WHITE PART 4-4
Fitting	1x LED

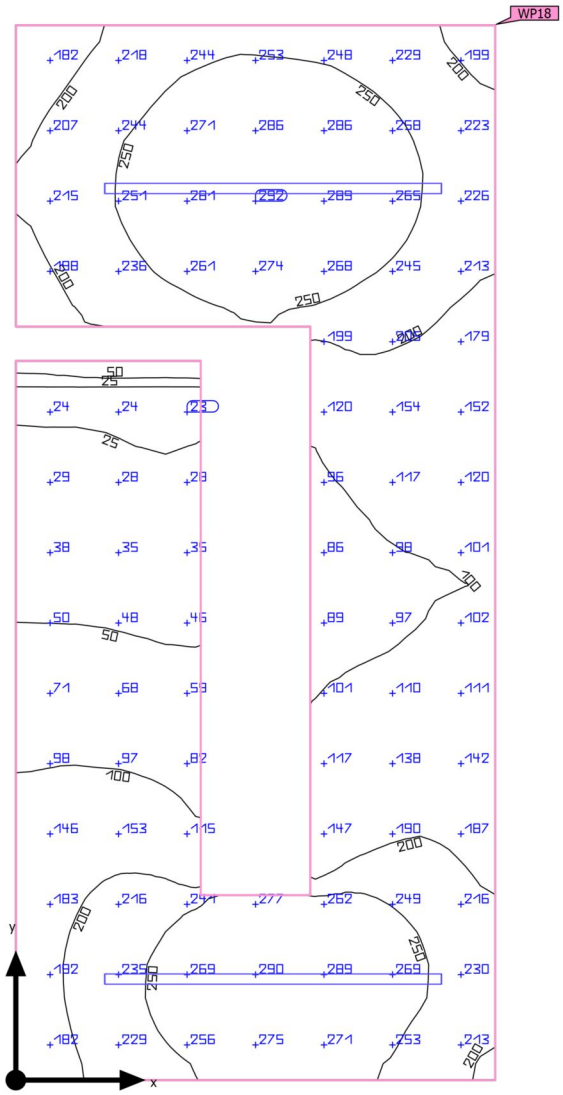
P	27.0 W
$\Phi_{Luminaire}$	2732 lm

Individual luminaires

X	Y	Mounting height	Luminaire
2.829 m	3.543 m	2.700 m	4
2.829 m	1.018 m	2.700 m	8

Building 1 · Storey 1 · Room 26 (Light scene 1)

Summary



Ground area	14.91 m²	Clearance height	3.000 m
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %	Mounting height	3.000 m
		Height Working plane	0.800 m
Maintenance factor	0.80 (fixed)	Wall zone Working plane	0.000 m

Building 1 · Storey 1 · Room 26 (Light scene 1)

Summary

Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{perpendicular}$	179 lx	≥ 100 lx	✓	WP18
	U_o (g_1)	0.13	–		WP18
Energy estimation(2)	Consumption	96.8 kWh/a	max. 550 kWh/a	✓	
Space	Lighting power density	5.90 W/m²	–		
		3.30 W/m²/100 lx	–		

(2) Calculated using DIN:18599-4.

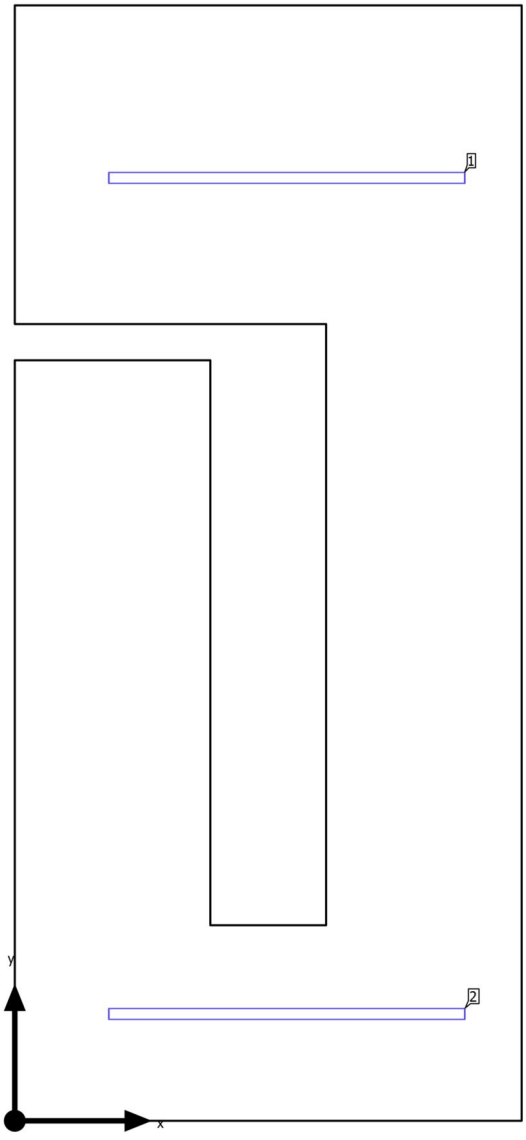
Utilisation profile: Traffic zones inside buildings (9.2 Stairs, escalators, travelators)

Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
2	LED LUKS	LE60P0O7000E80100000_22T00	LENE TUBE 60 P 1968 HE 940 OP FO WHITE	44.0 W	5098 lm	115.9 lm/W

Building 1 · Storey 1 · Room 26

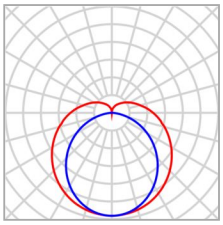
Luminaire layout plan



Building 1 · Storey 1 · Room 26

Luminaire layout plan





Manufacturer	LED LUKS
Article No.	LE60P0O7000E80100000_22T00
Article name	LENE TUBE 60 P 1968 HE 940 OP FO WHITE
Fitting	1x LED

P	44.0 W
$\Phi_{Luminaire}$	5098 lm

Individual luminaires

X	Y	Mounting height	Luminaire
1.502 m	5.207 m	3.000 m	1
1.502 m	0.590 m	3.000 m	2