

Luminaire

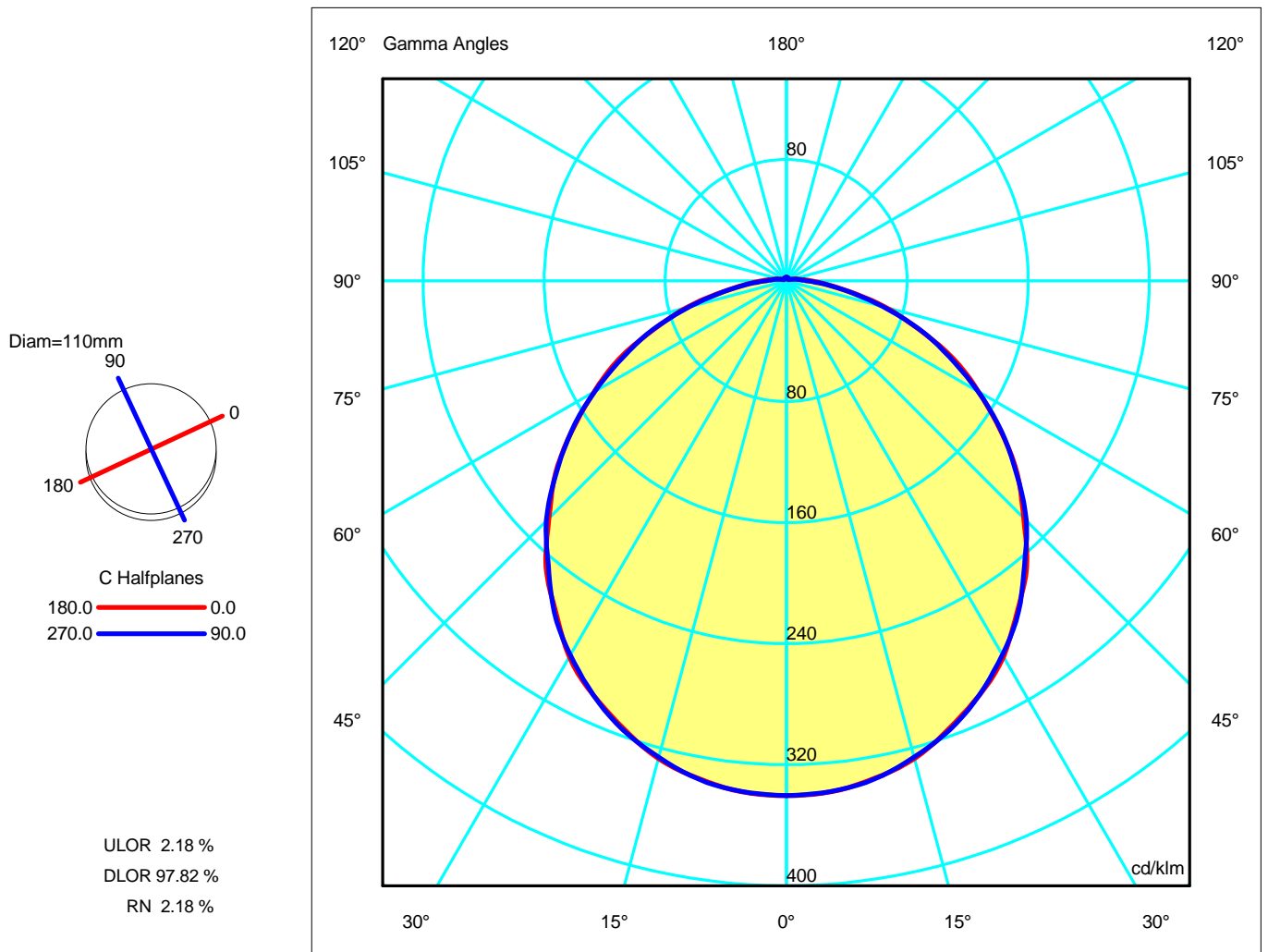
Code 10-9733-05-CL
 Name Pie INVISIBLE 9W warm white

Measur.

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

Luminaire Flux	469.48 lm	Luminaire Power	9.00 W	Efficacy	52.16 lm/W	Efficiency	100.00%
Lamps Flux	469.49 lm	Maximum value	340.39 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical
Round Luminaire Round Luminous Area		Diam. Diam.	110 mm 105 mm	Height Height	20 mm 10 mm		
Horizontal Luminous Area Emitting area on Plane 0° Emitting area on Plane 90°		0.008659 m2 0.001050 m2 0.001050 m2		Emitting area on Plane 180° Emitting area on Plane 270° Glare area at 76°		0.001050 m2 0.001050 m2 0.003114 m2	
Coordinate system Date Measurement Distance		CG 27-11-2017 0.00		Symmetry Type Maximum Gamma Angle Measurement Flux		Double Symmetrical 180 469.49 lm	
Operator Temperature Humidity Notes		Asselum T2 25.00 °C 60.00 %		Source Voltage [V] Source current [A] Photocell			

		Luminaire Lamps				
Line		Code	Name	Flux [lm]	Pow. [W]	Q.ty
		10-9733-05-CL	10-9733-05-CL	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		



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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	340.39	340.39	340.39	340.39	340.39	340.39	340.39
G 5.0	339.18	338.94	339.13	338.82	338.89	338.76	338.91
G 10.0	334.16	334.16	334.99	334.31	334.21	334.30	334.55
G 15.0	327.08	326.74	327.20	326.40	326.26	326.29	326.06
G 20.0	314.92	316.26	316.78	315.51	315.12	315.40	315.91
G 25.0	302.14	302.14	303.11	301.99	301.45	301.84	302.07
G 30.0	287.04	285.64	287.41	285.22	285.68	285.16	285.58
G 35.0	266.26	266.44	269.44	266.45	267.17	266.75	267.51
G 40.0	247.13	245.36	247.45	245.96	246.05	246.04	244.91
G 45.0	221.83	224.64	225.44	223.51	223.11	223.42	224.34
G 50.0	199.48	199.65	201.01	199.47	198.14	198.15	198.75
G 55.0	172.91	173.88	176.44	173.38	173.30	173.30	173.53
G 60.0	146.73	147.08	150.86	146.92	148.02	146.07	146.09
G 65.0	121.81	119.57	122.05	120.63	120.19	119.64	118.67
G 70.0	92.38	94.17	95.61	92.72	92.36	91.86	93.30
G 75.0	68.10	68.46	68.60	66.05	65.76	64.52	65.62
G 80.0	43.11	44.37	45.45	42.33	41.64	40.86	42.13
G 85.0	26.16	26.55	27.37	23.92	24.61	22.01	24.36
G 90.0	15.90	15.20	15.21	13.16	13.72	11.84	12.94
G 95.0	9.51	9.61	9.58	8.53	8.48	7.60	8.16
G100.0	6.77	6.56	6.54	5.68	5.66	5.05	5.25
G105.0	4.09	4.15	4.24	3.65	3.66	3.30	3.48
G110.0	2.39	2.34	2.41	2.11	2.16	1.95	2.17
G115.0	1.48	1.43	1.51	1.45	1.50	1.44	1.47
G120.0	1.46	1.42	1.46	1.46	1.48	1.48	1.44
G125.0	1.55	1.57	1.53	1.54	1.56	1.52	1.55
G130.0	1.71	1.68	1.68	1.66	1.68	1.64	1.66
G135.0	1.82	1.78	1.78	1.81	1.81	1.76	1.82
G140.0	1.91	1.89	1.89	1.91	1.93	1.88	1.91
G145.0	2.00	2.01	1.96	2.00	1.98	1.97	2.00
G150.0	2.02	2.05	2.05	2.05	2.07	2.07	2.05
G155.0	2.10	2.08	2.07	2.08	2.12	2.11	2.06
G160.0	2.19	2.12	2.12	2.15	2.16	2.16	2.14
G165.0	2.19	2.18	2.18	2.18	2.18	2.16	2.17
G170.0	2.19	2.21	2.18	2.18	2.20	2.18	2.18
G175.0	2.19	2.24	2.23	2.20	2.27	2.19	2.23
G180.0	2.28	2.28	2.23	2.27	2.27	2.22	2.25

Luminaire

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Measur.

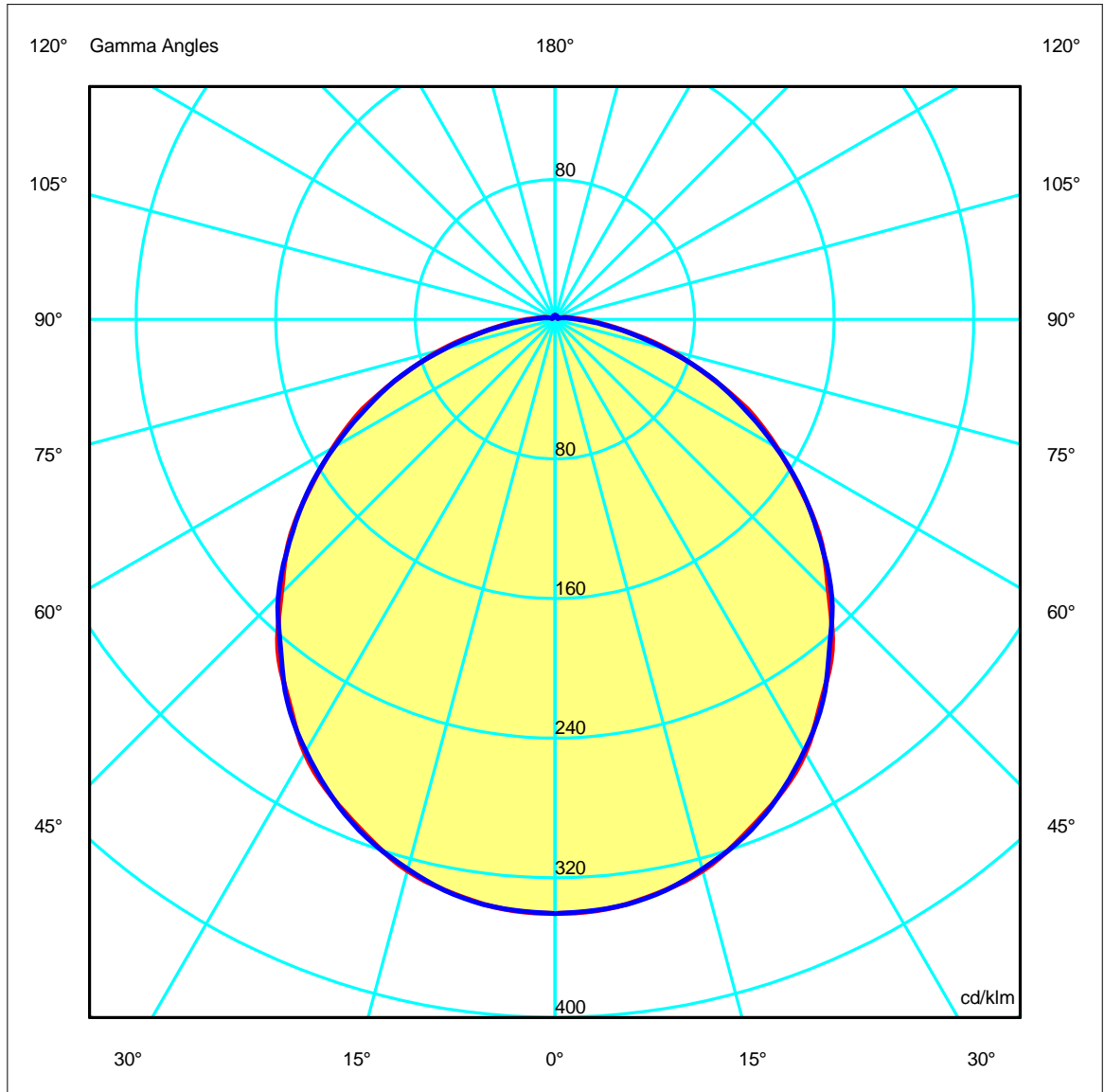
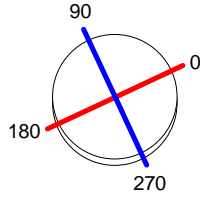
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Lamps Flux	469.49 lm	Maximum value	340.39 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical

Diam=110mm

C Halfplanes

180.0 ————— 0.0
 270.0 ————— 90.0



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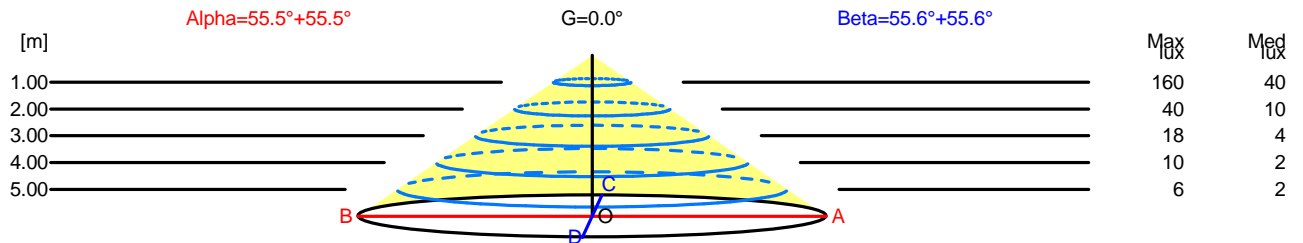
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Lamps Flux	469.49 lm	Maximum value	340.39 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical

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/klm]									
	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			

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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	Viewed Crosswise					Viewed Endwise				
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	24.8	22.9	24.1	23.3	24.4	24.7
x=2H y=4H	23.6	24.7	24.0	25.0	25.4	23.5	24.6	23.9	24.9	25.3
x=2H y=6H	24.0	25.1	24.4	25.4	25.8	23.9	24.9	24.3	25.3	25.6
x=2H y=8H	24.2	25.2	24.6	25.5	25.9	24.0	25.0	24.4	25.4	25.8
x=2H y=12H	24.3	25.3	24.7	25.6	26.0	24.1	25.1	24.5	25.5	25.8
x=4H y=2H	22.2	23.3	22.6	23.6	24.0	22.2	23.3	22.5	23.6	23.9
x=4H y=3H	23.9	24.9	24.3	25.2	25.6	23.8	24.8	24.2	25.1	25.5
x=4H y=4H	24.6	25.5	25.1	25.9	26.3	24.5	25.3	24.9	25.7	26.2
x=4H y=6H	25.2	25.9	25.7	26.4	26.8	25.0	25.8	25.5	26.2	26.6
x=4H y=8H	25.4	26.1	25.9	26.5	27.0	25.2	25.9	25.7	26.3	26.8
x=4H y=12H	25.6	26.2	26.0	26.6	27.1	25.3	26.0	25.8	26.4	26.9
x=8H y=4H	24.9	25.6	25.4	26.1	26.5	24.8	25.5	25.3	25.9	26.4
x=8H y=6H	25.6	26.2	26.1	26.7	27.2	25.5	26.0	25.9	26.5	27.0
x=8H y=8H	25.9	26.4	26.4	26.9	27.5	25.7	26.2	26.2	26.7	27.2
x=8H y=12H	26.2	26.6	26.7	27.1	27.7	25.9	26.4	26.5	26.9	27.4
x=12H y=4H	24.9	25.6	25.4	26.0	26.5	24.8	25.5	25.3	25.9	26.4
x=12H y=6H	25.7	26.2	26.2	26.7	27.2	25.5	26.0	26.0	26.5	27.0
x=12H y=8H	26.0	26.5	26.6	27.0	27.5	25.8	26.3	26.4	26.8	27.3

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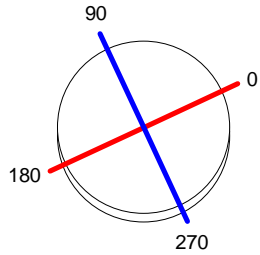
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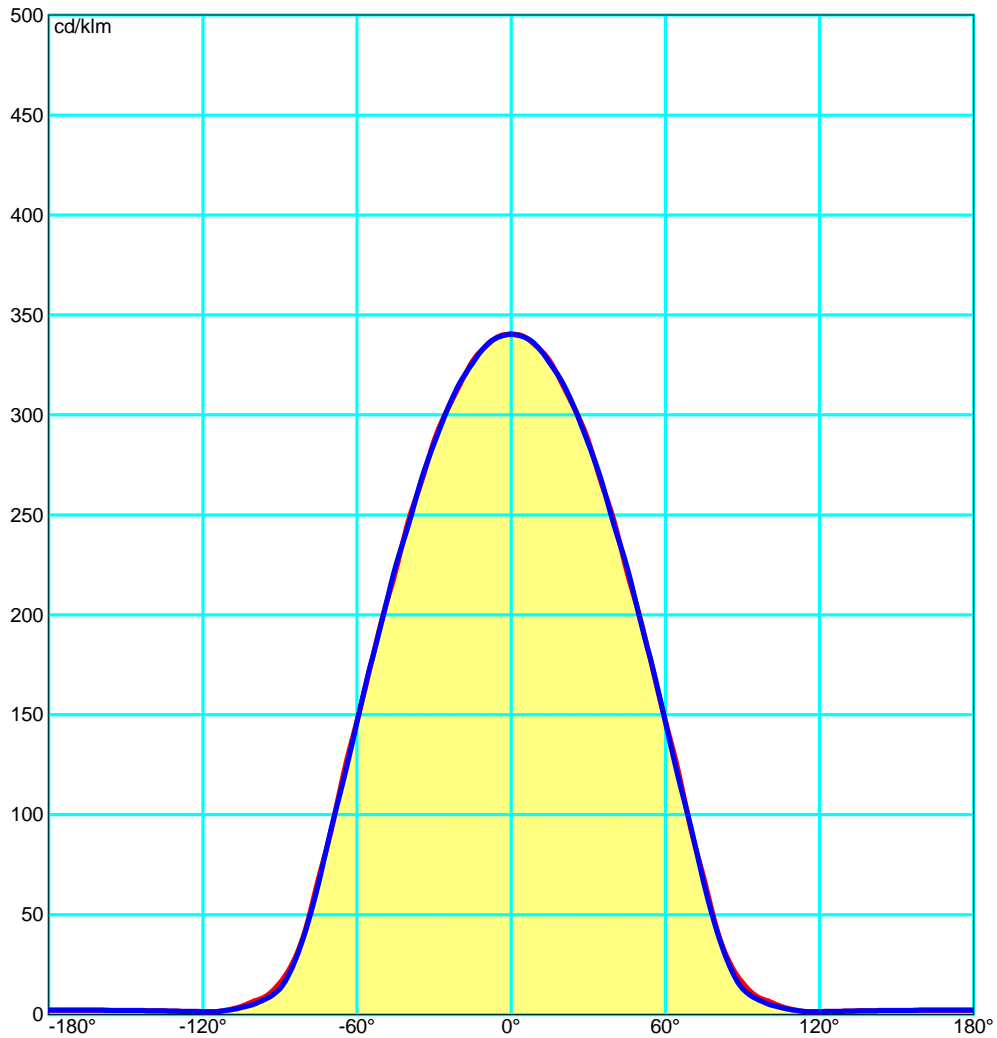
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Diam=110mm



C Halfplanes

180.0 ———— 0.0
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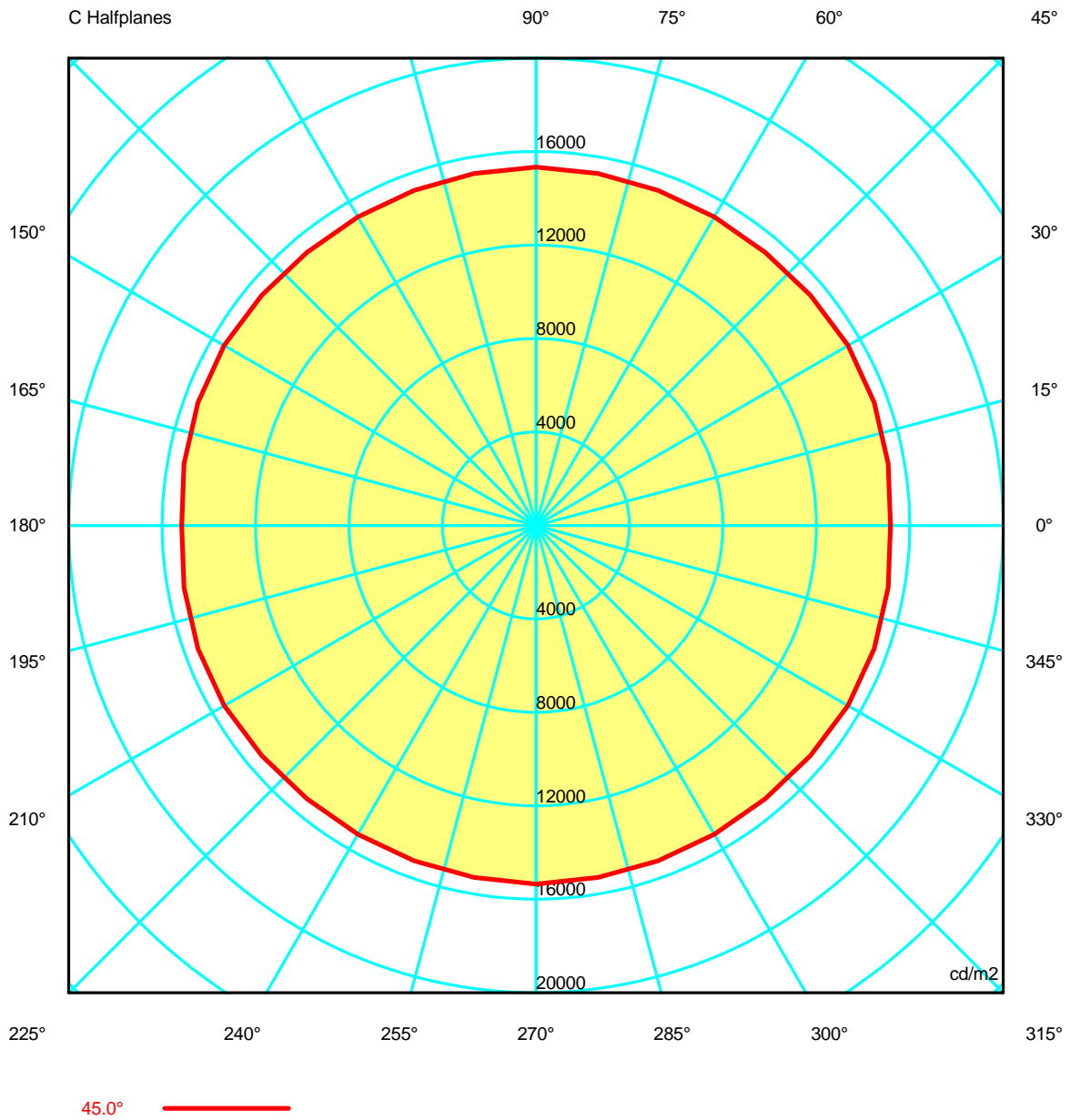
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Luminance



Luminaire

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Lamps Flux	469.49 lm	Maximum value	340.39 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical

Luminance cd/m2 Table 1/3

	C 0.00	C 10.00	C 20.00	C 30.00	C 40.00	C 50.00	C 60.00	C 70.00	C 80.00	C 90.00	C 100.00	C 110.00	C 120.00
G 0.0	18455.91	18455.91	18455.91	18455.91	18455.91	18455.91	18455.91	18455.91	18455.91	18455.91	18455.91	18455.91	18455.91
G 5.0	18266.75	18255.14	18257.45	18263.83	18252.54	18246.82	18250.91	18246.30	18244.94	18252.43	18244.94	18246.30	18250.91
G 10.0	18012.57	18012.68	18029.30	18057.23	18035.68	18013.70	18015.06	18017.80	18023.30	18033.25	18023.30	18017.80	18015.06
G 15.0	17782.09	17763.30	17773.03	17788.72	17761.49	17742.71	17737.70	17740.29	17736.42	17726.75	17736.42	17740.29	17737.70
G 20.0	17402.55	17453.67	17496.23	17505.33	17460.34	17420.29	17413.88	17422.19	17437.88	17457.18	17437.88	17422.19	17413.88
G 25.0	17107.89	17108.11	17129.46	17163.13	17126.95	17080.77	17068.99	17082.53	17097.52	17104.43	17097.52	17082.53	17068.99
G 30.0	16795.33	16714.50	16749.34	16816.84	16732.62	16697.69	16715.55	16697.96	16684.81	16709.87	16684.81	16697.96	16715.55
G 35.0	16244.37	16251.71	16328.28	16438.52	16319.24	16270.81	16299.83	16286.59	16278.55	16320.77	16278.55	16286.59	16299.83
G 40.0	15875.93	15769.25	15803.05	15896.46	15832.90	15803.03	15806.85	15815.34	15787.80	15733.41	15787.80	15815.34	15806.85
G 45.0	15169.87	15306.23	15403.57	15416.68	15329.40	15261.31	15257.45	15267.86	15295.89	15341.68	15295.89	15267.86	15257.45
G 50.0	14701.81	14709.95	14752.67	14814.86	14755.77	14650.84	14603.17	14651.89	14681.91	14647.93	14681.91	14651.89	14603.17
G 55.0	13932.55	13957.97	14099.20	14216.35	14059.68	13968.14	13963.72	13967.80	13969.96	13982.10	13969.96	13967.80	13963.72
G 60.0	13149.16	13170.51	13318.97	13519.67	13282.80	13162.57	13265.57	13148.70	13061.35	13092.13	13061.35	13148.70	13265.57
G 65.0	12402.66	12191.42	12245.80	12426.77	12351.04	12247.21	12237.75	12208.26	12150.98	12082.46	12150.98	12208.26	12237.75
G 70.0	10985.37	11114.81	11293.37	11369.68	11141.47	11010.76	10982.40	10932.72	10953.89	11094.83	10953.89	10932.72	10982.40
G 75.0	9822.14	9846.53	9911.69	9893.94	9637.30	9488.09	9484.07	9353.42	9317.91	9463.47	9317.91	9353.42	9484.07
G 80.0	7974.83	8110.53	8331.90	8409.40	8026.57	7739.29	7703.68	7589.63	7595.16	7793.68	7595.16	7589.63	7703.68
G 85.0	6821.07	6888.97	7072.24	7136.08	6483.69	6246.95	6416.45	5935.95	5782.67	6352.55	5782.67	5935.95	6416.45
G 90.0	7107.94	6901.41	6798.36	6798.77	6116.90	5928.40	6132.61	5556.80	5288.80	5787.47	5288.80	5556.80	6132.61

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Luminance cd/m2 Table 2/3

	C 130.00	C 140.00	C 150.00	C 160.00	C 170.00	C 180.00	C 190.00	C 200.00	C 210.00	C 220.00	C 230.00	C 240.00	C 250.00
G 0.0	18455.91	18455.91	18455.91	18455.91	18455.91	18455.91	18455.91	18455.91	18455.91	18455.91	18455.91	18455.91	18455.91
G 5.0	18246.82	18252.54	18263.83	18257.45	18255.14	18266.75	18255.14	18257.45	18263.83	18252.54	18246.82	18250.91	18246.30
G 10.0	18013.70	18035.68	18057.23	18029.30	18012.68	18012.57	18012.68	18029.30	18057.23	18035.68	18013.70	18015.06	18017.80
G 15.0	17742.71	17761.49	17788.72	17773.03	17763.30	17782.09	17763.30	17773.03	17788.72	17761.49	17742.71	17737.70	17740.29
G 20.0	17420.29	17460.34	17505.33	17496.23	17453.67	17402.55	17453.67	17496.23	17505.33	17460.34	17420.29	17413.88	17422.19
G 25.0	17080.77	17126.95	17163.13	17129.46	17108.11	17107.89	17108.11	17129.46	17163.13	17126.95	17080.77	17068.99	17082.53
G 30.0	16697.69	16732.62	16816.84	16749.34	16714.50	16795.33	16714.50	16749.34	16816.84	16732.62	16697.69	16715.55	16697.96
G 35.0	16270.81	16319.24	16438.52	16328.28	16251.71	16244.37	16251.71	16328.28	16438.52	16319.24	16270.81	16299.83	16286.59
G 40.0	15803.03	15832.90	15896.46	15803.05	15769.25	15875.93	15769.25	15803.05	15896.46	15832.90	15803.03	15806.85	15815.34
G 45.0	15261.31	15329.40	15416.68	15403.57	15306.23	15169.87	15306.23	15403.57	15416.68	15329.40	15261.31	15257.45	15267.86
G 50.0	14650.84	14755.77	14814.86	14752.67	14709.95	14701.81	14709.95	14752.67	14814.86	14755.77	14650.84	14603.17	14651.89
G 55.0	13968.14	14059.68	14216.35	14099.20	13957.97	13932.55	13957.97	14099.20	14216.35	14059.68	13968.14	13963.72	13967.80
G 60.0	13162.57	13282.80	13519.67	13318.97	13170.51	13149.16	13170.51	13318.97	13519.67	13282.80	13162.57	13265.57	13148.70
G 65.0	12247.21	12351.04	12426.77	12245.80	12191.42	12402.66	12191.42	12245.80	12426.77	12351.04	12247.21	12237.75	12208.26
G 70.0	11010.76	11141.47	11369.68	11293.37	11114.81	10985.37	11114.81	11293.37	11369.68	11141.47	11010.76	10982.40	10932.72
G 75.0	9488.09	9637.30	9893.94	9911.69	9846.53	9822.14	9846.53	9911.69	9893.94	9637.30	9488.09	9484.07	9353.42
G 80.0	7739.29	8026.57	8409.40	8331.90	8110.53	7974.83	8110.53	8331.90	8409.40	8026.57	7739.29	7703.68	7589.63
G 85.0	6246.95	6483.69	7136.08	7072.24	6888.97	6821.07	6888.97	7072.24	7136.08	6483.69	6246.95	6416.45	5935.95
G 90.0	5928.40	6116.90	6798.77	6798.36	6901.41	7107.94	6901.41	6798.36	6798.77	6116.90	5928.40	6132.61	5556.80

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

Luminaire Flux	469.48 lm	Luminaire Power	9.00 W	Efficacy	52.16 lm/W	Efficiency	100.00%
Lamps Flux	469.49 lm	Maximum value	340.39 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical

Luminance cd/m2 Table 3/3

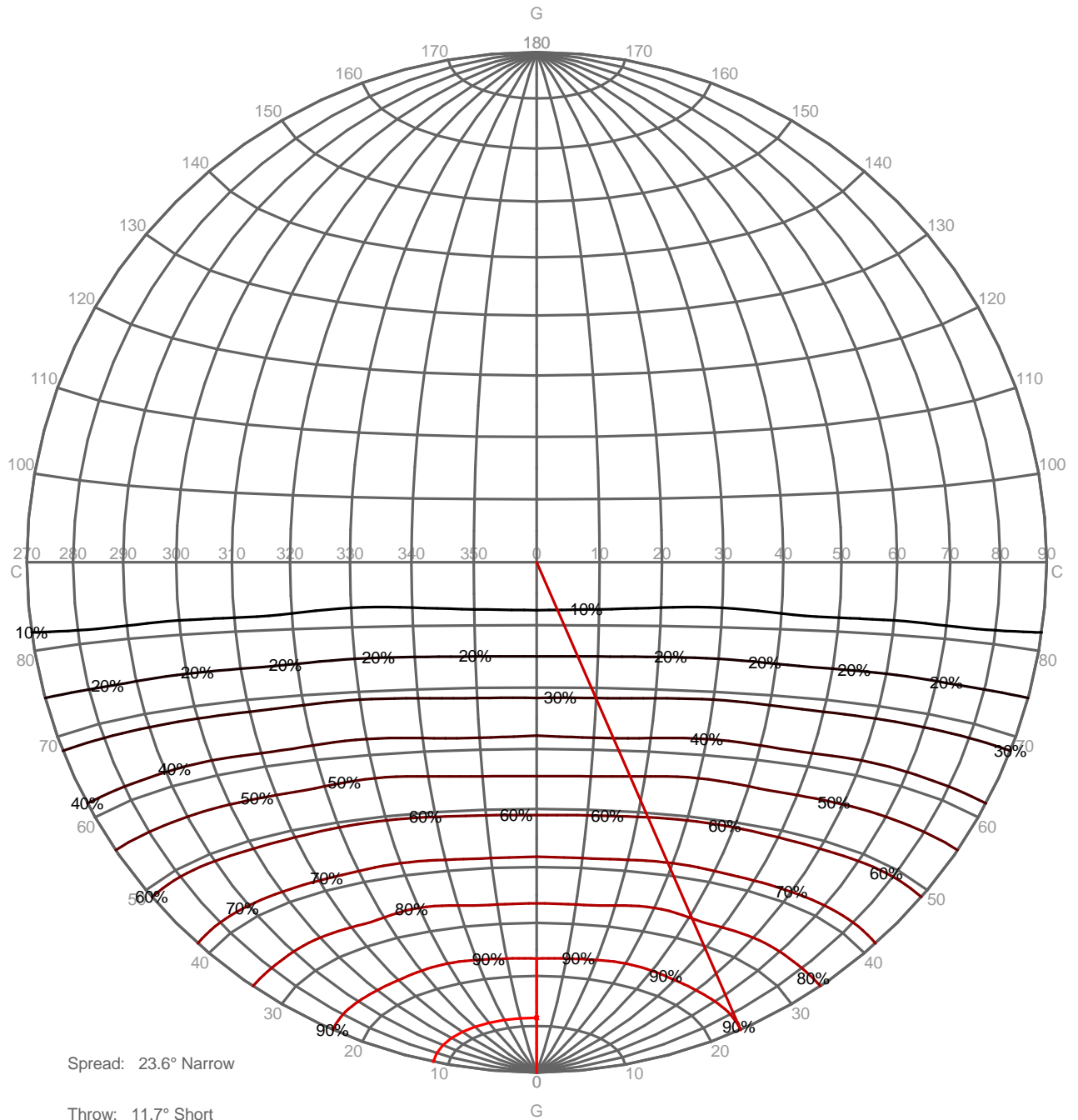
	C 260.00	C 270.00	C 280.00	C 290.00	C 300.00	C 310.00	C 320.00	C 330.00	C 340.00	C 350.00
G 0.0	18455.91	18455.91	18455.91	18455.91	18455.91	18455.91	18455.91	18455.91	18455.91	18455.91
G 5.0	18244.94	18252.43	18244.94	18246.30	18250.91	18246.82	18252.54	18263.83	18257.45	18255.14
G 10.0	18023.30	18033.25	18023.30	18017.80	18015.06	18013.70	18035.68	18057.23	18029.30	18012.68
G 15.0	17736.42	17726.75	17736.42	17740.29	17737.70	17742.71	17761.49	17788.72	17773.03	17763.30
G 20.0	17437.88	17457.18	17437.88	17422.19	17413.88	17420.29	17460.34	17505.33	17496.23	17453.67
G 25.0	17097.52	17104.43	17097.52	17082.53	17068.99	17080.77	17126.95	17163.13	17129.46	17108.11
G 30.0	16684.81	16709.87	16684.81	16697.96	16715.55	16697.69	16732.62	16816.84	16749.34	16714.50
G 35.0	16278.55	16320.77	16278.55	16286.59	16299.83	16270.81	16319.24	16438.52	16328.28	16251.71
G 40.0	15787.80	15733.41	15787.80	15815.34	15806.85	15803.03	15832.90	15896.46	15803.05	15769.25
G 45.0	15295.89	15341.68	15295.89	15267.86	15257.45	15261.31	15329.40	15416.68	15403.57	15306.23
G 50.0	14681.91	14647.93	14681.91	14651.89	14603.17	14650.84	14755.77	14814.86	14752.67	14709.95
G 55.0	13969.96	13982.10	13969.96	13967.80	13963.72	13968.14	14059.68	14216.35	14099.20	13957.97
G 60.0	13061.35	13092.13	13061.35	13148.70	13265.57	13162.57	13282.80	13519.67	13318.97	13170.51
G 65.0	12150.98	12082.46	12150.98	12208.26	12237.75	12247.21	12351.04	12426.77	12245.80	12191.42
G 70.0	10953.89	11094.83	10953.89	10932.72	10982.40	11010.76	11141.47	11369.68	11293.37	11114.81
G 75.0	9317.91	9463.47	9317.91	9353.42	9484.07	9488.09	9637.30	9893.94	9911.69	9846.53
G 80.0	7595.16	7793.68	7595.16	7589.63	7703.68	7739.29	8026.57	8409.40	8331.90	8110.53
G 85.0	5782.67	6352.55	5782.67	5935.95	6416.45	6246.95	6483.69	7136.08	7072.24	6888.97
G 90.0	5288.80	5787.47	5288.80	5556.80	6132.61	5928.40	6116.90	6798.77	6798.36	6901.41

Luminaire
 Code 10-9733-05-CL
 Name Pie INVISIBLE 9W warm white
Measur.
 Code 25-9733-05-M1
 Name Pie INVISIBLE 9W warm white

Luminaire Flux	469.48 lm	Luminaire Power	9.00 W	Efficacy	52.16 lm/W	Efficiency	100.00%
Lamps Flux	469.49 lm	Maximum value	340.39 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical

PERCENTAGE ISOCANDLES

Projection: Equal Area SLI 7.0 Tight Tilting Angle:0°



Luminaire

Code 10-9733-05-CL
 Name Pie INVISIBLE 9W warm white

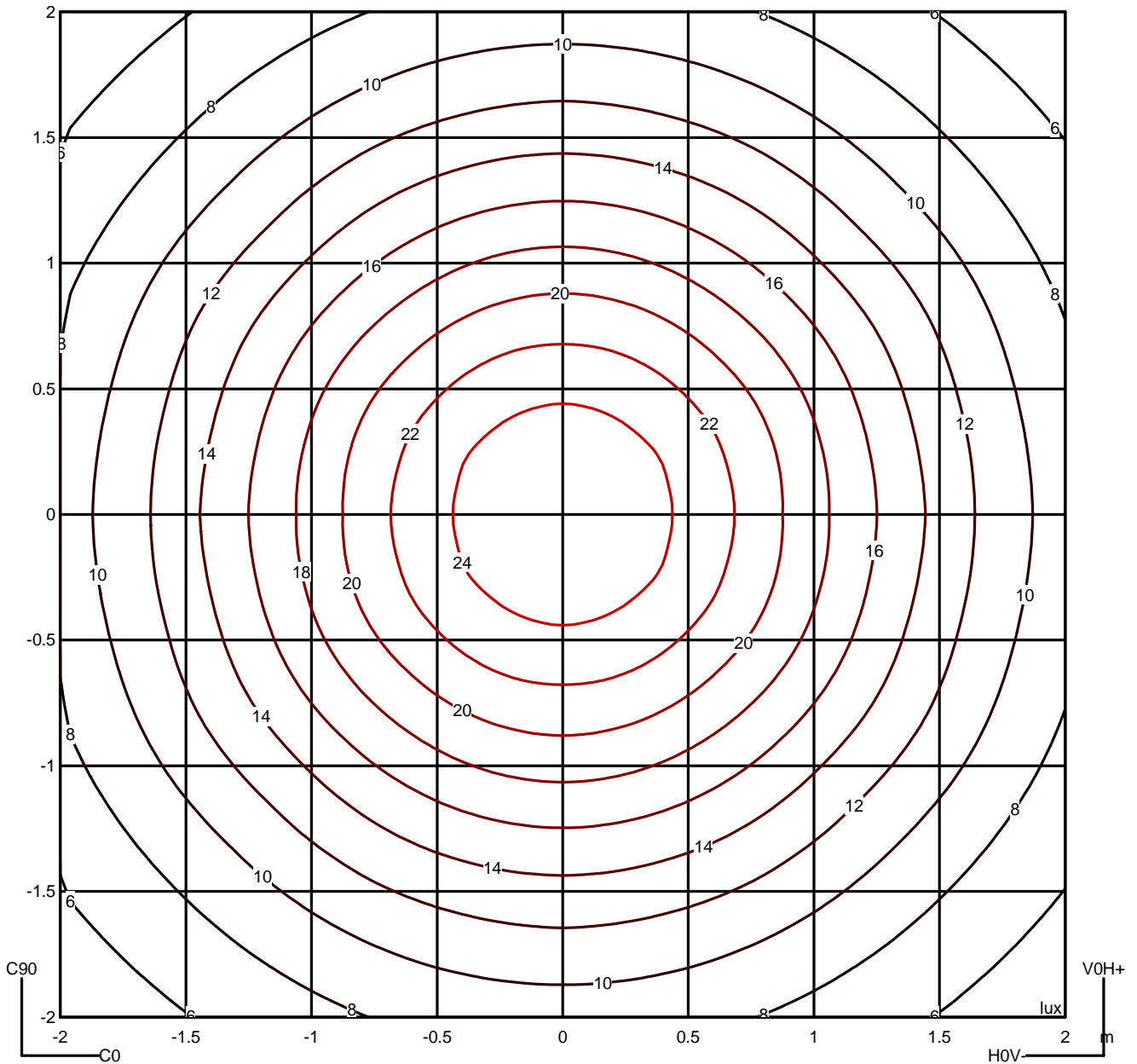
Measur.

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

Luminaire Flux	469.48 lm	Luminaire Power	9.00 W	Efficacy	52.16 lm/W	Efficiency	100.00%
Lamps Flux	469.49 lm	Maximum value	340.39 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical

Isolux (Floor)

Luminaire position X=0.00m Y=0.00m Z=2.50m



Luminaire

Code 10-9733-05-CL
 Name Pie INVISIBLE 9W warm white

Measurment

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

Luminaire Flux	469.48 lm	Luminaire Power	9.00 W	Efficacy	52.16 lm/W	Efficiency	100.00%
Lamps Flux	469.49 lm	Maximum value	340.39 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical

	Average Luminance [cd/m ²]									
	45°	50°	55°	60°	65°	70°	75°	80°	85°	
0.0°	15170	14702	13933	13149	12403	10985	9822	7975	6821	---
90.0°	15342	14648	13982	13092	12082	11095	9463	7794	6353	---

Flush mounted or longitudinal view												
		Illumination(Ix)										
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

