

Wren Reading - New Scheme

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

Date: 11.04.2018
Operator: Chris Kearsley

Operator Chris Kearsley
 Telephone 020 7407 1444
 Fax
 e-Mail chris.kearsley@dowlingblunt.co.uk

Table of contents

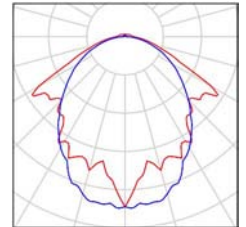
Wren Reading - New Scheme

Project Cover	1
Table of contents	2
Luminaire parts list	3
DEXTRA Opus Led Floodlight OPU2S L30 C84	
Luminaire Data Sheet	4
Luminance Diagram	5
DEXTRA Hydra Led HYD L22 PC 2S	
Luminaire Data Sheet	6
Luminance Diagram	7
DEXTRA Hydra Led HYD L26 PC4S	
Luminaire Data Sheet	8
Luminance Diagram	9
Tryka led LTD Flex60 RGB 1m	
Luminaire Data Sheet	10
Flex60 RGB 1m	
Luminance Diagram	11
Ground Floor	
Summary	12
Luminaire parts list	13
Photometric Results	14
3D Rendering	15
False Colour Rendering	16
Room Surfaces	
Workplane	
Value Chart (E)	17
First Floor	
Summary	18
Luminaire parts list	19
Photometric Results	20
3D Rendering	21
False Colour Rendering	22
Room Surfaces	
Workplane	
Value Chart (E)	23
Second	
Summary	24
Luminaire parts list	25
Photometric Results	26
3D Rendering	28
False Colour Rendering	29
Room Surfaces	
Workplane	
Value Chart (E)	30

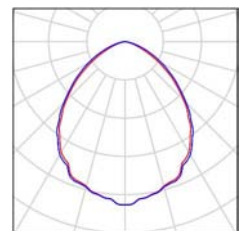
Operator Chris Kearsley
Telephone 020 7407 1444
Fax
e-Mail chris.kearsley@dowlingblunt.co.uk

Wren Reading - New Scheme / Luminaire parts list

58 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).



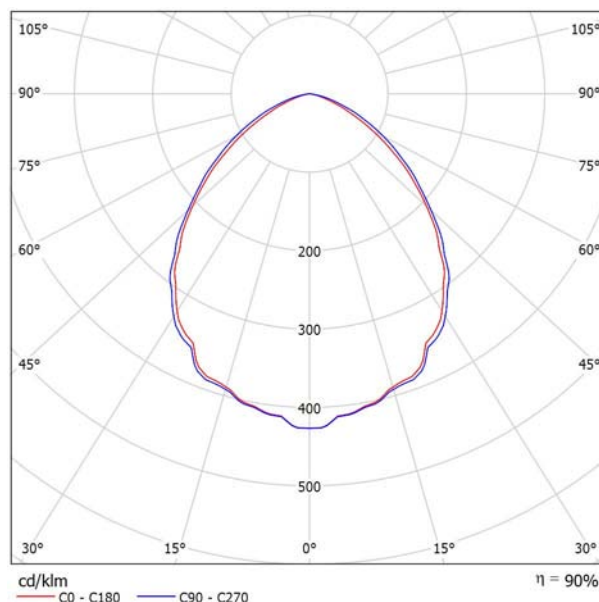
31 Pieces DEXTRA Opus Led Floodlight OPU2S L30 C84
Article No.: Opus Led Floodlight
Luminous flux (Luminaire): 2701 lm
Luminous flux (Lamps): 3000 lm
Luminaire Wattage: 28.0 W
Luminaire classification according to CIE: 100
CIE flux code: 59 89 99 100 90
Fitting: 1 x OPU2 STARK-DLE-G2-LES65-3000
(Correction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



Operator Chris Kearsley
 Telephone 020 7407 1444
 Fax
 e-Mail chris.kearsley@dowlingblunt.co.uk

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.

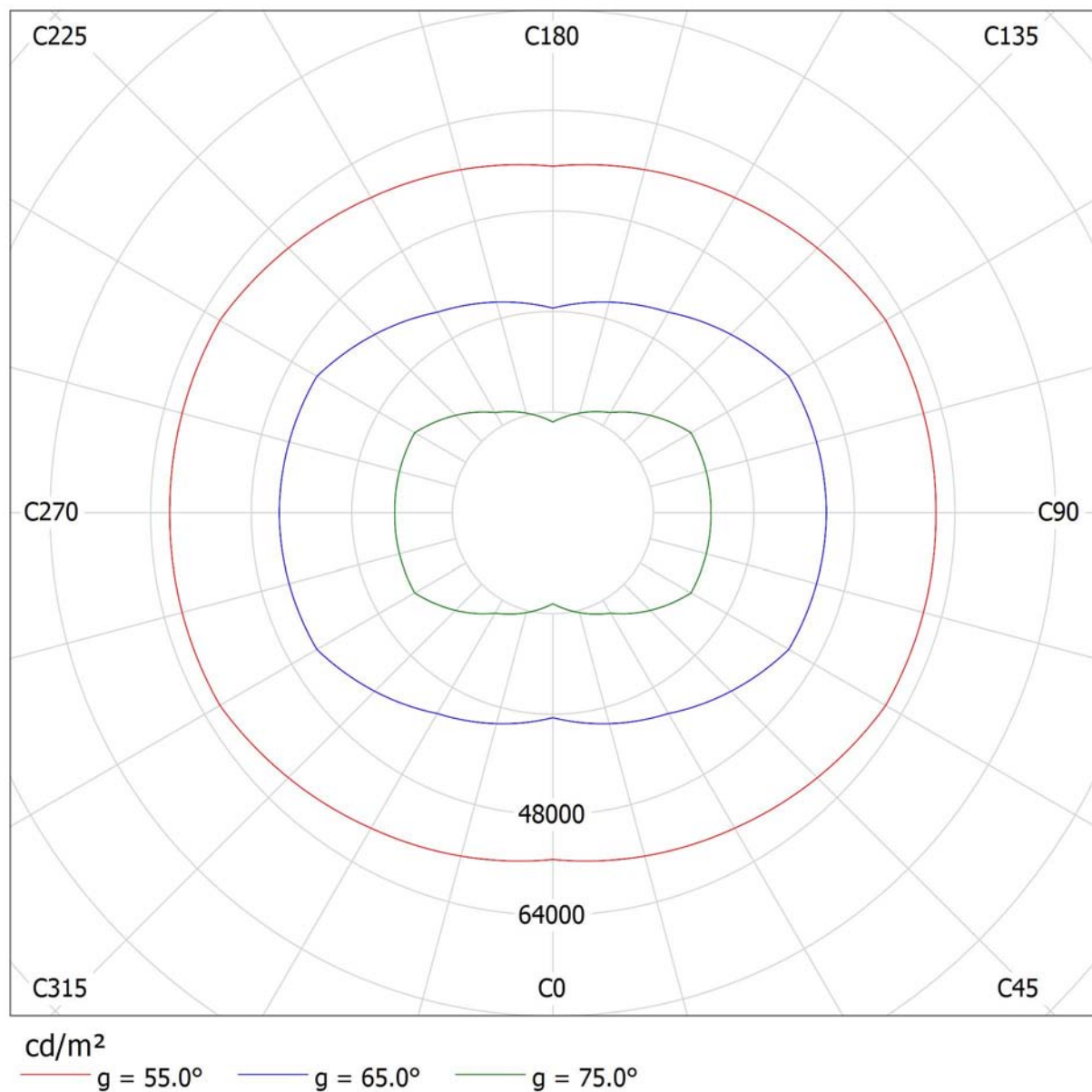
Luminous emittance 1:

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	26.8	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	
4H	12H	25.9	26.7	26.2	27.0	27.3	27.1	27.9	27.5	28.3	28.6	
	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	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	
	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	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	
	8H	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												

Operator Chris Kearsley
Telephone 020 7407 1444
Fax
e-Mail chris.kearsley@dowlingblunt.co.uk

DEXTRA Opus Led Floodlight OPU2S L30 C84 / Luminance Diagram

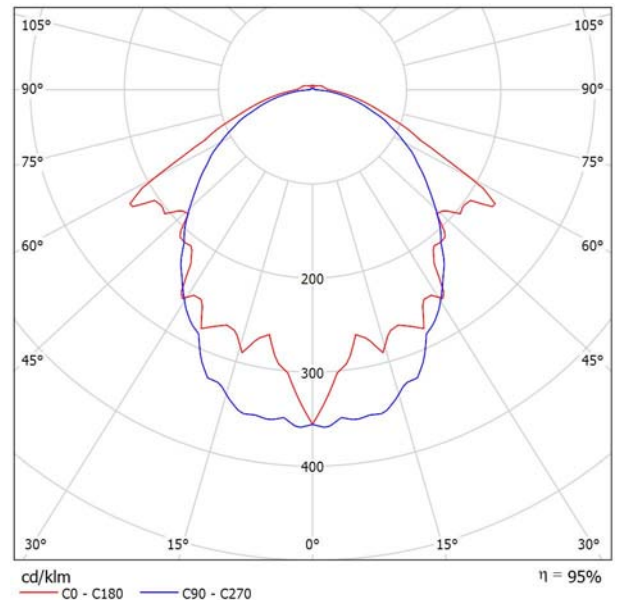
Luminaire: DEXTRA Opus Led Floodlight OPU2S L30 C84
Lamps: 1 x OPU2 STARK-DLE-G2-LES65-3000



Operator Chris Kearsley
 Telephone 020 7407 1444
 Fax
 e-Mail chris.kearsley@dowlingblunt.co.uk

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.

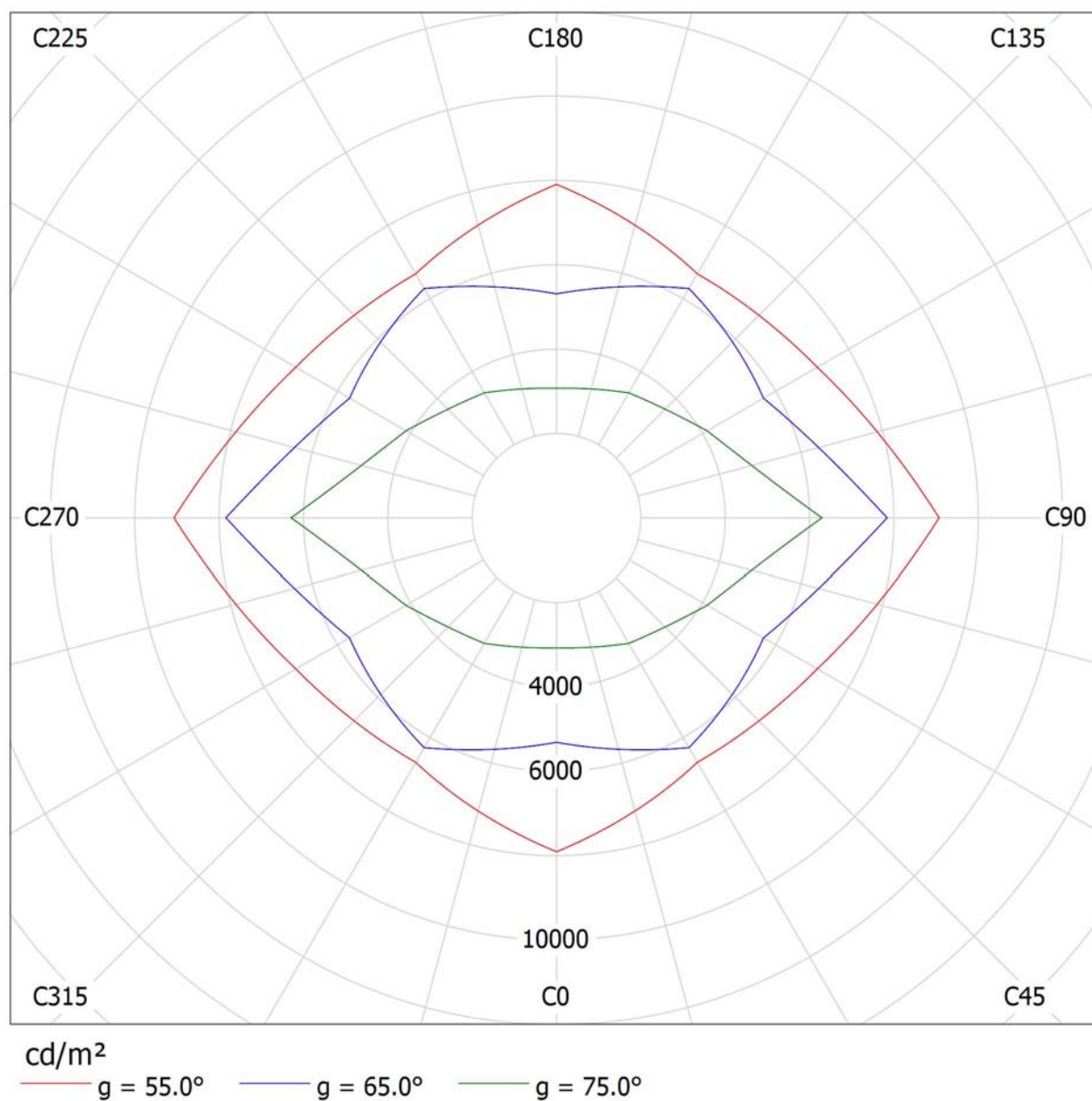
Luminous emittance 1:

Glare Evaluation According to UGR											
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	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											

Operator Chris Kearsley
Telephone 020 7407 1444
Fax
e-Mail chris.kearsley@dowlingblunt.co.uk

DEXTRA Hydra Led HYD L22 PC 2S / Luminance Diagram

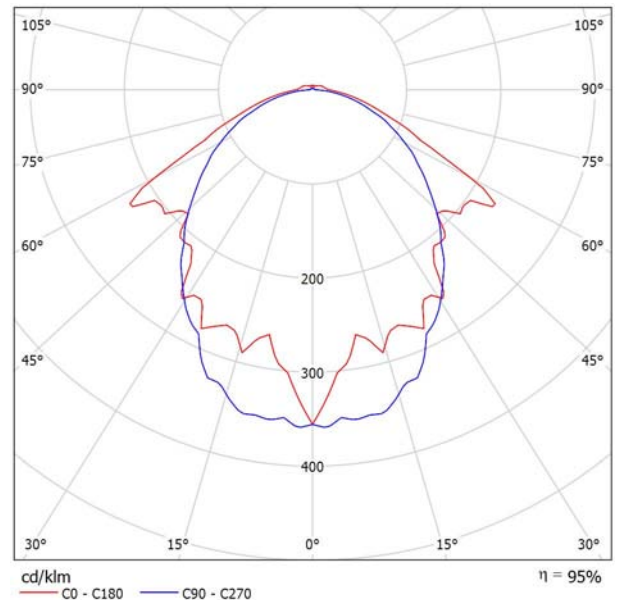
Luminaire: DEXTRA Hydra Led HYD L22 PC 2S
Lamps: 1 x Dextra LX5624 X64 HE C84 2200lm



Operator Chris Kearsley
 Telephone 020 7407 1444
 Fax
 e-Mail chris.kearsley@dowlingblunt.co.uk

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.

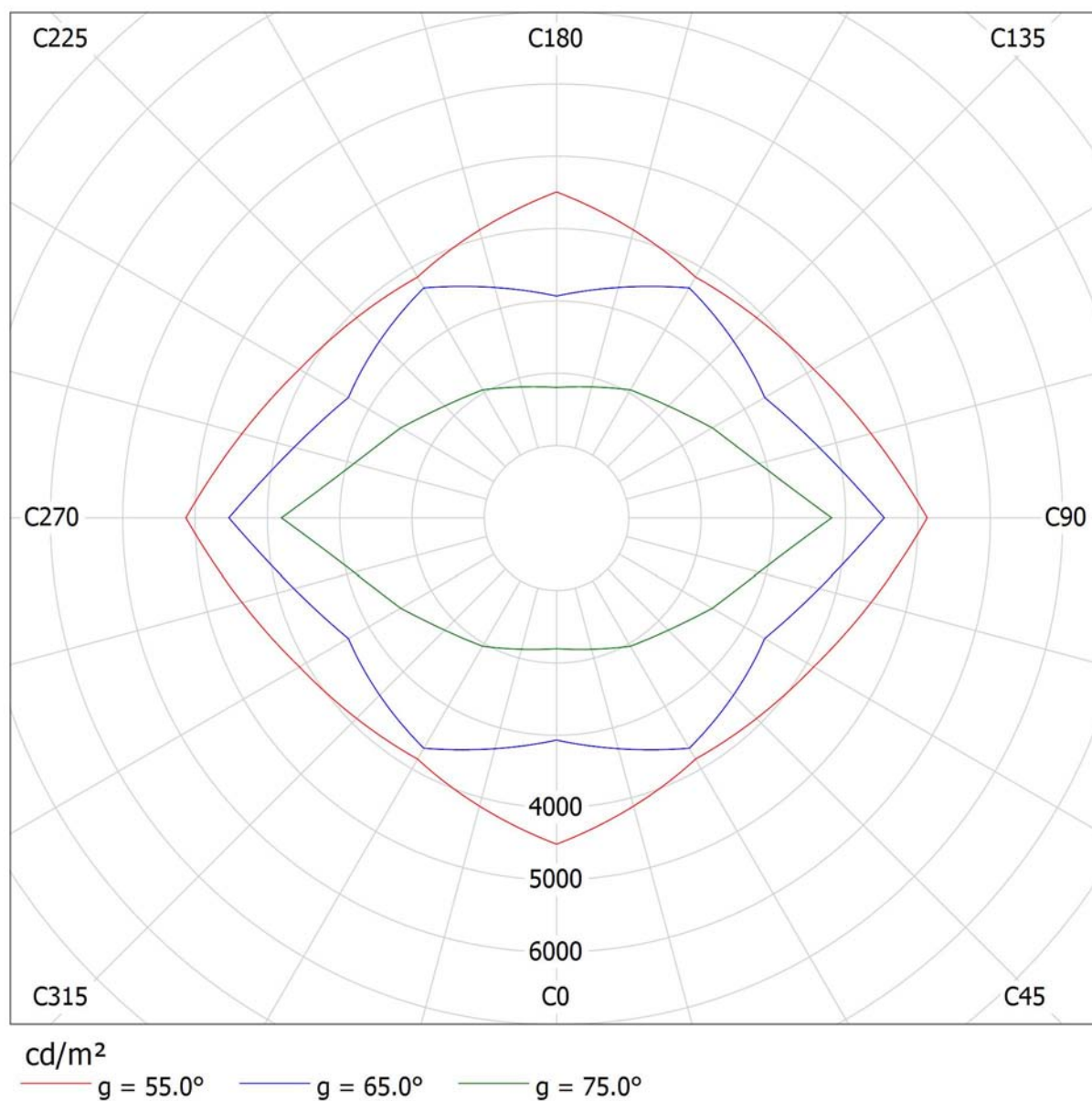
Luminous emittance 1:

Glare Evaluation According to UGR											
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	19.5	18.6	19.8	20.2	16.8	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
4H	12H	20.0	21.0	20.5	21.4	21.8	19.7	20.7	20.2	21.1	21.5
	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	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
	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	12H	21.3	21.7	21.9	22.3	22.9	21.4	21.8	22.0	22.4	23.0
	4H	20.6	21.2	21.1	21.7	22.3	20.1	20.7	20.6	21.2	21.7
	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											

Operator Chris Kearsley
Telephone 020 7407 1444
Fax
e-Mail chris.kearsley@dowlingblunt.co.uk

DEXTRA Hydra Led HYD L26 PC4S / Luminance Diagram

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

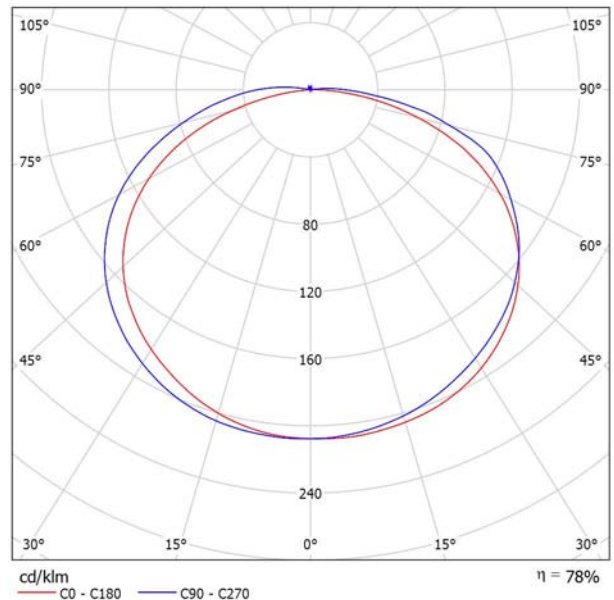


Operator Chris Kearsley
Telephone 020 7407 1444
Fax
e-Mail chris.kearsley@dowlingblunt.co.uk

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

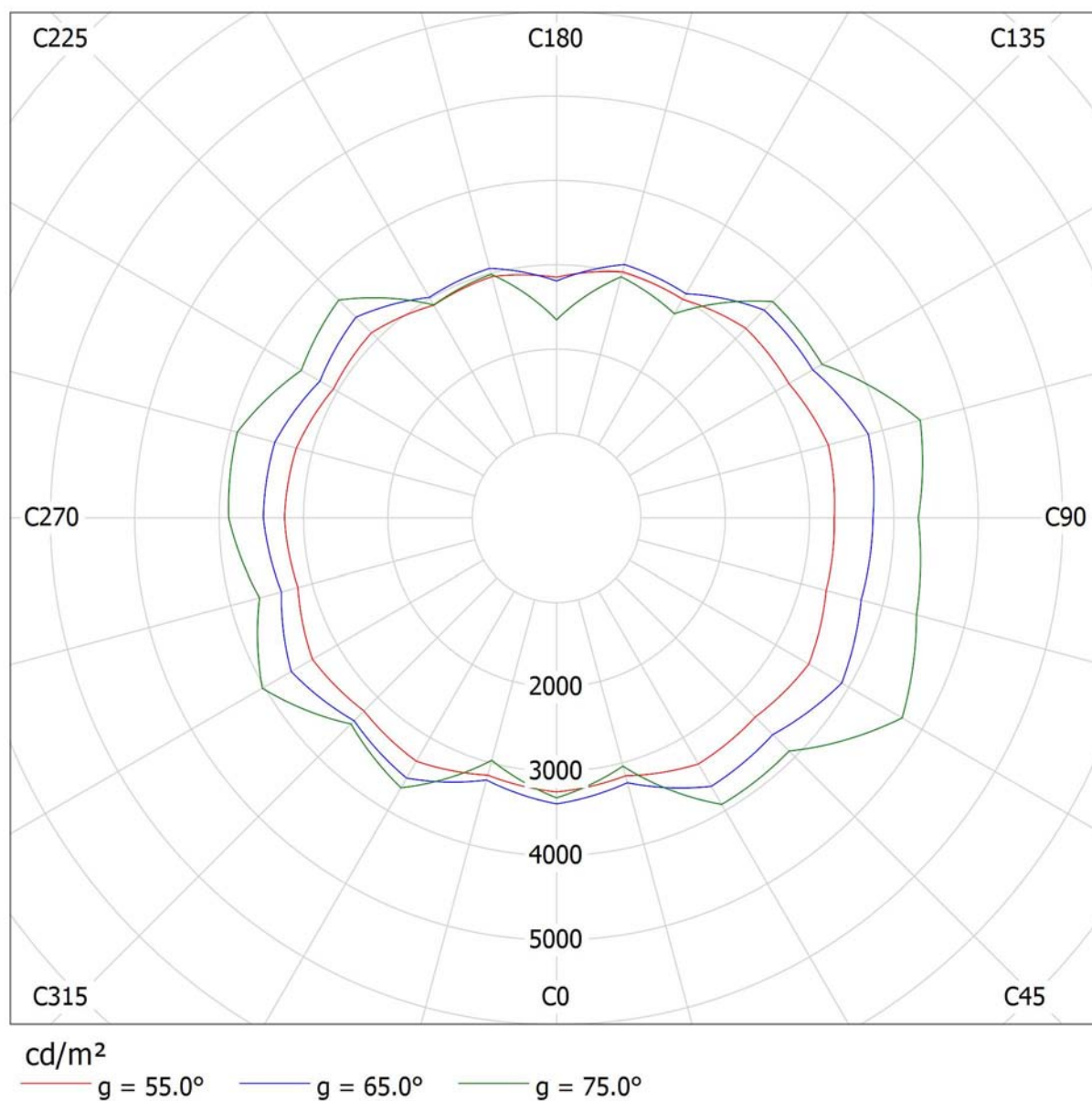
Due to missing symmetry properties, no UGR table can be displayed for this luminaire.



Operator Chris Kearsley
Telephone 020 7407 1444
Fax
e-Mail chris.kearsley@dowlingblunt.co.uk

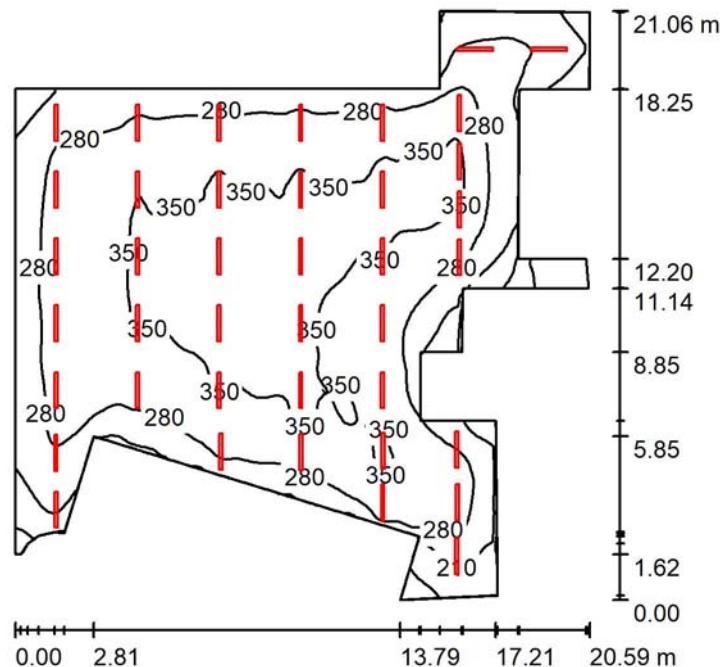
Tryka led LTD Flex60 RGB 1m / Luminance Diagram

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



Operator Chris Kearsley
 Telephone 020 7407 1444
 Fax
 e-Mail chris.kearsley@dowlingblunt.co.uk

Ground Floor / Summary



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

Values in Lux, Scale 1:271

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0
Workplane	/	297	27	376	0.091
Floor	20	278	41	366	0.148
Ceiling	70	85	19	245	0.221
Walls (24)	50	159	19	947	/

Workplane:

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

Illuminance Quotient (according to LG7): Walls / Working Plane: 0.555, Ceiling / Working Plane: 0.285.

Luminaire Parts List

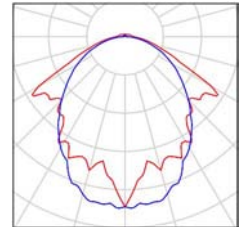
No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	40	DEXTRA Hydra Led HYD L26 PC4S (1.000)	2465	2600	18.0
Total:			98619	104000	720.0

Specific connected load: $2.63 \text{ W/m}^2 = 0.89 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 273.61 m^2)

Operator Chris Kearsley
Telephone 020 7407 1444
Fax
e-Mail chris.kearsley@dowlingblunt.co.uk

Ground Floor / Luminaire parts list

40 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).



Operator Chris Kearsley
 Telephone 020 7407 1444
 Fax
 e-Mail chris.kearsley@dowlingblunt.co.uk

Ground Floor / Photometric Results

Total Luminous Flux: 98619 lm
 Total Load: 720.0 W
 Maintenance factor: 1.00
 Boundary Zone: 0.000 m

Surface	Average illuminances [lx]			Reflection factor [%]	Average luminance [cd/m²]
	direct	indirect	total		
Workplane	230	67	297	/	/
Floor	209	69	278	20	18
Ceiling	16	69	85	70	19
Wall 1	49	60	109	50	17
Wall 2	61	59	120	50	19
Wall 3	107	65	172	50	27
Wall 4	101	76	177	50	28
Wall 5	134	68	202	50	32
Wall 6	61	59	121	50	19
Wall 7	72	60	132	50	21
Wall 8	46	36	82	50	13
Wall 9	14	21	34	50	5.46
Wall 10	2.27	25	27	50	4.29
Wall 11	115	62	177	50	28
Wall 12	57	55	112	50	18
Wall 13	59	55	114	50	18
Wall 14	80	55	135	50	22
Wall 15	76	61	137	50	22
Wall 16	119	66	185	50	29
Wall 17	113	69	182	50	29
Wall 18	32	53	85	50	14
Wall 19	6.00	56	62	50	9.89
Wall 20	32	63	95	50	15
Wall 21	110	73	183	50	29
Wall 22	151	81	232	50	37
Wall 23	116	78	194	50	31
Wall 24	122	68	190	50	30

Uniformity on the working plane

u0: 0.091 (1:11)

$E_{\min} / E_{\max}$: 0.072 (1:14)

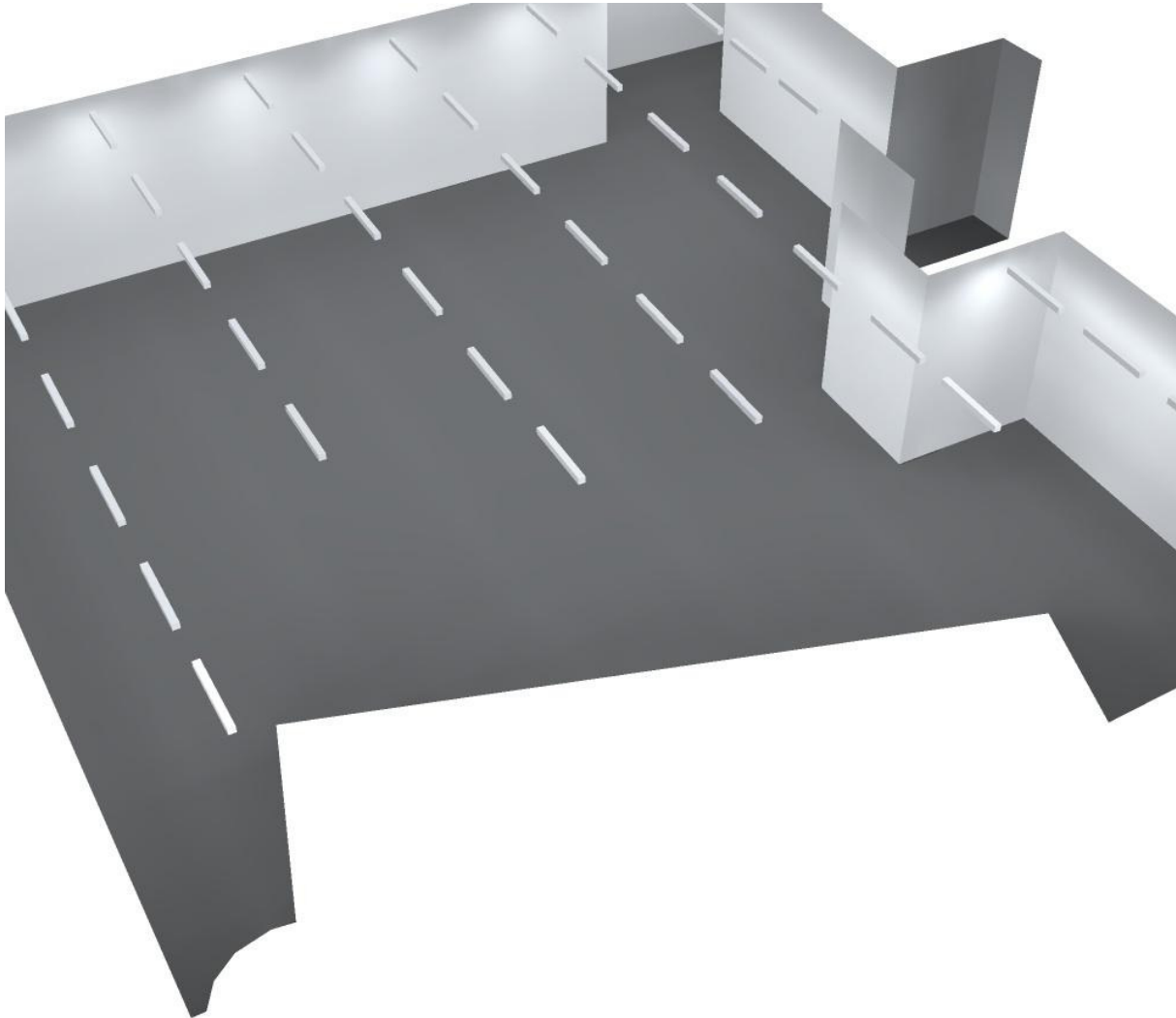
Illuminance Quotient (according to LG7): Walls / Working Plane: 0.555, Ceiling / Working Plane: 0.285.

Specific connected load: $2.63 \text{ W/m}^2 = 0.89 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 273.61 m^2)



Operator Chris Kearsley
Telephone 020 7407 1444
Fax
e-Mail chris.kearsley@dowlingblunt.co.uk

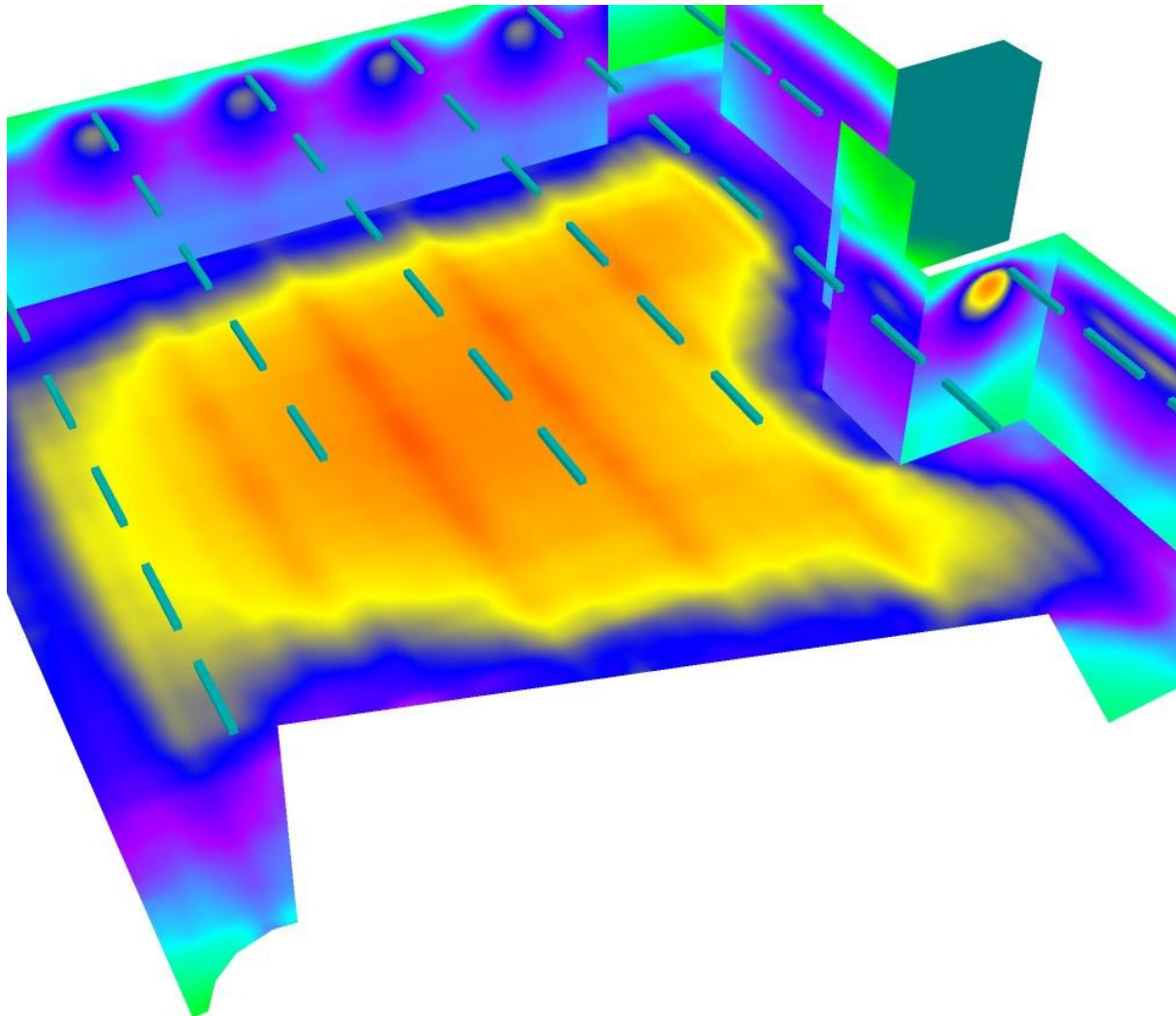
Ground Floor / 3D Rendering





Operator Chris Kearsley
Telephone 020 7407 1444
Fax
e-Mail chris.kearsley@dowlingblunt.co.uk

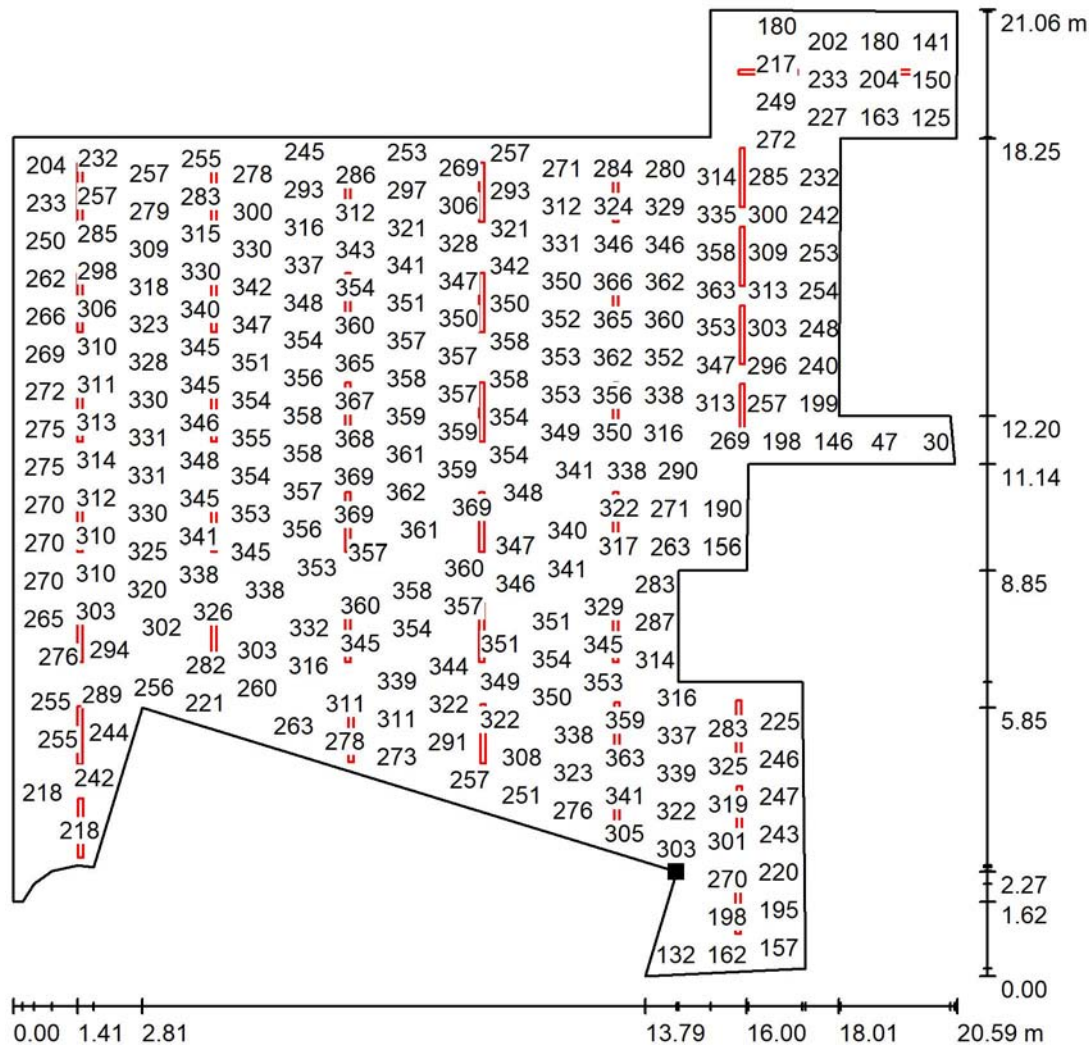
Ground Floor / False Colour Rendering



lx

Operator Chris Kearsley
 Telephone 020 7407 1444
 Fax
 e-Mail chris.kearsley@dowlingblunt.co.uk

Ground Floor / Workplane / Value Chart (E)



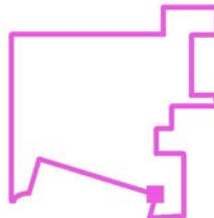
Values in Lux, Scale 1 : 165

Not all calculated values could be displayed.

Position of surface in room:

Marked point:

(-1.703 m, 40.976 m, 0.750 m)



Grid: 128 x 128 Points

E_{av} [lx]
297

E_{min} [lx]
27

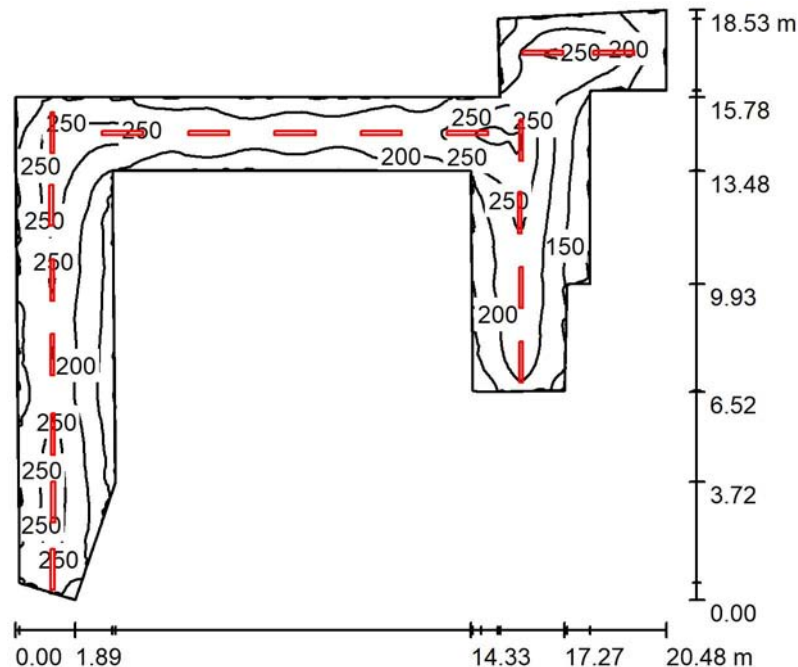
E_{max} [lx]
376

u_0
0.091

E_{min} / E_{max}
0.072

Operator Chris Kearsley
 Telephone 020 7407 1444
 Fax
 e-Mail chris.kearsley@dowlingblunt.co.uk

First Floor / Summary



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

Values in Lux, Scale 1:238

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0
Workplane	/	207	95	316	0.460
Floor	20	175	94	244	0.535
Ceiling	70	66	38	218	0.577
Walls (16)	50	126	48	989	/

Workplane:

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

Illuminance Quotient (according to LG7): Walls / Working Plane: 0.631, Ceiling / Working Plane: 0.320.

Luminaire Parts List

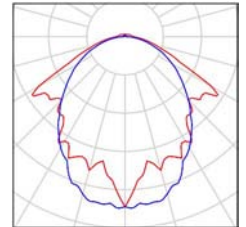
No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	18	DEXTRA Hydra Led HYD L26 PC4S (1.000)	2465	2600	18.0
Total:			44378	46800	324.0

Specific connected load: $2.79 \text{ W/m}^2 = 1.35 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 115.98 m^2)

Operator Chris Kearsley
Telephone 020 7407 1444
Fax
e-Mail chris.kearsley@dowlingblunt.co.uk

First Floor / Luminaire parts list

18 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).



Operator Chris Kearsley
 Telephone 020 7407 1444
 Fax
 e-Mail chris.kearsley@dowlingblunt.co.uk

First Floor / Photometric Results

Total Luminous Flux: 44378 lm
 Total Load: 324.0 W
 Maintenance factor: 0.80
 Boundary Zone: 0.000 m

Surface	Average illuminances [lx]			Reflection factor [%]	Average luminance [cd/m²]
	direct	indirect	total		
Workplane	150	57	207	/	/
Floor	120	56	175	20	11
Ceiling	13	53	66	70	15
Wall 1	81	61	143	50	23
Wall 2	60	52	112	50	18
Wall 3	75	56	132	50	21
Wall 4	69	46	116	50	18
Wall 5	45	45	90	50	14
Wall 6	79	49	129	50	20
Wall 7	70	49	119	50	19
Wall 8	25	43	67	50	11
Wall 9	58	44	102	50	16
Wall 10	62	46	108	50	17
Wall 11	45	44	89	50	14
Wall 12	73	46	118	50	19
Wall 13	60	47	107	50	17
Wall 14	84	54	137	50	22
Wall 15	89	53	142	50	23
Wall 16	115	63	178	50	28

Uniformity on the working plane

u0: 0.460 (1:2)

$E_{\min} / E_{\max}$: 0.302 (1:3)

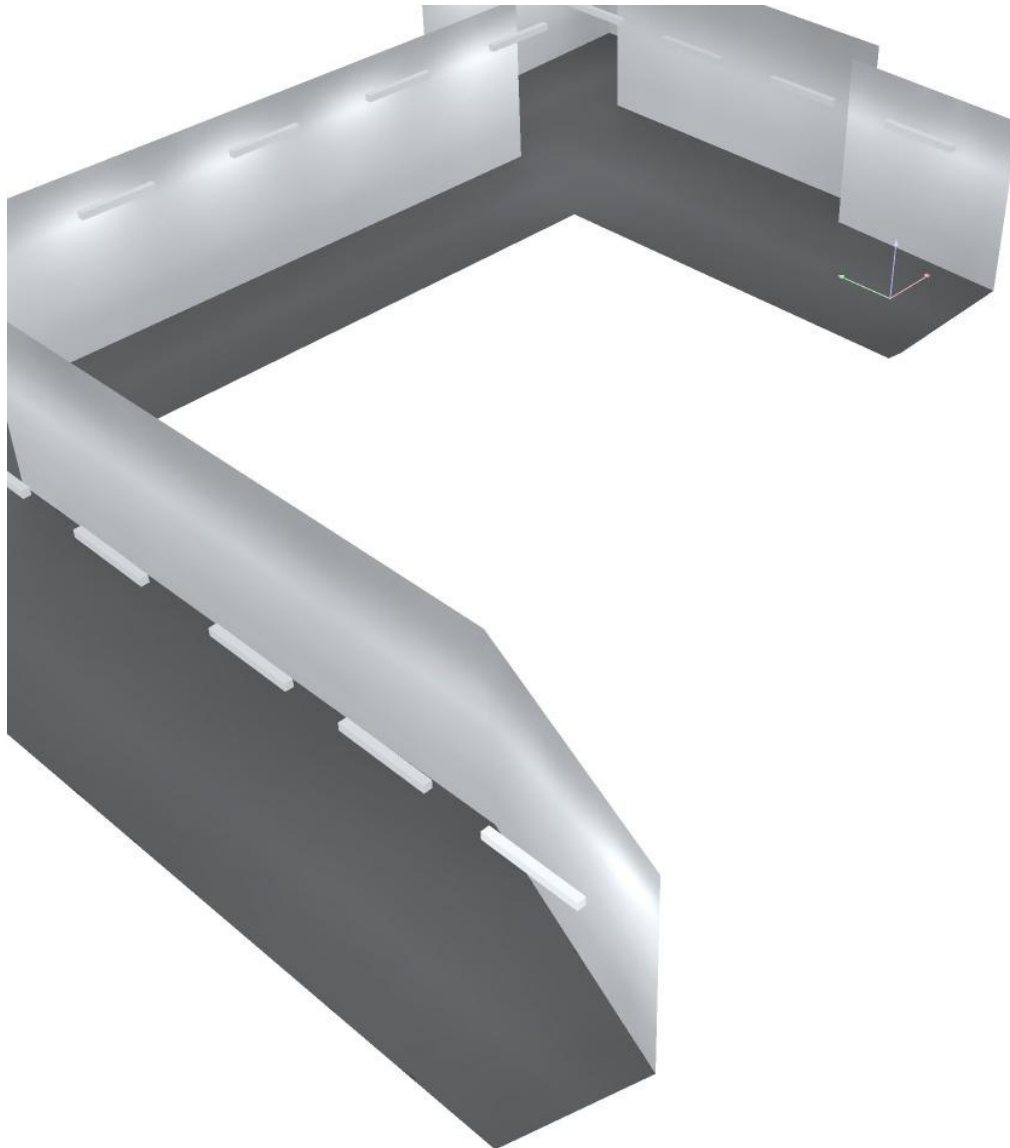
Illuminance Quotient (according to LG7): Walls / Working Plane: 0.631, Ceiling / Working Plane: 0.320.

Specific connected load: $2.79 \text{ W/m}^2 = 1.35 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 115.98 m^2)



Operator Chris Kearsley
Telephone 020 7407 1444
Fax
e-Mail chris.kearsley@dowlingblunt.co.uk

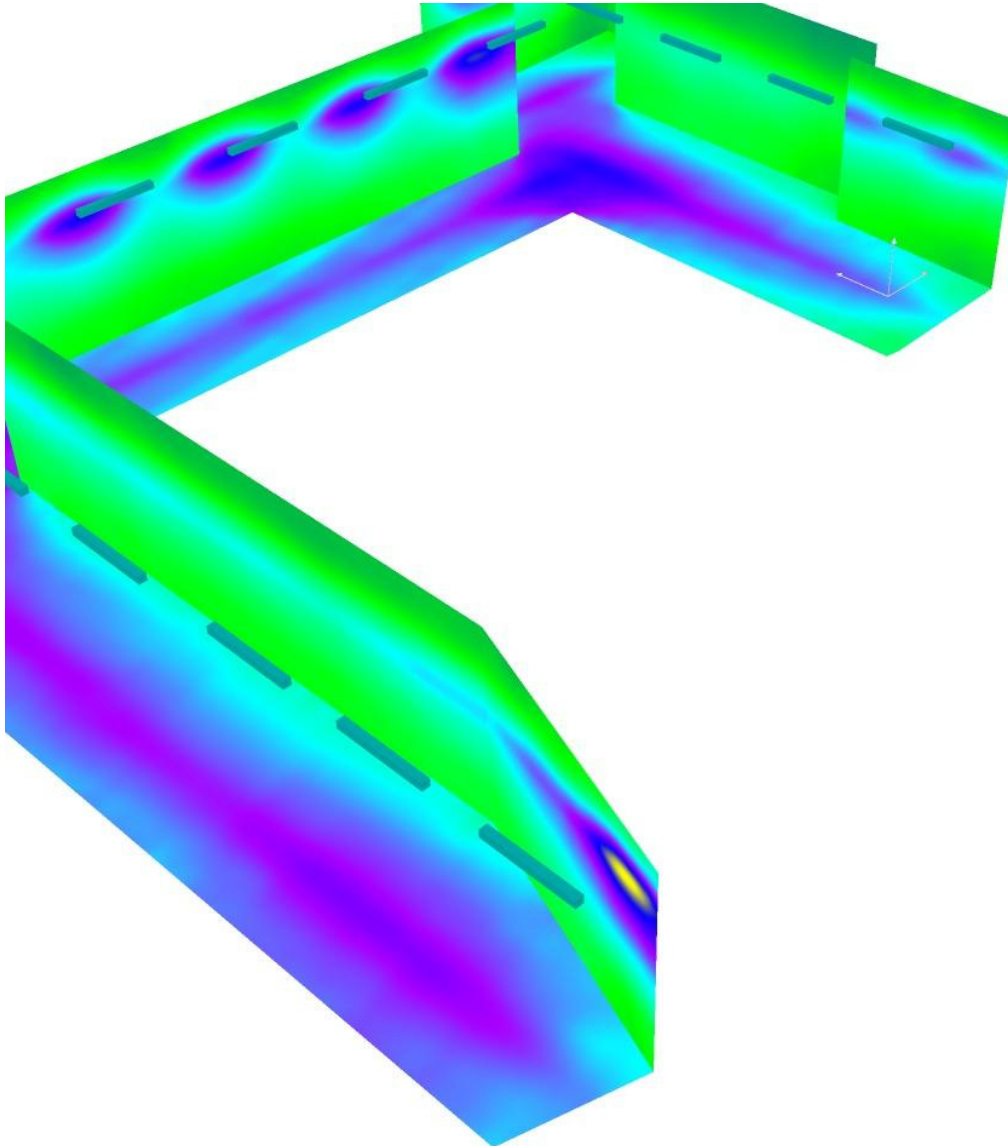
First Floor / 3D Rendering





Operator Chris Kearsley
Telephone 020 7407 1444
Fax
e-Mail chris.kearsley@dowlingblunt.co.uk

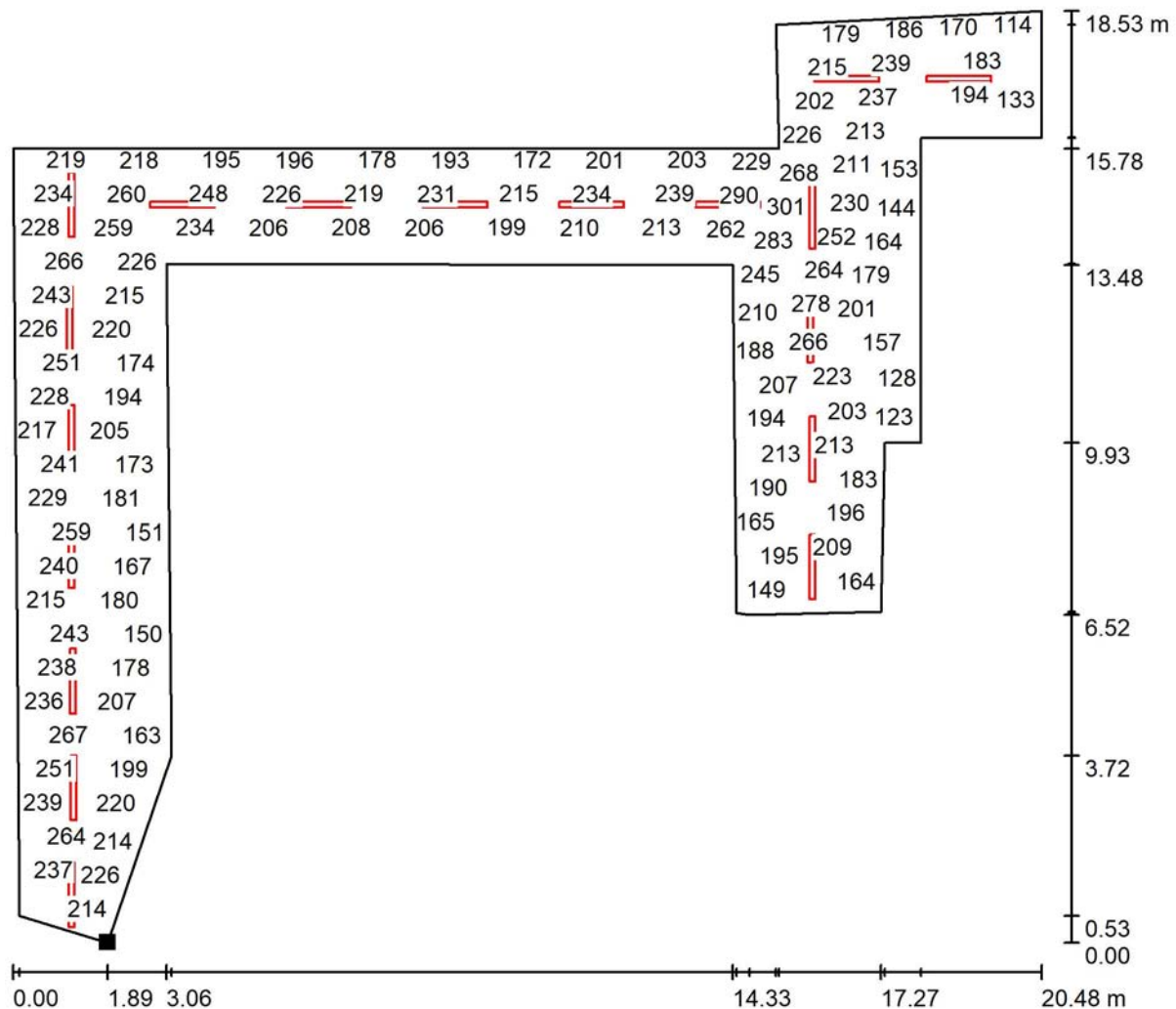
First Floor / False Colour Rendering



lx

Operator Chris Kearsley
 Telephone 020 7407 1444
 Fax
 e-Mail chris.kearsley@dowlingblunt.co.uk

First Floor / Workplane / Value Chart (E)



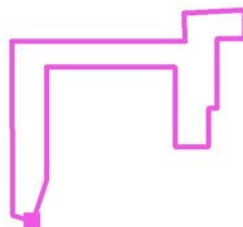
Values in Lux, Scale 1 : 147

Not all calculated values could be displayed.

Position of surface in room:

Marked point:

(-13.988 m, -7.666 m, 0.750 m)



Grid: 128 x 128 Points

E_{av} [lx]
207

E_{min} [lx]
95

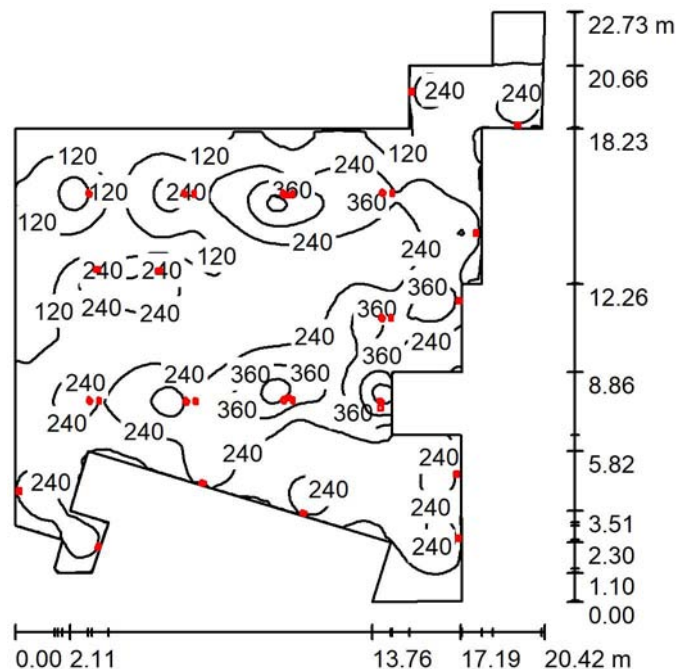
E_{max} [lx]
316

u_0
0.460

E_{min} / E_{max}
0.302

Operator Chris Kearsley
 Telephone 020 7407 1444
 Fax
 e-Mail chris.kearsley@dowlingblunt.co.uk

Second / Summary



Height of Room: 3.000 m, Maintenance factor: 0.80

Values in Lux, Scale 1:292

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0
Workplane	/	212	45	633	0.212
Floor	20	195	54	411	0.279
Ceiling	70	68	28	285	0.412
Walls (26)	50	119	35	1789	/

Workplane:

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

Illuminance Quotient (according to LG7): Walls / Working Plane: 0.578, Ceiling / Working Plane: 0.322.

Luminaire Parts List

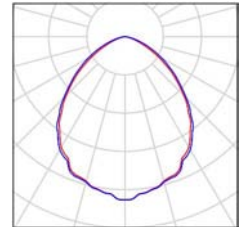
No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	31	DEXTRA Opus Led Floodlight OPU2S L30 C84 (1.000)	2701	3000	28.0
Total:			83727	93000	868.0

Specific connected load: $3.14 \text{ W/m}^2 = 1.48 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 276.37 m^2)

Operator Chris Kearsley
Telephone 020 7407 1444
Fax
e-Mail chris.kearsley@dowlingblunt.co.uk

Second / Luminaire parts list

31 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).



Operator Chris Kearsley
 Telephone 020 7407 1444
 Fax
 e-Mail chris.kearsley@dowlingblunt.co.uk

Second / Photometric Results

Total Luminous Flux: 83727 lm
 Total Load: 868.0 W
 Maintenance factor: 0.80
 Boundary Zone: 0.000 m

Surface	Average illuminances [lx]			Reflection factor [%]	Average luminance [cd/m ²]
	direct	indirect	total		
Workplane	160	52	212	/	/
Floor	142	53	195	20	12
Ceiling	21	47	68	70	15
Wall 1	85	43	128	50	20
Wall 2	56	53	109	50	17
Wall 3	135	54	189	50	30
Wall 4	79	54	133	50	21
Wall 5	47	61	108	50	17
Wall 6	51	61	112	50	18
Wall 7	89	52	141	50	22
Wall 8	87	52	139	50	22
Wall 9	62	51	113	50	18
Wall 10	47	28	75	50	12
Wall 11	26	31	57	50	9.09
Wall 12	34	35	69	50	11
Wall 13	59	37	96	50	15
Wall 14	328	63	391	50	62
Wall 15	58	64	122	50	19
Wall 16	134	58	192	50	31
Wall 17	42	56	98	50	16
Wall 18	109	52	161	50	26
Wall 19	31	50	81	50	13
Wall 20	70	35	105	50	17
Wall 21	36	31	67	50	11
Wall 22	15	34	49	50	7.87
Wall 23	100	45	145	50	23
Wall 24	26	54	81	50	13
Wall 25	56	46	102	50	16



Operator Chris Kearsley
Telephone 020 7407 1444
Fax
e-Mail chris.kearsley@dowlingblunt.co.uk

Second / Photometric Results

Surface	Average illuminances [lx]			Reflection factor [%]	Average luminance [cd/m ²]
	direct	indirect	total		
Wall 26	50	45	95	50	15

Uniformity on the working plane

u₀: 0.212 (1:5)

E_{min} / E_{max}: 0.071 (1:14)

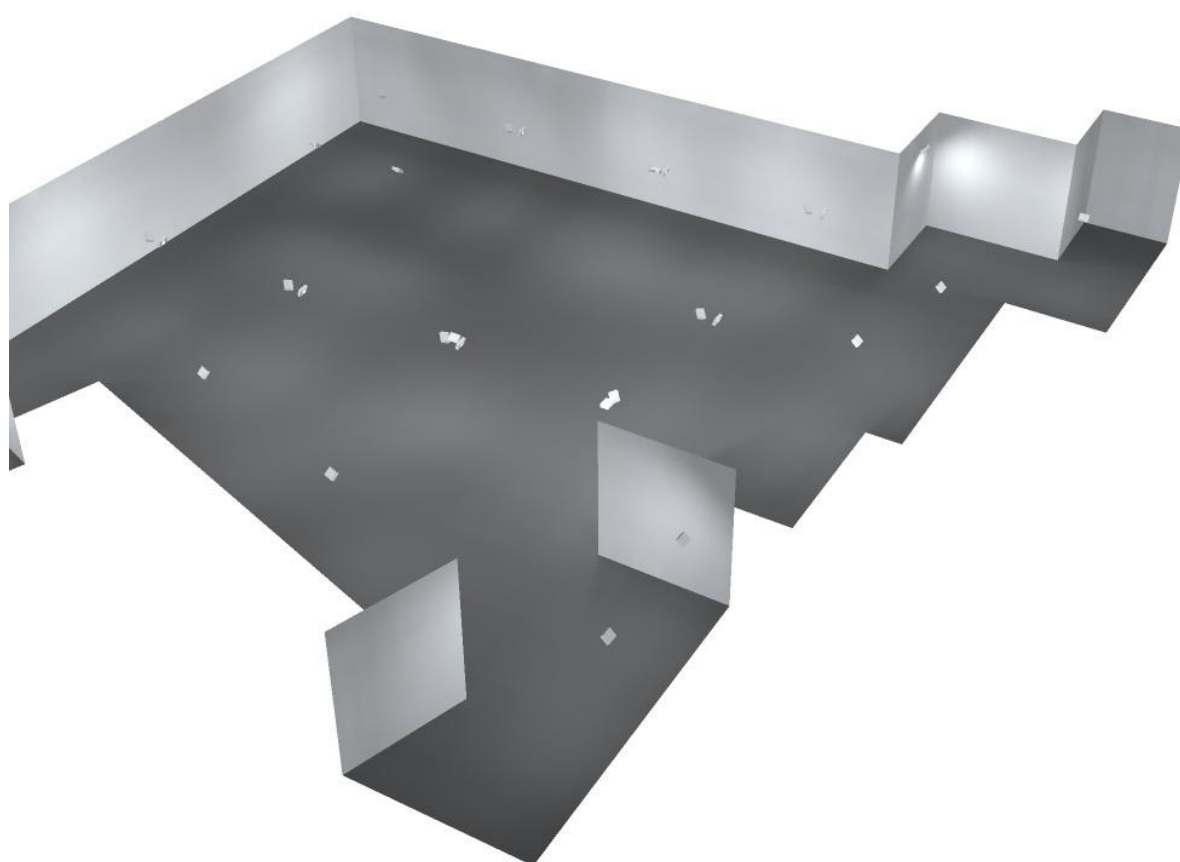
Illuminance Quotient (according to LG7): Walls / Working Plane: 0.578, Ceiling / Working Plane: 0.322.

Specific connected load: 3.14 W/m² = 1.48 W/m²/100 lx (Ground area: 276.37 m²)



Operator Chris Kearsley
Telephone 020 7407 1444
Fax
e-Mail chris.kearsley@dowlingblunt.co.uk

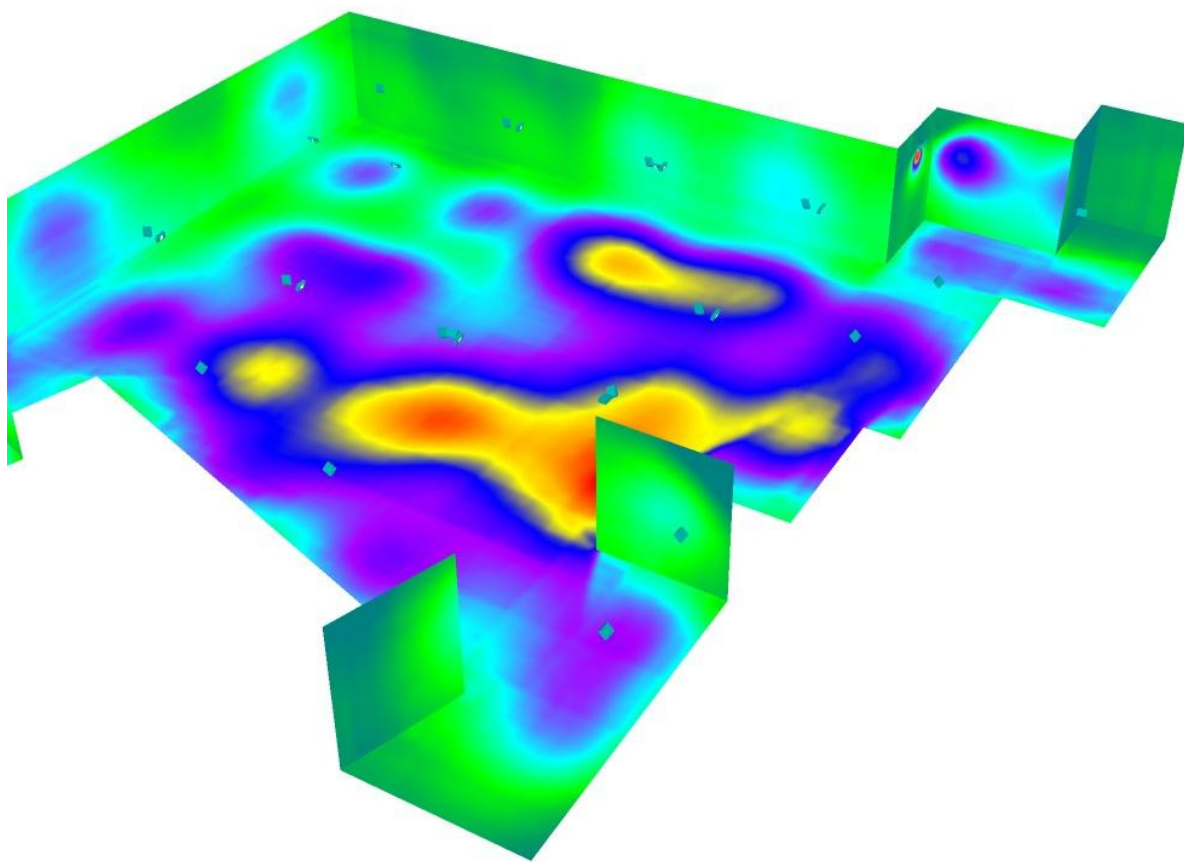
Second / 3D Rendering





Operator Chris Kearsley
Telephone 020 7407 1444
Fax
e-Mail chris.kearsley@dowlingblunt.co.uk

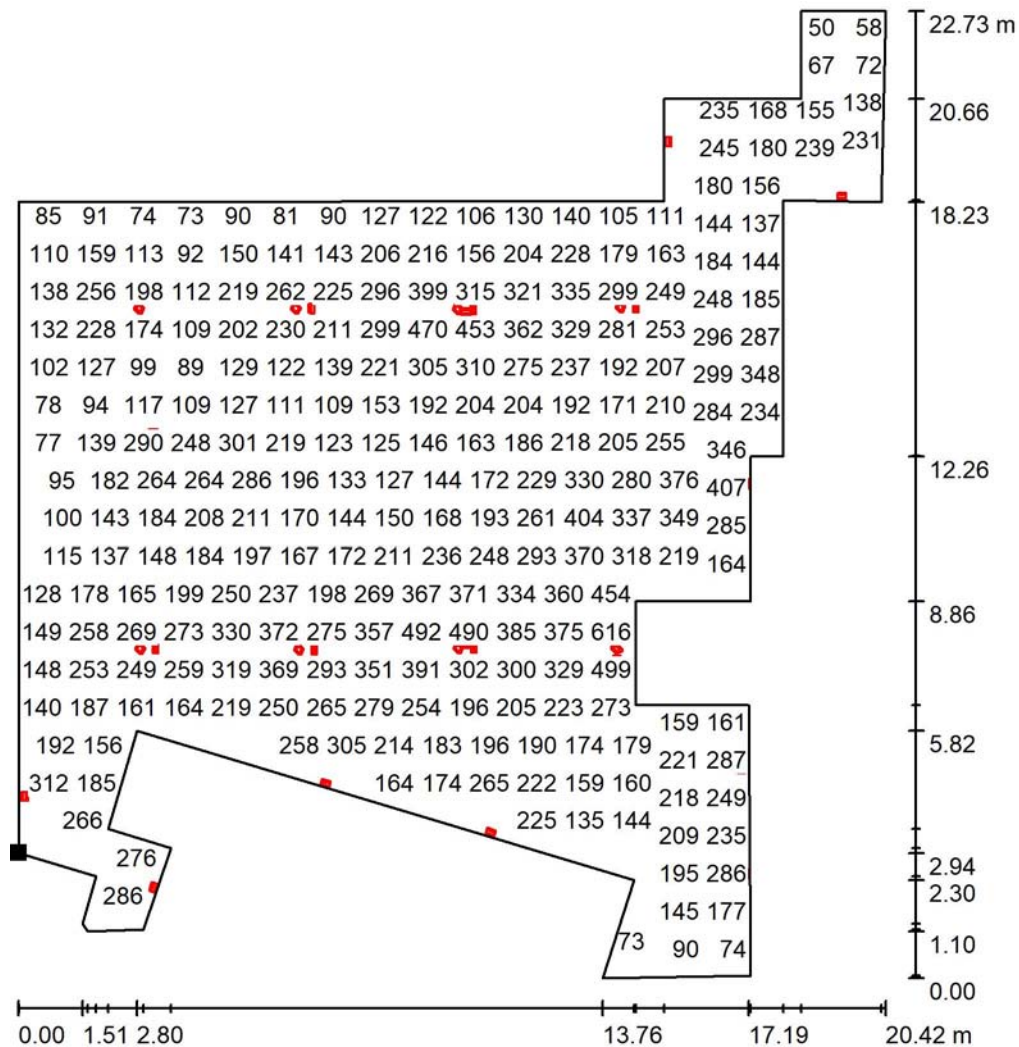
Second / False Colour Rendering



lx

Operator Chris Kearsley
 Telephone 020 7407 1444
 Fax
 e-Mail chris.kearsley@dowlingblunt.co.uk

Second / Workplane / Value Chart (E)

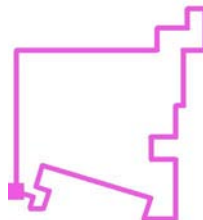


Not all calculated values could be displayed.

Position of surface in room:

Marked point:

(-14.129 m, -57.376 m, 0.750 m)



Grid: 128 x 128 Points

E_{av} [lx]
212

E_{min} [lx]
45

E_{max} [lx]
633

u_0
0.212

E_{min} / E_{max}
0.071