

# LEDS C4<sup>®</sup>

## Luminaire

Code AG59-13V9S2BBDC  
Name PLAY

## Measurum.

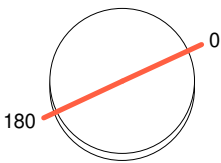
Code AG59-13V9S2BBDC  
Name PLAY

Luminaire Flux	1104.22 lm	Luminaire Power	14.40 W	Efficacy	76.68 lm/W	Efficiency	100.00%
Sources Flux	1104.22 lm	Maximum value	5483.05 cd/klm	Position	C=0.00 G=0.00	CG	Rotosymmetrical
Round Luminaire		Diam.	48 mm	Height	86 mm		
Round Luminous Area		Diam.	45 mm	Height	0 mm		
Horizontal Luminous Area		0.001590 m <sup>2</sup>		Emitting area on Plane 180°		0.000000 m <sup>2</sup>	
Emitting area on Plane 0°		0.000000 m <sup>2</sup>		Emitting area on Plane 270°		0.000000 m <sup>2</sup>	
Emitting area on Plane 90°		0.000000 m <sup>2</sup>		Glare area at 76°		0.000385 m <sup>2</sup>	
Coordinate system		CG		Symmetry Type		Rotosymmetrical	
Date		16-03-2020		Maximum Gamma Angle		90	
Measurement Distance		0.00		Measurement Flux		1249.68 lm	
Operator		qualitat		Rated Voltage			
Temperature		25.00 °C		Rated Current			
Humidity		60.00 %		Photocell			
Notes							

## Luminaire Lamps

Line	Code	Name	Flux [lm]	Pow. [W]	Q.ty
	AG59-13V9S2BBDC	AG59-13W9S2BB55	1104.22	14.40	1
C.I.E.	96 99 100 100 100	D DIN 5040	A60		
F UTE	1.00 A	B NBN	BZ 1		

Diam=48mm



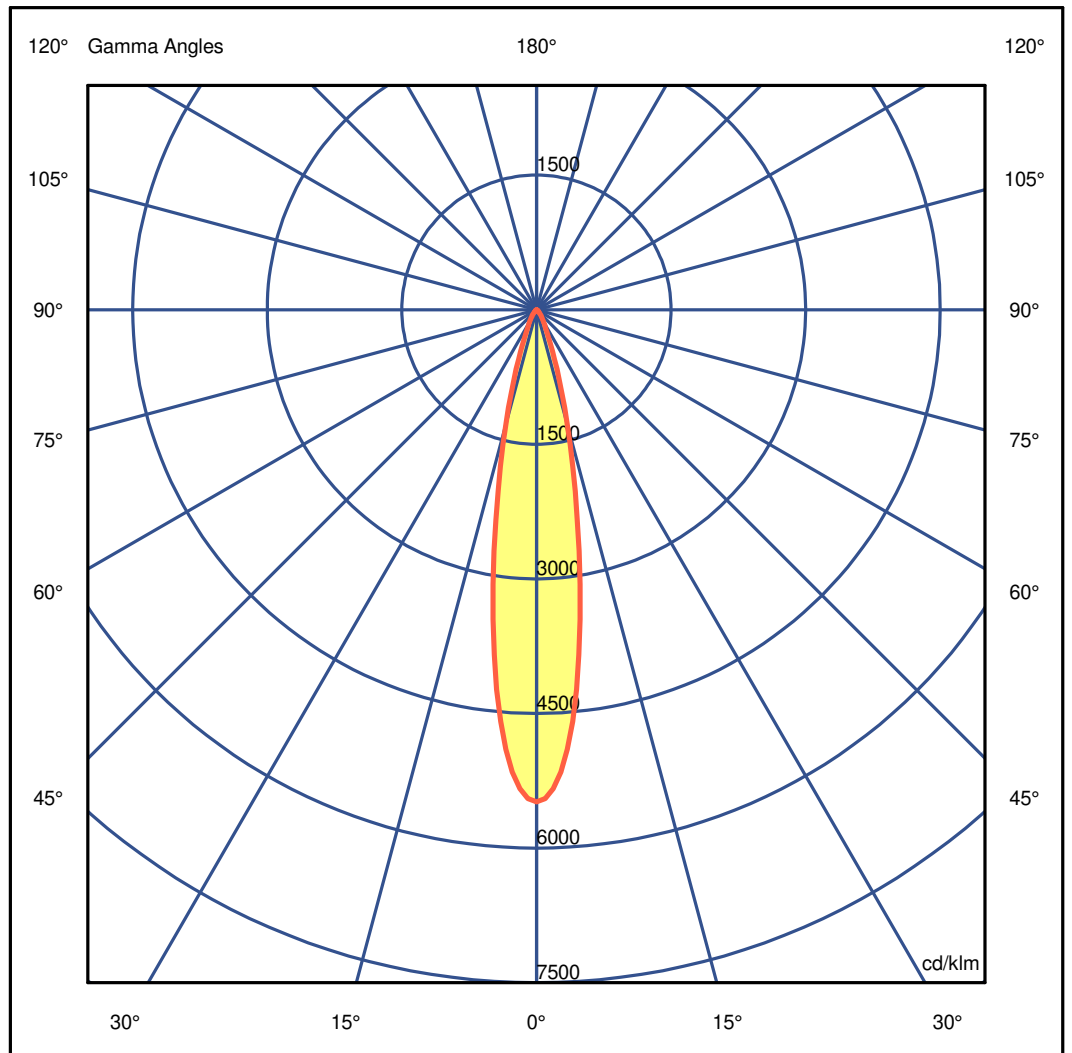
C Halfplanes

180.0 — 0.0

ULOR 0.00 %

DLOR 100.00 %

RN 0.00 %



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Luminous Intensity Table cd/klm Table 1/1

	C 0.00	C 0.00	
G 0.0	5483.05	G 46.0	30.15
G 1.0	5447.67	G 47.0	26.56
G 2.0	5339.05	G 48.0	23.63
G 3.0	5158.02	G 49.0	21.35
G 4.0	4909.38	G 50.0	19.61
G 5.0	4603.44	G 51.0	18.10
G 6.0	4252.56	G 52.0	16.62
G 7.0	3872.52	G 53.0	15.13
G 8.0	3483.03	G 54.0	13.71
G 9.0	3098.06	G 55.0	12.39
G 10.0	2727.71	G 56.0	11.21
G 11.0	2382.04	G 57.0	10.18
G 12.0	2068.03	G 58.0	9.28
G 13.0	1789.08	G 59.0	8.56
G 14.0	1542.47	G 60.0	7.96
G 15.0	1326.95	G 61.0	7.43
G 16.0	1136.63	G 62.0	6.97
G 17.0	968.19	G 63.0	6.56
G 18.0	823.03	G 64.0	6.18
G 19.0	696.78	G 65.0	5.82
G 20.0	587.11	G 66.0	5.50
G 21.0	494.41	G 67.0	5.18
G 22.0	418.91	G 68.0	4.88
G 23.0	357.83	G 69.0	4.60
G 24.0	309.07	G 70.0	4.32
G 25.0	270.25	G 71.0	4.06
G 26.0	239.16	G 72.0	3.82
G 27.0	214.05	G 73.0	3.57
G 28.0	193.20	G 74.0	3.35
G 29.0	175.69	G 75.0	3.14
G 30.0	159.21	G 76.0	2.92
G 31.0	144.00	G 77.0	2.73
G 32.0	130.24	G 78.0	2.54
G 33.0	117.72	G 79.0	2.36
G 34.0	106.13	G 80.0	2.20
G 35.0	95.75	G 81.0	2.04
G 36.0	87.77	G 82.0	1.88
G 37.0	80.58	G 83.0	1.74
G 38.0	73.90	G 84.0	1.61
G 39.0	67.64	G 85.0	1.48
G 40.0	61.66	G 86.0	1.37
G 41.0	55.87	G 87.0	1.28
G 42.0	50.19	G 88.0	1.20
G 43.0	44.63	G 89.0	1.15
G 44.0	39.25	G 90.0	1.12
G 45.0	34.38		

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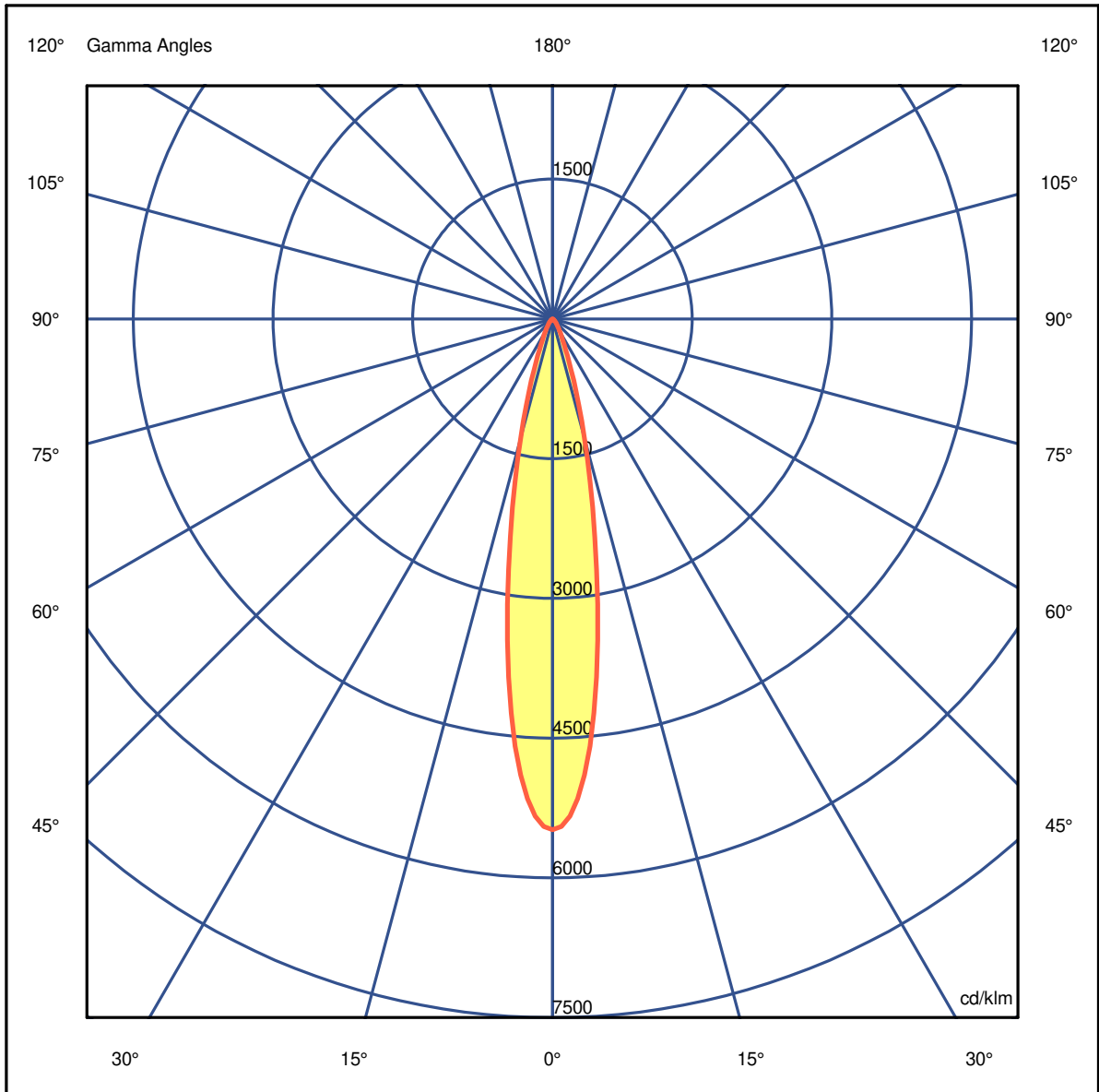
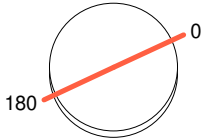
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Diam=48mm

C Halfplanes

180.0  0.0



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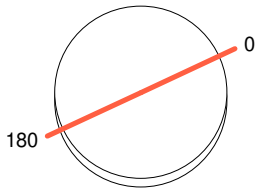
## Measurem.

Code AG59-13V9S2BBDC  
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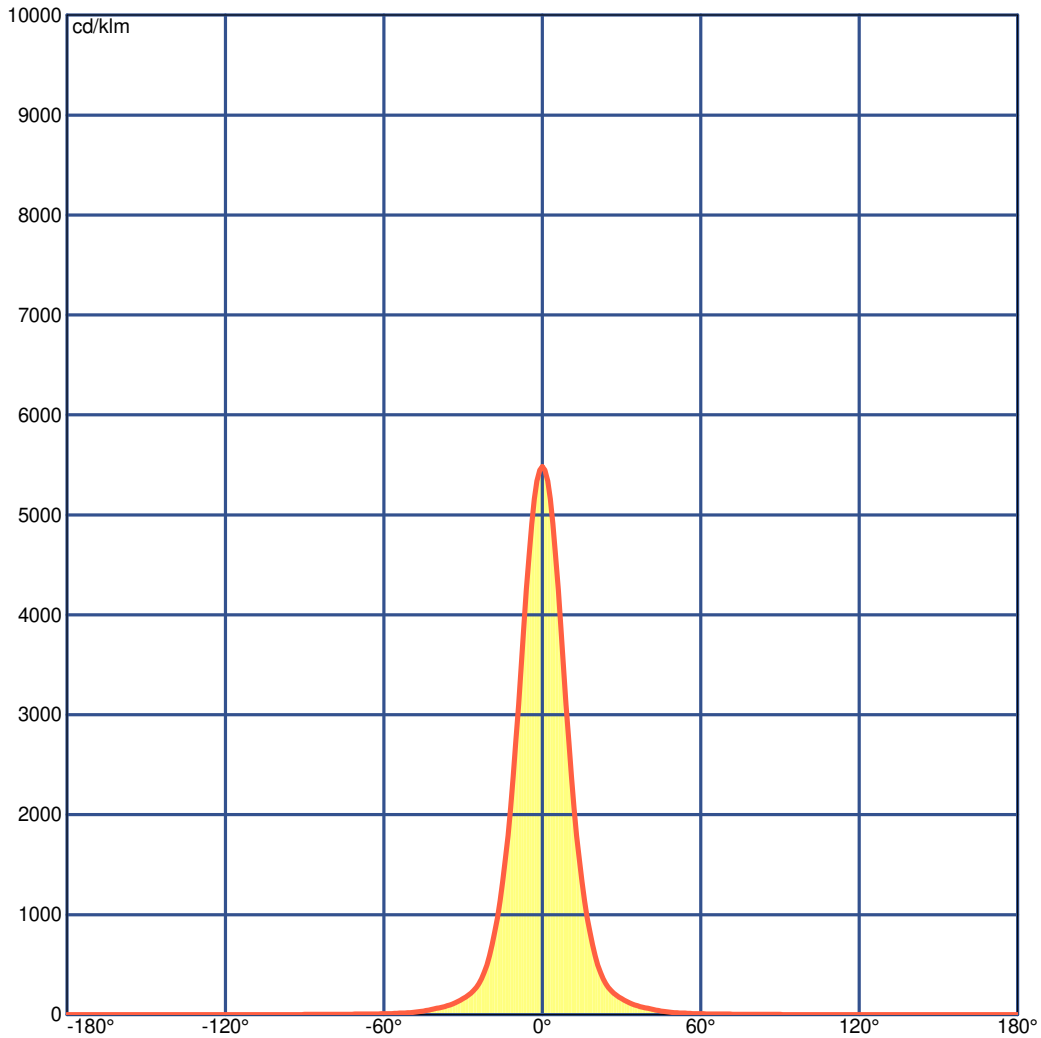
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Sources Flux	1104.22 lm	Maximum value	5483.05 cd/klm	Position	C=0.00 G=0.00	CG	Rotosymmetrical

**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	16.3	16.9	16.5	17.1	17.3	16.3	16.9	16.5	17.1	17.3
x=2H y=3H	16.5	17.1	16.8	17.3	17.6	16.5	17.1	16.8	17.3	17.6
x=2H y=4H	16.6	17.2	16.9	17.5	17.7	16.6	17.2	16.9	17.5	17.7
x=2H y=6H	16.8	17.3	17.1	17.6	17.9	16.8	17.3	17.1	17.6	17.9
x=2H y=8H	16.8	17.4	17.2	17.6	18.0	16.8	17.4	17.2	17.6	18.0
x=2H y=12H	16.9	17.4	17.3	17.7	18.0	16.9	17.4	17.3	17.7	18.0
x=4H y=2H	16.3	16.9	16.6	17.1	17.4	16.3	16.9	16.6	17.1	17.4
x=4H y=3H	16.6	17.1	17.0	17.4	17.7	16.6	17.1	17.0	17.4	17.7
x=4H y=4H	16.9	17.3	17.2	17.6	18.0	16.9	17.3	17.2	17.6	18.0
x=4H y=6H	17.1	17.5	17.5	17.8	18.2	17.1	17.5	17.5	17.8	18.2
x=4H y=8H	17.3	17.6	17.7	18.0	18.4	17.3	17.6	17.7	18.0	18.4
x=4H y=12H	17.4	17.7	17.9	18.1	18.5	17.4	17.7	17.9	18.1	18.5
x=8H y=4H	16.9	17.3	17.4	17.6	18.0	16.9	17.3	17.4	17.6	18.0
x=8H y=6H	17.3	17.5	17.7	18.0	18.4	17.3	17.5	17.7	18.0	18.4
x=8H y=8H	17.5	17.7	18.0	18.2	18.6	17.5	17.7	18.0	18.2	18.6
x=8H y=12H	17.8	17.9	18.3	18.4	18.9	17.8	17.9	18.3	18.4	18.9
x=12H y=4H	17.0	17.2	17.4	17.6	18.0	17.0	17.2	17.4	17.6	18.0
x=12H y=6H	17.3	17.5	17.8	18.0	18.4	17.3	17.5	17.8	18.0	18.4
x=12H y=8H	17.6	17.8	18.1	18.2	18.7	17.6	17.8	18.1	18.2	18.7

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Sources Flux	1104.22 lm	Maximum value	5483.05 cd/klm	Position	C=0.00 G=0.00	CG	Rotosymmetrical

Total Flux=1104.22 Luminaire Flux=1104.22

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	0.70	0.75	0.80	0.84	0.86	0.91	0.94	0.96	0.98	0.99	1.01	1.02
RC	-	-	-	-	-	-	-	-	-	-	-	-

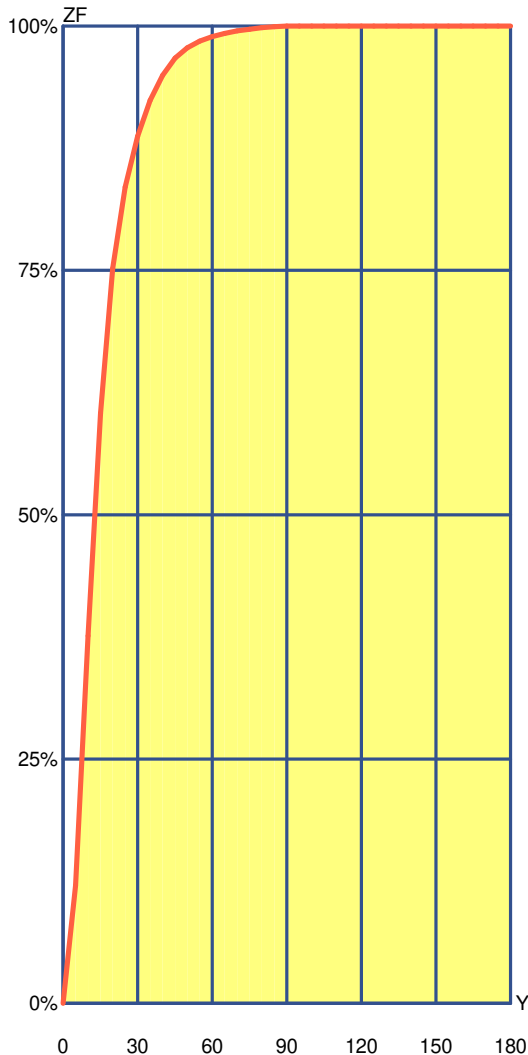
Zonal Flux per 1000 Lumen

Y°	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
ZF(Y)	376	752	887	950	978	989	995	998	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000

CIE Flux Codes

96 99 100 100 100

C.I.E.	-/-/-/-/-/-/-/-/-/-	LOR	100.00000 %
D DIN 5040	A60	ULOR	0.00000 %
F UTE	1.00 A	DLOR	100.00000 %
B NBN	BZ 1	UFF	0.00000 %
RN	0.00000 %	DFF	100.00000 %
BLF	1.0	FFR	0.00000 %



Gamma °	Zonal Flux			
	Flux	Sum lm	Flux [%]	Sum [%]
0°	0.00	0.00	0.00%	0.00%
5°	120.44	120.44	12.04%	12.04%
10°	255.67	376.11	25.57%	37.61%
15°	227.51	603.63	22.75%	60.36%
20°	148.35	751.98	14.83%	75.20%
25°	83.17	835.15	8.32%	83.51%
30°	52.12	887.26	5.21%	88.73%
35°	36.64	923.91	3.66%	92.39%
40°	25.83	949.74	2.58%	94.97%
45°	17.55	967.28	1.75%	96.73%
50°	10.36	977.65	1.04%	97.76%
55°	6.90	984.55	0.69%	98.46%
60°	4.56	989.11	0.46%	98.91%
65°	3.31	992.42	0.33%	99.24%
70°	2.55	994.97	0.26%	99.50%
75°	1.94	996.91	0.19%	99.69%
80°	1.41	998.32	0.14%	99.83%
85°	0.99	999.31	0.10%	99.93%
90°	0.69	1000.00	0.07%	100.00%
95°	0.00	1000.00	0.00%	100.00%
100°	0.00	1000.00	0.00%	100.00%
105°	0.00	1000.00	0.00%	100.00%
110°	0.00	1000.00	0.00%	100.00%
115°	0.00	1000.00	0.00%	100.00%
120°	0.00	1000.00	0.00%	100.00%
125°	0.00	1000.00	0.00%	100.00%
130°	0.00	1000.00	0.00%	100.00%
135°	0.00	1000.00	0.00%	100.00%
140°	0.00	1000.00	0.00%	100.00%
145°	0.00	1000.00	0.00%	100.00%
150°	0.00	1000.00	0.00%	100.00%
155°	0.00	1000.00	0.00%	100.00%
160°	0.00	1000.00	0.00%	100.00%
165°	0.00	1000.00	0.00%	100.00%
170°	0.00	1000.00	0.00%	100.00%
175°	0.00	1000.00	0.00%	100.00%
180°	0.00	1000.00	0.00%	100.00%



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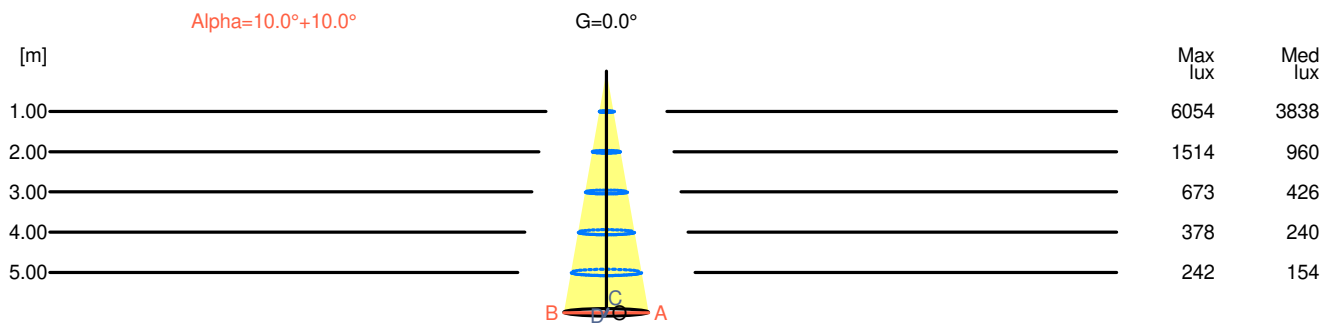
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Sources Flux	1104.22 lm	Maximum value	5483.05 cd/klm	Position	C=0.00 G=0.00	CG	Rotosymmetrical

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	0.18	0.35	0.53	0.70	0.88	OC	0.18	0.35	0.53	0.70	0.88
OB	0.18	0.35	0.53	0.70	0.88	OD	0.18	0.35	0.53	0.70	0.88

Luminous Intensities [ cd/klm]

	0	5	15	25	35	45	55	65	75	85
OA	6054.47	5083.20	1465.24	298.41	105.73	37.97	13.69	6.43	3.46	1.63
OB	6054.47	5083.20	1465.24	298.41	105.73	37.97	13.69	6.43	3.46	1.63
OC	6054.47	5083.20	1465.24	298.41	105.73	37.97	13.69	6.43	3.46	1.63
OD	6054.47	5083.20	1465.24	298.41	105.73	37.97	13.69	6.43	3.46	1.63



H[m]	D[m]	Max lux	Med lux	Alpha=10.0°+10.0°	G=0.0
1.00	0.35	6054	3838		
2.00	0.70	1514	960		
3.00	1.05	673	426		
4.00	1.41	378	240		
5.00	1.76	242	154		



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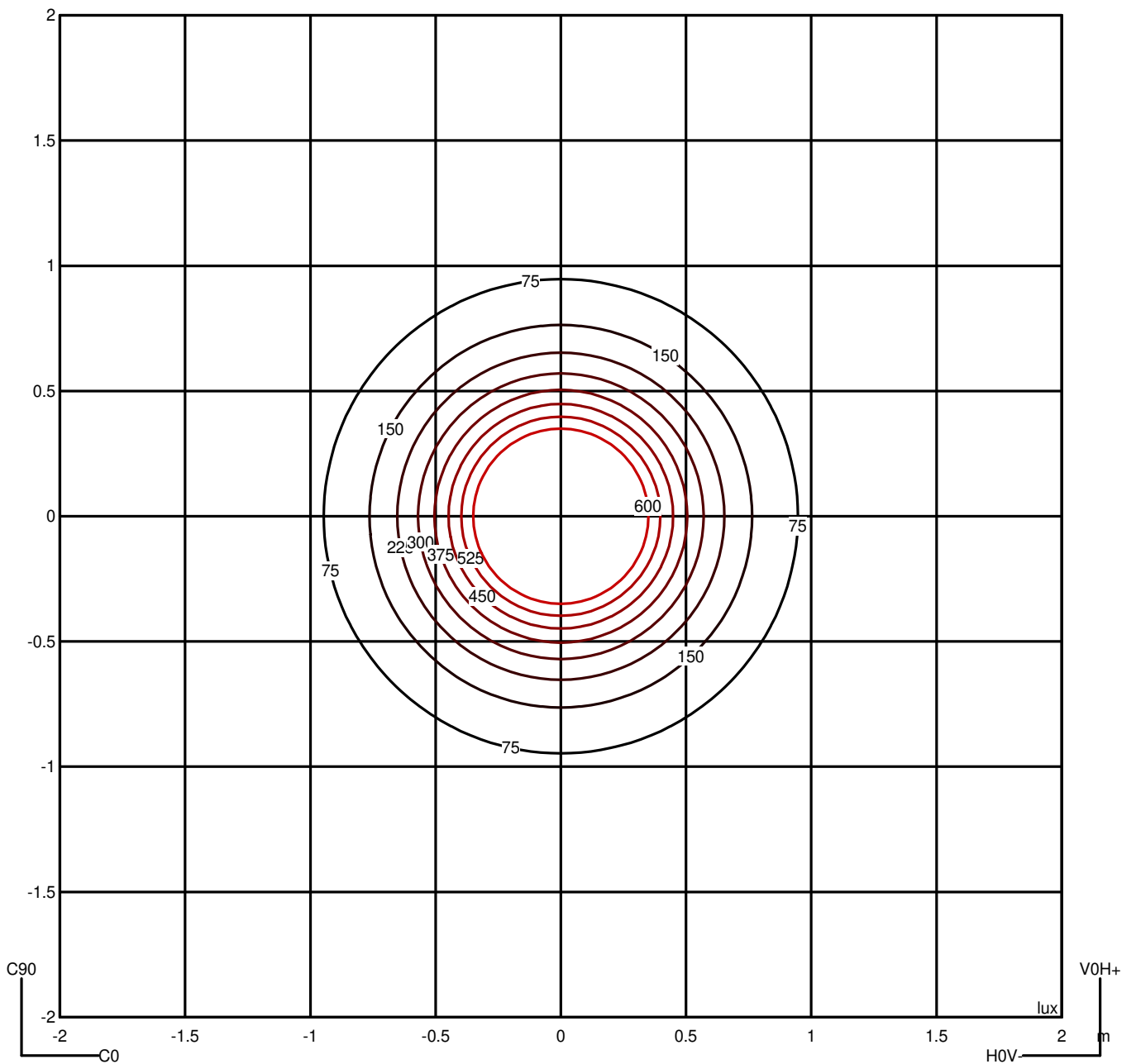
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Isolux (Floor)

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



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**Luminaire**

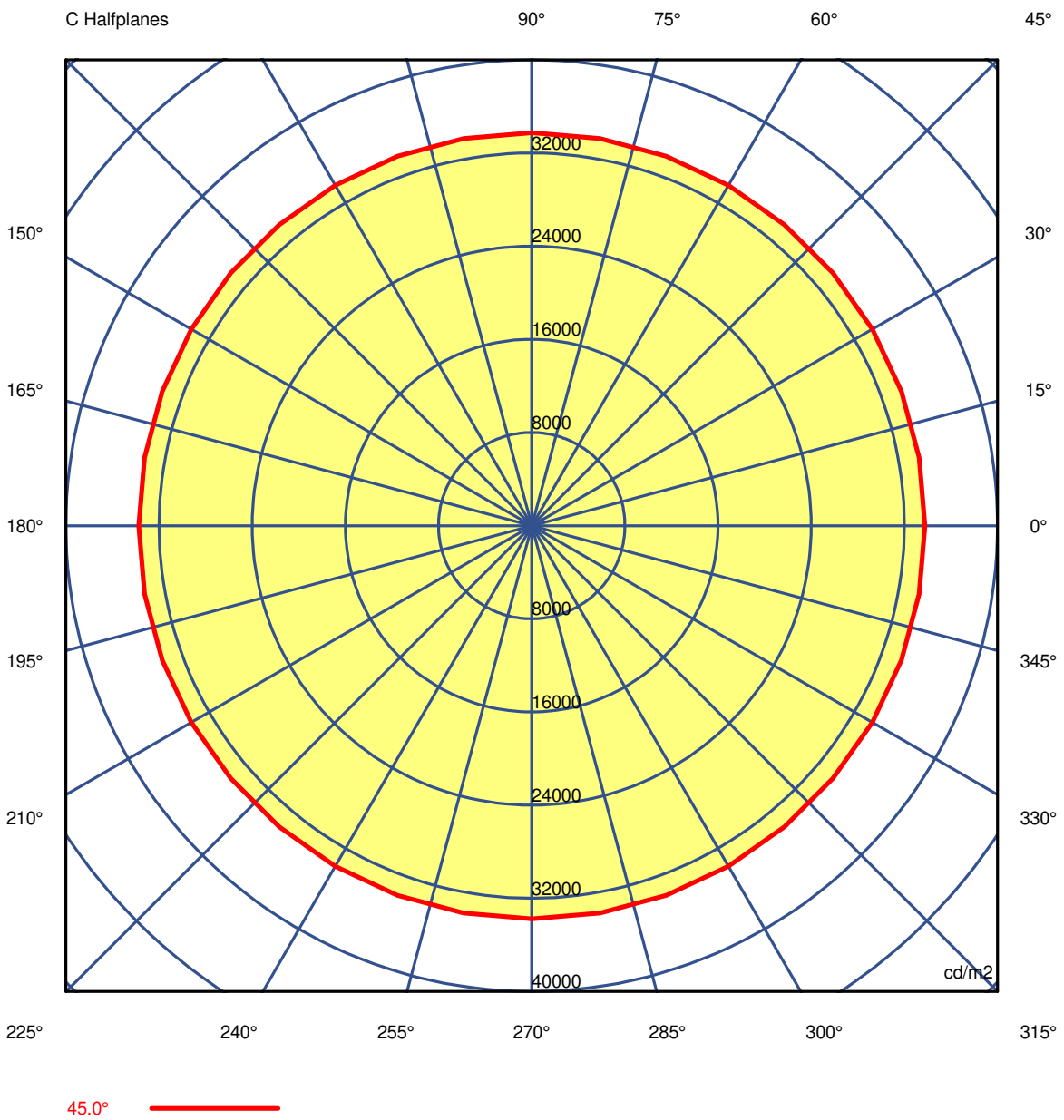
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Luminance



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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	3806812.14	3806812.14	3806812.14	3806812.14	3806812.14	3806812.14	3806812.14	3806812.14	3806812.14	3806812.14	3806812.14	3806812.14	3806812.14
G 5.0	3208324.33	3208324.33	3208324.33	3208324.33	3208324.33	3208324.33	3208324.33	3208324.33	3208324.33	3208324.33	3208324.33	3208324.33	3208324.33
G 10.0	1923029.49	1923029.49	1923029.49	1923029.49	1923029.49	1923029.49	1923029.49	1923029.49	1923029.49	1923029.49	1923029.49	1923029.49	1923029.49
G 15.0	953785.24	953785.24	953785.24	953785.24	953785.24	953785.24	953785.24	953785.24	953785.24	953785.24	953785.24	953785.24	953785.24
G 20.0	433783.55	433783.55	433783.55	433783.55	433783.55	433783.55	433783.55	433783.55	433783.55	433783.55	433783.55	433783.55	433783.55
G 25.0	207025.42	207025.42	207025.42	207025.42	207025.42	207025.42	207025.42	207025.42	207025.42	207025.42	207025.42	207025.42	207025.42
G 30.0	127639.95	127639.95	127639.95	127639.95	127639.95	127639.95	127639.95	127639.95	127639.95	127639.95	127639.95	127639.95	127639.95
G 35.0	81154.05	81154.05	81154.05	81154.05	81154.05	81154.05	81154.05	81154.05	81154.05	81154.05	81154.05	81154.05	81154.05
G 40.0	55883.53	55883.53	55883.53	55883.53	55883.53	55883.53	55883.53	55883.53	55883.53	55883.53	55883.53	55883.53	55883.53
G 45.0	33761.21	33761.21	33761.21	33761.21	33761.21	33761.21	33761.21	33761.21	33761.21	33761.21	33761.21	33761.21	33761.21
G 50.0	21180.16	21180.16	21180.16	21180.16	21180.16	21180.16	21180.16	21180.16	21180.16	21180.16	21180.16	21180.16	21180.16
G 55.0	15003.29	15003.29	15003.29	15003.29	15003.29	15003.29	15003.29	15003.29	15003.29	15003.29	15003.29	15003.29	15003.29
G 60.0	11059.41	11059.41	11059.41	11059.41	11059.41	11059.41	11059.41	11059.41	11059.41	11059.41	11059.41	11059.41	11059.41
G 65.0	9567.39	9567.39	9567.39	9567.39	9567.39	9567.39	9567.39	9567.39	9567.39	9567.39	9567.39	9567.39	9567.39
G 70.0	8775.91	8775.91	8775.91	8775.91	8775.91	8775.91	8775.91	8775.91	8775.91	8775.91	8775.91	8775.91	8775.91
G 75.0	8411.02	8411.02	8411.02	8411.02	8411.02	8411.02	8411.02	8411.02	8411.02	8411.02	8411.02	8411.02	8411.02
G 80.0	8779.39	8779.39	8779.39	8779.39	8779.39	8779.39	8779.39	8779.39	8779.39	8779.39	8779.39	8779.39	8779.39
G 85.0	11766.27	11766.27	11766.27	11766.27	11766.27	11766.27	11766.27	11766.27	11766.27	11766.27	11766.27	11766.27	11766.27
G 90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Name PLAY

## Measurement

Code AG59-13V9S2BBDC  
Name PLAY

Luminaire Flux	1104.22 lm	Luminaire Power	14.40 W	Efficacy	76.68 lm/W	Efficiency	100.00%
Sources Flux	1104.22 lm	Maximum value	5483.05 cd/klm	Position	C=0.00 G=0.00	CG	Rotosymmetrical

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	3806812.14	3806812.14	3806812.14	3806812.14	3806812.14	3806812.14	3806812.14	3806812.14	3806812.14	3806812.14	3806812.14	3806812.14	3806812.14
G 5.0	3208324.33	3208324.33	3208324.33	3208324.33	3208324.33	3208324.33	3208324.33	3208324.33	3208324.33	3208324.33	3208324.33	3208324.33	3208324.33
G 10.0	1923029.49	1923029.49	1923029.49	1923029.49	1923029.49	1923029.49	1923029.49	1923029.49	1923029.49	1923029.49	1923029.49	1923029.49	1923029.49
G 15.0	953785.24	953785.24	953785.24	953785.24	953785.24	953785.24	953785.24	953785.24	953785.24	953785.24	953785.24	953785.24	953785.24
G 20.0	433783.55	433783.55	433783.55	433783.55	433783.55	433783.55	433783.55	433783.55	433783.55	433783.55	433783.55	433783.55	433783.55
G 25.0	207025.42	207025.42	207025.42	207025.42	207025.42	207025.42	207025.42	207025.42	207025.42	207025.42	207025.42	207025.42	207025.42
G 30.0	127639.95	127639.95	127639.95	127639.95	127639.95	127639.95	127639.95	127639.95	127639.95	127639.95	127639.95	127639.95	127639.95
G 35.0	81154.05	81154.05	81154.05	81154.05	81154.05	81154.05	81154.05	81154.05	81154.05	81154.05	81154.05	81154.05	81154.05
G 40.0	55883.53	55883.53	55883.53	55883.53	55883.53	55883.53	55883.53	55883.53	55883.53	55883.53	55883.53	55883.53	55883.53
G 45.0	33761.21	33761.21	33761.21	33761.21	33761.21	33761.21	33761.21	33761.21	33761.21	33761.21	33761.21	33761.21	33761.21
G 50.0	21180.16	21180.16	21180.16	21180.16	21180.16	21180.16	21180.16	21180.16	21180.16	21180.16	21180.16	21180.16	21180.16
G 55.0	15003.29	15003.29	15003.29	15003.29	15003.29	15003.29	15003.29	15003.29	15003.29	15003.29	15003.29	15003.29	15003.29
G 60.0	11059.41	11059.41	11059.41	11059.41	11059.41	11059.41	11059.41	11059.41	11059.41	11059.41	11059.41	11059.41	11059.41
G 65.0	9567.39	9567.39	9567.39	9567.39	9567.39	9567.39	9567.39	9567.39	9567.39	9567.39	9567.39	9567.39	9567.39
G 70.0	8775.91	8775.91	8775.91	8775.91	8775.91	8775.91	8775.91	8775.91	8775.91	8775.91	8775.91	8775.91	8775.91
G 75.0	8411.02	8411.02	8411.02	8411.02	8411.02	8411.02	8411.02	8411.02	8411.02	8411.02	8411.02	8411.02	8411.02
G 80.0	8779.39	8779.39	8779.39	8779.39	8779.39	8779.39	8779.39	8779.39	8779.39	8779.39	8779.39	8779.39	8779.39
G 85.0	11766.27	11766.27	11766.27	11766.27	11766.27	11766.27	11766.27	11766.27	11766.27	11766.27	11766.27	11766.27	11766.27
G 90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

# LEDS C4<sup>®</sup>

## Luminaire

Code AG59-13V9S2BBDC  
Name PLAY

## Measurem.

Code AG59-13V9S2BBDC  
Name PLAY

Luminaire Flux	1104.22 lm	Luminaire Power	14.40 W	Efficacy	76.68 lm/W	Efficiency	100.00%
Sources Flux	1104.22 lm	Maximum value	5483.05 cd/klm	Position	C=0.00 G=0.00	CG	Rotosymmetrical

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	3806812.14	3806812.14	3806812.14	3806812.14	3806812.14	3806812.14	3806812.14	3806812.14	3806812.14	3806812.14
G 5.0	3208324.33	3208324.33	3208324.33	3208324.33	3208324.33	3208324.33	3208324.33	3208324.33	3208324.33	3208324.33
G 10.0	1923029.49	1923029.49	1923029.49	1923029.49	1923029.49	1923029.49	1923029.49	1923029.49	1923029.49	1923029.49
G 15.0	953785.24	953785.24	953785.24	953785.24	953785.24	953785.24	953785.24	953785.24	953785.24	953785.24
G 20.0	433783.55	433783.55	433783.55	433783.55	433783.55	433783.55	433783.55	433783.55	433783.55	433783.55
G 25.0	207025.42	207025.42	207025.42	207025.42	207025.42	207025.42	207025.42	207025.42	207025.42	207025.42
G 30.0	127639.95	127639.95	127639.95	127639.95	127639.95	127639.95	127639.95	127639.95	127639.95	127639.95
G 35.0	81154.05	81154.05	81154.05	81154.05	81154.05	81154.05	81154.05	81154.05	81154.05	81154.05
G 40.0	55883.53	55883.53	55883.53	55883.53	55883.53	55883.53	55883.53	55883.53	55883.53	55883.53
G 45.0	33761.21	33761.21	33761.21	33761.21	33761.21	33761.21	33761.21	33761.21	33761.21	33761.21
G 50.0	21180.16	21180.16	21180.16	21180.16	21180.16	21180.16	21180.16	21180.16	21180.16	21180.16
G 55.0	15003.29	15003.29	15003.29	15003.29	15003.29	15003.29	15003.29	15003.29	15003.29	15003.29
G 60.0	11059.41	11059.41	11059.41	11059.41	11059.41	11059.41	11059.41	11059.41	11059.41	11059.41
G 65.0	9567.39	9567.39	9567.39	9567.39	9567.39	9567.39	9567.39	9567.39	9567.39	9567.39
G 70.0	8775.91	8775.91	8775.91	8775.91	8775.91	8775.91	8775.91	8775.91	8775.91	8775.91
G 75.0	8411.02	8411.02	8411.02	8411.02	8411.02	8411.02	8411.02	8411.02	8411.02	8411.02
G 80.0	8779.39	8779.39	8779.39	8779.39	8779.39	8779.39	8779.39	8779.39	8779.39	8779.39
G 85.0	11766.27	11766.27	11766.27	11766.27	11766.27	11766.27	11766.27	11766.27	11766.27	11766.27
G 90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00