

Luminaire

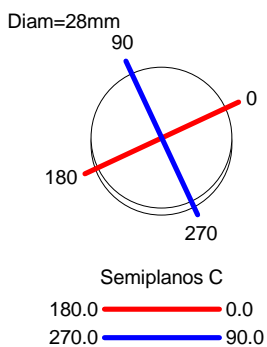
Code A622-002+DIF
Name LEDTUBE

Measurem.

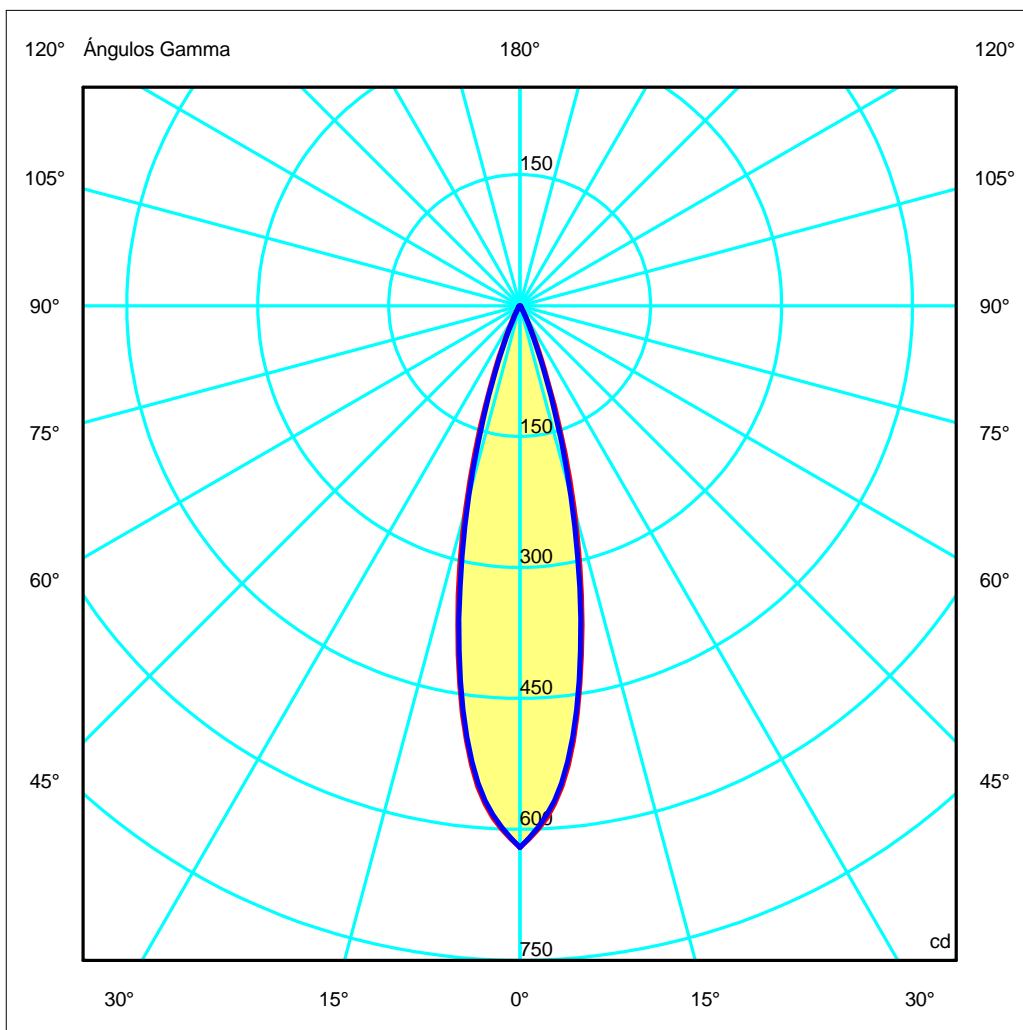
Code CL041A17F005G
Name LEDTUBE

Luminaire Flux	131.25 lm	Luminaire Power	4.14 W	Efficacy	31.70 lm/W	Efficiency	100.00%
Lamps Flux	131.25 lm	Maximum value	620.43 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical
Round Luminaire Round Luminous Area	Diam. 28 mm Diam. 20 mm	Height 110 mm Height 0 mm					
Horizontal Luminous Area Emitting area on Plane 0° Emitting area on Plane 90°	0.000314 m2 0.000000 m2 0.000000 m2	Emitting area on Plane 180° Emitting area on Plane 270° Glare area at 76°	0.000000 m2 0.000000 m2 0.000076 m2				
Coordinate system Date Measurement Distance	CG 27-09-2017 6.44	Symmetry Type Maximum Gamma Angle Measurement Flux	Double Symmetrical 90 131.25 lm				
Operator Temperature Humidity Notes	Asselum T2 24.70 °C 53.00 % RM170920001	Source Voltage [V] Source current [A] Photocell	230.00 V 0.04 A Prc				

Line		Code LED	Luminaire Lamps Name LED		Flux [lm] 131.25	Pow. [W] 4.14	Q.ty 1
C.I.E.	98 99 100 100 100		D DIN 5040 B NBN		A60 BZ 1		
F UTE	--						



ULOR 0.00 %
DLOR100.00 %
RN 0.00 %



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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	620.43	620.43	620.43	620.43	620.43	620.43	620.43
G 5.0	553.11	542.84	547.74	543.27	546.65	542.36	548.82
G 10.0	406.29	403.75	405.71	401.83	401.70	397.51	400.60
G 15.0	239.56	232.49	235.83	221.02	218.97	220.34	225.82
G 20.0	98.46	87.69	90.54	80.74	81.35	78.80	87.55
G 25.0	30.73	26.09	26.38	22.03	23.31	21.65	23.41
G 30.0	9.93	7.20	7.51	6.22	6.34	6.56	6.92
G 35.0	3.53	3.26	3.20	2.91	3.08	2.89	3.00
G 40.0	1.99	1.73	1.69	1.59	1.67	1.63	1.66
G 45.0	1.12	1.04	0.98	0.94	1.03	0.96	0.95
G 50.0	0.76	0.68	0.66	0.65	0.70	0.66	0.67
G 55.0	0.58	0.55	0.52	0.53	0.56	0.54	0.55
G 60.0	0.49	0.47	0.46	0.46	0.46	0.46	0.46
G 65.0	0.45	0.43	0.43	0.42	0.44	0.42	0.42
G 70.0	0.40	0.41	0.41	0.41	0.41	0.42	0.42
G 75.0	0.40	0.40	0.39	0.40	0.41	0.39	0.42
G 80.0	0.40	0.39	0.37	0.39	0.41	0.39	0.40
G 85.0	0.34	0.34	0.34	0.33	0.35	0.34	0.35
G 90.0	0.24	0.24	0.25	0.24	0.25	0.24	0.26

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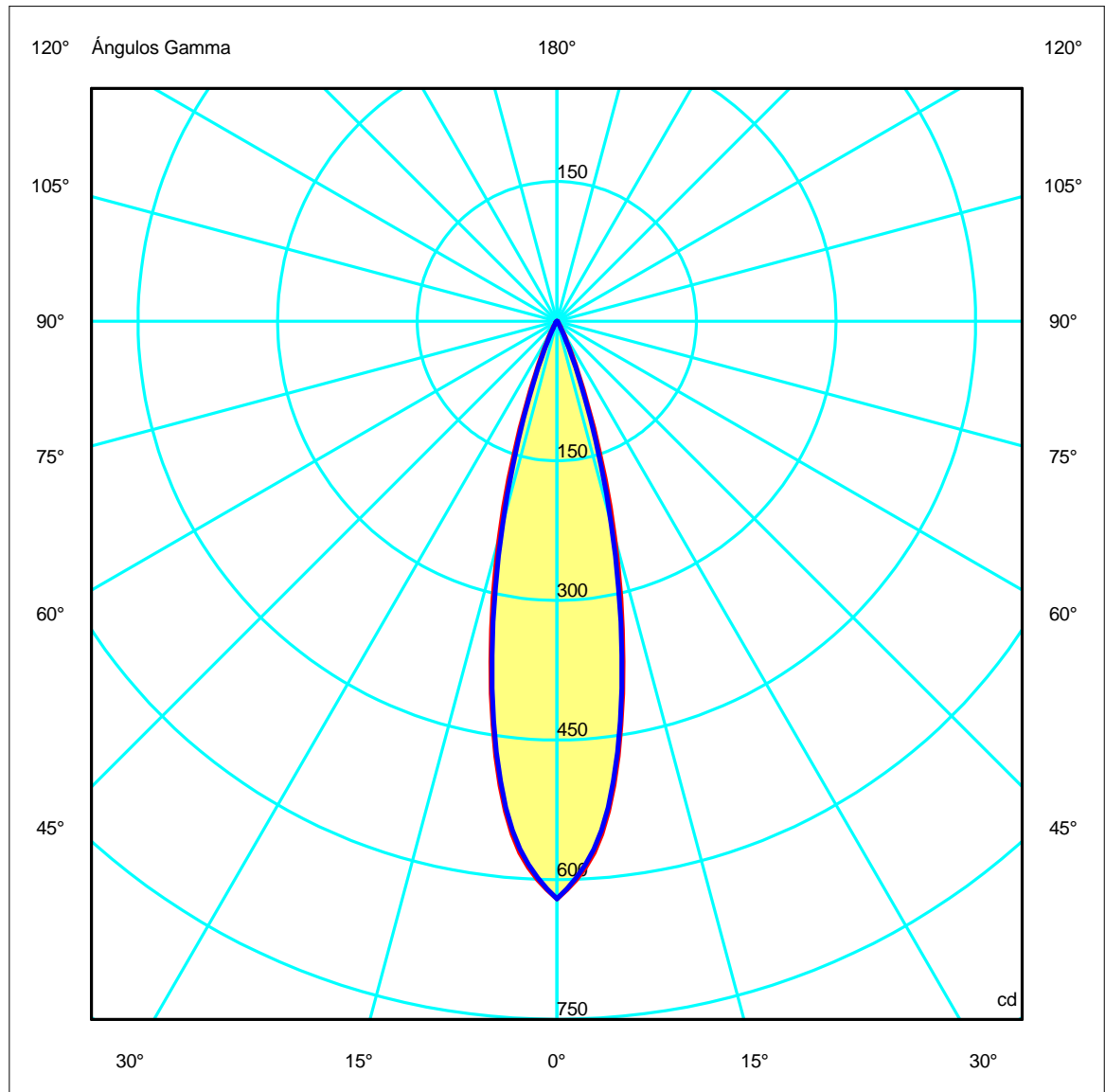
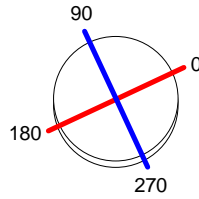
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Diam=28mm

Semiplanos C

180.0 ——— 0.0

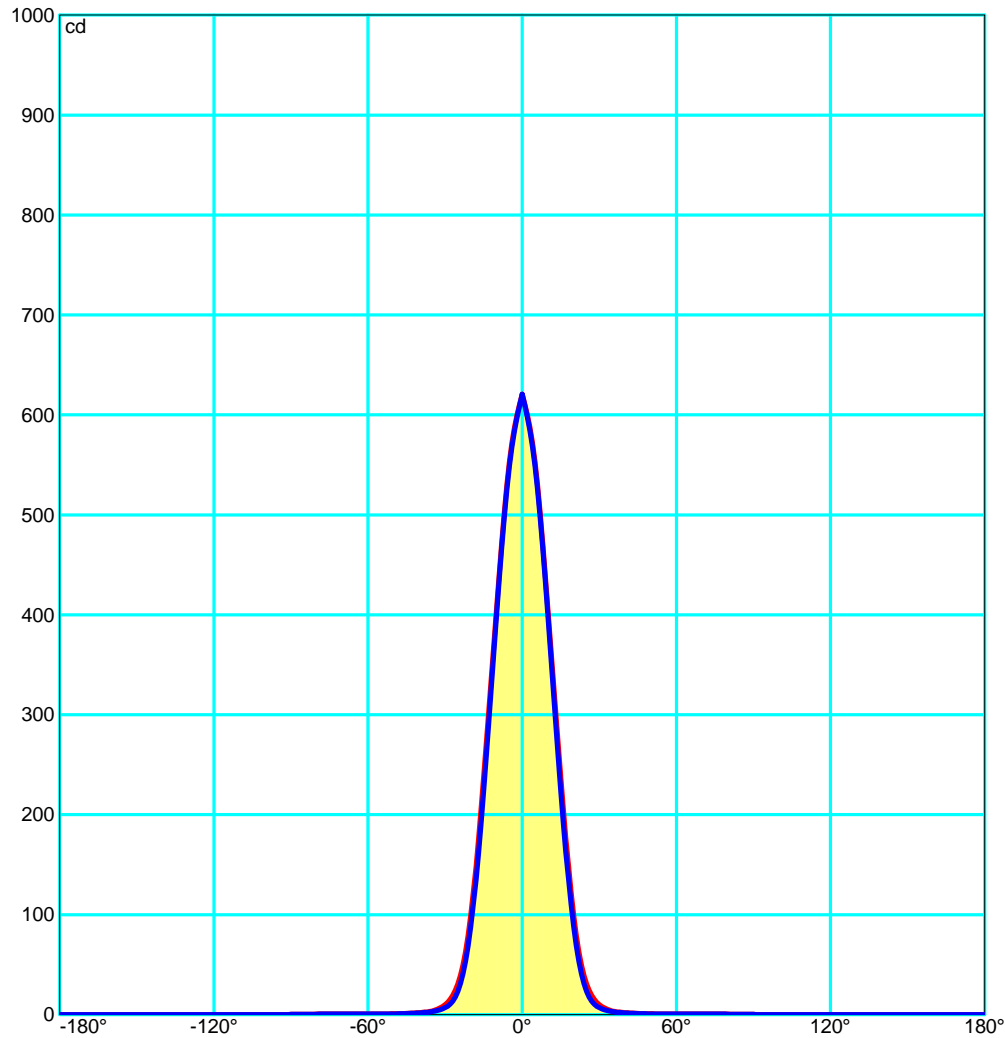
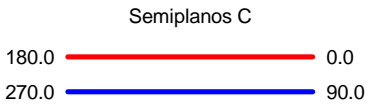
270.0 ——— 90.0



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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	ViewedCrosswise					ViewedEndwise				
x=2H y=2H	5.8	6.5	6.0	6.6	6.8	5.5	6.2	5.8	6.4	6.6
x=2H y=3H	7.3	7.9	7.6	8.1	8.4	7.2	7.8	7.4	8.0	8.2
x=2H y=4H	8.5	9.1	8.8	9.3	9.6	8.4	9.0	8.7	9.2	9.5
x=2H y=6H	10.1	10.6	10.4	10.9	11.2	10.0	10.5	10.3	10.8	11.1
x=2H y=8H	11.0	11.5	11.4	11.8	12.1	11.0	11.5	11.3	11.7	12.1
x=2H y=12H	12.0	12.5	12.4	12.8	13.1	12.0	12.5	12.4	12.8	13.1
x=4H y=2H	6.3	6.8	6.6	7.1	7.3	6.1	6.6	6.4	6.9	7.1
x=4H y=3H	8.2	8.7	8.6	9.0	9.3	8.1	8.6	8.5	8.9	9.2
x=4H y=4H	9.7	10.1	10.0	10.4	10.7	9.6	10.0	10.0	10.3	10.7
x=4H y=6H	11.5	11.9	11.9	12.2	12.6	11.5	11.8	11.9	12.2	12.6
x=4H y=8H	12.6	12.9	13.0	13.3	13.7	12.6	12.9	13.0	13.3	13.7
x=4H y=12H	13.8	14.0	14.2	14.4	14.8	13.8	14.0	14.2	14.4	14.8
x=8H y=4H	10.4	10.7	10.8	11.1	11.5	10.4	10.7	10.8	11.0	11.4
x=8H y=6H	12.5	12.7	12.9	13.1	13.6	12.6	12.8	13.0	13.2	13.7
x=8H y=8H	13.7	13.9	14.2	14.4	14.8	13.8	14.0	14.3	14.5	14.9
x=8H y=12H	15.1	15.2	15.6	15.7	16.2	15.2	15.3	15.6	15.8	16.3
x=12H y=4H	10.6	10.9	11.0	11.3	11.7	10.6	10.8	11.0	11.2	11.6
x=12H y=6H	12.8	13.0	13.3	13.5	13.9	12.9	13.0	13.3	13.5	14.0
x=12H y=8H	14.1	14.3	14.6	14.7	15.2	14.2	14.4	14.7	14.8	15.3

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Flujo Total=131.25 Flujo Luminaria=131.25

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	0.73	0.77	0.82	0.85	0.88	0.92	0.95	0.97	0.99	1.00	1.02	1.02
RC	-	-	-	-	-	-	-	-	-	-	-	-

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)	365	845	963	981	987	991	994	997	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000

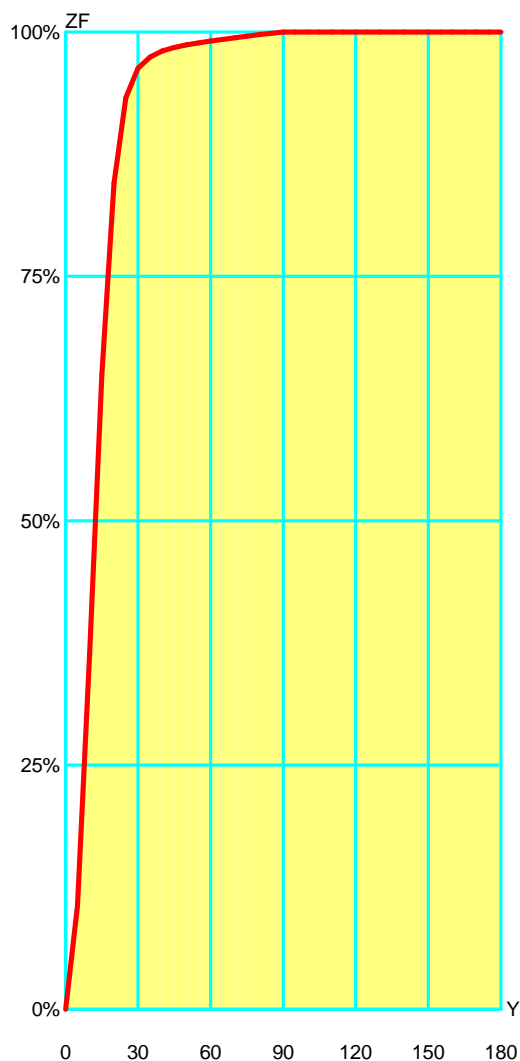
Códigos de Flujo C.I.E.

98 99 100 100 100

C.I.E.
D DIN 5040
F UTE
B NBN
RN
BLF

-/-/-/-/-/-/-/-/-/-
A60
--
BZ 1
0.00000 %
1.0

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



Flujo Zonal				
Gamma °	Flujo	Suma lm	Flujo [%]	Suma [%]
0°	0.00	0.00	0.00%	0.00 %
5°	106.21	106.21	10.62 %	10.62 %
10°	258.37	364.58	25.84 %	36.46 %
15°	284.38	648.96	28.44 %	64.90 %
20°	196.06	845.03	19.61 %	84.50 %
25°	87.72	932.75	8.77 %	93.27 %
30°	30.34	963.09	3.03 %	96.31 %
35°	11.38	974.47	1.14 %	97.45 %
40°	6.09	980.56	0.61 %	98.06 %
45°	3.79	984.35	0.38 %	98.44 %
50°	2.58	986.93	0.26 %	98.69 %
55°	2.02	988.95	0.20 %	98.90 %
60°	1.78	990.73	0.18 %	99.07 %
65°	1.66	992.39	0.17 %	99.24 %
70°	1.63	994.01	0.16 %	99.40 %
75°	1.62	995.63	0.16 %	99.56 %
80°	1.62	997.25	0.16 %	99.73 %
85°	1.52	998.77	0.15 %	99.88 %
90°	1.23	1000.00	0.12 %	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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Utilizations CIE

Mounting	Direct				Normalization				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	161	145	91	82	138	78	94	80	50	43	31	24	18	12	40	25	22	14	12	21	12	11	0					
0.80	195	178	99	92	170	87	123	108	60	53	40	32	25	19	49	33	30	21	18	29	18	16	0					
1.00	218	203	101	94	193	90	147	132	65	59	47	39	32	25	55	40	37	28	24	35	24	22	0					
1.25	241	227	103	97	216	93	173	157	71	65	54	46	40	32	61	47	43	35	31	41	31	28	0					
1.50	259	246	103	99	234	95	193	178	75	70	59	52	46	38	66	52	49	41	37	47	37	34	0					
2.00	282	271	101	97	259	94	224	210	79	75	67	60	56	49	71	60	57	51	47	55	47	43	0					
2.50	298	289	98	96	276	93	246	233	82	78	72	66	64	56	74	66	63	59	54	61	55	51	0					
3.00	309	301	96	94	288	92	263	251	83	80	76	71	70	63	76	70	68	65	61	65	61	57	0					
4.00	326	320	96	95	306	93	286	276	87	84	82	78	78	72	81	77	75	73	69	72	69	65	0					
5.00	337	332	97	95	318	93	302	293	90	87	86	82	83	78	84	81	79	79	75	77	75	71	0					
10.00	361	358	97	97	344	95	337	332	95	94	95	93	95	92	91	91	90	91	89	88	88	85	0					
20.00	375	373	99	98	358	97	357	354	98	98	100	99	102	100	95	97	96	99	97	94	96	93	0					

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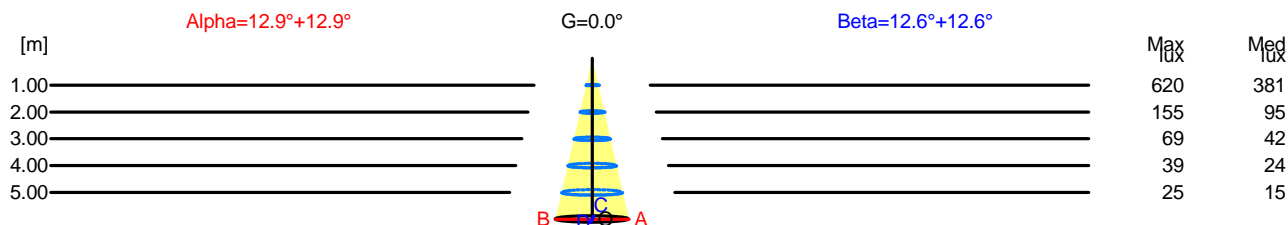
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Width at 50.00 % of Max Intensity

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	0.23	0.46	0.68	0.91	1.14	OC	0.22	0.45	0.67	0.89	1.11
OB	0.23	0.46	0.68	0.91	1.14	OD	0.22	0.45	0.67	0.89	1.11

Luminous Intensities [cd]

	0	5	15	25	35	45	55	65	75	85
OA	620.43	553.11	239.56	30.73	3.53	1.12	0.58	0.45	0.40	0.34
OB	620.43	553.11	239.56	30.73	3.53	1.12	0.58	0.45	0.40	0.34
OC	620.43	548.82	225.82	23.41	3.00	0.95	0.55	0.42	0.42	0.35
OD	620.43	548.82	225.82	23.41	3.00	0.95	0.55	0.42	0.42	0.35



H[m]	D[m]	Max lux	Med lux	Alpha=12.9°+12.9°	G=0.0	
1.00	0.46	620	381			
2.00	0.91	155	95			
3.00	1.37	69	42			
4.00	1.83	39	24			
5.00	2.28	25	15			

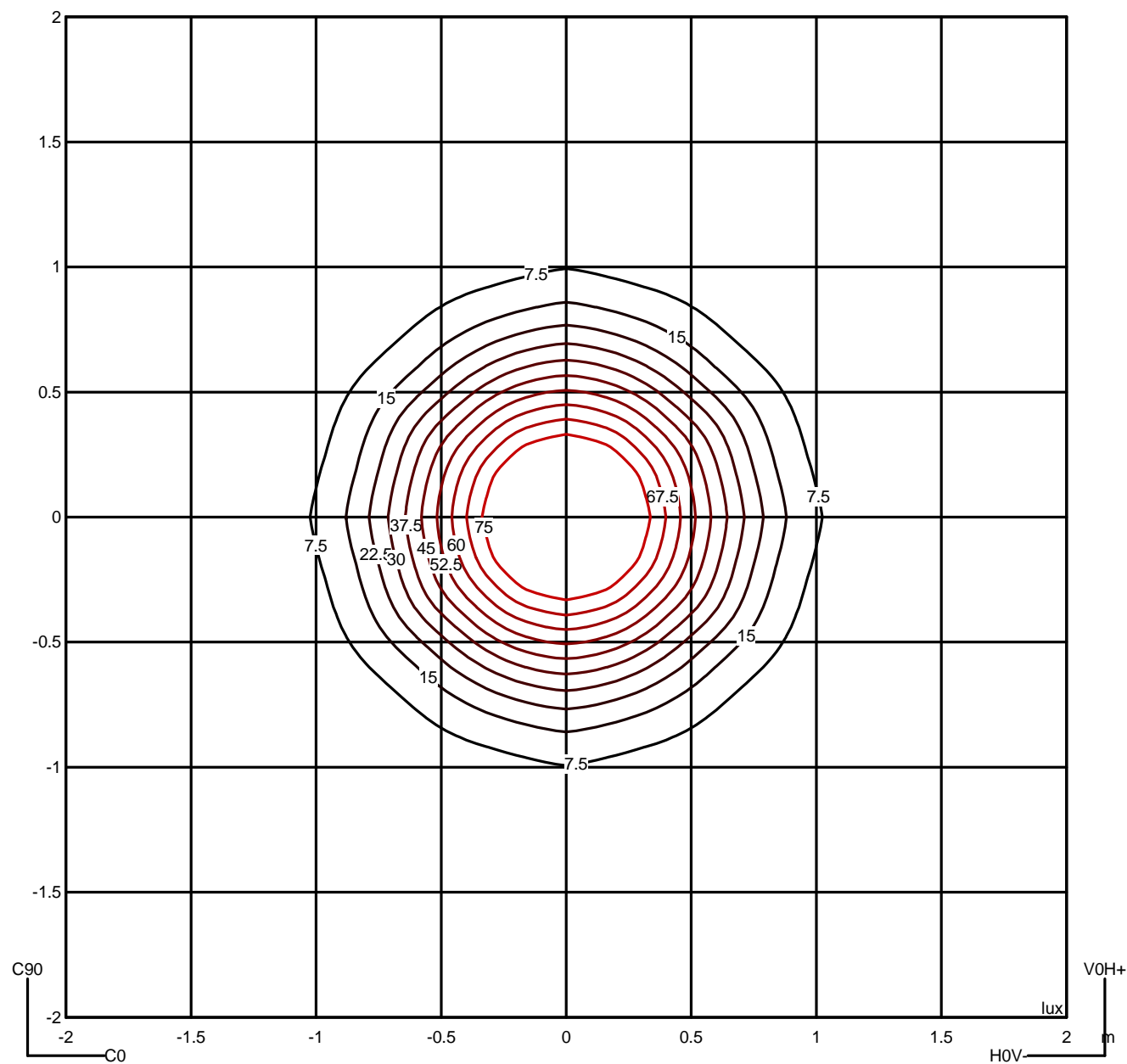
H[m]	D[m]	Max lux	Med lux	Beta=12.6°+12.6°	G=0.0	
1.00	0.45	620	381			
2.00	0.89	155	95			
3.00	1.34	69	42			
4.00	1.78	39	24			
5.00	2.23	25	15			

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Isolux (Floor)

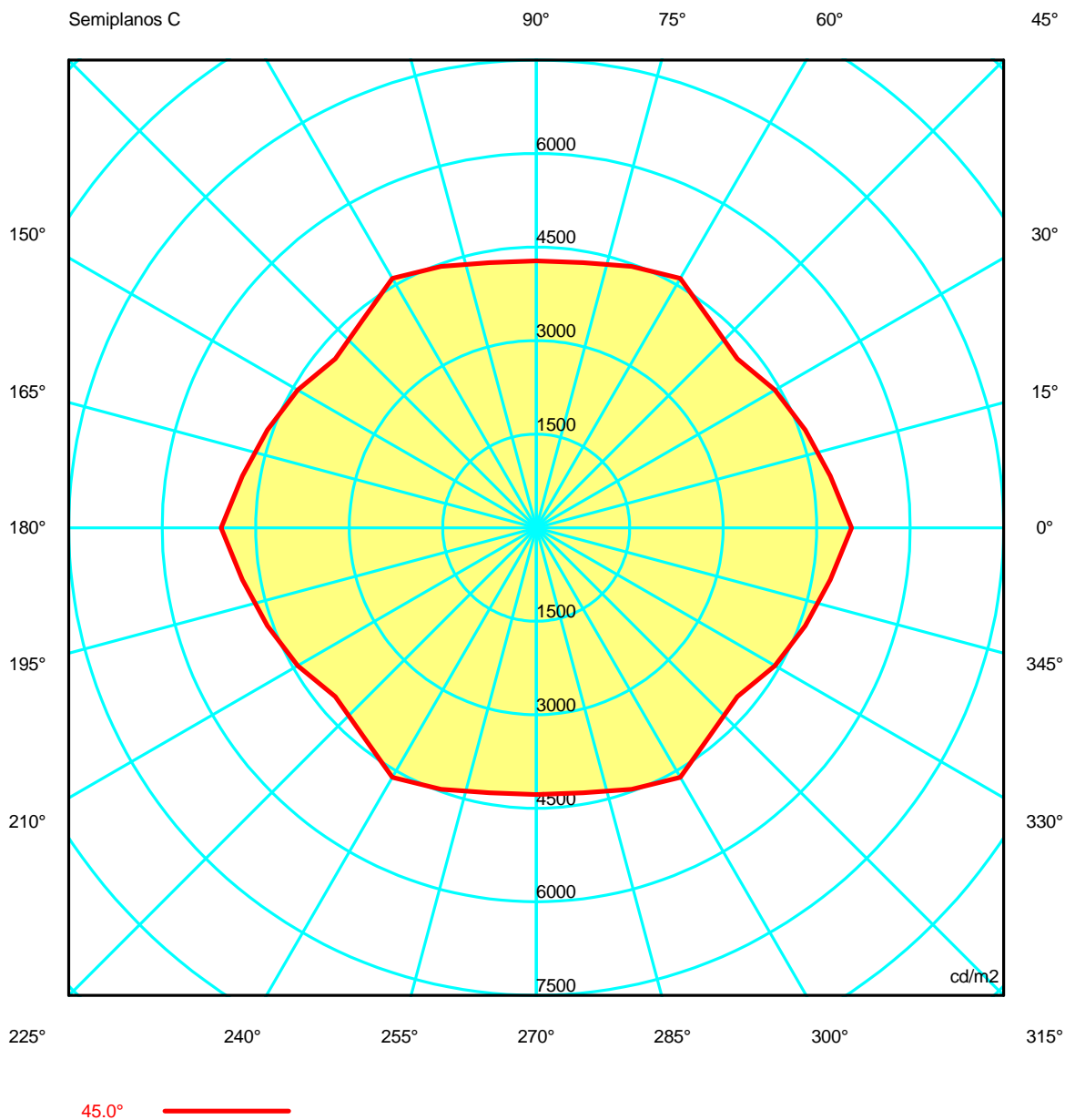
Luminaire position X=0.00m Y=0.00m Z=2.50m



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Luminance



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Lamps Flux	131.25 lm	Maximum value	620.43 cd	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	1975898.26	1975898.26	1975898.26	1975898.26	1975898.26	1975898.26	1975898.26	1975898.26	1975898.26	1975898.26	1975898.26	1975898.26	1975898.26
G 5.0	1768220.22	1740482.75	1739109.00	1751047.57	1741066.43	1739195.51	1747566.06	1737762.44	1736434.00	1754500.93	1736434.00	1737762.44	1747566.06
G 10.0	1313884.58	1306331.14	1308021.69	1312015.03	1303459.88	1299310.64	1299047.33	1289221.48	1285990.08	1295462.96	1285990.08	1289221.48	1299047.33
G 15.0	789859.67	769038.00	771666.85	777547.93	745501.44	720944.87	721959.63	724192.87	731010.96	744530.80	731010.96	724192.87	721959.63
G 20.0	333693.78	303342.48	299961.67	306862.37	284358.72	274321.03	275718.87	268364.92	272500.71	296728.78	272500.71	268364.92	275718.87
G 25.0	107970.70	94807.43	91999.32	92693.63	81712.53	77545.78	81915.83	78096.00	76505.08	82273.34	76505.08	78096.00	81915.83
G 30.0	36533.59	28525.62	26419.55	27632.80	24507.17	23010.28	23317.32	23905.09	24465.05	25463.45	24465.05	23905.09	23317.32
G 35.0	13717.66	12895.54	12623.55	12456.26	11568.97	11460.39	11987.18	11500.13	11202.06	11681.71	11202.06	11500.13	11987.18
G 40.0	8257.25	7441.52	7084.71	7015.12	6710.52	6704.48	6958.18	6847.58	6761.15	6909.41	6761.15	6847.58	6958.18
G 45.0	5059.63	4789.02	4593.53	4421.86	4213.36	4340.86	4621.78	4463.01	4316.61	4279.30	4316.61	4463.01	4621.78
G 50.0	3789.23	3470.36	3303.22	3263.26	3221.84	3317.90	3451.97	3350.75	3263.10	3313.05	3263.10	3350.75	3451.97
G 55.0	3223.22	3103.59	2981.82	2892.80	2896.61	3002.41	3091.91	3020.14	2983.66	3065.85	2983.66	3020.14	3091.91
G 60.0	3149.20	3061.96	2983.04	2927.72	2912.71	2931.75	2949.70	2930.61	2925.51	2954.28	2925.51	2930.61	2949.70
G 65.0	3387.11	3298.08	3263.39	3243.25	3168.70	3214.02	3324.94	3257.19	3160.68	3129.46	3160.68	3257.19	3324.94
G 70.0	3766.76	3850.63	3845.15	3802.09	3846.19	3844.62	3799.64	3853.32	3895.14	3907.55	3895.14	3853.32	3799.64
G 75.0	4977.64	4950.92	4862.82	4752.85	4877.37	5029.82	5021.09	4869.63	4892.77	5163.69	4892.77	4869.63	5021.09
G 80.0	7419.08	7295.24	7059.99	6841.49	6922.26	7245.87	7483.83	7317.31	7186.36	7291.30	7186.36	7317.31	7483.83
G 85.0	12318.07	12461.95	12553.20	12417.93	12013.47	12241.28	12859.38	12728.63	12607.86	12912.98	12607.86	12728.63	12859.38
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

Luminaire

Code A622-002+DIF

Name LEDTUBE

Measurerm.

Code CL041A17F005G

Name LEDTUBE

Luminaire Flux	131.25 lm	Luminaire Power	4.14 W	Efficacy	31.70 lm/W	Efficiency	100.00%
Lamps Flux	131.25 lm	Maximum value	620.43 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

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	1975898.26	1975898.26	1975898.26	1975898.26	1975898.26	1975898.26	1975898.26	1975898.26	1975898.26	1975898.26	1975898.26	1975898.26	1975898.26
G 5.0	1739195.51	1741066.43	1751047.57	1739109.00	1740482.75	1768220.22	1740482.75	1739109.00	1751047.57	1741066.43	1739195.51	1747566.06	1737762.44
G 10.0	1299310.64	1303459.88	1312015.03	1308021.69	1306331.14	1313884.58	1306331.14	1308021.69	1312015.03	1303459.88	1299310.64	1299047.33	1289221.48
G 15.0	720944.87	745501.44	777547.93	771666.85	769038.00	789859.67	769038.00	771666.85	777547.93	745501.44	720944.87	721959.63	724192.87
G 20.0	274321.03	284358.72	306862.37	299961.67	303342.48	333693.78	303342.48	299961.67	306862.37	284358.72	274321.03	275718.87	268364.92
G 25.0	77545.78	81712.53	92693.63	91999.32	94807.43	107970.70	94807.43	91999.32	92693.63	81712.53	77545.78	81915.83	78096.00
G 30.0	23010.28	24507.17	27632.80	26419.55	28525.62	36533.59	28525.62	26419.55	27632.80	24507.17	23010.28	23317.32	23905.09
G 35.0	11460.39	11568.97	12456.26	12623.55	12895.54	13717.66	12895.54	12623.55	12456.26	11568.97	11460.39	11987.18	11500.13
G 40.0	6704.48	6710.52	7015.12	7084.71	7441.52	8257.25	7441.52	7084.71	7015.12	6710.52	6704.48	6958.18	6847.58
G 45.0	4340.86	4213.36	4421.86	4593.53	4789.02	5059.63	4789.02	4593.53	4421.86	4213.36	4340.86	4621.78	4463.01
G 50.0	3317.90	3221.84	3263.26	3303.22	3470.36	3789.23	3470.36	3303.22	3263.26	3221.84	3317.90	3451.97	3350.75
G 55.0	3002.41	2896.61	2892.80	2981.82	3103.59	3223.22	3103.59	2981.82	2892.80	2896.61	3002.41	3091.91	3020.14
G 60.0	2931.75	2912.71	2927.72	2983.04	3061.96	3149.20	3061.96	2983.04	2927.72	2912.71	2931.75	2949.70	2930.61
G 65.0	3214.02	3168.70	3243.25	3263.39	3298.08	3387.11	3298.08	3263.39	3243.25	3168.70	3214.02	3324.94	3257.19
G 70.0	3844.62	3846.19	3802.09	3845.15	3850.63	3766.76	3850.63	3845.15	3802.09	3846.19	3844.62	3799.64	3853.32
G 75.0	5029.82	4877.37	4752.85	4862.82	4950.92	4977.64	4950.92	4862.82	4752.85	4877.37	5029.82	5021.09	4869.63
G 80.0	7245.87	6922.26	6841.49	7059.99	7295.24	7419.08	7295.24	7059.99	6841.49	6922.26	7245.87	7483.83	7317.31
G 85.0	12241.28	12013.47	12417.93	12553.20	12461.95	12318.07	12461.95	12553.20	12417.93	12013.47	12241.28	12859.38	12728.63
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

Luminaire

Code A622-002+DIF
Name LEDTUBE

Measur.

Code CL041A17F005G
Name LEDTUBE

Luminaire Flux	131.25 lm	Luminaire Power	4.14 W	Efficacy	31.70 lm/W	Efficiency	100.00%
Lamps Flux	131.25 lm	Maximum value	620.43 cd	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	1975898.26	1975898.26	1975898.26	1975898.26	1975898.26	1975898.26	1975898.26	1975898.26	1975898.26	1975898.26
G 5.0	1736434.00	1754500.93	1736434.00	1737762.44	1747566.06	1739195.51	1741066.43	1751047.57	1739109.00	1740482.75
G 10.0	1285990.08	1295462.96	1285990.08	1289221.48	1299047.33	1299310.64	1303459.88	1312015.03	1308021.69	1306331.14
G 15.0	731010.96	744530.80	731010.96	724192.87	721959.63	720944.87	745501.44	777547.93	771666.85	769038.00
G 20.0	272500.71	296728.78	272500.71	268364.92	275718.87	274321.03	284358.72	306862.37	299961.67	303342.48
G 25.0	76505.08	82273.34	76505.08	78096.00	81915.83	77545.78	81712.53	92693.63	91999.32	94807.43
G 30.0	24465.05	25463.45	24465.05	23905.09	23317.32	23010.28	24507.17	27632.80	26419.55	28525.62
G 35.0	11202.06	11681.71	11202.06	11500.13	11987.18	11460.39	11568.97	12456.26	12623.55	12895.54
G 40.0	6761.15	6909.41	6761.15	6847.58	6958.18	6704.48	6710.52	7015.12	7084.71	7441.52
G 45.0	4316.61	4279.30	4316.61	4463.01	4621.78	4340.86	4213.36	4421.86	4593.53	4789.02
G 50.0	3263.10	3313.05	3263.10	3350.75	3451.97	3317.90	3221.84	3263.26	3303.22	3470.36
G 55.0	2983.66	3065.85	2983.66	3020.14	3091.91	3002.41	2896.61	2892.80	2981.82	3103.59
G 60.0	2925.51	2954.28	2925.51	2930.61	2949.70	2931.75	2912.71	2927.72	2983.04	3061.96
G 65.0	3160.68	3129.46	3160.68	3257.19	3324.94	3214.02	3168.70	3243.25	3263.39	3298.08
G 70.0	3895.14	3907.55	3895.14	3853.32	3799.64	3844.62	3846.19	3802.09	3845.15	3850.63
G 75.0	4892.77	5163.69	4892.77	4869.63	5021.09	5029.82	4877.37	4752.85	4862.82	4950.92
G 80.0	7186.36	7291.30	7186.36	7317.31	7483.83	7245.87	6922.26	6841.49	7059.99	7295.24
G 85.0	12607.86	12912.98	12607.86	12728.63	12859.38	12241.28	12013.47	12417.93	12553.20	12461.95
G 90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00