Luminaire
Code 32512xxx189
Name URBAN PF/90 LED WHITE RIBBON
Measurem.
Code CL092A22F022G
Name URBAN PF/90 LED WHITE RIBBON

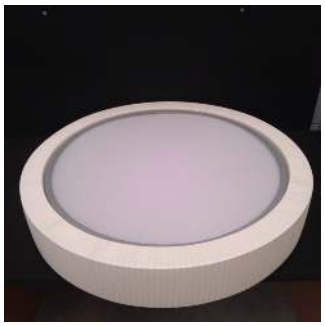
Luminaire Flux	4765.74 lm	Luminaire Power	52.89 W	Efficacy	90.10 lm/W	Efficiency	100.00%
Sources Flux	4765.74 lm	Maximum value	1574.36 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

Round Luminaire	Diam. 900 mm	Height	200 mm
Round Luminous Area	Diam. 900 mm	Height	200 mm
Horizontal Luminous Area	0.636173 m2	Emitting area on Plane 180°	0.180000 m2
Emitting area on Plane 0°	0.180000 m2	Emitting area on Plane 270°	0.180000 m2
Emitting area on Plane 90°	0.180000 m2	Glare area at 76°	0.328557 m2
Coordinate system	CG	Symmetry Type	Double Symmetrical
Date	23-09-2022	Maximum Gamma Angle	180
Measurement Distance	6.44	Measurement Flux	4765.75 lm
Operator	ASSELUM	Rated Voltage	37.77 V
Temperature	25.40 °C	Rated Current	1.40 A
Humidity	49.20 %	Photocell	Czibula Grundmann
Notes	RM22071402.5		

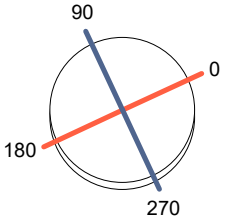
Luminaire Sources

Line	Code	Name	Flux [lm]	Pow. [W]	Q.ty
	LED	LED	4765.74	52.89	1

C.I.E.	47 78 95 93 100	D DIN 5040	A31
F UTE	0.93 E + 0.07 T	B NBN	BZ 5



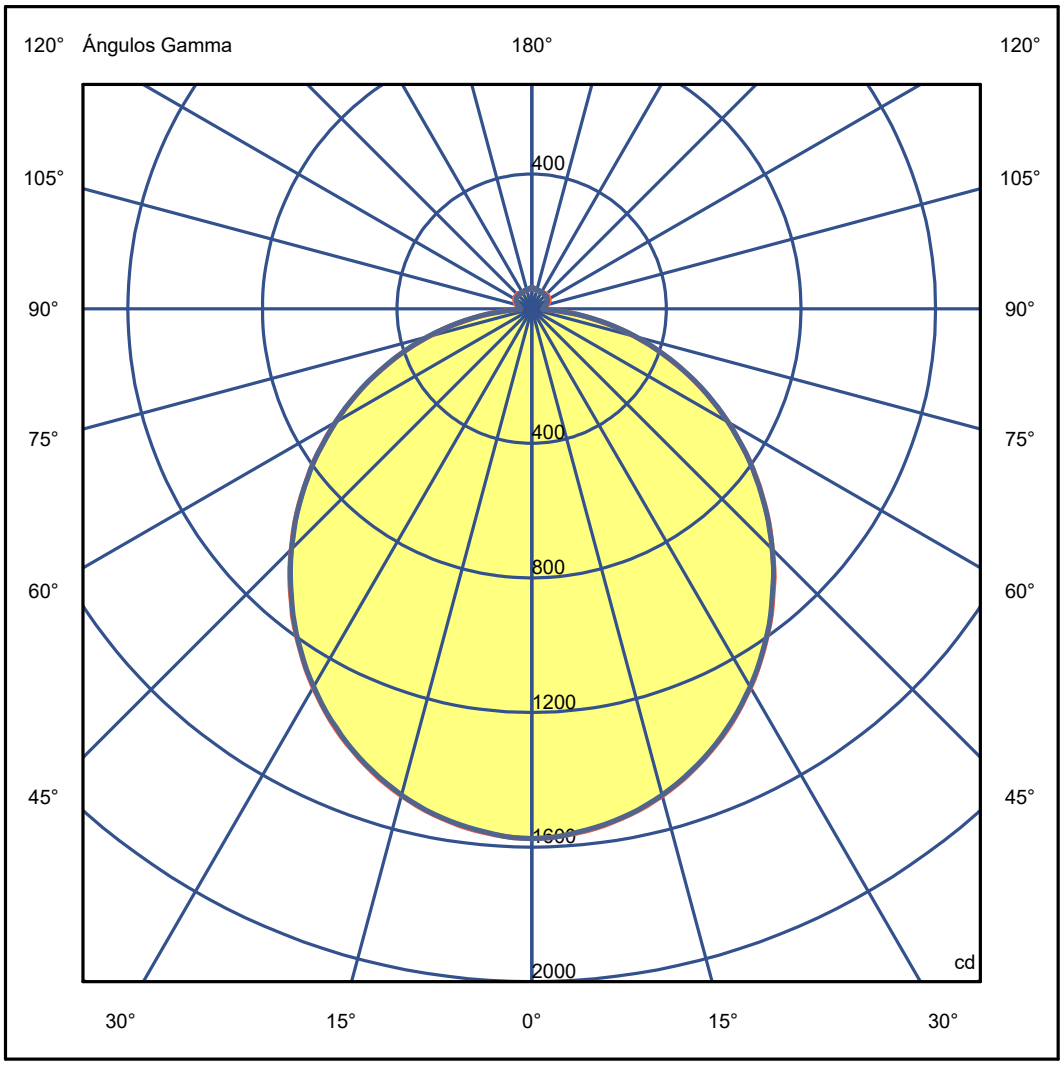
Diam=900mm



Semiplanos C

180.0 — 0.0
270.0 — 90.0

ULOR 6.72 %
DLOR 93.28 %
RN 6.72 %



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Luminaire Flux	4765.74 lm	Luminaire Power	52.89 W	Efficacy	90.10 lm/W	Efficiency	100.00%
Sources Flux	4765.74 lm	Maximum value	1574.36 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

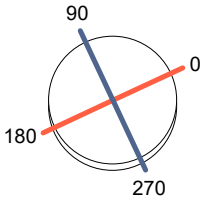
Luminous Intensity Table cd **Table 1/1**

	C 0.00	C 15.00	C 30.00	C 45.00	C 60.00	C 75.00	C 90.00
G 0.0	1574.36	1574.36	1574.36	1574.36	1574.36	1574.36	1574.36
G 2.5	1571.31	1571.58	1571.70	1571.63	1571.35	1571.03	1570.88
G 5.0	1563.54	1563.91	1563.99	1563.65	1562.87	1562.02	1561.63
G 7.5	1552.65	1552.65	1552.32	1551.78	1551.17	1550.67	1550.47
G 10.0	1537.79	1537.88	1537.68	1537.25	1536.66	1536.13	1535.90
G 12.5	1520.02	1520.11	1519.79	1519.22	1518.56	1518.02	1517.79
G 15.0	1497.78	1498.05	1497.96	1497.47	1496.62	1495.78	1495.40
G 17.5	1473.16	1473.18	1472.82	1472.13	1471.22	1470.41	1470.06
G 20.0	1443.78	1444.02	1443.81	1443.24	1442.42	1441.65	1441.32
G 22.5	1411.79	1412.13	1412.14	1411.72	1410.88	1410.02	1409.62
G 25.0	1377.82	1377.86	1377.34	1376.49	1375.50	1374.69	1374.35
G 27.5	1339.30	1339.61	1339.53	1339.06	1338.28	1337.51	1337.17
G 30.0	1299.02	1299.11	1298.81	1298.26	1297.58	1297.00	1296.75
G 32.5	1256.94	1256.90	1256.42	1255.75	1255.13	1254.69	1254.53
G 35.0	1210.64	1210.96	1211.03	1210.71	1209.96	1209.15	1208.77
G 37.5	1165.21	1164.92	1164.25	1163.53	1163.03	1162.76	1162.68
G 40.0	1114.04	1114.58	1114.81	1114.50	1113.57	1112.53	1112.03
G 42.5	1065.38	1065.04	1064.23	1063.38	1062.87	1062.65	1062.61
G 45.0	1010.89	1011.32	1011.48	1011.31	1010.81	1010.25	1009.98
G 47.5	958.01	958.48	958.31	957.76	957.07	956.49	956.25
G 50.0	902.78	902.80	902.42	902.01	901.85	901.88	901.92
G 52.5	846.56	847.35	847.53	847.18	846.45	845.71	845.37
G 55.0	790.91	790.92	790.45	789.91	789.60	789.50	789.50
G 57.5	731.37	732.34	732.77	732.62	731.93	731.14	730.76
G 60.0	674.62	674.71	674.30	673.82	673.59	673.57	673.59
G 62.5	614.34	614.83	614.81	614.70	614.82	615.05	615.18
G 65.0	555.31	555.67	555.62	555.69	556.22	556.90	557.24
G 67.5	494.81	495.75	496.21	496.40	496.51	496.57	496.60
G 70.0	435.34	436.66	437.29	437.50	437.54	437.51	437.48
G 72.5	377.35	377.90	377.86	377.72	377.82	378.05	378.17
G 75.0	316.45	318.02	318.99	319.53	319.82	319.93	319.95
G 77.5	259.57	260.85	261.32	261.16	260.63	260.03	259.76
G 80.0	199.76	201.31	202.26	202.87	203.36	203.69	203.82
G 82.5	145.47	146.91	147.22	146.92	146.47	146.07	145.91
G 85.0	88.81	90.55	91.71	92.20	92.06	91.64	91.40
G 87.5	43.25	48.16	52.80	54.47	51.59	46.97	44.55
G 90.0	32.94	34.06	35.03	35.35	34.48	33.16	32.49
G 92.5	34.73	34.55	34.41	34.37	34.12	33.89	33.86
G 95.0	37.33	37.01	36.51	36.06	35.84	35.79	35.80
G 97.5	40.61	39.88	39.05	38.35	38.02	37.97	38.09
G100.0	43.49	42.41	41.29	40.45	40.08	40.08	40.14
G102.5	45.67	44.53	43.26	42.27	41.83	41.77	41.81
G105.0	47.35	46.30	44.95	43.78	43.16	42.97	42.97
G107.5	48.72	47.73	46.63	45.60	44.87	44.44	44.38
G110.0	51.76	50.66	49.41	48.17	47.23	46.60	46.46
G112.5	53.89	52.93	51.69	50.46	49.48	48.84	48.62
G115.0	55.84	54.92	53.68	52.41	51.38	50.71	50.47
G117.5	57.42	56.39	55.20	54.01	53.02	52.38	52.15
G120.0	58.47	57.55	56.35	55.13	54.13	53.46	53.21
G122.5	59.20	58.35	57.29	56.20	55.26	54.61	54.36
G125.0	59.94	58.94	57.86	56.84	55.98	55.42	55.22
G127.5	60.37	59.39	58.35	57.38	56.59	56.09	55.91
G130.0	60.50	59.57	58.57	57.65	56.96	56.49	56.31
G132.5	60.51	59.67	58.78	57.98	57.41	57.02	56.89
G135.0	60.17	59.50	58.74	58.07	57.64	57.39	57.32
G137.5	60.02	59.45	58.79	58.17	57.70	57.41	57.31
G140.0	59.43	59.02	58.59	58.18	57.81	57.55	57.45
G142.5	58.85	58.70	58.50	58.17	57.68	57.22	57.01
G145.0	58.30	58.11	57.85	57.59	57.38	57.24	57.19
G147.5	58.24	58.03	57.84	57.70	57.61	57.56	57.55
G150.0	57.44	57.46	57.46	57.37	57.15	56.91	56.79
G152.5	56.93	56.78	56.67	56.67	56.84	57.06	57.17
G155.0	56.60	56.90	57.30	57.57	57.43	57.13	56.96
G157.5	56.77	56.78	56.80	56.92	57.24	57.59	57.76
G160.0	57.55	57.52	57.53	57.67	57.98	58.32	58.48
G162.5	57.04	56.93	56.74	56.79	57.28	57.89	58.19
G165.0	57.16	57.17	57.17	57.27	57.56	57.87	58.02
G167.5	58.04	57.86	57.68	57.70	58.18	58.73	59.00
G170.0	58.84	58.76	58.59	58.63	59.05	59.58	59.85
G172.5	58.66	58.74	58.80	58.94	59.21	59.49	59.61
G175.0	59.61	59.57	59.61	59.76	60.04	60.33	60.46
G177.5	63.27	62.57	61.97	61.79	62.39	63.25	63.69
G180.0	63.51	63.51	63.51	63.51	63.51	63.51	63.51

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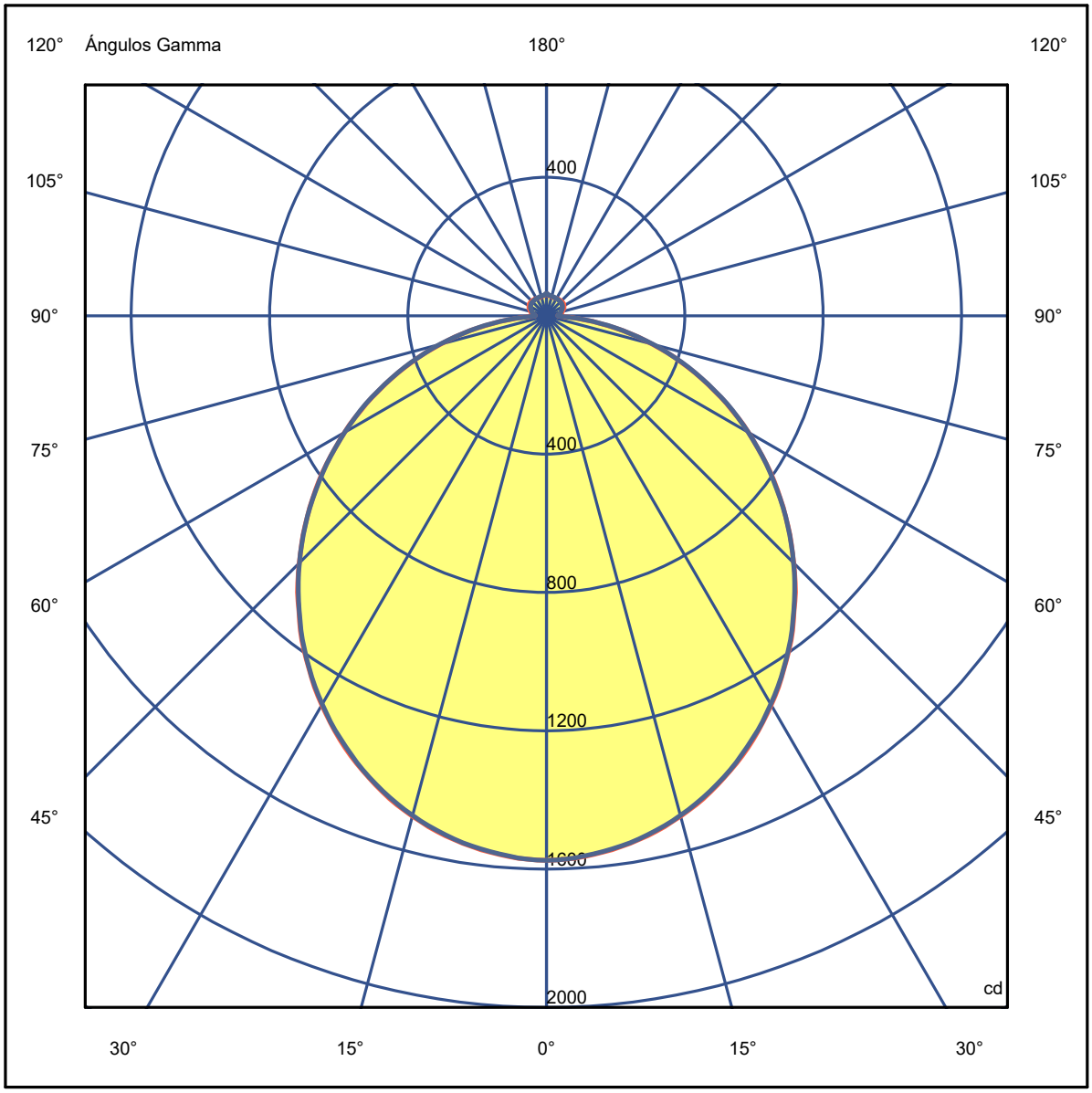
Luminaire Flux	4765.74 lm	Luminaire Power	52.89 W	Efficacy	90.10 lm/W	Efficiency	100.00%
Sources Flux	4765.74 lm	Maximum value	1574.36 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

Diam=900mm



Semiplanos C

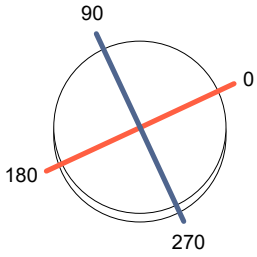
180.0 0.0
270.0 90.0



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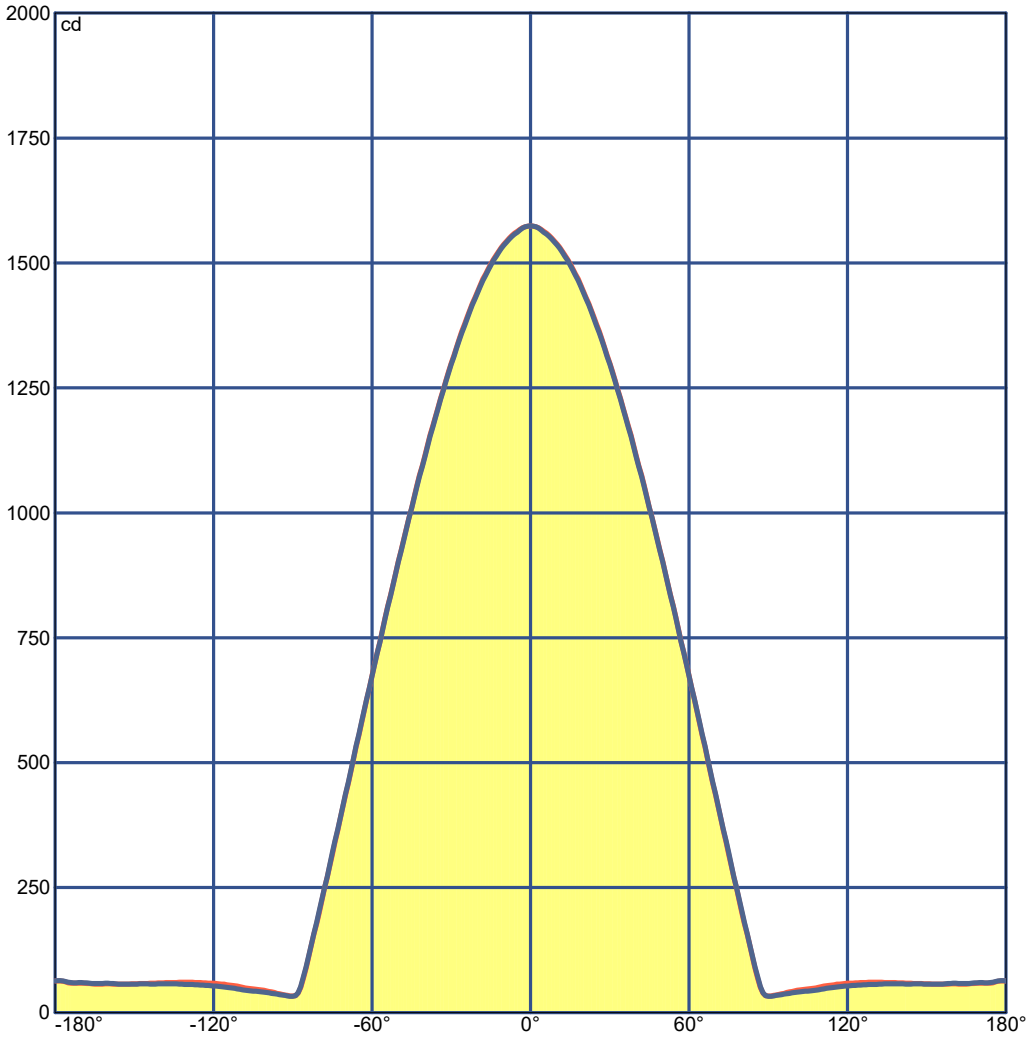
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Sources Flux	4765.74 lm	Maximum value	1574.36 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

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
Working Plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room Dimensions	Lateral View					Viewed Endwise				
x=2H y=2H	13.7	15.0	14.1	15.3	15.7	13.7	15.0	14.1	15.3	15.7
x=2H y=3H	15.1	16.2	15.5	16.6	17.0	15.1	16.2	15.5	16.6	17.0
x=2H y=4H	15.6	16.7	16.0	17.1	17.5	15.6	16.7	16.1	17.1	17.5
x=2H y=6H	16.0	16.9	16.4	17.4	17.8	16.0	17.0	16.4	17.4	17.8
x=2H y=8H	16.1	17.0	16.5	17.4	17.9	16.1	17.0	16.5	17.5	17.9
x=2H y=12H	16.1	17.0	16.6	17.4	17.9	16.1	17.0	16.6	17.4	17.9
x=4H y=2H	14.3	15.4	14.7	15.8	16.2	14.3	15.3	14.7	15.8	16.2
x=4H y=3H	15.9	16.8	16.3	17.2	17.7	15.9	16.8	16.3	17.2	17.7
x=4H y=4H	16.5	17.3	17.0	17.8	18.3	16.5	17.3	17.0	17.8	18.3
x=4H y=6H	17.0	17.7	17.5	18.2	18.7	17.0	17.7	17.5	18.2	18.7
x=4H y=8H	17.1	17.7	17.6	18.3	18.8	17.1	17.8	17.6	18.3	18.8
x=4H y=12H	17.2	17.8	17.7	18.3	18.9	17.2	17.8	17.7	18.3	18.9
x=8H y=4H	16.8	17.4	17.3	17.9	18.5	16.8	17.4	17.3	17.9	18.5
x=8H y=6H	17.3	17.8	17.9	18.4	19.0	17.3	17.9	17.9	18.4	19.0
x=8H y=8H	17.5	18.0	18.1	18.5	19.2	17.5	18.0	18.1	18.5	19.2
x=8H y=12H	17.6	18.0	18.2	18.6	19.2	17.6	18.0	18.2	18.6	19.3
x=12H y=4H	17.1	17.7	17.7	18.2	18.8	17.1	17.7	17.7	18.2	18.8
x=12H y=6H	17.6	18.1	18.2	18.7	19.3	17.6	18.1	18.2	18.7	19.3
x=12H y=8H	17.8	18.2	18.4	18.8	19.5	17.8	18.2	18.4	18.8	19.5

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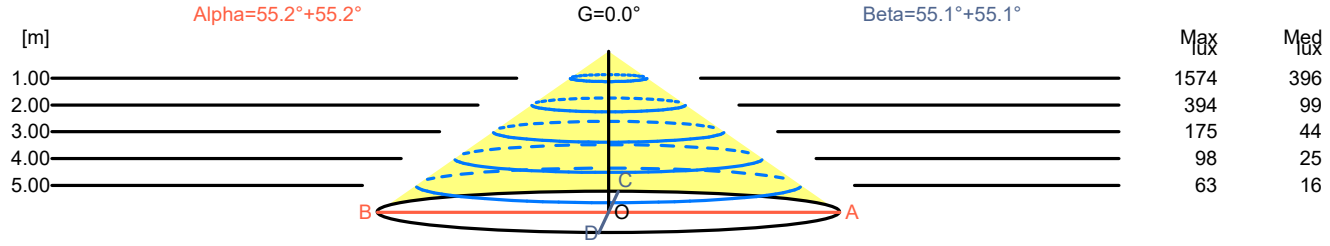
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Width at 50.00 % of Max Intensity

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	1.44	2.87	4.31	5.75	7.18	OC	1.43	2.87	4.30	5.73	7.17
OB	1.44	2.87	4.31	5.75	7.18	OD	1.43	2.87	4.30	5.73	7.17

Luminous Intensities [cd]

	0	5	15	25	35	45	55	65	75	85
OA	1574.36	1563.54	1497.78	1377.82	1210.64	1010.89	790.91	555.31	316.45	88.81
OB	1574.36	1563.54	1497.78	1377.82	1210.64	1010.89	790.91	555.31	316.45	88.81
OC	1574.36	1561.63	1495.40	1374.35	1208.77	1009.98	789.50	557.24	319.95	91.40
OD	1574.36	1561.63	1495.40	1374.35	1208.77	1009.98	789.50	557.24	319.95	91.40



H[m]	D[m]	Max lux	Med lux	Alpha=55.2°+55.2° G=0.0
1.00	2.87	1574	396	
2.00	5.75	394	99	
3.00	8.62	175	44	
4.00	11.49	98	25	
5.00	14.37	63	16	

H[m]	D[m]	Max lux	Med lux	Beta=55.1°+55.1° G=0.0
1.00	2.87	1574	396	
2.00	5.73	394	99	
3.00	8.60	175	44	
4.00	11.47	98	25	
5.00	14.33	63	16	

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Flujo Total=4765.74 Flujo Luminaria=4765.74

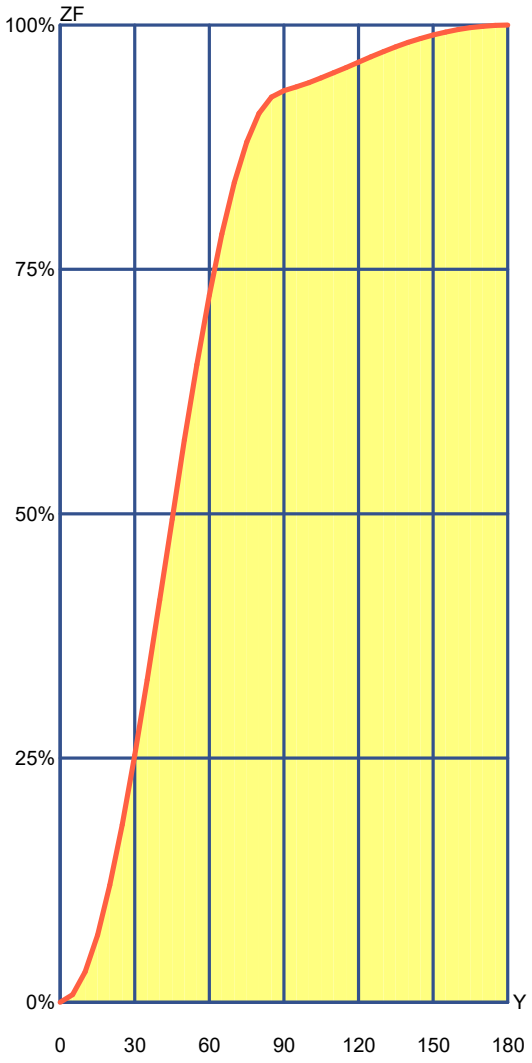
RI	0.60	0.80	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	10.00	20.00
DRR	0.30	0.39	0.46	0.53	0.59	0.67	0.73	0.77	0.82	0.85	0.92	0.96
RC	5	5	5	5	5	5	5	5	5	5	5	5

Flujo Zonal por 1000 Lúmenes

Y°	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
ZF(Y)	31	120	253	412	575	724	839	910	933	941	951	962	973	982	990	995	999	1000

Códigos de Flujo C.I.E.
47 78 95 93 100

C.I.E.	5	LOR	100.00000 %
D DIN 5040	A31	ULOR	6.71843 %
F UTE	0.93 E + 0.07 T	DLOR	93.28157 %
B NBN	BZ 5	UFF	6.71843 %
RN	6.71843 %	DFF	93.28157 %
BLF	1.0	FFR	7.20231 %



Flujo Zonal				
Gamma °	Flujo	Suma lm	Flujo [%]	Suma [%]
0°	0.00	0.00	0.00%	0.00 %
5°	7.87	7.87	0.79 %	0.79 %
10°	23.27	31.14	2.33 %	3.11 %
15°	37.77	68.90	3.78 %	6.89 %
20°	50.84	119.75	5.08 %	11.97 %
25°	62.04	181.79	6.20 %	18.18 %
30°	71.01	252.80	7.10 %	25.28 %
35°	77.51	330.31	7.75 %	33.03 %
40°	81.37	411.69	8.14 %	41.17 %
45°	82.55	494.24	8.26 %	49.42 %
50°	81.11	575.35	8.11 %	57.54 %
55°	77.19	652.54	7.72 %	65.25 %
60°	70.97	723.51	7.10 %	72.35 %
65°	62.70	786.21	6.27 %	78.62 %
70°	52.72	838.93	5.27 %	83.89 %
75°	41.44	880.37	4.14 %	88.04 %
80°	29.26	909.63	2.93 %	90.96 %
85°	16.73	926.36	1.67 %	92.64 %
90°	6.46	932.82	0.65 %	93.28 %
95°	3.99	936.81	0.40 %	93.68 %
100°	4.41	941.22	0.44 %	94.12 %
105°	4.81	946.03	0.48 %	94.60 %
110°	5.07	951.10	0.51 %	95.11 %
115°	5.39	956.48	0.54 %	95.65 %
120°	5.53	962.01	0.55 %	96.20 %
125°	5.46	967.47	0.55 %	96.75 %
130°	5.25	972.73	0.53 %	97.27 %
135°	4.94	977.66	0.49 %	97.77 %
140°	4.53	982.20	0.45 %	98.22 %
145°	4.06	986.26	0.41 %	98.63 %
150°	3.56	989.82	0.36 %	98.98 %
155°	3.03	992.85	0.30 %	99.28 %
160°	2.52	995.37	0.25 %	99.54 %
165°	1.99	997.35	0.20 %	99.74 %
170°	1.45	998.80	0.14 %	99.88 %
175°	0.89	999.69	0.09 %	99.97 %
180°	0.31	1000.00	0.03 %	100.00 %

Luminaire
Code 32512xxx189
Name URBAN PF/90 LED WHITE RIBBON
Measurem.
Code CL092A22F022G
Name URBAN PF/90 LED WHITE RIBBON

Luminaire Flux	4765.74 lm	Luminaire Power	52.89 W	Efficacy	90.10 lm/W	Efficiency	100.00%
Sources Flux	4765.74 lm	Maximum value	1574.36 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

Isolux (Floor)

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

