

Wren Reading

Chris Dowling:
Order No.:
Company:
Customer No.:

Date: 12.04.2018
Operator: Chris Kearsley

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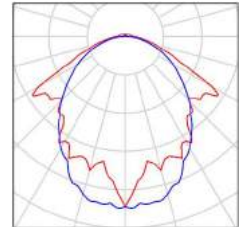
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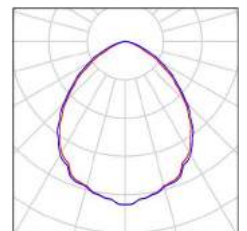
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Wren Reading / Luminaire parts list

77 Pieces DEXTRA Hydra Led HYD L26 PC4S
Article No.: Hydra Led
Luminous flux (Luminaire): 2465 lm
Luminous flux (Lamps): 2600 lm
Luminaire Wattage: 18.0 W
Luminaire classification according to CIE: 95
CIE flux code: 45 75 94 95 95
Fitting: 2 x Dextra LX5624 X64 HE C84 1300lm
(Correction Factor 1.000).



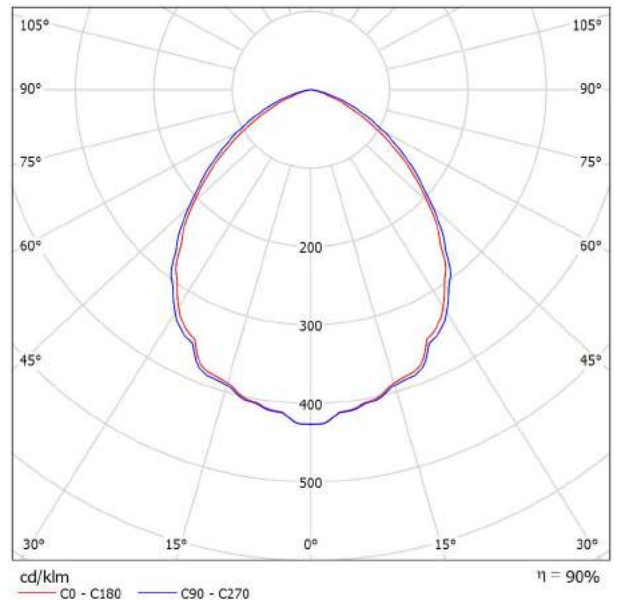
36 Pieces DEXTRA Opus Led Floodlight OPU2S L30 C84
Article No.: Opus Led Floodlight
Luminous flux (Luminaire): 2701 lm
Luminous flux (Lamps): 3000 lm
Luminaire Wattage: 28.0 W
Luminaire classification according to CIE: 100
CIE flux code: 59 89 99 100 90
Fitting: 1 x OPU2 STARK-DLE-G2-LES65-3000
(Correction Factor 1.000).



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DEXTRA Opus Led Floodlight OPU2S L30 C84 / Luminaire Data Sheet

Luminous emittance 1:



Luminaire classification according to CIE: 100
 CIE flux code: 59 89 99 100 90

OPU2S L30 C84 - Opus small sized LED floodlight. symmetric light distribution with 3000 lumen LED, high quality diecast construction, matt grey powder coat finish, high grade aluminium reflector, fully gasketed IP65 ingress protection, toughened glass cover, adjustable saddle mounting bracket with angle set feature allen key fixings.

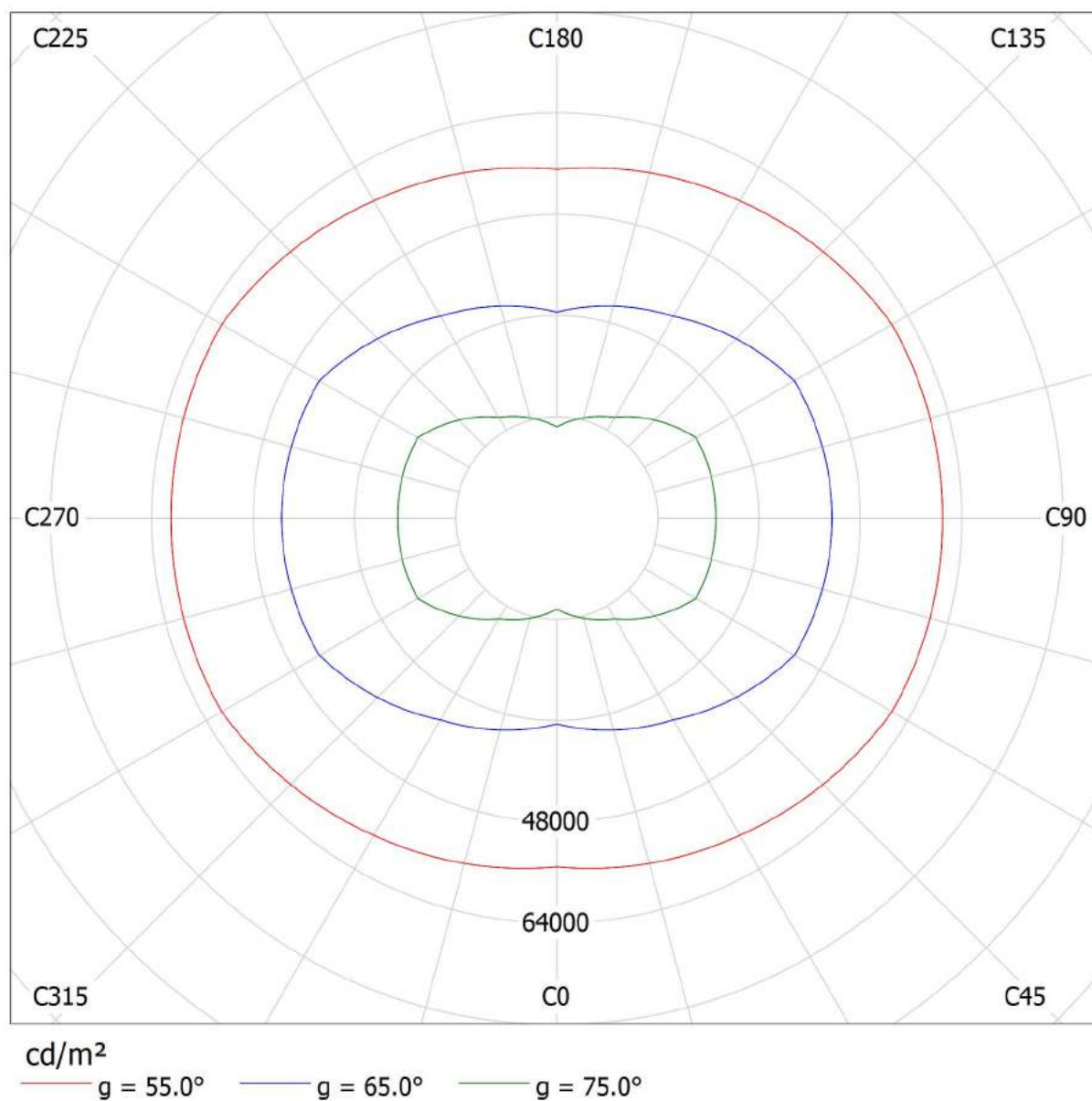
Luminous emittance 1:

Glare Evaluation According to UGR												
p Ceiling		70	70	50	50	30	70	70	50	50	30	
p Walls		50	30	50	30	30	50	30	50	30	30	
p 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	25.2	26.4	25.5	26.6	26.8	25.9	27.1	26.2	27.3	27.5	
	3H	25.8	26.9	26.1	27.1	27.4	26.9	27.9	27.2	28.2	28.4	
	4H	25.9	26.9	26.2	27.2	27.4	27.1	28.1	27.4	28.3	28.6	
	6H	25.9	26.8	26.3	27.1	27.4	27.2	28.1	27.5	28.4	28.7	
	8H	25.9	26.7	26.2	27.0	27.4	27.2	28.0	27.5	28.3	28.6	
	12H	25.9	26.7	26.2	27.0	27.3	27.1	27.9	27.5	28.3	28.6	
4H	2H	25.6	26.5	25.9	26.8	27.1	26.2	27.1	26.5	27.4	27.7	
	3H	26.3	27.1	26.7	27.4	27.8	27.3	28.1	27.7	28.4	28.8	
	4H	26.5	27.2	26.9	27.5	27.9	27.6	28.3	28.0	28.7	29.0	
	6H	26.5	27.1	26.9	27.5	27.9	27.8	28.4	28.2	28.7	29.1	
	8H	26.5	27.0	26.9	27.4	27.8	27.8	28.3	28.2	28.7	29.1	
	12H	26.5	27.0	26.9	27.4	27.8	27.7	28.2	28.2	28.6	29.1	
8H	4H	26.6	27.1	27.0	27.5	27.9	27.7	28.2	28.1	28.6	29.0	
	6H	26.6	27.1	27.1	27.5	28.0	27.8	28.3	28.3	28.7	29.2	
	8H	26.6	27.0	27.1	27.5	27.9	27.8	28.2	28.3	28.7	29.1	
	12H	26.6	26.9	27.1	27.4	27.9	27.8	28.1	28.3	28.6	29.1	
	4H	26.6	27.1	27.0	27.5	27.9	27.6	28.1	28.1	28.5	29.0	
	6H	26.6	27.0	27.1	27.5	27.9	27.8	28.2	28.3	28.6	29.1	
12H	8H	26.6	26.9	27.1	27.4	27.9	27.8	28.1	28.3	28.6	29.1	
	12H	26.6	26.9	27.1	27.4	27.9	27.8	28.1	28.3	28.6	29.1	
Variation of the observer position for the luminaire distances S												
S = 1.0H		+0.4 / -0.5					+0.3 / -0.4					
S = 1.5H		+0.8 / -1.6					+0.5 / -1.1					
S = 2.0H		+1.6 / -3.0					+1.2 / -1.9					
Standard table		BK02					BK02					
Correction		5.3					6.0					
Summand												
Corrected Glare Indices referring to 3000lm Total Luminous Flux												

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DEXTRA Opus Led Floodlight OPU2S L30 C84 / Luminance Diagram

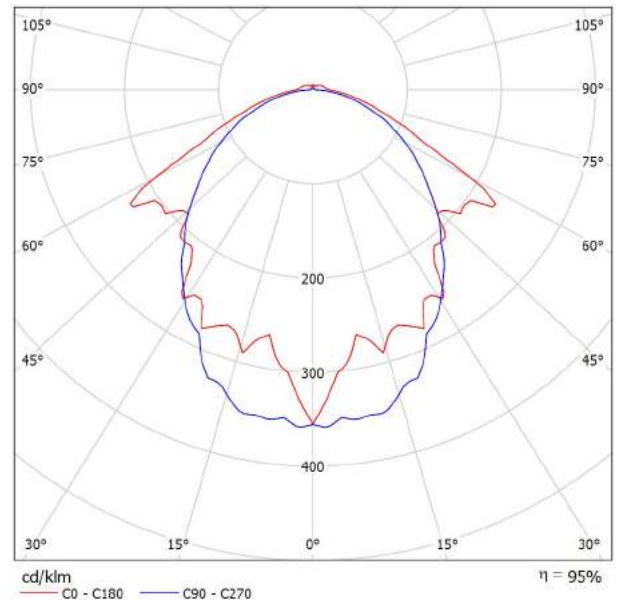
Luminaire: DEXTRA Opus Led Floodlight OPU2S L30 C84
Lamps: 1 x OPU2 STARK-DLE-G2-LES65-3000



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DEXTRA Hydra Led HYD L22 PC 2S / Luminaire Data Sheet

Luminous emittance 1:



Luminaire classification according to CIE: 95
 CIE flux code: 45 75 94 95 95

HYD L22 PC 2S - Hydra LED - 2200 lumen C84, surface mounted IP65 moisture resistant luminaire. GRP body, polycarbonate diffuser. LED Driver. Stainless steel diffuser retaining clips.

Optional extras:

H High Frequency Dimming (Analogue 1-10v)
 S Switch Dimming
 A Digital Addressable Lighting Interface (DALI)
 D Digital Dimming DSI (ECO)
 C Corridor function

SS TRS - Stainless steel clips with tamper resistant screw
 C2240 - Eyebolt suspension kit

Note: Lowest attainable dimming level of 15%.

Due to constant changes in LEDs, Please check our website for current product specifications.

Luminous emittance 1:

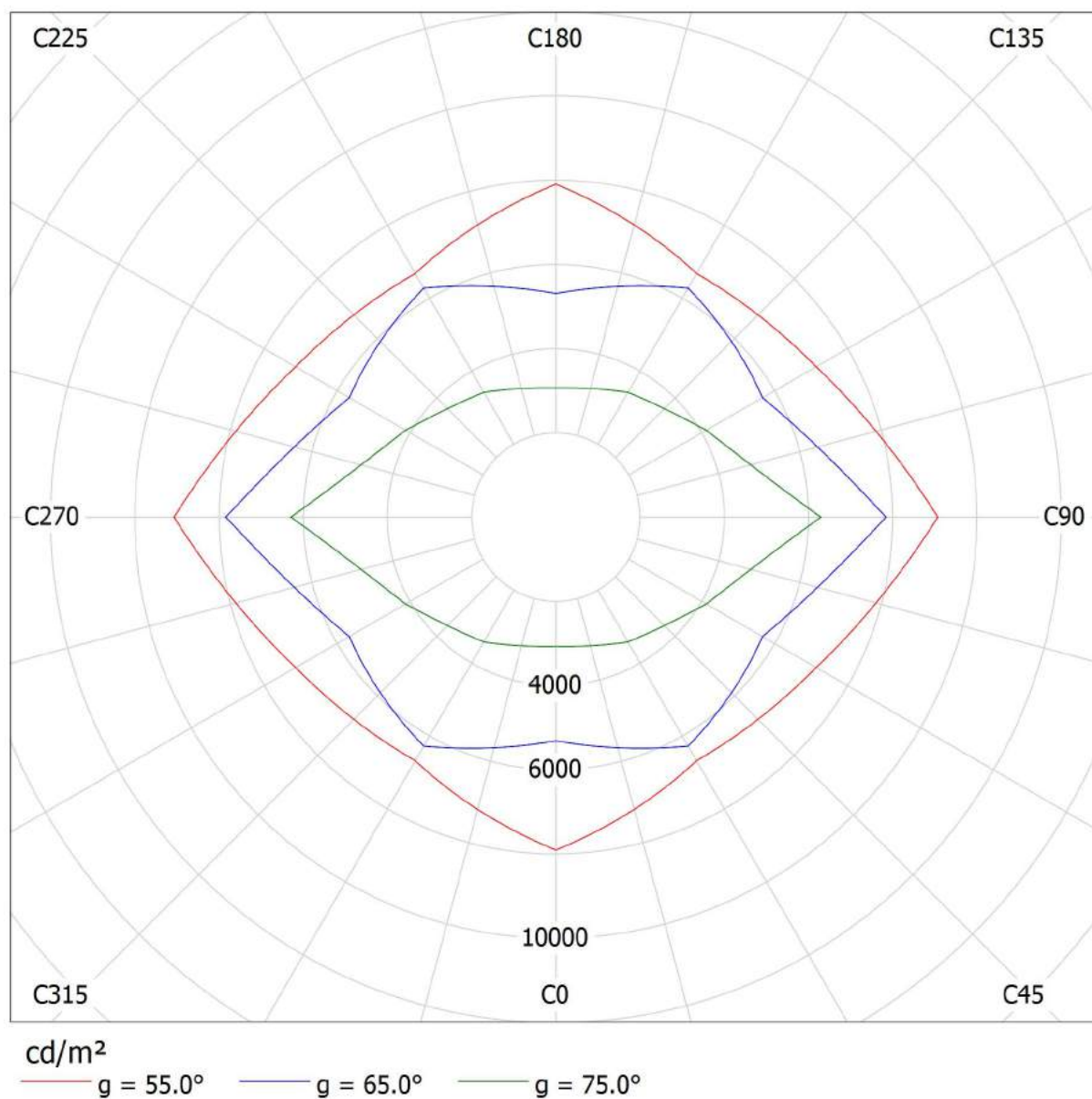
Glare Evaluation According to UGR											
p Ceiling	70	70	50	50	30	70	70	50	50	30	
p Walls	50	30	50	30	30	50	30	50	30	30	
p Floor	20	20	20	20	20	20	20	20	20	20	
Room Size X Y	Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis					
2H	2H	20.1	21.4	20.5	21.8	22.1	18.7	20.0	19.1	20.3	20.7
	3H	21.3	22.5	21.7	22.8	23.2	20.3	21.5	20.7	21.8	22.2
	4H	21.6	22.7	22.0	23.1	23.5	20.9	22.0	21.3	22.3	22.7
	6H	21.8	22.8	22.2	23.2	23.6	21.3	22.3	21.7	22.7	23.1
	8H	21.9	22.8	22.3	23.2	23.7	21.4	22.4	21.9	22.8	23.3
4H	12H	21.9	22.8	22.3	23.3	23.7	21.5	22.5	22.0	22.9	23.3
	2H	20.5	21.6	20.9	21.9	22.3	19.3	20.4	19.7	20.8	21.2
	3H	21.9	22.9	22.4	23.3	23.7	21.0	21.9	21.4	22.3	22.8
	4H	22.3	23.2	22.8	23.6	24.1	21.7	22.5	22.1	23.0	23.4
	6H	22.6	23.3	23.1	23.8	24.3	22.2	23.0	22.7	23.5	24.0
8H	8H	22.7	23.4	23.2	23.9	24.4	22.5	23.1	23.0	23.6	24.1
	12H	22.8	23.4	23.3	23.9	24.4	22.6	23.2	23.1	23.7	24.2
	4H	22.5	23.1	23.0	23.6	24.1	21.9	22.6	22.4	23.1	23.6
	6H	22.9	23.4	23.4	23.9	24.5	22.6	23.2	23.2	23.7	24.3
	8H	23.0	23.5	23.6	24.1	24.6	22.9	23.4	23.5	24.0	24.5
12H	12H	23.2	23.6	23.7	24.1	24.7	23.2	23.6	23.7	24.1	24.8
	4H	22.5	23.1	23.0	23.6	24.1	21.9	22.5	22.4	23.0	23.6
	6H	22.9	23.4	23.5	23.9	24.5	22.7	23.2	23.2	23.7	24.3
8H	23.1	23.5	23.7	24.1	24.7	23.0	23.5	23.6	24.0	24.6	
Variation of the observer position for the luminaire distances S											
S = 1.0H	+0.3 / -0.3					+0.1 / -0.1					
S = 1.5H	+0.5 / -0.3					+0.2 / -0.3					
S = 2.0H	+1.0 / -1.2					+0.5 / -0.7					
Standard table	BK04					BK05					
Correction	2.7					2.8					
Summand											
Corrected Glare Indices referring to 2200lm Total Luminous Flux											



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DEXTRA Hydra Led HYD L22 PC 2S / Luminance Diagram

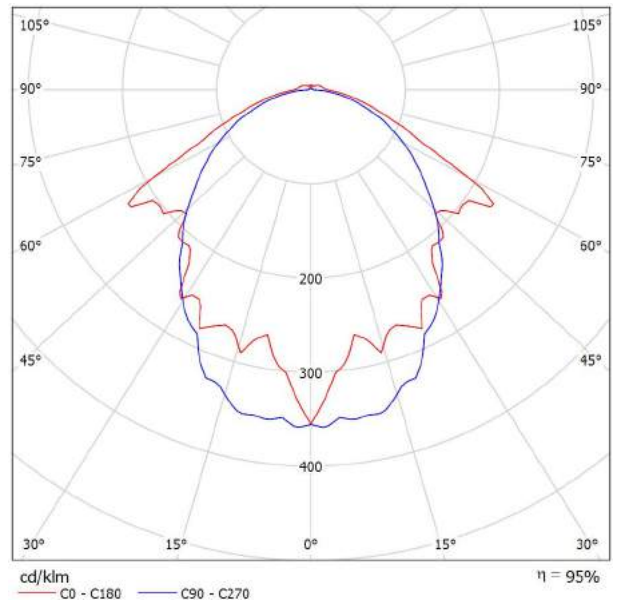
Luminaire: DEXTRA Hydra Led HYD L22 PC 2S
Lamps: 1 x Dextra LX5624 X64 HE C84 2200lm



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DEXTRA Hydra Led HYD L26 PC4S / Luminaire Data Sheet

Luminous emittance 1:



Luminaire classification according to CIE: 95
 CIE flux code: 45 75 94 95 95

HYD L26 PC 4S - Hydra LED - 2600 lumen C84, surface mounted IP65 moisture resistant luminaire. GRP body, polycarbonate diffuser. LED Driver. Stainless steel diffuser retaining clips.

Optional extras:

H High Frequency Dimming (Analogue 1-10v)
 S Switch Dimming
 A Digital Addressable Lighting Interface (DALI)
 D Digital Dimming DSI (ECO)
 C Corridor function

SS TRS - Stainless steel clips with tamper resistant screw
 C2240 - Eyebolt suspension kit

Note: Lowest attainable dimming level of 15%.

Due to constant changes in LEDs, Please check our website for current product specifications.

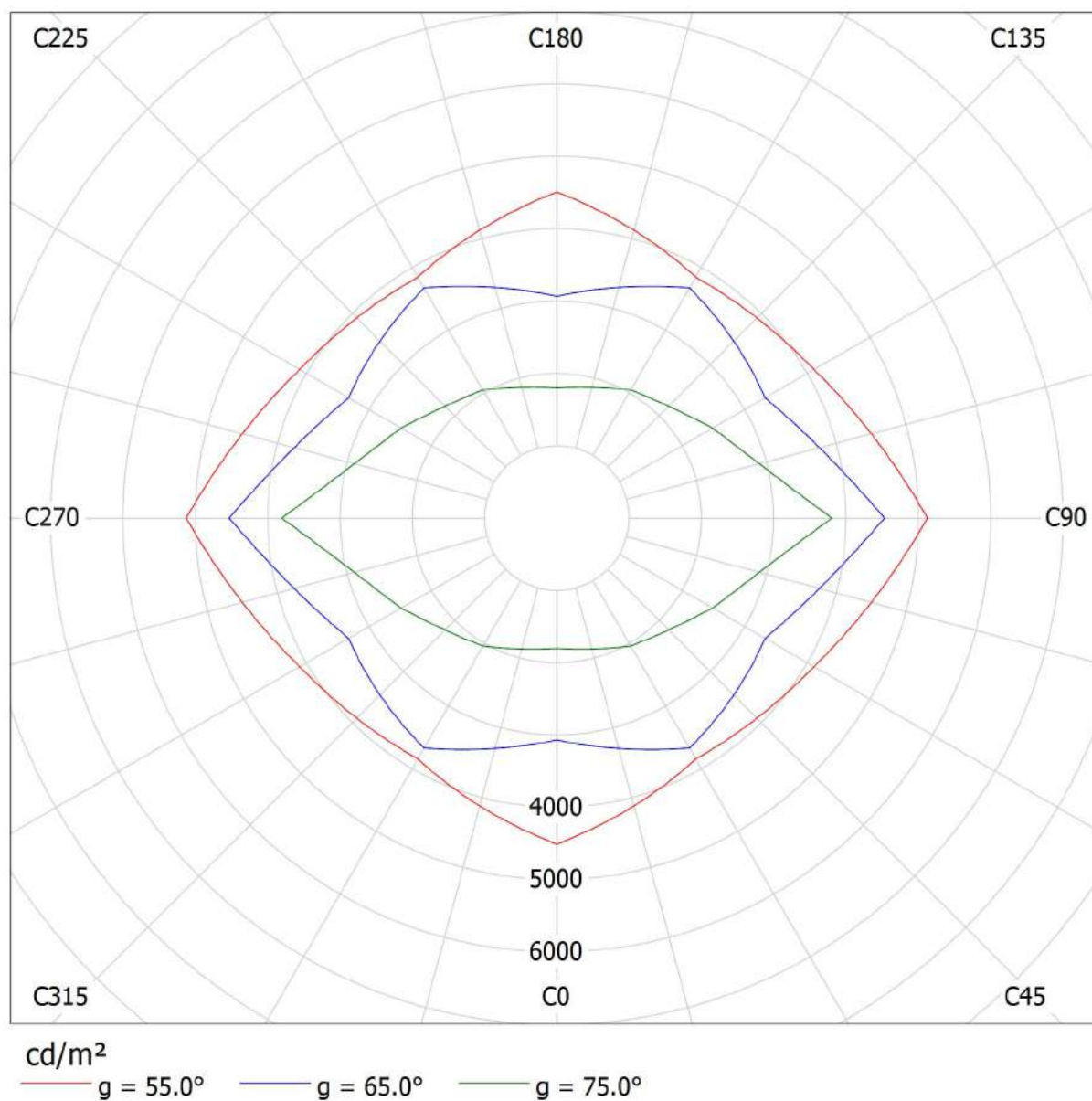
Luminous emittance 1:

Glare Evaluation According to UGR											
p Ceiling	70	70	50	50	30	70	70	50	50	30	
p Walls	50	30	50	30	30	50	30	50	30	30	
p 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	19.5	18.6	19.8	20.2	18.8	18.1	17.2	18.4	18.8
	3H	19.4	20.6	19.8	20.9	21.3	18.4	19.6	18.8	19.9	20.3
	4H	19.7	20.8	20.1	21.2	21.6	19.0	20.1	19.4	20.5	20.9
	6H	19.9	20.9	20.3	21.3	21.7	19.5	20.5	19.9	20.9	21.3
	8H	20.0	21.0	20.4	21.4	21.8	19.6	20.6	20.1	21.0	21.4
12H	20.0	21.0	20.5	21.4	21.8	19.7	20.7	20.2	21.1	21.5	
4H	2H	18.6	19.7	19.0	20.0	20.4	17.4	18.5	17.8	18.9	19.3
	3H	20.0	21.0	20.5	21.4	21.8	19.1	20.1	19.6	20.5	20.9
	4H	20.4	21.3	20.9	21.7	22.2	19.8	20.7	20.3	21.1	21.6
	6H	20.7	21.5	21.2	21.9	22.4	20.4	21.2	20.9	21.6	22.1
	8H	20.8	21.5	21.4	22.0	22.5	20.7	21.3	21.2	21.8	22.3
12H	20.9	21.5	21.4	22.0	22.6	20.8	21.4	21.3	21.9	22.5	
8H	4H	20.6	21.3	21.1	21.8	22.3	20.1	20.7	20.6	21.2	21.7
	6H	21.0	21.6	21.5	22.1	22.6	20.8	21.4	21.4	21.9	22.5
	8H	21.2	21.7	21.7	22.2	22.8	21.2	21.7	21.7	22.2	22.8
	12H	21.3	21.7	21.9	22.3	22.9	21.4	21.8	22.0	22.4	23.0
	12H	4H	20.6	21.2	21.1	21.7	22.3	20.1	20.7	20.6	21.2
6H		21.1	21.6	21.6	22.1	22.7	20.9	21.4	21.4	21.9	22.5
8H		21.3	21.7	21.8	22.2	22.8	21.3	21.7	21.8	22.2	22.8
Variation of the observer position for the luminaire distances S											
S = 1.0H	+0.3 / -0.2					+0.1 / -0.1					
S = 1.5H	+0.5 / -0.3					+0.2 / -0.3					
S = 2.0H	+1.0 / -1.1					+0.5 / -0.7					
Standard table	BK04					BK06					
Correction	0.2					0.9					
Summand											
Corrected Glare Indices referring to 2600lm Total Luminous Flux											

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DEXTRA Hydra Led HYD L26 PC4S / Luminance Diagram

Luminaire: DEXTRA Hydra Led HYD L26 PC4S
Lamps: 2 x Dextra LX5624 X64 HE C84 1300lm

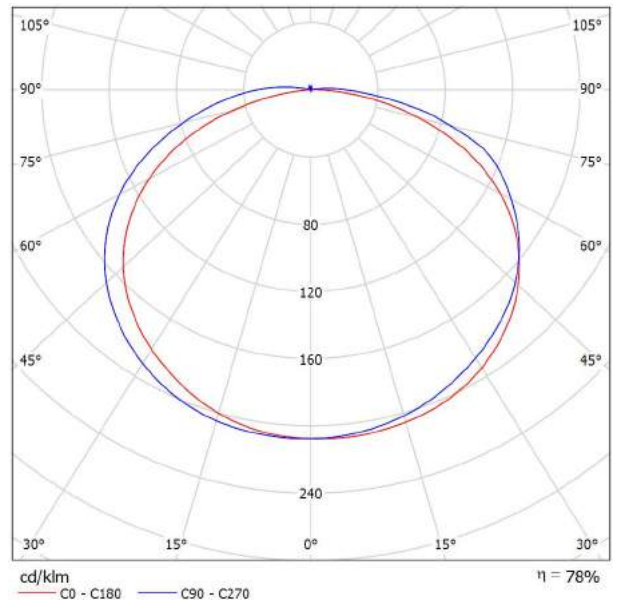


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Tryka led LTD Flex60 RGB 1m / Luminaire Data Sheet

Luminous emittance 1:

See our luminaire catalog for an image of the luminaire.



Luminaire classification according to CIE: 99
CIE flux code: 39 71 92 99 78

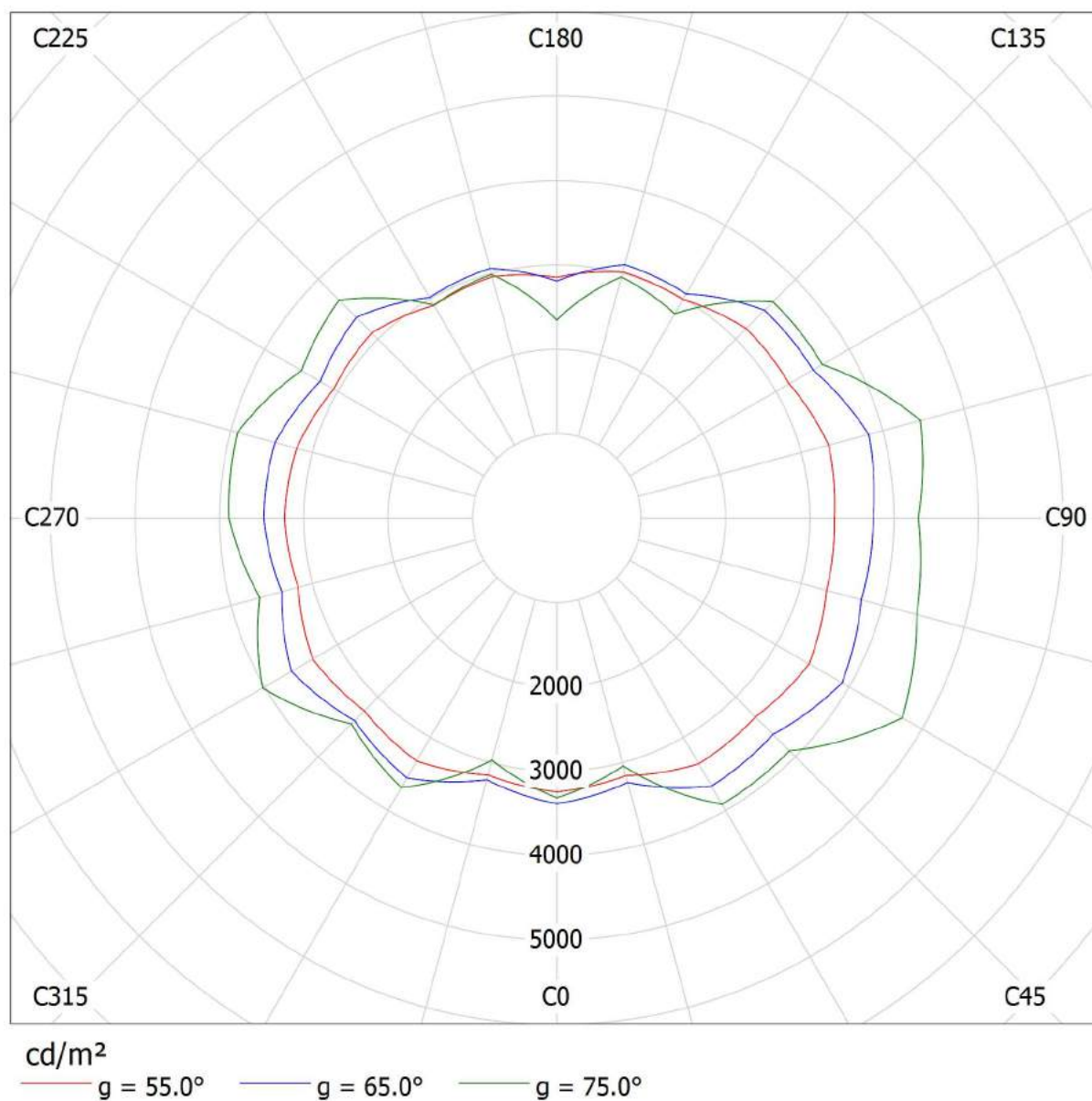
Due to missing symmetry properties, no UGR table can be displayed for this luminaire.



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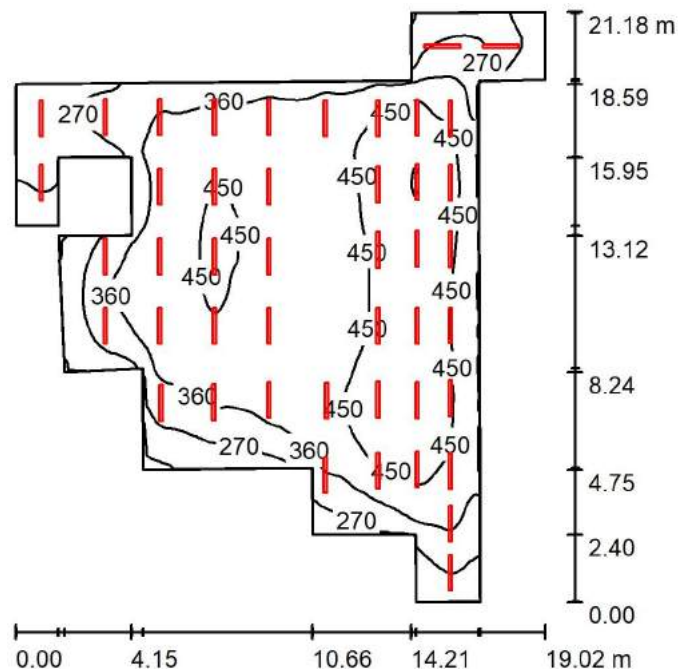
Tryka led LTD Flex60 RGB 1m / Luminance Diagram

Luminaire: Tryka led LTD Flex60 RGB 1m
Lamps: 1 x TRY-FLEX60-RGB-1M



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Ground Floor / Summary



Height of Room: 3.890 m, Mounting Height: 3.890 m, Maintenance factor: 1.00

Values in Lux, Scale 1:272

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0
Workplane	/	383	116	551	0.304
Floor	20	355	126	482	0.355
Ceiling	70	113	58	276	0.517
Walls (21)	50	213	58	1148	/

Workplane:

Height: 0.750 m
 Grid: 128 x 128 Points
 Boundary Zone: 0.000 m

Illuminance Quotient (according to LG7): Walls / Working Plane: 0.583, Ceiling / Working Plane: 0.294.

Luminaire Parts List

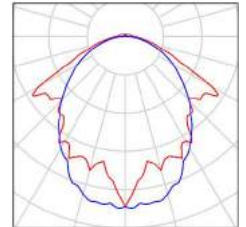
No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	45	DEXTRA Hydra Led HYD L26 PC4S (1.000)	2465	2600	18.0
Total:			110946	117000	810.0

Specific connected load: $3.52 \text{ W/m}^2 = 0.92 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 230.18 m^2)

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Ground Floor / Luminaire parts list

45 Pieces DEXTRA Hydra Led HYD L26 PC4S
Article No.: Hydra Led
Luminous flux (Luminaire): 2465 lm
Luminous flux (Lamps): 2600 lm
Luminaire Wattage: 18.0 W
Luminaire classification according to CIE: 95
CIE flux code: 45 75 94 95 95
Fitting: 2 x Dextra LX5624 X64 HE C84 1300lm
(Correction Factor 1.000).



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Ground Floor / Photometric Results

Total Luminous Flux: 110946 lm
 Total Load: 810.0 W
 Maintenance factor: 1.00
 Boundary Zone: 0.000 m

Surface	Average illuminances [lx]			Reflection factor [%]	Average luminance [cd/m ²]
	direct	indirect	total		
Workplane	292	90	383	/	/
Floor	264	91	355	20	23
Ceiling	21	91	113	70	25
Wall 1	96	81	177	50	28
Wall 2	142	94	236	50	38
Wall 3	109	91	200	50	32
Wall 4	90	95	186	50	30
Wall 5	108	93	201	50	32
Wall 6	190	94	284	50	45
Wall 7	67	67	134	50	21
Wall 8	60	65	124	50	20
Wall 9	102	70	172	50	27
Wall 10	90	82	172	50	27
Wall 11	155	86	241	50	38
Wall 12	95	75	169	50	27
Wall 13	101	76	177	50	28
Wall 14	57	69	127	50	20
Wall 15	89	77	166	50	26
Wall 16	84	84	168	50	27
Wall 17	173	91	264	50	42
Wall 18	126	85	211	50	34
Wall 19	114	82	196	50	31
Wall 20	94	83	177	50	28
Wall 21	135	83	218	50	35

Uniformity on the working plane

u₀: 0.304 (1:3)

E_{min} / E_{max}: 0.211 (1:5)

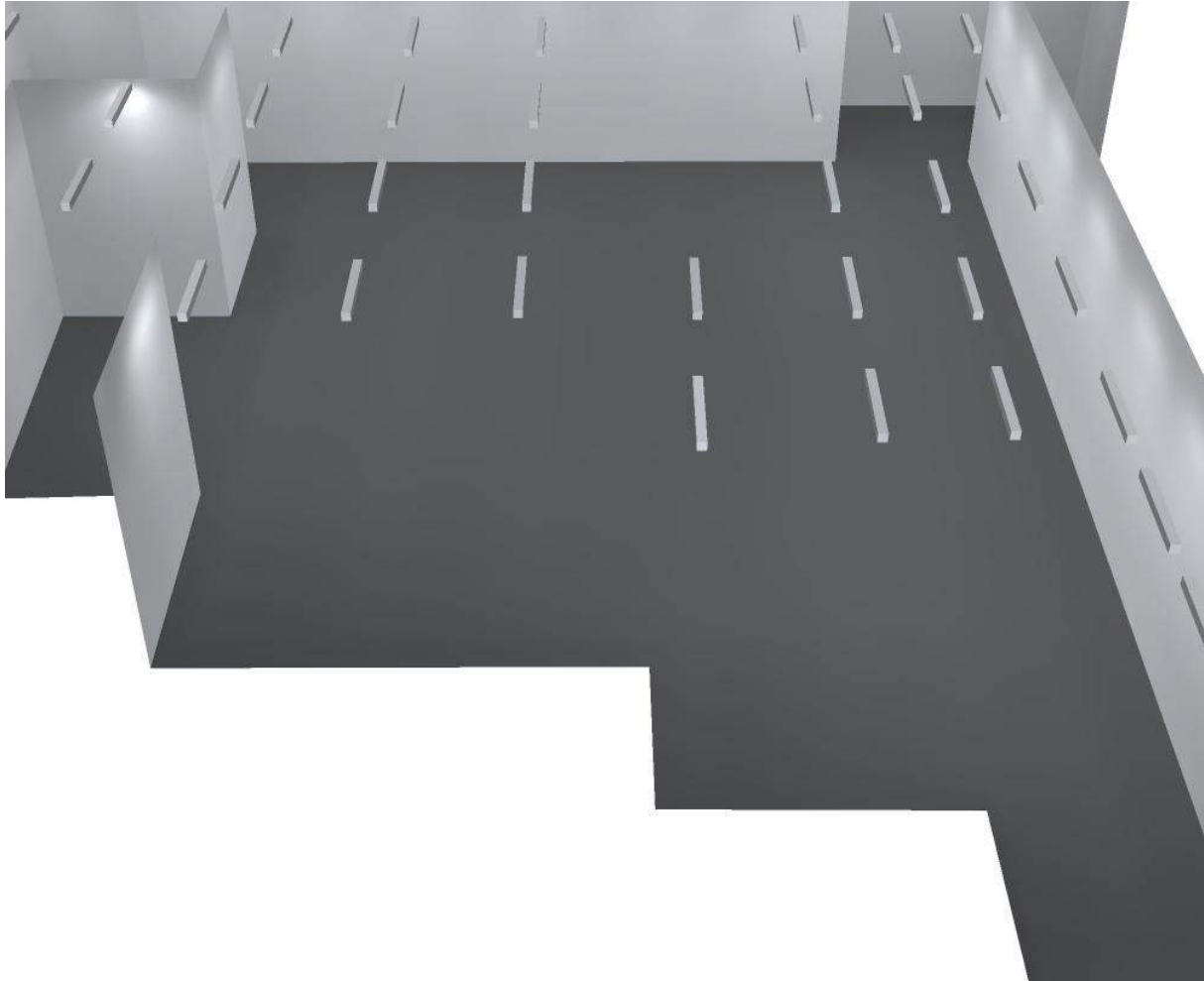
Illuminance Quotient (according to LG7): Walls / Working Plane: 0.583, Ceiling / Working Plane: 0.294.

Specific connected load: 3.52 W/m² = 0.92 W/m²/100 lx (Ground area: 230.18 m²)



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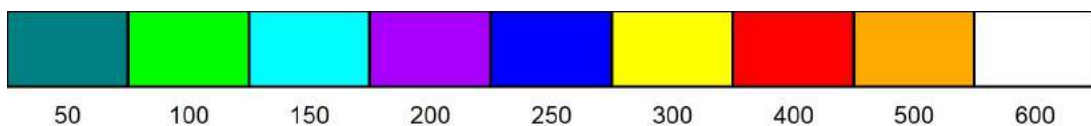
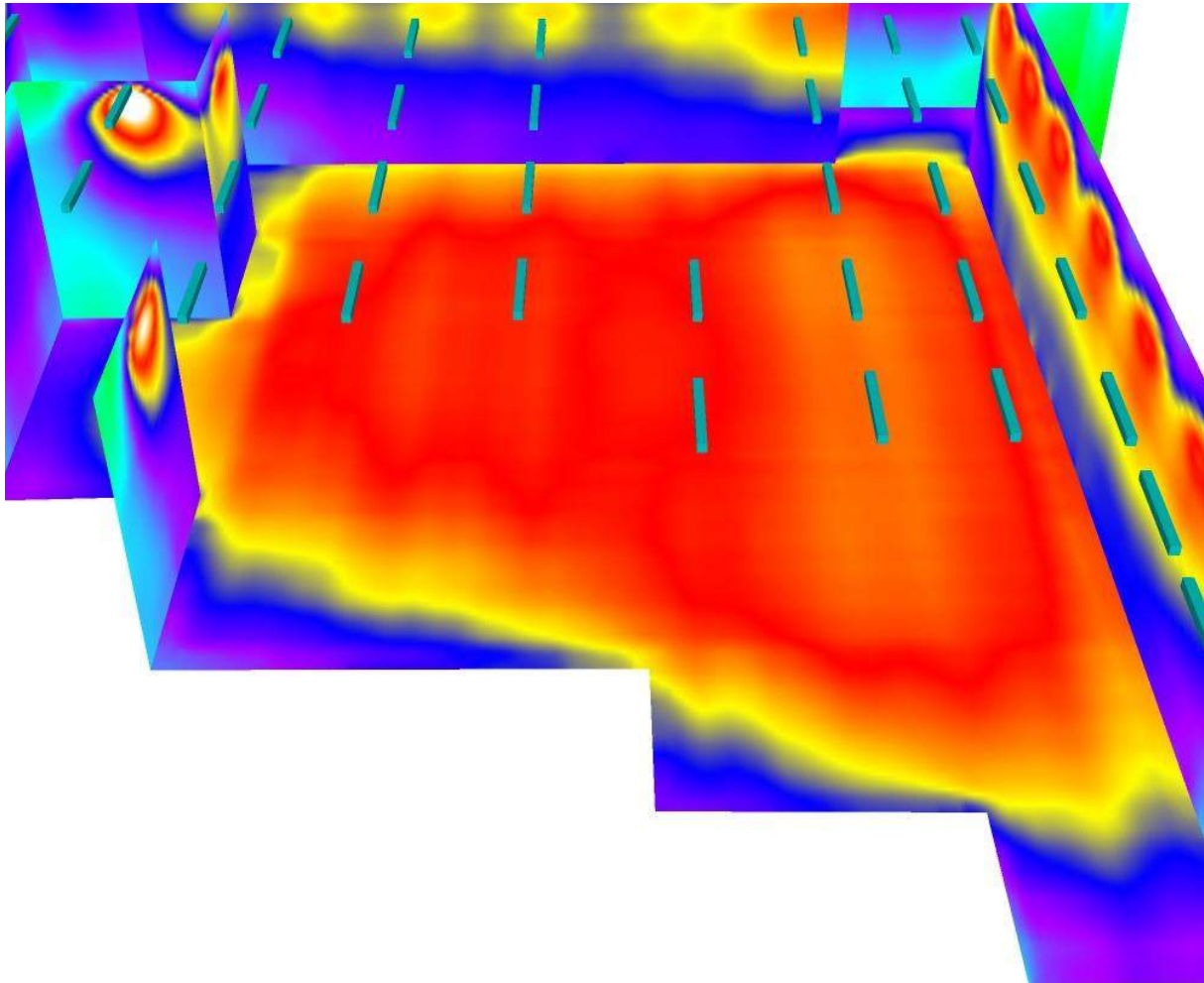
Ground Floor / 3D Rendering





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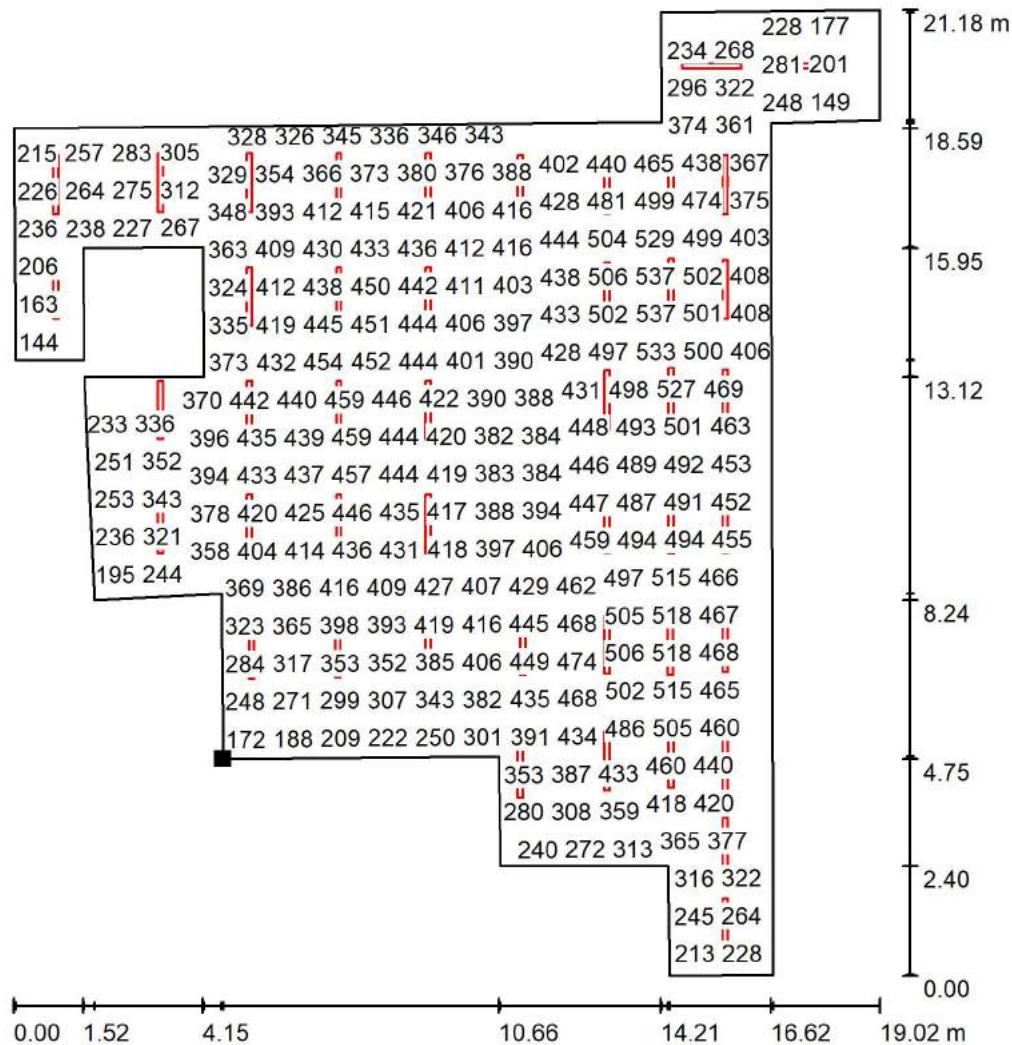
Ground Floor / False Colour Rendering



lx

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Ground Floor / Workplane / Value Chart (E)

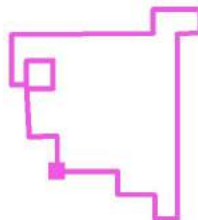


Not all calculated values could be displayed.

Position of surface in room:

Marked point:

(15.373 m, 40.607 m, 0.750 m)



Grid: 128 x 128 Points

E_{av} [lx]
383

E_{min} [lx]
116

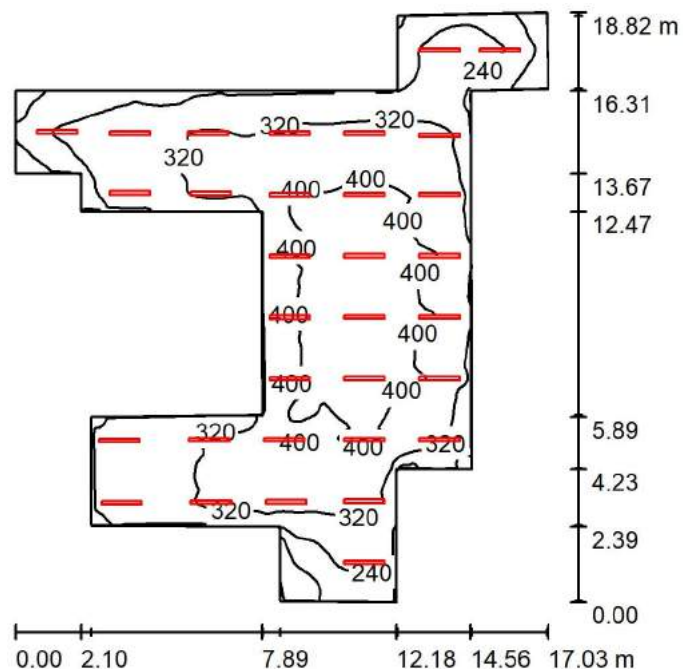
E_{max} [lx]
551

u_0
0.304

E_{min} / E_{max}
0.211

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First Floor / Summary



Height of Room: 3.000 m, Mounting Height: 3.000 m, Maintenance factor: 0.80

Values in Lux, Scale 1:242

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0
Workplane	/	323	72	453	0.223
Floor	20	290	94	407	0.326
Ceiling	70	95	50	205	0.528
Walls (18)	50	182	67	588	/

Workplane:

Height: 0.750 m
 Grid: 128 x 128 Points
 Boundary Zone: 0.000 m

Illuminance Quotient (according to LG7): Walls / Working Plane: 0.584, Ceiling / Working Plane: 0.292.

Luminaire Parts List

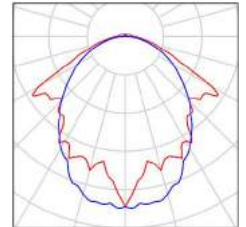
No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	32	DEXTRA Hydra Led HYD L26 PC4S (1.000)	2465	2600	18.0
Total:			78895	83200	576.0

Specific connected load: $3.69 \text{ W/m}^2 = 1.14 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 155.98 m^2)

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First Floor / Luminaire parts list

32 Pieces DEXTRA Hydra Led HYD L26 PC4S
Article No.: Hydra Led
Luminous flux (Luminaire): 2465 lm
Luminous flux (Lamps): 2600 lm
Luminaire Wattage: 18.0 W
Luminaire classification according to CIE: 95
CIE flux code: 45 75 94 95 95
Fitting: 2 x Dextra LX5624 X64 HE C84 1300lm
(Correction Factor 1.000).



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First Floor / Photometric Results

Total Luminous Flux: 78895 lm
 Total Load: 576.0 W
 Maintenance factor: 0.80
 Boundary Zone: 0.000 m

Surface	Average illuminances [lx]			Reflection factor [%]	Average luminance [cd/m²]
	direct	indirect	total		
Workplane	245	78	323	/	/
Floor	212	78	290	20	18
Ceiling	18	77	95	70	21
Wall 1	61	57	118	50	19
Wall 2	77	70	147	50	23
Wall 3	131	68	199	50	32
Wall 4	158	82	240	50	38
Wall 5	121	81	202	50	32
Wall 6	115	83	198	50	32
Wall 7	130	79	209	50	33
Wall 8	43	63	106	50	17
Wall 9	81	62	143	50	23
Wall 10	113	65	178	50	28
Wall 11	132	86	218	50	35
Wall 12	141	79	220	50	35
Wall 13	65	57	121	50	19
Wall 14	52	55	107	50	17
Wall 15	90	60	150	50	24
Wall 16	69	62	131	50	21
Wall 17	107	68	175	50	28
Wall 18	64	58	122	50	19

Uniformity on the working plane

u_0 : 0.223 (1:4)

$E_{\min} / E_{\max}$: 0.159 (1:6)

Illuminance Quotient (according to LG7): Walls / Working Plane: 0.584, Ceiling / Working Plane: 0.292.

Specific connected load: $3.69 \text{ W/m}^2 = 1.14 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 155.98 m^2)



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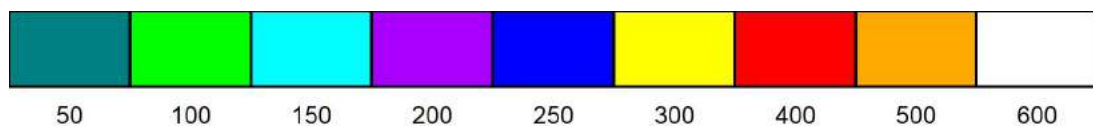
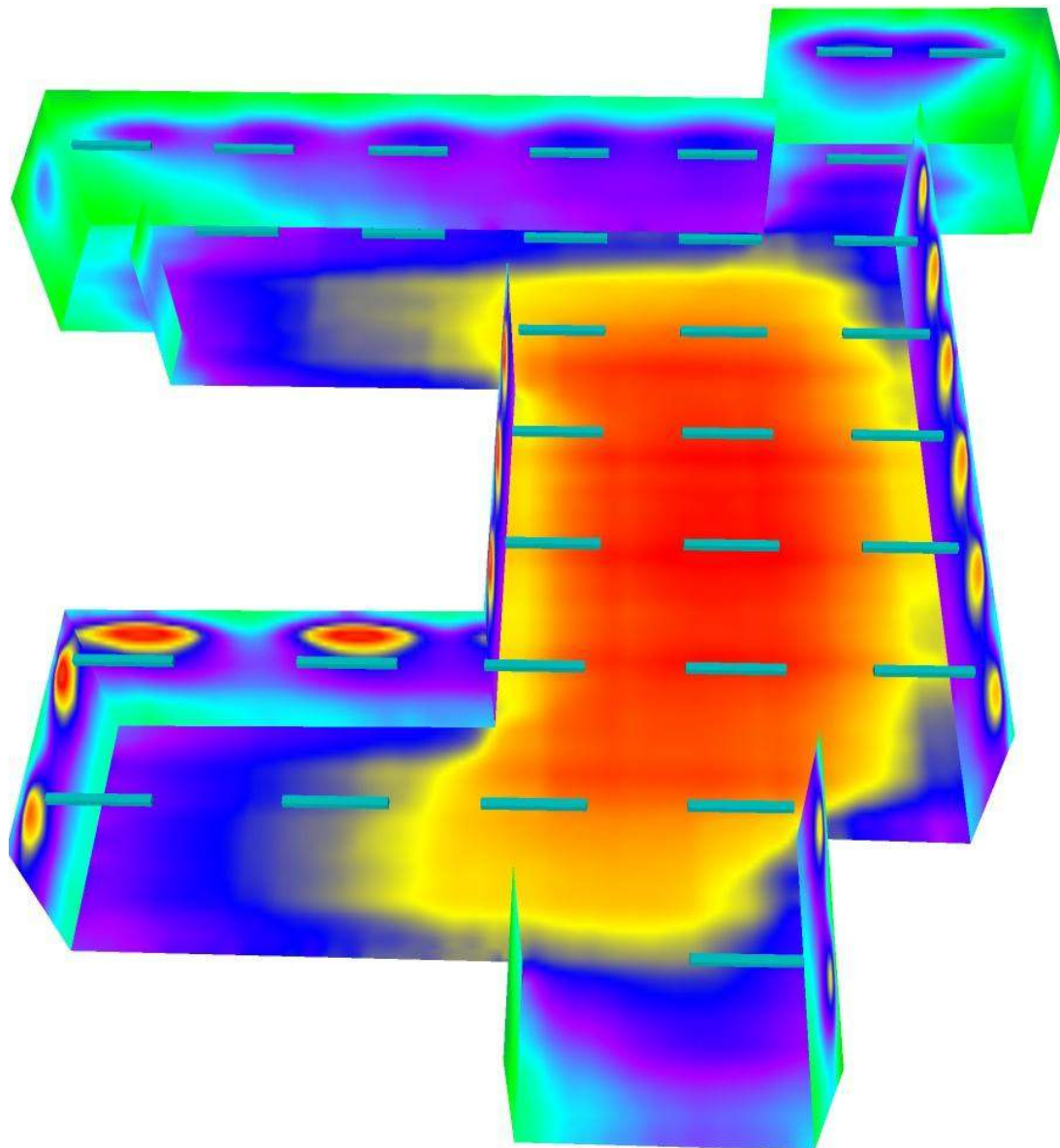
First Floor / 3D Rendering





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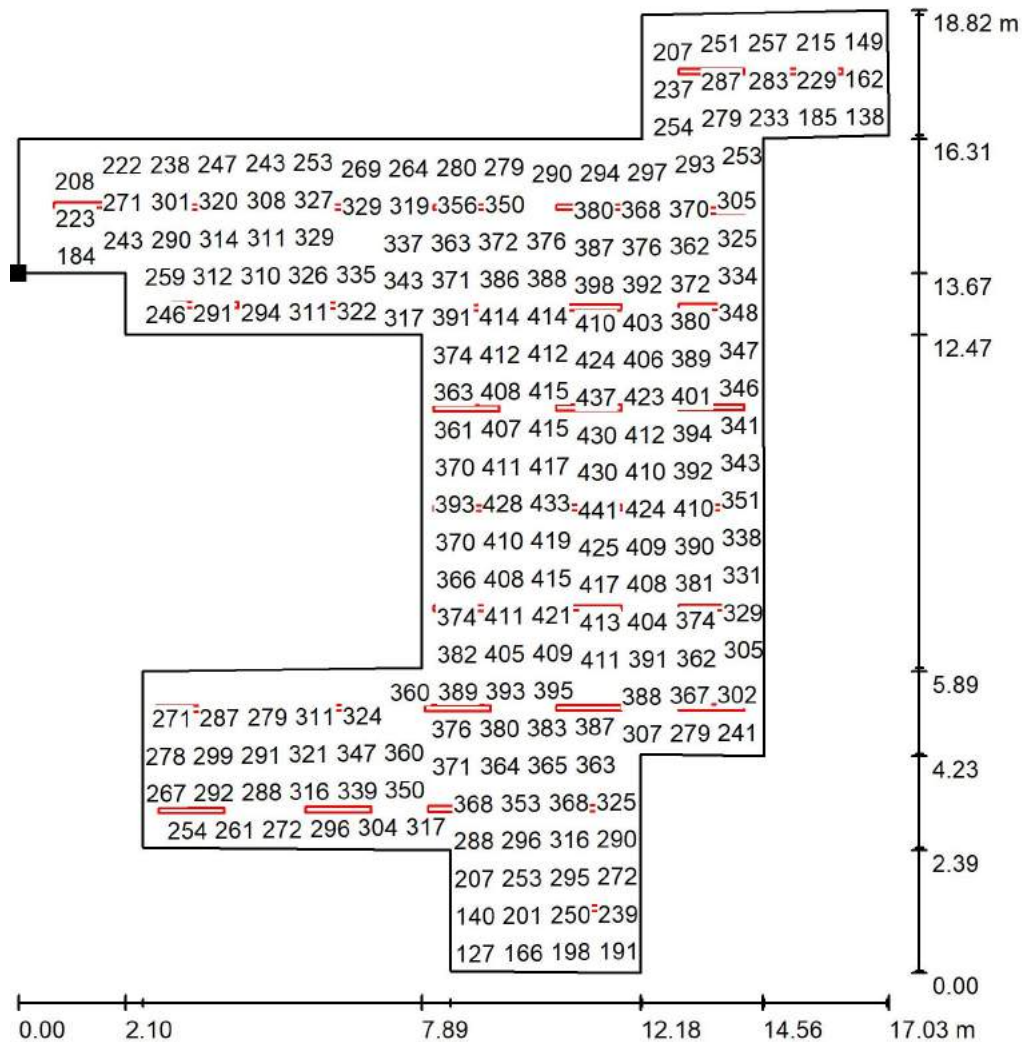
First Floor / False Colour Rendering



lx

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First Floor / Workplane / Value Chart (E)

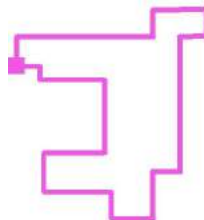


Not all calculated values could be displayed.

Position of surface in room:

Marked point:

(11.040 m, 8.410 m, 0.750 m)



Grid: 128 x 128 Points

E_{av} [lx]
323

E_{min} [lx]
72

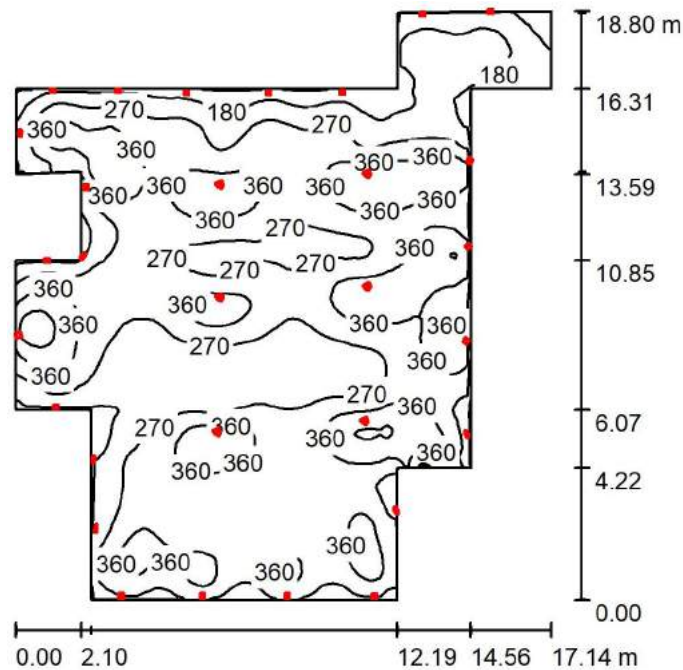
E_{max} [lx]
453

u_0
0.223

E_{min} / E_{max}
0.159

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Second / Summary



Height of Room: 3.000 m, Maintenance factor: 0.80

Values in Lux, Scale 1:242

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0
Workplane	/	298	65	497	0.216
Floor	20	274	66	372	0.240
Ceiling	70	129	43	663	0.331
Walls (16)	50	186	54	3897	/

Workplane:

Height: 0.750 m
 Grid: 128 x 128 Points
 Boundary Zone: 0.000 m

Illuminance Quotient (according to LG7): Walls / Working Plane: 0.651, Ceiling / Working Plane: 0.433.

Luminaire Parts List

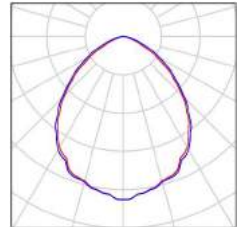
No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	36	DEXTRA Opus Led Floodlight OPU2S L30 C84 (1.000)	2701	3000	28.0
Total:			97231	108000	1008.0

Specific connected load: $4.60 \text{ W/m}^2 = 1.54 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 218.99 m^2)

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Second / Luminaire parts list

36 Pieces DEXTRA Opus Led Floodlight OPU2S L30 C84
Article No.: Opus Led Floodlight
Luminous flux (Luminaire): 2701 lm
Luminous flux (Lamps): 3000 lm
Luminaire Wattage: 28.0 W
Luminaire classification according to CIE: 100
CIE flux code: 59 89 99 100 90
Fitting: 1 x OPU2 STARK-DLE-G2-LES65-3000
(Correction Factor 1.000).



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Second / Photometric Results

Total Luminous Flux: 97231 lm
 Total Load: 1008.0 W
 Maintenance factor: 0.80
 Boundary Zone: 0.000 m

Surface	Average illuminances [lx]			Reflection factor [%]	Average luminance [cd/m²]
	direct	indirect	total		
Workplane	208	90	298	/	/
Floor	185	89	274	20	17
Ceiling	59	70	129	70	29
Wall 1	96	82	178	50	28
Wall 2	118	89	206	50	33
Wall 3	117	83	200	50	32
Wall 4	140	85	224	50	36
Wall 5	258	101	360	50	57
Wall 6	163	83	245	50	39
Wall 7	114	46	160	50	25
Wall 8	36	50	86	50	14
Wall 9	9.40	63	72	50	11
Wall 10	87	57	144	50	23
Wall 11	42	79	121	50	19
Wall 12	72	93	165	50	26
Wall 13	197	87	283	50	45
Wall 14	87	74	161	50	26
Wall 15	86	92	177	50	28
Wall 16	132	91	223	50	35

Uniformity on the working plane

u0: 0.216 (1:5)

$E_{\min} / E_{\max}$: 0.130 (1:8)

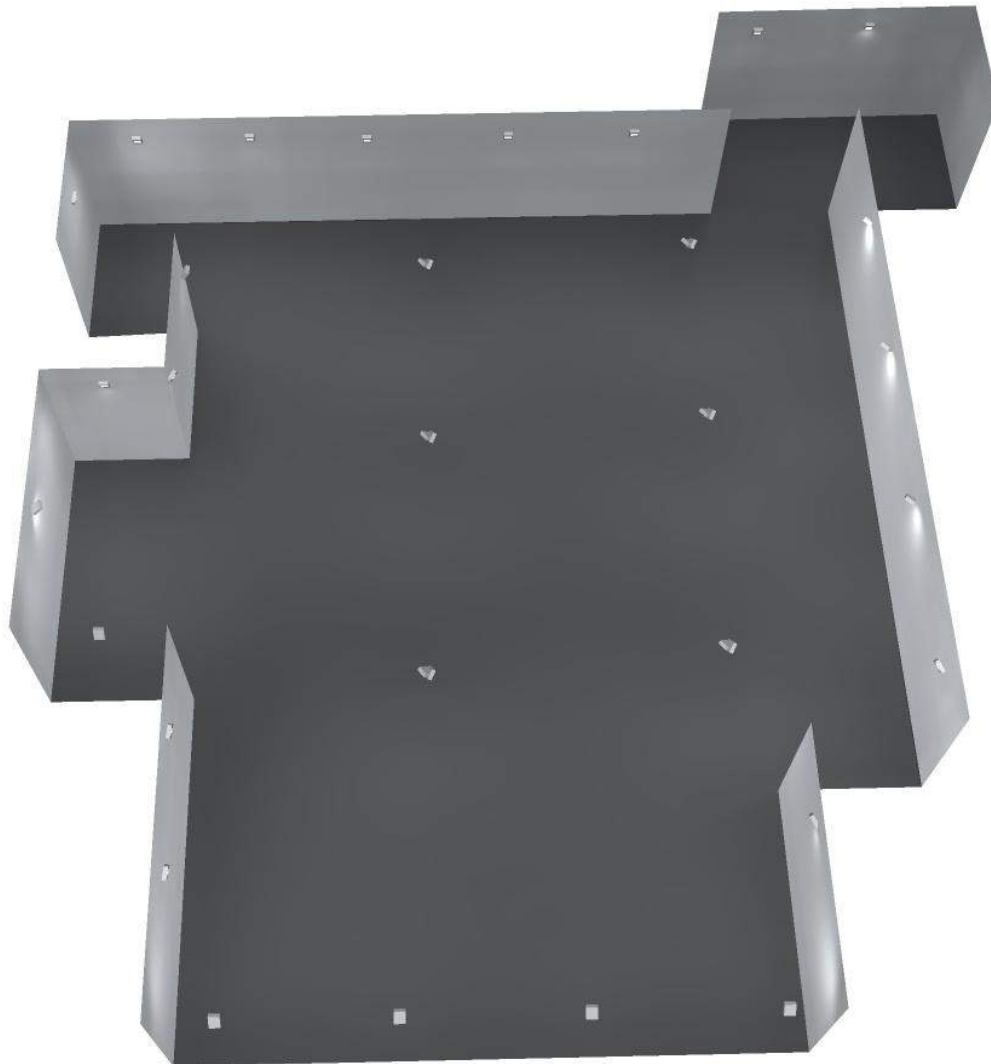
Illuminance Quotient (according to LG7): Walls / Working Plane: 0.651, Ceiling / Working Plane: 0.433.

Specific connected load: $4.60 \text{ W/m}^2 = 1.54 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 218.99 m^2)



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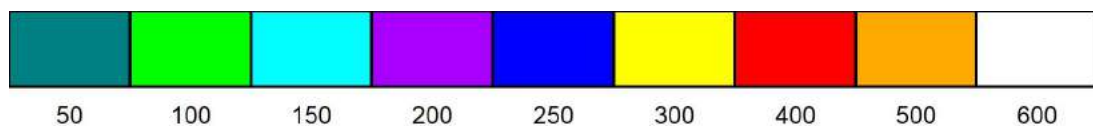
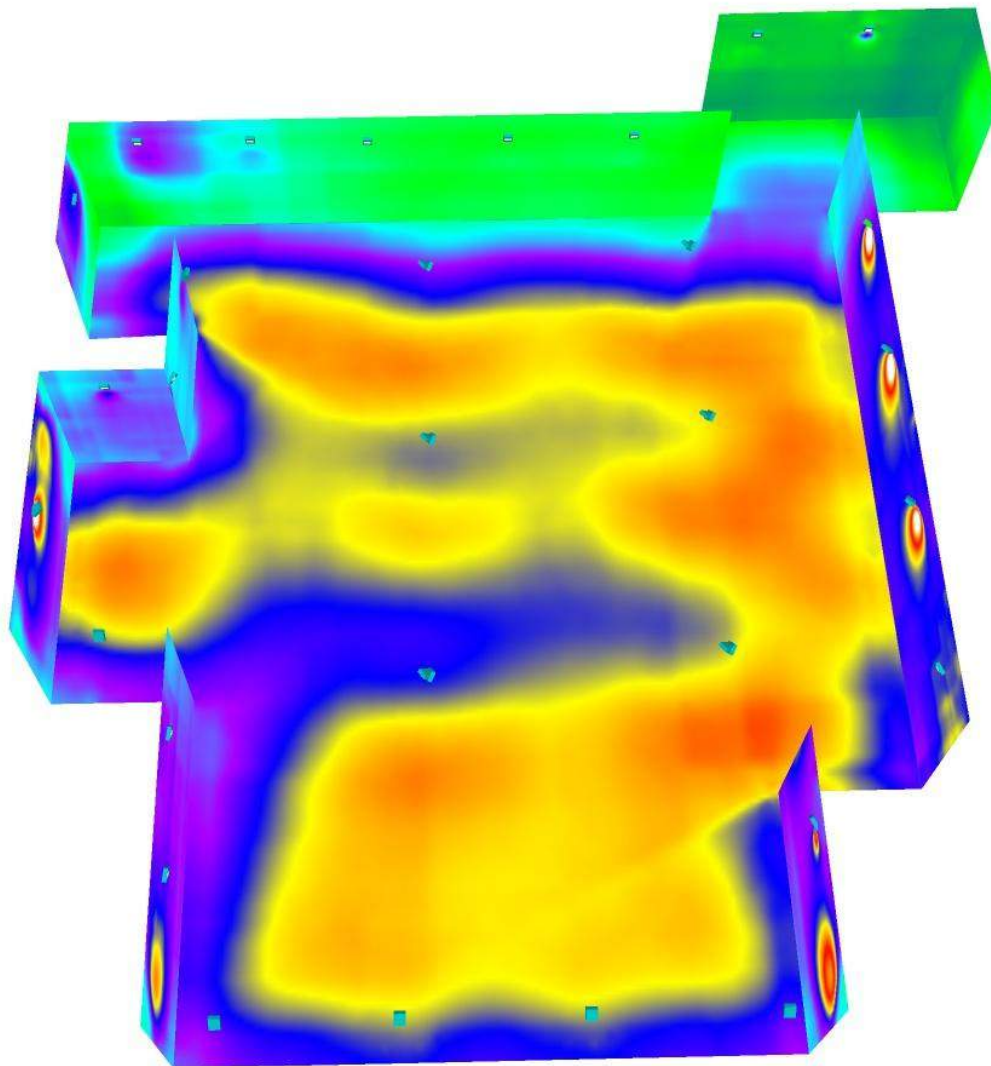
Second / 3D Rendering





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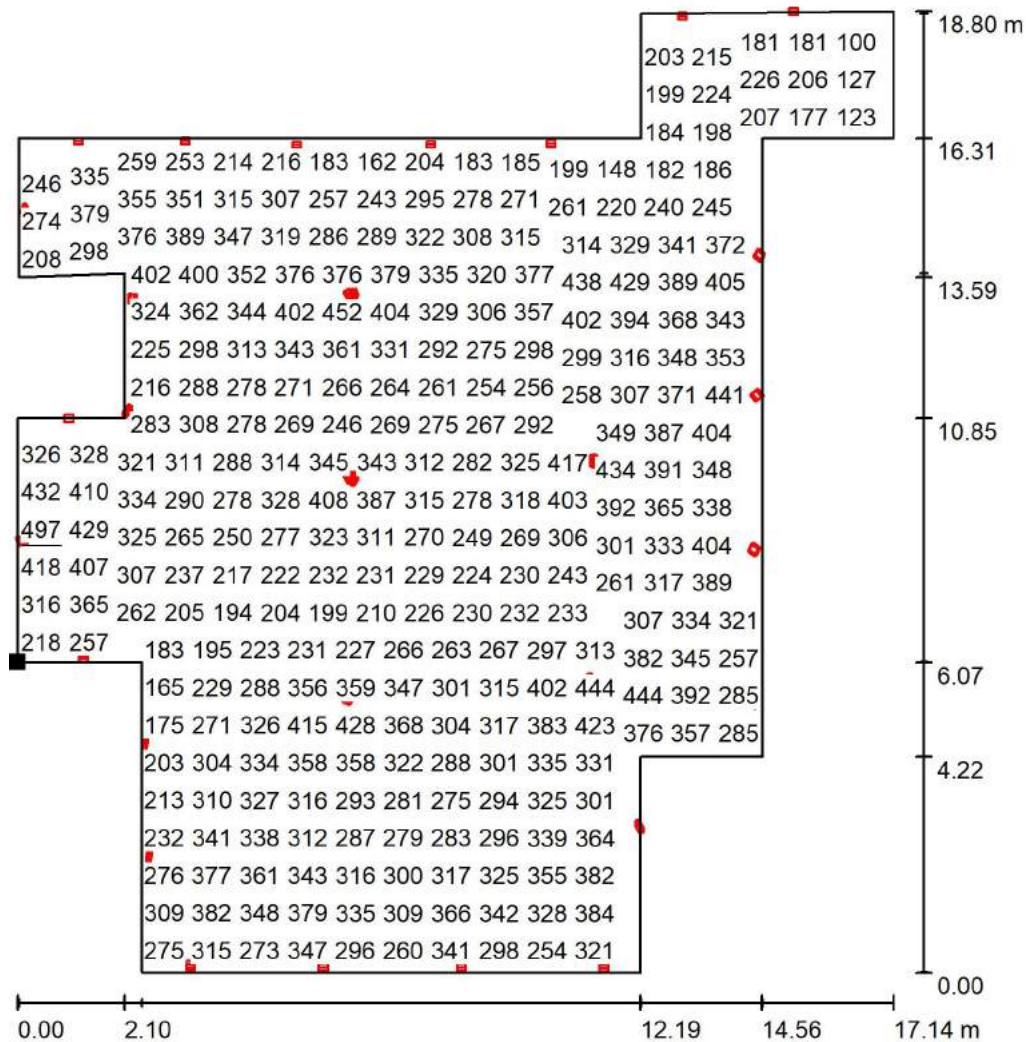
Second / False Colour Rendering



lx

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Second / Workplane / Value Chart (E)

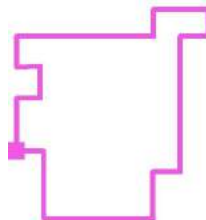


Not all calculated values could be displayed.

Position of surface in room:

Marked point:

(10.115 m, -45.187 m, 0.750 m)



Grid: 128 x 128 Points

E_{av} [lx]
298

E_{min} [lx]
65

E_{max} [lx]
497

u_0
0.216

E_{min} / E_{max}
0.130