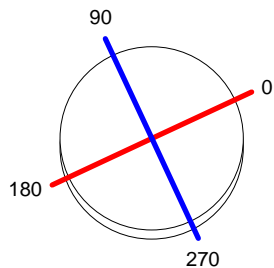


Luminaire		Measur.		Lamp	
Code	25-9733-05-M1	Code	25-9733-05-M1	Code	25-9733-05-M1
Name	Pie INVISIBLE 9W warm white	Name	Pie INVISIBLE 9W warm white	Number	1
Line	Eulumdat	Date	16-09-2014	Position	
Efficiency	100.00%	Coordinate system	CG	Total Flux	469.49 lm
Maximum value	159.81 cd	Position	C=0.00 G=0.00	Double Symmetrical	
Round Luminaire	Diam.	110 mm	Height	20 mm	
Round Luminous Area	Diam.	105 mm	Height	10 mm	
Horizontal Luminous Area	0.008659 m2		Emitting area on Plane 180°	0.001050 m2	
Emitting area on Plane 0°	0.001050 m2		Emitting area on Plane 270°	0.001050 m2	
Emitting area on Plane 90°	0.001050 m2		Glare area at 76°	0.003114 m2	
Symmetry Type	Double Symmetrical		Maximum Gamma Angle	180	
Measurement Distance	0.00		Measurement Flux	469.49 lm	
Operator	Asselum T2		Source voltage		
Temperature	25.00 °C		Source current		
Humidity	60.00 %		Photocell		
Notes					

Luminaire Lamps					
Line	Code	Name	Flux [lm]	Pow. [W]	Q.ty
Eulumdat	25-9733-05-M1	25-9733-05-M1 - 9.00 W	469.49	9.00	1
C.I.E.	46 78 94 98 100	D DIN 5040		A31	
F UTE	0.98 E + 0.02 T	B NBN		BZ 5	

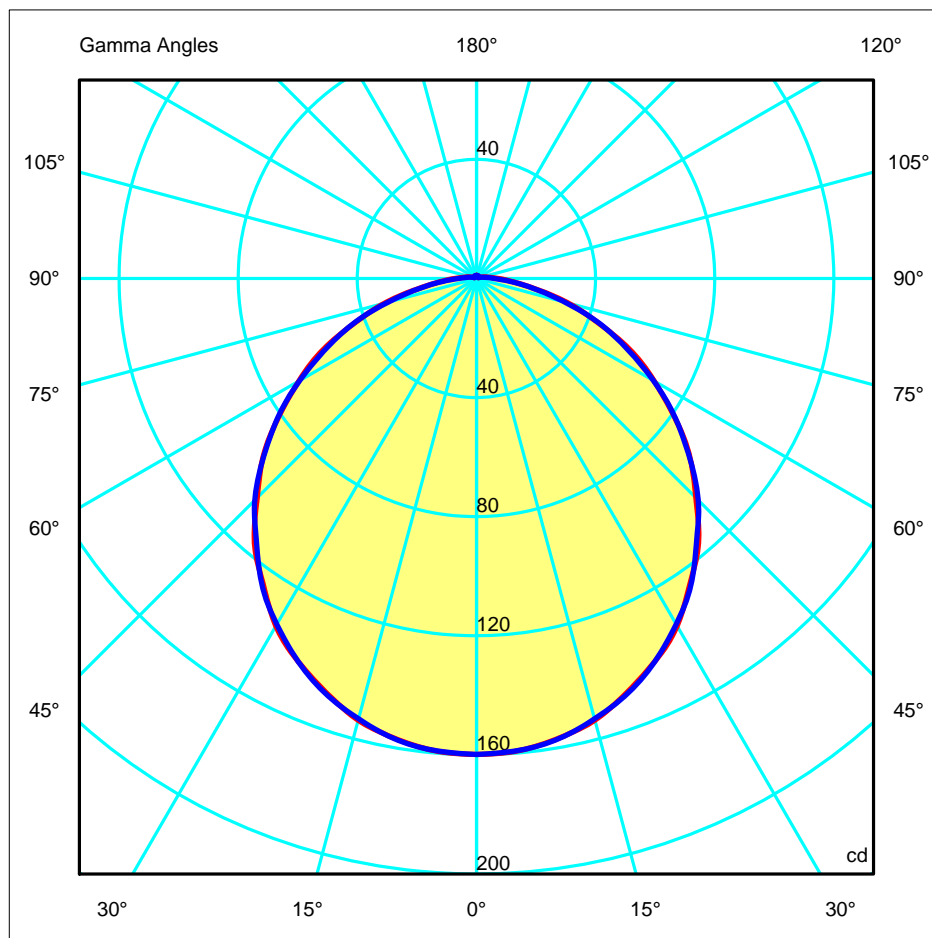
Diam=110mm



C Halfplanes

180.0 — 0.0
270.0 — 90.0

ULOR 2.18 %
DLOR 97.82 %
RN 2.18 %



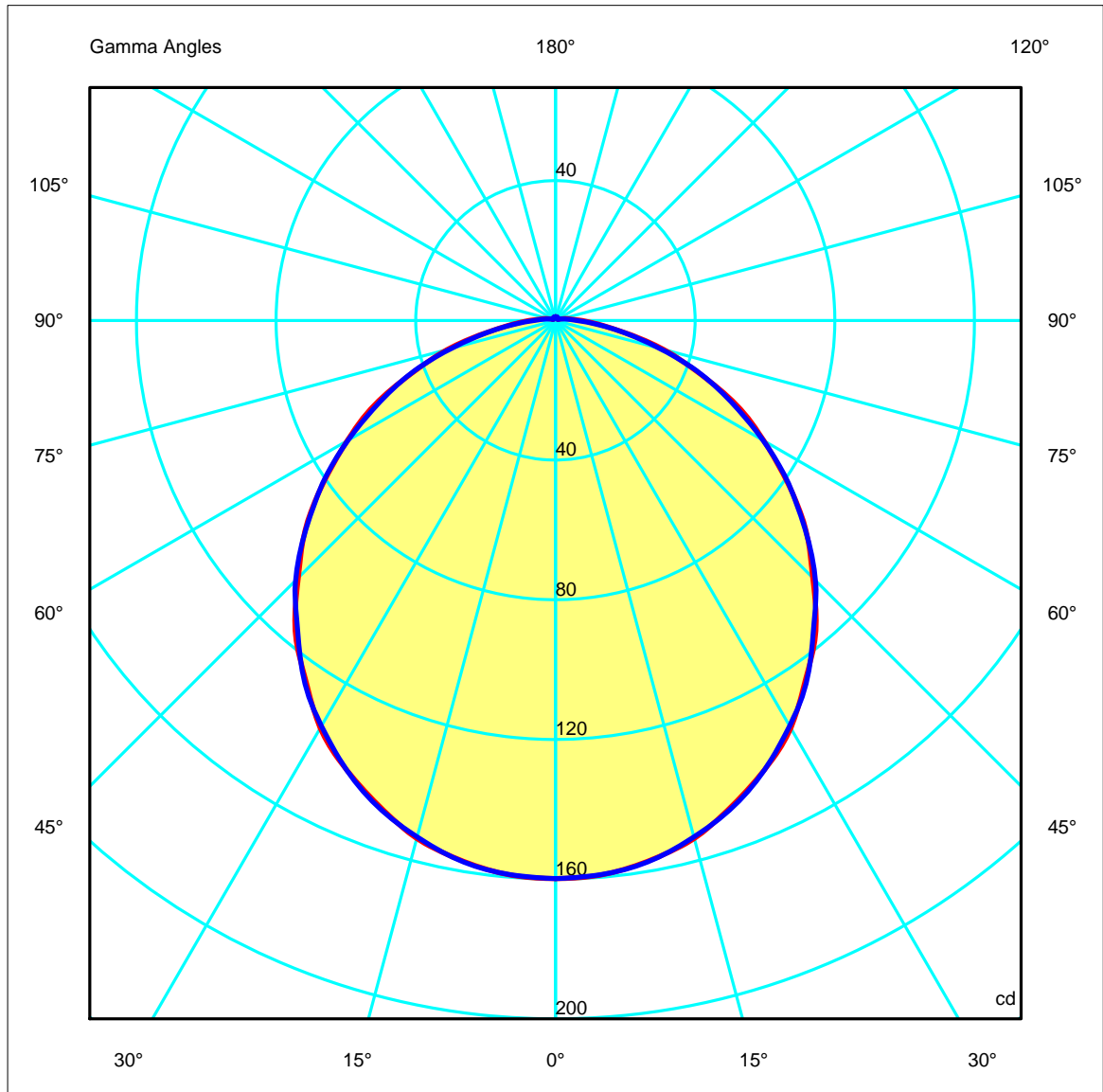
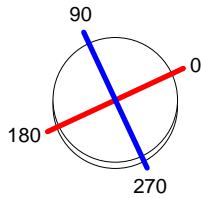
Luminaire	Measur.	Lamp
Code 25-9733-05-M1	Code 25-9733-05-M1	Code 25-9733-05-M1
Name Pie INVISIBLE 9W warm white	Name Pie INVISIBLE 9W warm white	Number 1
Line Eulumdat	Date 16-09-2014	Position

Efficiency 100.00%	Coordinate system CG	Total Flux 469.49 lm
--------------------	----------------------	----------------------

Diam=110mm

C Halfplanes

180.0 ————— 0.0
 270.0 ————— 90.0



Luminaire

Code 25-9733-05-M1
 Name Pie INVISIBLE 9W warm white
 Line Eulumdat

Measuram.

Code 25-9733-05-M1
 Name Pie INVISIBLE 9W warm white
 Date 16-09-2014

Lamp

Code 25-9733-05-M1
 Number 1
 Position

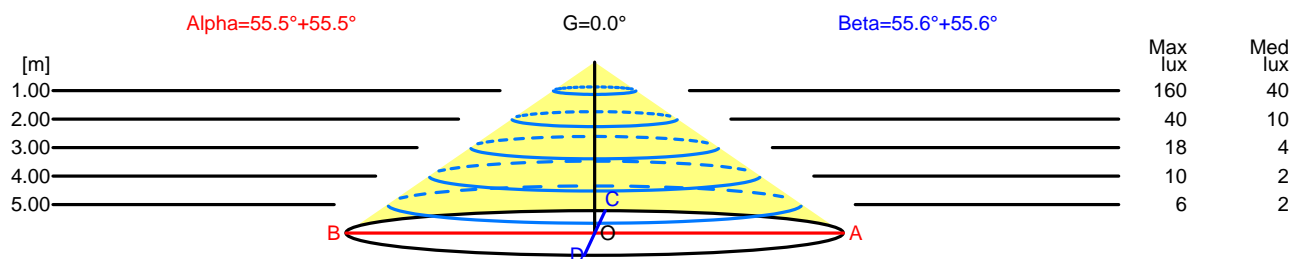
Efficiency 100.00% Coordinate system CG Total Flux 469.49 lm

Width at 50.00 % of Max Intensity

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	1.45	2.91	4.36	5.82	7.27	OC	1.46	2.92	4.39	5.85	7.31
OB	1.45	2.91	4.36	5.82	7.27	OD	1.46	2.92	4.39	5.85	7.31

Luminous Intensities [cd]

	0	5	15	25	35	45	55	65	75	85
OA	159.81	159.24	153.56	141.85	125.01	104.15	81.18	57.19	31.97	12.28
OB	159.81	159.24	153.56	141.85	125.01	104.15	81.18	57.19	31.97	12.28
OC	159.81	159.12	153.08	141.82	125.59	105.33	81.47	55.71	30.81	11.44
OD	159.81	159.12	153.08	141.82	125.59	105.33	81.47	55.71	30.81	11.44



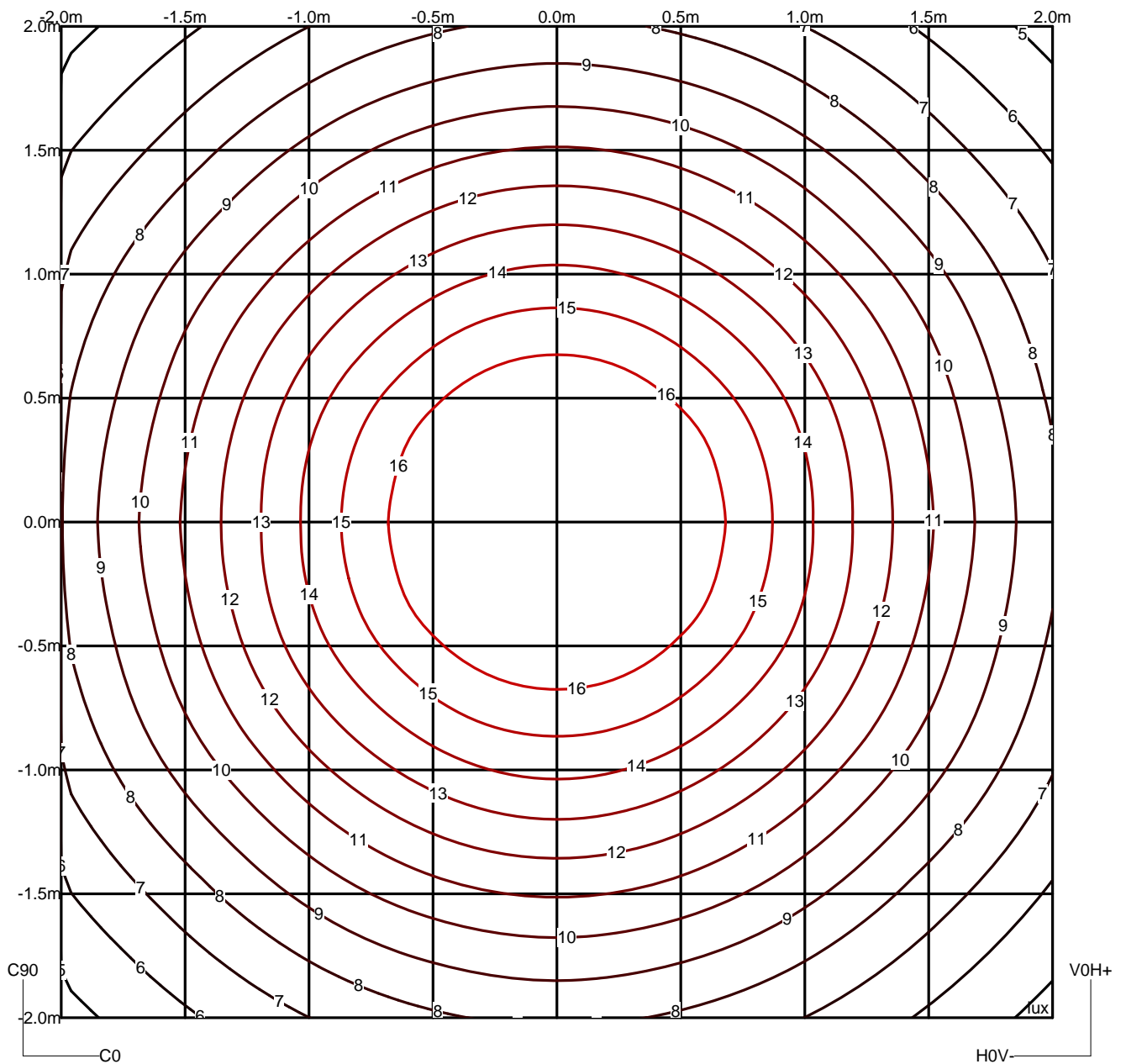
H[m]	D[m]	Max lux	Med lux	Alpha=55.5°+55.5°	G=0.0	
1.00	2.91	160	40			
2.00	5.82	40	10			
3.00	8.73	18	4			
4.00	11.64	10	2			
5.00	14.55	6	2			

H[m]	D[m]	Max lux	Med lux	Beta=55.6°+55.6°	G=0.0	
1.00	2.92	160	40			
2.00	5.85	40	10			
3.00	8.77	18	4			
4.00	11.70	10	2			
5.00	14.62	6	2			

Luminaire		Measuram.		Lamp	
Code	25-9733-05-M1	Code	25-9733-05-M1	Code	25-9733-05-M1
Name	Pie INVISIBLE 9W warm white	Name	Pie INVISIBLE 9W warm white	Number	1
Line	Eulumdat	Date	16-09-2014	Position	
Efficiency	100.00%	Coordinate system	CG	Total Flux	469.49 lm

Isolux (Floor)

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



Luminaire

Code 25-9733-05-M1
 Name Pie INVISIBLE 9W warm white
 Line Eulumdat

Measur.

Code 25-9733-05-M1
 Name Pie INVISIBLE 9W warm white
 Date 16-09-2014

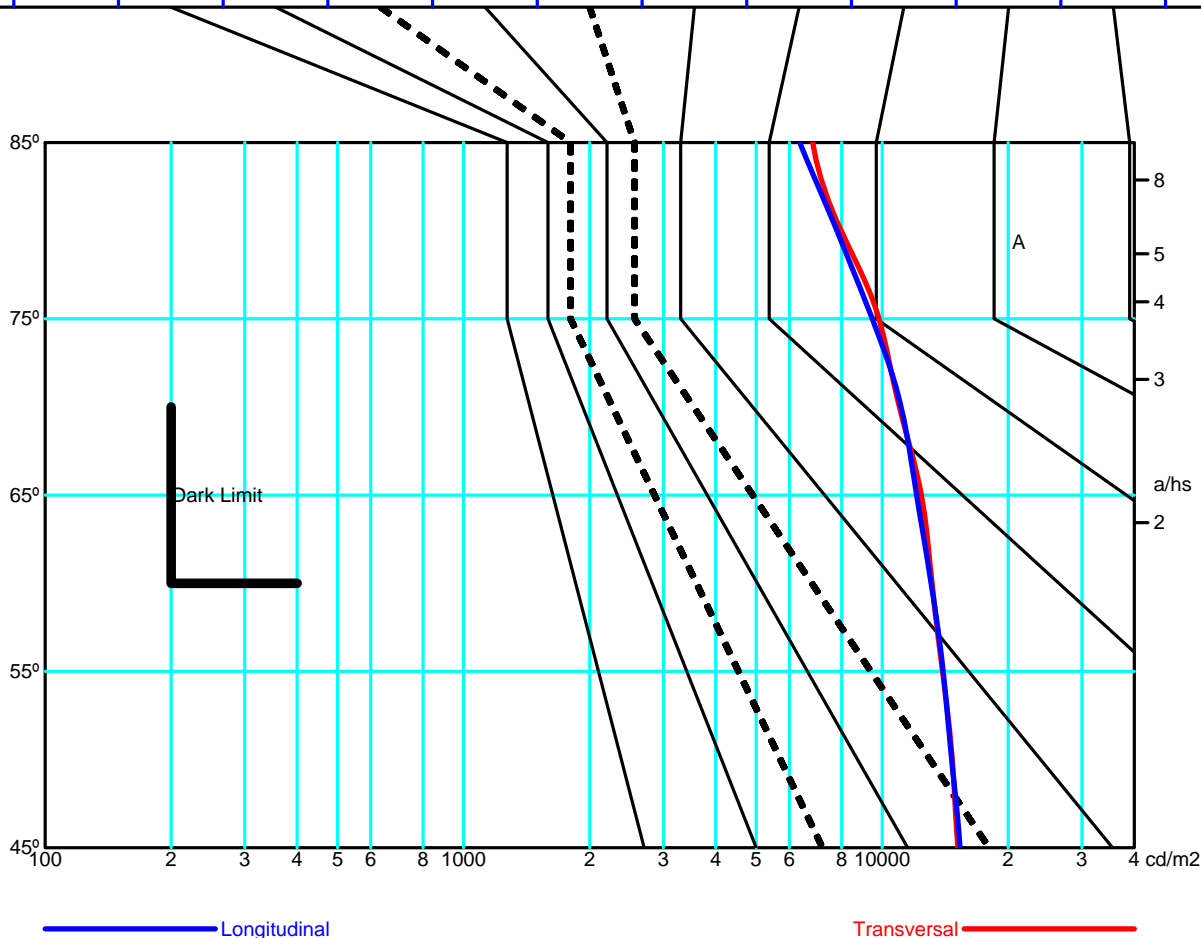
Lamp

Code 25-9733-05-M1
 Number 1
 Position

Efficiency 100.00% Coordinate system CG Total Flux 469.49 lm

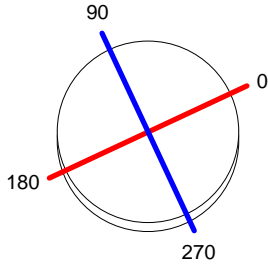
		Average Luminance [cd/m ²]										
		0.0°	45°	50°	55°	60°	65°	70°	75°	80°	85°	
90.0°		15342	14648	13982	13092	12082	11095	9463	7794	6353	---	

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

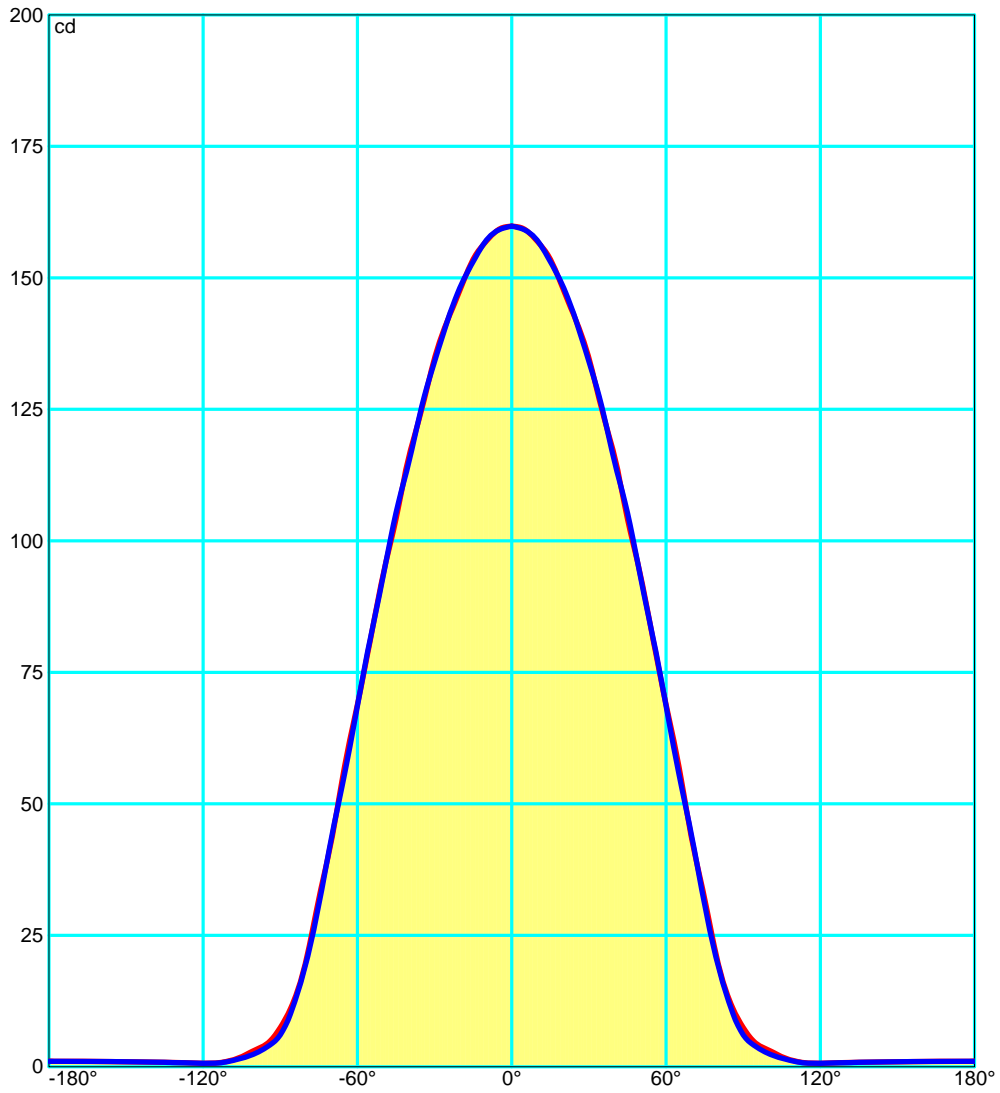


Luminaire		Measur.		Lamp	
Code	25-9733-05-M1	Code	25-9733-05-M1	Code	25-9733-05-M1
Name	Pie INVISIBLE 9W warm white	Name	Pie INVISIBLE 9W warm white	Number	1
Line	Eulumdat	Date	16-09-2014	Position	
Efficiency	100.00%	Coordinate system	CG	Total Flux	469.49 lm

Diam=110mm



C Halfplanes



Luminaire		Measur.		Lamp	
Code	25-9733-05-M1	Code	25-9733-05-M1	Code	25-9733-05-M1
Name	Pie INVISIBLE 9W warm white	Name	Pie INVISIBLE 9W warm white	Number	1
Line	Eulumdat	Date	16-09-2014	Position	
Efficiency	100.00%	Coordinate system	CG	Total Flux	469.49 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	21.5	22.8	21.8	23.0	23.3	21.4	22.7	21.7	23.0	23.3
x=2H y=3H	23.0	24.2	23.3	24.5	24.7	22.9	24.1	23.3	24.4	24.7
x=2H y=4H	23.6	24.7	24.0	25.0	25.3	23.5	24.6	23.9	24.9	25.3
x=2H y=6H	24.0	25.1	24.4	25.4	25.6	23.9	24.9	24.3	25.3	25.6
x=2H y=8H	24.2	25.2	24.6	25.5	25.8	24.0	25.0	24.4	25.4	25.8
x=2H y=12H	24.3	25.3	24.7	25.6	25.8	24.1	25.1	24.5	25.5	25.8
x=4H y=2H	22.2	23.3	22.6	23.6	23.9	22.2	23.3	22.5	23.6	23.9
x=4H y=3H	23.9	24.9	24.3	25.2	25.5	23.8	24.8	24.2	25.1	25.5
x=4H y=4H	24.6	25.5	25.1	25.9	26.2	24.5	25.3	24.9	25.7	26.2
x=4H y=6H	25.2	25.9	25.7	26.4	26.6	25.0	25.8	25.5	26.2	26.6
x=4H y=8H	25.4	26.1	25.9	26.5	26.8	25.2	25.9	25.7	26.3	26.8
x=4H y=12H	25.6	26.2	26.0	26.6	26.9	25.3	26.0	25.8	26.4	26.9
x=8H y=4H	24.9	25.6	25.4	26.1	26.4	24.8	25.5	25.3	25.9	26.4
x=8H y=6H	25.6	26.2	26.1	26.7	27.0	25.5	26.0	25.9	26.5	27.0
x=8H y=8H	25.9	26.4	26.4	26.9	27.2	25.7	26.2	26.2	26.7	27.2
x=8H y=12H	26.2	26.6	26.7	27.1	27.4	25.9	26.4	26.5	26.9	27.4
x=12H y=4H	24.9	25.6	25.4	26.0	26.4	24.8	25.5	25.3	25.9	26.4
x=12H y=6H	25.7	26.2	26.2	26.7	27.0	25.5	26.0	26.0	26.5	27.0
x=12H y=8H	26.0	26.5	26.6	27.0	27.3	25.8	26.3	26.4	26.8	27.3

Luminaire	Measur.	Lamp
Code 25-9733-05-M1	Code 25-9733-05-M1	Code 25-9733-05-M1
Name Pie INVISIBLE 9W warm white	Name Pie INVISIBLE 9W warm white	Number 1
Line Eulumdat	Date 16-09-2014	Position

Efficiency 100.00%	Coordinate system CG	Total Flux 469.49 lm
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Total Flux=469.49 Luminaire Flux=469.48

	0.60	0.80	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	10.00	20.00
RI	0.30	0.39	0.46	0.53	0.58	0.67	0.73	0.77	0.82	0.85	0.92	0.96
DRR	5	5	5	5	5	5	5	5	5	5	5	5
RC												

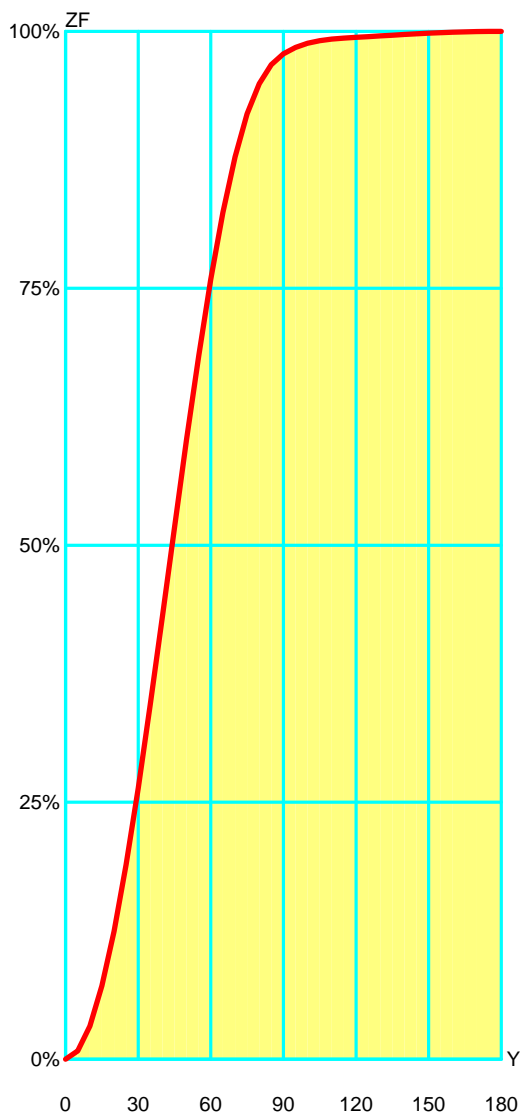
Zonal Flux per 1000 Lumen

	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
Y°	32	124	264	431	603	759	878	949	978	988	993	994	996	997	998	999	1000	1000
ZF(Y)																		

CIE Flux Codes

46 78 94 98 100

C.I.E.	5	LOR	99.99872 %
D DIN 5040	A31	ULOR	2.18335 %
F UTE	0.98 E + 0.02 T	DLOR	97.81537 %
B NBN	BZ 5	UFF	2.18338 %
RN	2.18338 %	DFF	97.81662 %
BLF	1.0	FFR	2.23212 %



Zonal Flux				
Gamma °	Flux	Sum lm	Flux [%]	Sum [%]
0°	0.00	0.00	0.00%	0.00%
5°	8.12	8.12	0.81%	0.81%
10°	24.09	32.21	2.41%	3.22%
15°	39.21	71.42	3.92%	7.14%
20°	52.94	124.35	5.29%	12.44%
25°	64.80	189.15	6.48%	18.92%
30°	74.41	263.57	7.44%	26.36%
35°	81.45	345.01	8.14%	34.50%
40°	85.65	430.66	8.56%	43.07%
45°	87.03	517.69	8.70%	51.77%
50°	85.53	603.22	8.55%	60.32%
55°	81.18	684.40	8.12%	68.44%
60°	74.31	758.71	7.43%	75.87%
65°	65.14	823.84	6.51%	82.39%
70°	54.10	877.94	5.41%	87.80%
75°	41.81	919.75	4.18%	91.98%
80°	29.32	949.08	2.93%	94.91%
85°	18.43	967.51	1.84%	96.75%
90°	10.65	978.15	1.06%	97.82%
95°	6.22	984.37	0.62%	98.44%
100°	3.99	988.36	0.40%	98.84%
105°	2.60	990.96	0.26%	99.10%
110°	1.57	992.53	0.16%	99.25%
115°	0.93	993.46	0.09%	99.35%
120°	0.71	994.17	0.07%	99.42%
125°	0.69	994.87	0.07%	99.49%
130°	0.70	995.56	0.07%	99.56%
135°	0.70	996.26	0.07%	99.63%
140°	0.68	996.95	0.07%	99.70%
145°	0.65	997.60	0.06%	99.76%
150°	0.59	998.19	0.06%	99.82%
155°	0.52	998.72	0.05%	99.87%
160°	0.44	999.16	0.04%	99.92%
165°	0.36	999.52	0.04%	99.95%
170°	0.26	999.78	0.03%	99.98%
175°	0.16	999.93	0.02%	99.99%
180°	0.05	999.99	0.01%	100.00%