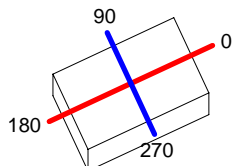


Luminaire		Measurem.		Lamp			
Code	5381	Code	5381	Code	DULUX L 18 W/827		
Name	Double ceiling lamp	Name	Double ceiling lamp	Number	8		
Line	VIBIA-Link	Date	22-05-2012	Position	Universal		
Efficiency		20.34%	Coordinate system	C-G	Total Flux	12000.00 lm	
Maximum value		66.04 cd/klm	Position	C=0.00 G=0.00	Double Symmetrical		
Rectangular Luminaire		Length	560 mm	Width	900 mm	Height	165 mm
Rectangular Luminous Area		Length	540 mm	Width	880 mm	Height	0 mm
Horizontal Luminous Area		0.475200 m2		Emitting area on Plane 180°		0.000000 m2	
Emitting area on Plane 0°		0.000000 m2		Emitting area on Plane 270°		0.000000 m2	
Emitting area on Plane 90°		0.000000 m2		Glare area at 76°		0.114961 m2	
Symmetry Type		Double Symmetrical		Maximum Gamma Angle		90	
Measurement Distance		6.44		Measurement Flux		12000.00 lm	
Operator		Asselum T2		Source voltage		230.00 V	
Temperature		21.00 °C		Source current		PRC	
Humidity		48.00 %		Photocell			
Notes							
Luminaire Lamps							
Line	Code	Name	Fluxlm	Pow.W	Qta		
OSRAM 2006 FB,T,G,C,FS,Q,M,D	DULUX L 18 W/827	DULUX® L 18W/827 2G11	1200.00	18.00	4		
PHILIPS 2005 ILCOS FBT,G,C,FSQ	PL-L24W/827/4P	MASTER PL-L 24W/827/4P 2G11	1800.00	24.00	4		
C.I.E.	44 75 94 100 20	D DIN 5040	A30				
F UTE	0.20 E	B NBN	BZ 5				

560mm x 900mm



C Halfplanes

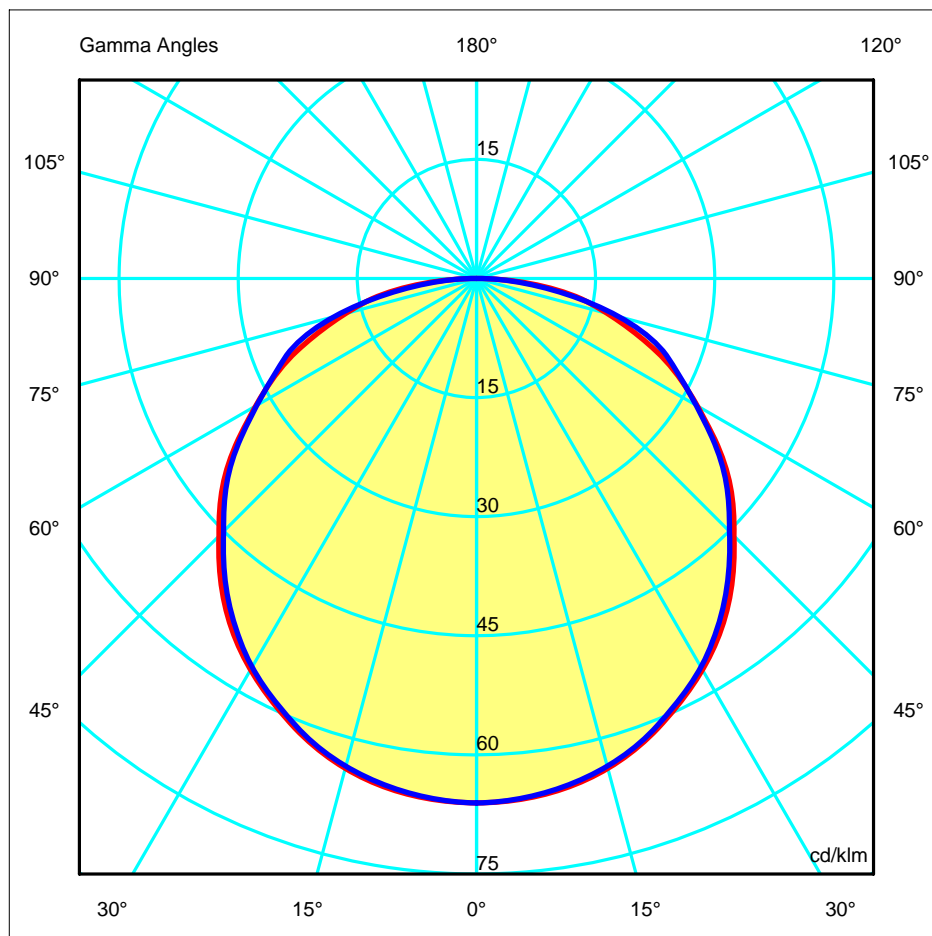
180.0 — 0.0

270.0 — 90.0

ULOR 0.00 %

DLOR 20.34 %

RN 0.00 %



Luminaire		Measurem.				Lamp	
Code	5381	Code	5381			Code	DULUX L 18 W/827
Name	Double ceiling lamp	Name	Double ceiling lamp			Number	8
Line	VIBIA-Link	Date	22-05-2012			Position	Universal
Efficiency	20.34%	Coordinate system	C-G			Total Flux	12000.00 lm
Luminous Intensity Table cd/klm				Table 1/1			
	C 0.00	C 15.00	C 30.00	C 45.00	C 60.00	C 75.00	C 90.00
G 0.0	66.04	66.04	66.04	66.04	66.04	66.04	66.04
G 5.0	65.80	65.78	65.76	65.76	65.75	65.73	65.71
G 10.0	65.15	64.94	64.95	65.02	64.85	64.93	64.85
G 15.0	63.84	63.62	63.55	63.51	63.61	63.51	63.60
G 20.0	61.99	61.67	61.67	61.69	61.69	61.65	61.69
G 25.0	59.53	59.28	59.36	59.42	59.21	59.31	59.21
G 30.0	56.93	56.38	56.34	56.31	56.61	56.36	56.51
G 35.0	53.77	53.03	53.15	53.12	52.92	53.06	53.11
G 40.0	50.08	49.31	49.20	49.41	49.29	49.54	49.30
G 45.0	45.85	45.34	45.08	44.99	45.47	45.05	45.04
G 50.0	41.92	40.76	41.08	40.99	40.63	41.26	41.21
G 55.0	37.21	36.26	36.04	35.99	36.42	36.54	36.74
G 60.0	32.10	31.23	31.28	31.39	31.99	32.04	31.93
G 65.0	27.47	26.17	26.39	26.86	26.92	27.76	27.89
G 70.0	22.24	21.06	21.28	21.65	23.22	23.44	24.18
G 75.0	17.06	15.97	16.42	17.41	18.39	18.19	18.51
G 80.0	12.46	10.76	11.44	11.99	11.71	12.26	11.65
G 85.0	6.29	5.36	4.97	5.20	5.43	5.36	5.33
G 90.0	0.46	0.58	0.61	0.65	0.67	0.71	0.71

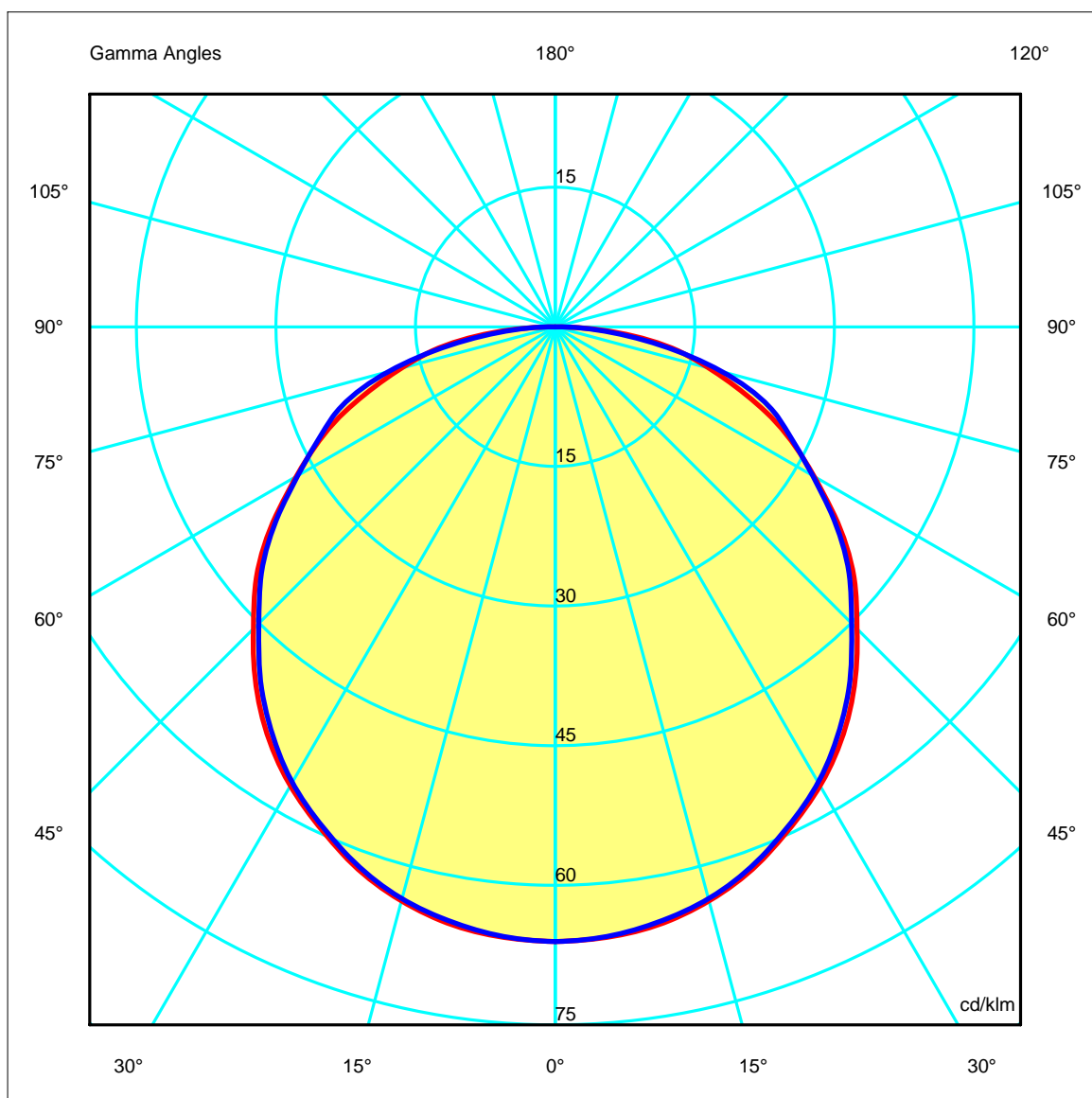
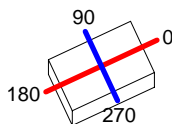
Luminaire		Measurem.		Lamp	
Code	5381	Code	5381	Code	DULUX L 18 W/827
Name	Double ceiling lamp	Name	Double ceiling lamp	Number	8
Line	VIBIA-Link	Date	22-05-2012	Position	Universal
Efficiency	20.34%	Coordinate system	C-G	Total Flux	12000.00 lm

560mm x 900mm

C Halfplanes

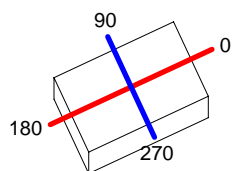
180.0 ————— 0.0

270.0 ————— 90.0



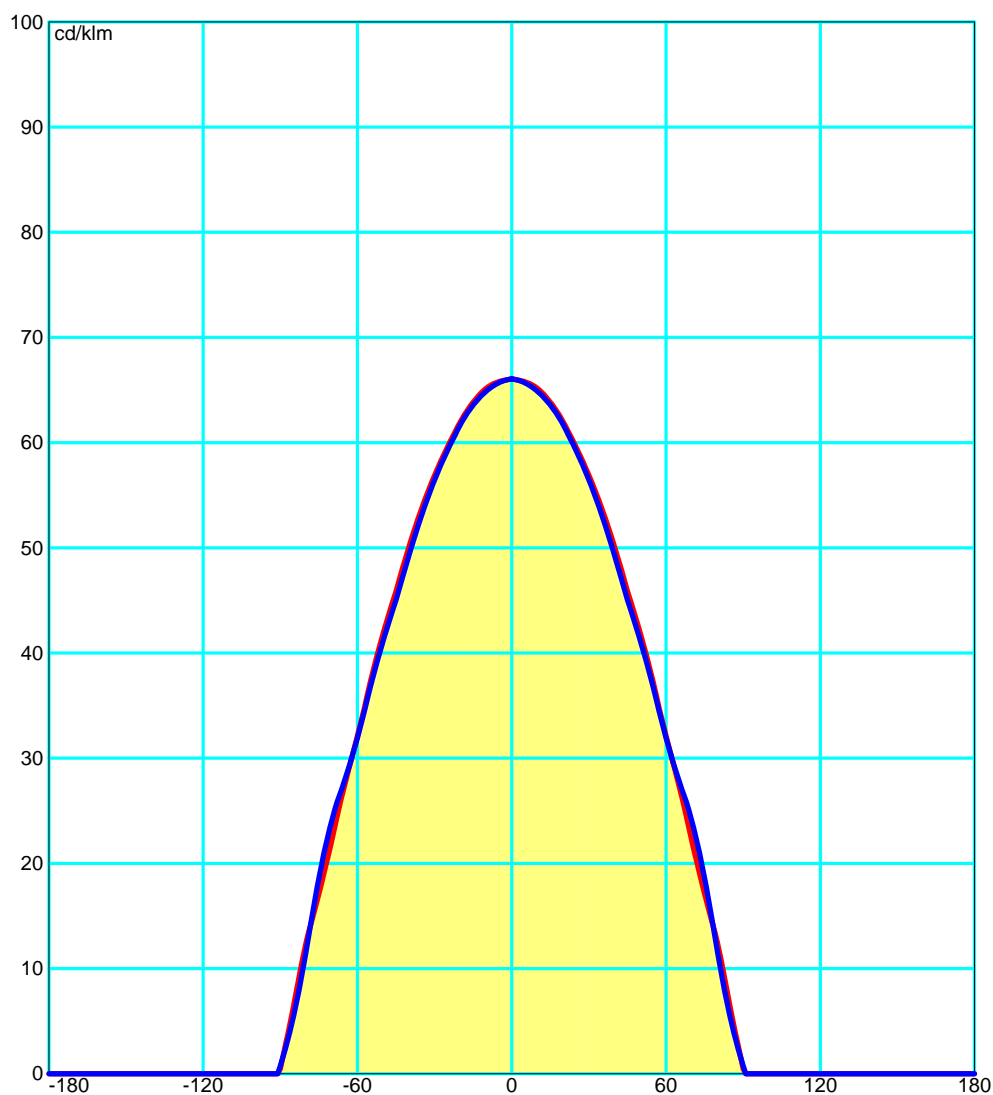
Luminaire		Measur.		Lamp	
Code	5381	Code	5381	Code	DULUX L 18 W/827
Name	Double ceiling lamp	Name	Double ceiling lamp	Number	8
Line	VIBIA-Link	Date	22-05-2012	Position	Universal
Efficiency	20.34%	Coordinate system	C-G	Total Flux	12000.00 lm

560mm x 900mm



C Halfplanes

180.0 ————— 0.0
 270.0 ————— 90.0

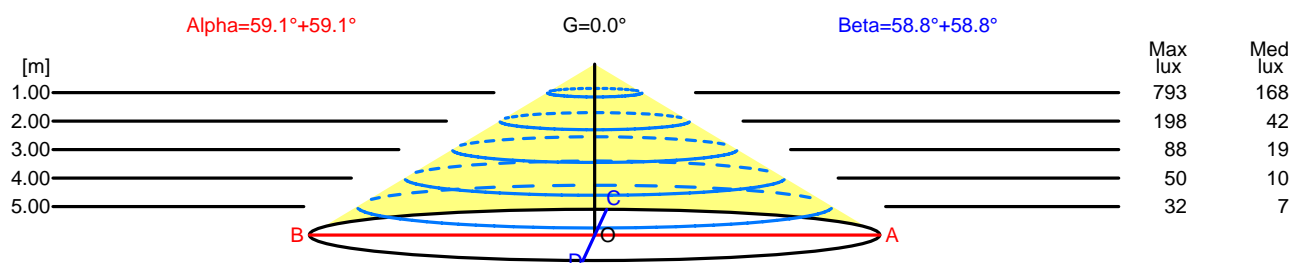


Luminaire		Measurem.		Lamp	
Code	5381	Code	5381	Code	DULUX L 18 W/827
Name	Double ceiling lamp	Name	Double ceiling lamp	Number	8
Line	VIBIA-Link	Date	22-05-2012	Position	Universal
Efficiency	20.34%	Coordinate system	C-G	Total Flux	12000.00 lm

Width at 50.00 % of MaxLux

H[m]	1.00	2.00	3.00	4.00	5.00	H[m]	1.00	2.00	3.00	4.00	5.00
OA	1.67	3.34	5.01	6.67	8.34	OC	1.65	3.31	4.96	6.61	8.27
OB	1.67	3.34	5.01	6.67	8.34	OD	1.65	3.31	4.96	6.61	8.27

	Luminous Intensities [cd/klm]									
	0	5	15	25	35	45	55	65	75	85
OA	66.04	65.80	63.84	59.53	53.77	45.85	37.21	27.47	17.06	6.29
OB	66.04	65.80	63.84	59.53	53.77	45.85	37.21	27.47	17.06	6.29
OC	66.04	65.71	63.60	59.21	53.11	45.04	36.74	27.89	18.51	5.33
OD	66.04	65.71	63.60	59.21	53.11	45.04	36.74	27.89	18.51	5.33



H[m]	D[m]	Max lux	Med lux	Alpha=59.1°+59.1°	G=0.0	
1.00	3.34	793	168			
2.00	6.67	198	42			
3.00	10.01	88	19			
4.00	13.35	50	10			
5.00	16.68	32	7			

H[m]	D[m]	Max lux	Med lux	Beta=58.8°+58.8°	G=0.0	
1.00	3.31	793	168			
2.00	6.61	198	42			
3.00	9.92	88	19			
4.00	13.22	50	10			
5.00	16.53	32	7			

Luminaire				Measur.				Lamp			
Code	5381			Code	5381			Code			
Name	Double ceiling lamp			Name	Double ceiling lamp			Number	8		
Line	VIBIA-Link			Date	22-05-2012			Position	Universal		
Efficiency	20.34%			Coordinate system	C-G			Total Flux	12000.00 lm		

Total Flux=12000.00 Luminaire Flux=2441.38

RI	0.60	0.80	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	10.00	20.00
DRR	0.29	0.37	0.44	0.51	0.57	0.65	0.71	0.75	0.81	0.84	0.92	0.96
RC	5	5	5	5	6	6	6	6	6	6	6	5

Zonal Flux per 1000 Lumen

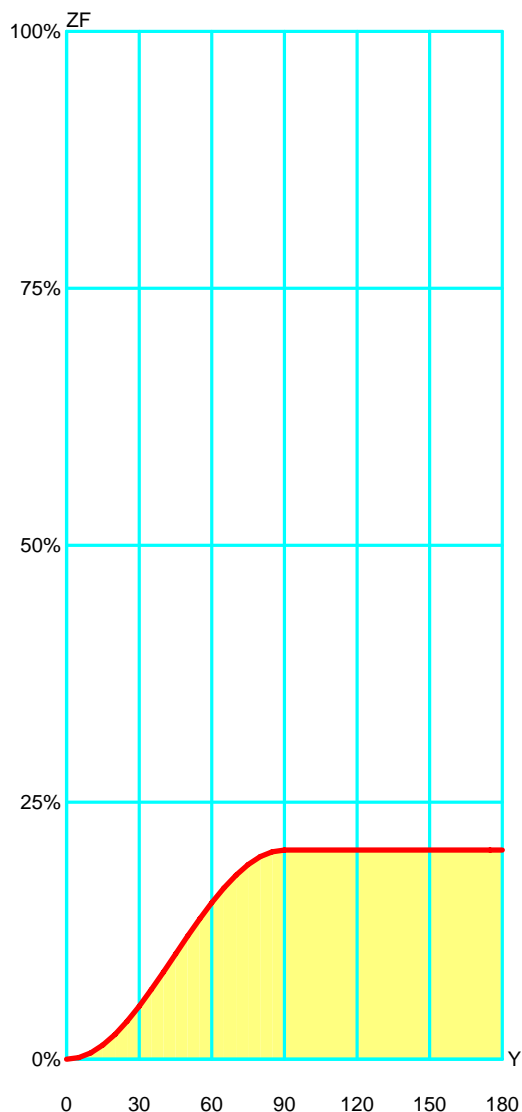
Y°	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
ZF(Y)	6	24	52	85	120	152	179	197	203	203	203	203	203	203	203	203	203	203

CIE Flux Codes

44 75 94 100 20

C.I.E.	5/5/5/5/6/6/6/6/6/5
D DIN 5040	A30
F UTE	0.20 E
B NBN	BZ 5
RN	0.00000 %
BLF	1.0

LOR	20.34479 %
ULOR	0.00000 %
DLOR	20.34479 %
UFF	0.00000 %
DFF	100.00000 %
FFR	0.00000 %



Zonal Flux				
Gamma °	Flux	Sum lm	Flux [%]	Sum [%]
0°	0.00	0.00	0.00%	0.00 %
5°	1.58	1.58	0.77 %	0.77 %
10°	4.68	6.25	2.30 %	3.07 %
15°	7.62	13.88	3.75 %	6.82 %
20°	10.33	24.20	5.08 %	11.90 %
25°	12.69	36.89	6.24 %	18.13 %
30°	14.65	51.55	7.20 %	25.34 %
35°	16.14	67.68	7.93 %	33.27 %
40°	17.11	84.79	8.41 %	41.67 %
45°	17.52	102.31	8.61 %	50.29 %
50°	17.43	119.74	8.57 %	58.86 %
55°	16.83	136.58	8.27 %	67.13 %
60°	15.72	152.30	7.73 %	74.86 %
65°	14.25	166.55	7.00 %	81.86 %
70°	12.48	179.03	6.13 %	88.00 %
75°	10.37	189.40	5.10 %	93.09 %
80°	7.78	197.17	3.82 %	96.92 %
85°	4.64	201.81	2.28 %	99.19 %
90°	1.64	203.45	0.81 %	100.00 %
95°	0.00	203.45	0.00 %	100.00 %
100°	0.00	203.45	0.00 %	100.00 %
105°	0.00	203.45	0.00 %	100.00 %
110°	0.00	203.45	0.00 %	100.00 %
115°	0.00	203.45	0.00 %	100.00 %
120°	0.00	203.45	0.00 %	100.00 %
125°	0.00	203.45	0.00 %	100.00 %
130°	0.00	203.45	0.00 %	100.00 %
135°	0.00	203.45	0.00 %	100.00 %
140°	0.00	203.45	0.00 %	100.00 %
145°	0.00	203.45	0.00 %	100.00 %
150°	0.00	203.45	0.00 %	100.00 %
155°	0.00	203.45	0.00 %	100.00 %
160°	0.00	203.45	0.00 %	100.00 %
165°	0.00	203.45	0.00 %	100.00 %
170°	0.00	203.45	0.00 %	100.00 %
175°	0.00	203.45	0.00 %	100.00 %
180°	0.00	203.45	0.00 %	100.00 %

Luminaire		Measurem.		Lamp	
Code	5381	Code	5381	Code	DULUX L 18 W/827
Name	Double ceiling lamp	Name	Double ceiling lamp	Number	8
Line	VIBIA-Link	Date	22-05-2012	Position	Universal
Efficiency	20.34%	Coordinate system	C-G	Total Flux	12000.00 lm

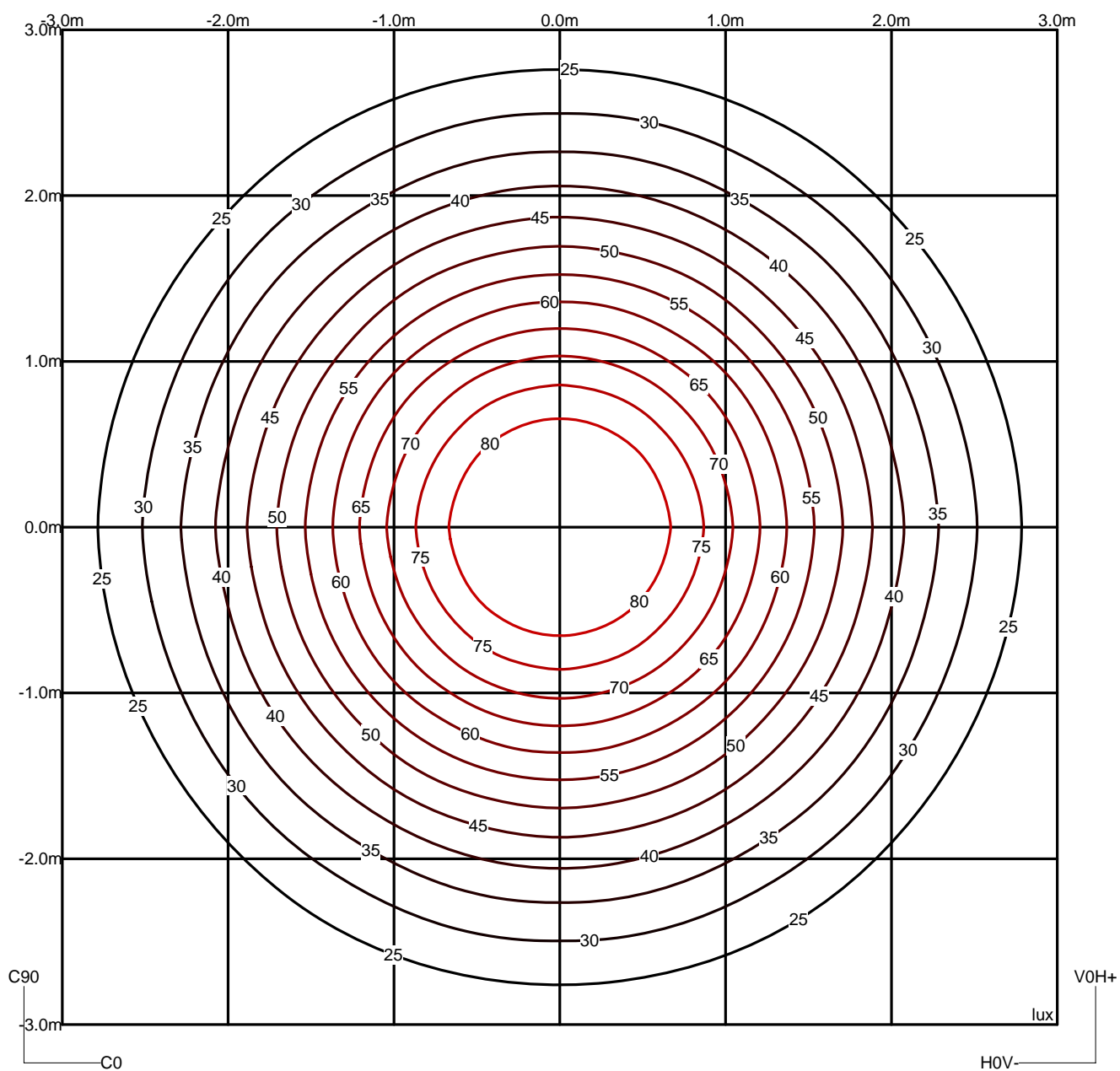
UGR
S = 0.250

Reflectancies										
Ceiling/Cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
WorkingPlane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
RoomDimensions	ViewedCrosswise					ViewedEndwise				
x=2H y=2H	14.1	15.5	14.4	15.7	16.0	14.1	15.6	14.5	15.8	16.0
x=2H y=3H	16.0	17.3	16.3	17.6	18.1	16.3	17.6	16.6	17.9	18.1
x=2H y=4H	16.8	17.9	17.1	18.3	19.0	17.2	18.4	17.5	18.7	19.0
x=2H y=6H	17.6	18.7	18.0	19.1	19.8	18.0	19.1	18.4	19.5	19.8
x=2H y=8H	18.0	19.0	18.4	19.4	20.0	18.3	19.4	18.7	19.7	20.0
x=2H y=12H	18.3	19.3	18.6	19.6	20.2	18.5	19.6	18.9	19.9	20.2
x=4H y=2H	14.9	16.1	15.2	16.4	16.8	15.0	16.1	15.3	16.5	16.8
x=4H y=3H	17.1	18.1	17.4	18.4	19.0	17.4	18.4	17.7	18.7	19.0
x=4H y=4H	18.0	18.9	18.4	19.2	20.1	18.5	19.4	18.8	19.7	20.1
x=4H y=6H	18.9	19.6	19.3	20.0	20.9	19.4	20.1	19.8	20.5	20.9
x=4H y=8H	19.3	20.0	19.7	20.4	21.3	19.8	20.4	20.2	20.9	21.3
x=4H y=12H	19.6	20.3	20.1	20.7	21.5	20.0	20.6	20.4	21.1	21.5
x=8H y=4H	18.6	19.2	19.0	19.7	20.5	18.9	19.6	19.3	20.1	20.5
x=8H y=6H	19.6	20.2	20.0	20.6	21.5	20.0	20.6	20.4	21.0	21.5
x=8H y=8H	20.1	20.6	20.6	21.1	22.0	20.5	21.0	20.9	21.5	22.0
x=8H y=12H	20.5	20.9	20.9	21.4	22.2	20.8	21.3	21.3	21.7	22.2
x=12H y=4H	18.6	19.3	19.1	19.7	20.5	19.0	19.6	19.4	20.1	20.5
x=12H y=6H	19.8	20.3	20.2	20.8	21.6	20.2	20.7	20.6	21.2	21.6
x=12H y=8H	20.3	20.7	20.7	21.2	22.0	20.6	21.1	21.1	21.5	22.0

Luminaire		Measurem.		Lamp	
Code	5381	Code	5381	Code	DULUX L 18 W/827
Name	Double ceiling lamp	Name	Double ceiling lamp	Number	8
Line	VIBIA-Link	Date	22-05-2012	Position	Universal
Efficiency	20.34%	Coordinate system	C-G	Total Flux	12000.00 lm

Isolux (Floor)

Luminaire position X=0.00m Y=0.00m Z=3.00m



Luminaire				Measurem.				Lamp			
Code	5381			Code	5381			Code	DULUX L 18 W/827		
Name	Double ceiling lamp			Name	Double ceiling lamp			Number	8		
Line	VIBIA-Link			Date	22-05-2012			Position	Universal		
Efficiency	20.34%			Coordinate system	C-G			Total Flux	12000.00 lm		

Utilizations CIE

Mounting	Direct		114-Norm type Normalised										Suspension Ratio 3										Standard CIE Settings									
	Ceiling																															
K	8873	8773	8871	8771	7773	7771	7753	7553	7751	7551	7731	7331	7711	7111	5551	5531	5331	5511	5111	3331	3311	1111	0000									
0.60	45	40	36	32	38	31	23	19	18	15	10	7	3	2	14	8	7	3	2	6	2	2	0									
0.80	52	48	38	35	45	34	29	25	21	18	12	9	5	3	17	10	9	4	3	8	3	3	0									
1.00	57	53	39	36	50	35	33	30	22	20	13	11	6	5	19	11	10	5	4	10	4	4	0									
1.25	61	57	38	36	55	35	38	35	23	21	14	12	7	6	20	13	12	6	6	11	6	5	0									
1.50	64	61	38	36	58	35	42	39	24	22	15	13	8	7	21	14	13	7	7	12	7	6	0									
2.00	67	65	35	34	62	33	48	45	24	23	17	15	10	9	22	15	14	9	9	14	9	8	0									
2.50	70	67	34	33	64	32	52	49	24	23	17	16	12	10	22	16	15	11	10	15	10	9	0									
3.00	71	69	32	31	66	31	55	53	24	23	18	17	13	12	22	17	16	12	11	16	11	11	0									
4.00	73	72	30	30	69	29	60	57	24	23	19	18	15	13	22	18	17	14	13	17	13	12	0									
5.00	75	73	29	29	70	28	63	61	24	23	19	19	16	15	22	18	18	15	14	17	14	14	0									
10.00	77	77	26	26	74	25	69	68	23	23	21	20	18	18	22	20	20	18	17	19	17	17	0									
20.00	79	79	24	24	75	24	73	72	22	22	21	21	20	20	22	21	20	19	19	20	19	18	0									

Wall

K	8873	8773	8871	8771	7773	7771	7753	7553	7751	7551	7731	7331	7711	7111	5551	5531	5331	5511	5111	3331	3311	1111	0000										
0.60	97	95	85	84	93	83	73	72	67	66	56	55	48	48	65	55	55	48	48	55	48	48	44										
0.80	110	107	94	92	105	91	86	84	76	75	65	64	57	57	74	64	64	57	57	63	57	56	51										
1.00	119	116	99	98	114	96	95	93	82	81	72	71	64	63	80	71	70	63	63	70	63	63	57										
1.25	126	124	103	102	121	100	103	101	88	87	78	77	70	69	85	76	76	69	69	75	69	68	62										
1.50	132	130	106	105	126	103	110	108	92	91	82	81	75	74	89	81	80	74	74	80	73	73	66										
2.00	138	136	107	107	132	105	118	116	95	94	87	86	81	80	92	86	85	80	79	84	79	78	71										
2.50	142	140	108	107	136	105	123	121	97	97	90	89	84	83	95	88	88	83	83	87	82	81	73										
3.00	144	143	108	107	138	105	127	125	98	98	92	91	87	86	96	90	90	85	85	88	84	83	75										
4.00	148	147	108	108	142	106	133	131	101	100	96	95	91	90	98	93	93	89	89	92	88	87	78										
5.00	151	150	109	109	145	107	137	135	102	102	98	97	94	93	100	96	96	92	92	94	91	89	80										
10.00	157	157	110	110	151	109	146	145	106	106	103	103	101	100	103	101	101	99	99	99	97	95	85										
20.00	158	158	109	109	152	107	149	149	106	106	105	104	103	103	103	102	102	101	101	100	99	97	86										

Working Pl.

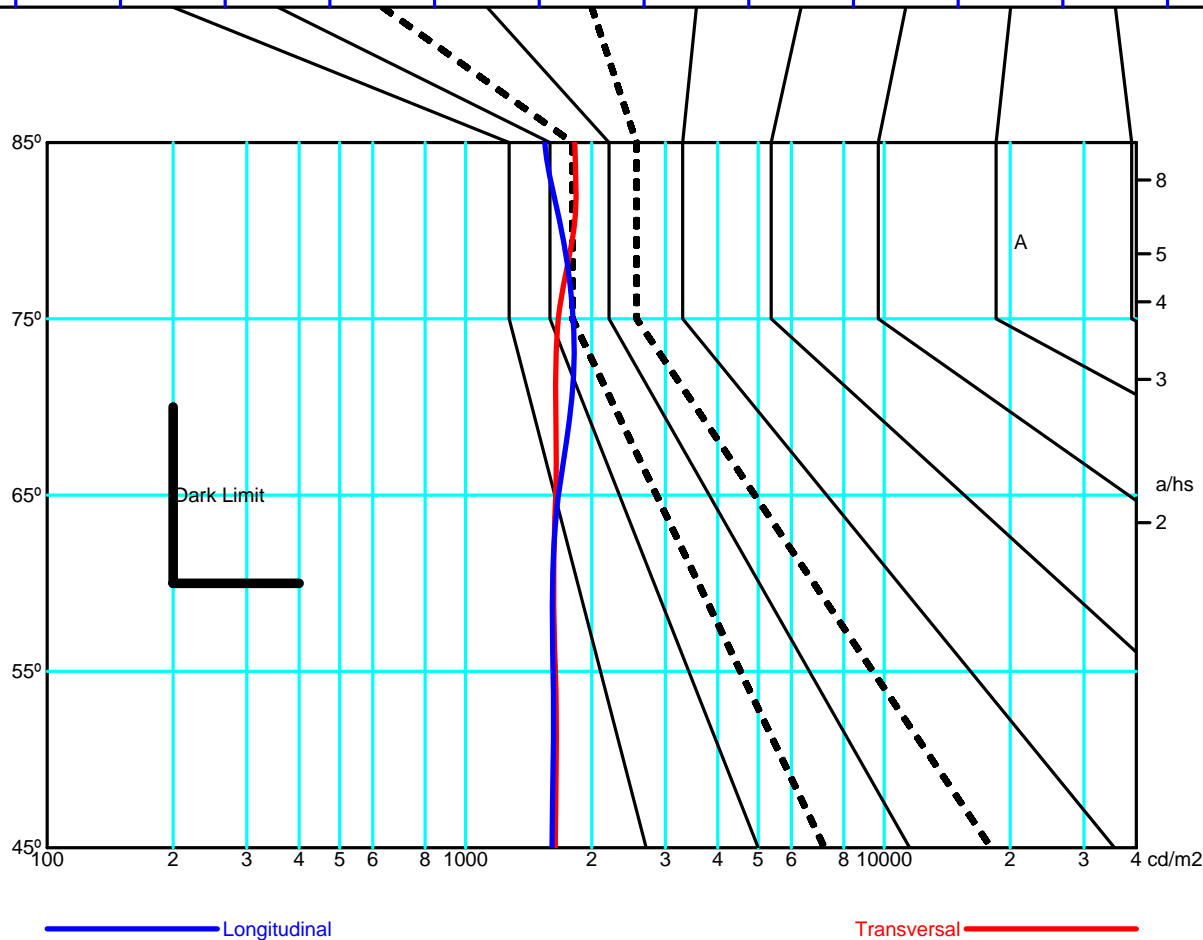
K	8873	8773	8871	8771	7773	7771	7753	7553	7751	7551	7731	7331	7711	7111	5551	5531	5331	5511	5111	3331	3311	1111	0000										
0.60	118	115	110	108	114	107	90	88	86	85	72	72	62	62	84	72	71	62	62	71	62	62	58										
0.80	140	137	129	127	134	125	110	108	105	103	90	89	80	79	102	89	89	79	79	88	79	79	75										
1.00	157	153	143	141	150	139	127	124	120	118	106	104	95	94	116	104	103	94	94	103	93	93	89										
1.25	173	170	156	154	166	152	143	140	134	133	121	119	110	109	130	118	118	109	108	117	108	107	104										
1.50	185	182	165	164	177	161	156	153	145	143	132	130	122	120	141	130	129	120	120	128	119	119	115										
2.00	203	200	178	177	194	175	176	173	161	160	150	148	140	139	157	147	146	139	138	145	137	136	133										
2.50	214	212	187	186	205	183	189	186	172	170	162	160	153	152	167	159	158	151	150	156	149	148	145										
3.00	222	220	193	192	213	189	199	196	179	178	170	169	163	161	174	167	166	160	160	164	158	157	154										
4.00	233	231	200	199	223	196	211	209	188	187	181	180	175	173	184	177	177	172	171	174	169	167	165										
5.00	239	238	204	203	230	201	219	217	194	193	188	187	182	181	189	184	184	179	178	181	176	174	171										
10.00	253	252	212	212	243	210	237	236	206	205	202	202	199	198	201	198	198	195	195	194	192	189	186										
20.00	260	260	217	217	250	214	247	246	212	212	210	210	209	208	208	206	206	205	204	202	201	197	195										

LM53 SHR C0-C180: 1.274 SHR C90-C270: 1.262 SHR Square: 1.389

Luminaire		Measurem.		Lamp	
Code	5381	Code	5381	Code	DULUX L 18 W/827
Name	Double ceiling lamp	Name	Double ceiling lamp	Number	8
Line	VIBIA-Link	Date	22-05-2012	Position	Universal
Efficiency	20.34%	Coordinate system	C-G	Total Flux	12000.00 lm

Average Luminance [cd/m ²]										
0°	45°	50°	55°	60°	65°	70°	75°	80°	85°	
1637.5	1637.5	1646.7	1638.1	1621.1	1641.5	1641.9	1664.6	1811.4	1822.7	---
1608.3	1608.3	1619.1	1617.3	1612.7	1666.4	1785.4	1805.6	1694.7	1545.5	---

Flush mounted or longitudinal view												
		Illumination(lx)										
A	A	2000	1000	750	500		<300					1.15
B	1		2000	1500	1000	750	500	<300				1.5
C					2000		1000	500	<300			1.85
D	2						2000	1000	500	<300		2.2
E	3							2000	1000	500	<300	2.55



Luminaire

Code 5381
 Name Double ceiling lamp
 Line VIBIA-Link

Measur.

Code 5381
 Name Double ceiling lamp
 Date 22-05-2012

Lamp

Code DULUX L 18 W/827
 Number 8
 Position Universal

Efficiency 20.34%

Coordinate system C-G

Total Flux 12000.00 lm

Luminance

G/C	0	30	60	90	120	150	180	210	240	270	300	330
0°	1667.78	1667.78	1667.78	1667.78	1667.78	1667.78	1667.78	1667.78	1667.78	1667.78	1667.78	1667.78
5°	1668.02	1666.88	1666.81	1665.75	1666.81	1666.88	1668.02	1666.88	1666.81	1665.75	1666.81	1666.88
10°	1670.47	1665.33	1662.99	1662.84	1662.99	1665.33	1670.47	1665.33	1662.99	1662.84	1662.99	1665.33
15°	1669.03	1661.37	1662.90	1662.80	1662.90	1661.37	1669.03	1661.37	1662.90	1662.80	1662.90	1661.37
20°	1665.89	1657.18	1657.70	1657.83	1657.70	1657.18	1665.89	1657.18	1657.70	1657.83	1657.70	1657.18
25°	1658.55	1654.02	1649.89	1649.68	1649.89	1654.02	1658.55	1654.02	1649.89	1649.68	1649.89	1654.02
30°	1659.90	1642.70	1650.66	1647.78	1650.66	1642.70	1659.90	1642.70	1650.66	1647.78	1650.66	1642.70
35°	1657.45	1638.36	1631.39	1637.31	1631.39	1638.36	1657.45	1638.36	1631.39	1637.31	1631.39	1638.36
40°	1650.98	1621.73	1624.84	1625.10	1624.84	1621.73	1650.98	1621.73	1624.84	1625.10	1624.84	1621.73
45°	1637.53	1610.06	1623.72	1608.31	1623.72	1610.06	1637.53	1610.06	1623.72	1608.31	1623.72	1610.06
50°	1646.69	1613.96	1596.04	1619.10	1596.04	1613.96	1646.69	1613.96	1596.04	1619.10	1596.04	1613.96
55°	1638.08	1586.51	1603.63	1617.34	1603.63	1586.51	1638.08	1586.51	1603.63	1617.34	1603.63	1586.51
60°	1621.14	1579.91	1615.48	1612.69	1615.48	1579.91	1621.14	1579.91	1615.48	1612.69	1615.48	1579.91
65°	1641.45	1576.83	1608.35	1666.36	1608.35	1576.83	1641.45	1576.83	1608.35	1666.36	1608.35	1576.83
70°	1641.92	1571.38	1714.77	1785.36	1714.77	1571.38	1641.92	1571.38	1714.77	1785.36	1714.77	1571.38
75°	1664.60	1602.19	1793.99	1805.60	1793.99	1602.19	1664.60	1602.19	1793.99	1805.60	1793.99	1602.19
80°	1811.36	1663.26	1702.79	1694.67	1702.79	1663.26	1811.36	1663.26	1702.79	1694.67	1702.79	1663.26
85°	1822.70	1438.58	1574.45	1545.53	1574.45	1438.58	1822.70	1438.58	1574.45	1545.53	1574.45	1438.58

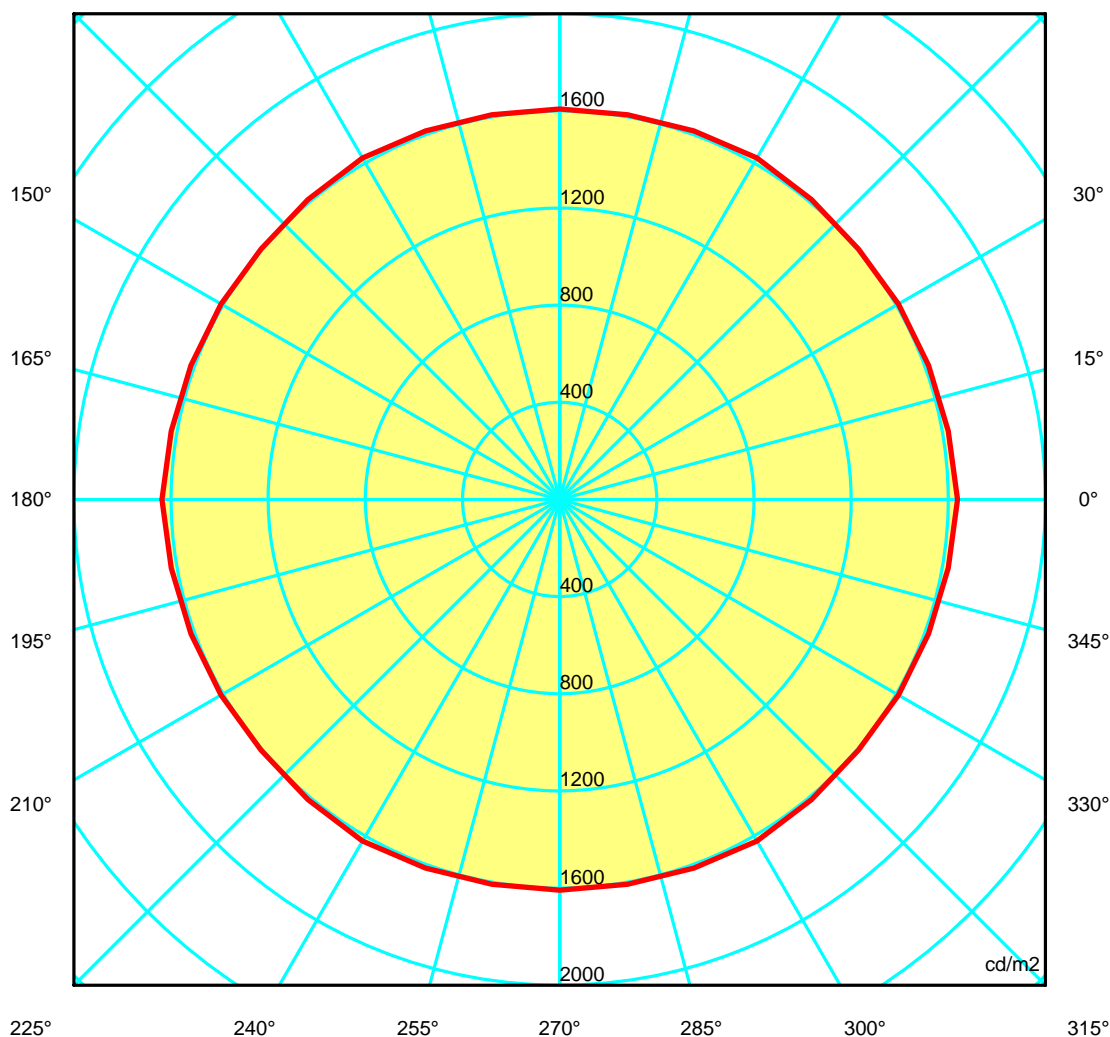
C Halfplanes

90°

75°

60°

45°



45.0°