LEDS C4

Installation Instructions
3D File
Photometry
Dialux | ULD
Revit

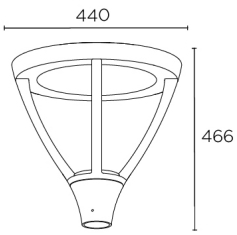
Proud Symmetrical Head

Leds C4 Team

60-9996-Z5-CL

PROUD head with 3000k 76,7W LED for symmetrical lighting







TECHNICAL FEATURES

IP66 IK10

Power (W) : 83.5W

Total power consumption of light (W) : 93.5W

Real lumens : 6328

Real lm/W : 68

Correlated Colour Temperature (CCT) : LED warm-white 3000K

Lens / reflector angle : HORIZONTAL 124º

Structure material : Aluminium

Structure finish : Urban grey

Diffuser material : Polycarbonate

Diffuser finish : Semitransparent

Equipment included : Yes, electronic

Voltage / frequency : 100-240V/50-60Hz

Warranty : 5 Years

Useful life : 50.000h L80B20

Max. temperature : 50ºC

Seaside : No

Energy efficiency : LED A++

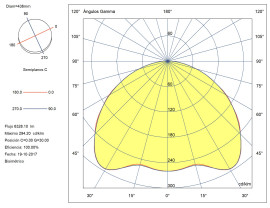
LUMINOTECHNIC FEATURES

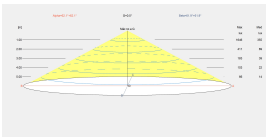
Light source: LED EDISON

CRI: 80

MacAdam steps: 3

Photobiological risk: RG0





LOGISTICS

Net weight (kg): 6.59

Packaged weight (kg): 7.99

Packaging: 480mm x 480mm x 530mm

1 Un

LIGHT APPLICATION



81-E000-Z5-Z5

Conical column of 3.5mm in Z5 finish

Structure material: Steel
Dimensions: 300 x 3500 x 300

71-E213-48-48

Floor mounting bolts

Structure material: Steel
Dimensions: 300 x 400 x 300

Luminaire
Code 60-9996-Z5-CL
Name CABEZAL PROUD
Measurem.
Code 60-9996-Z5-CL
Name CABEZAL PROUD

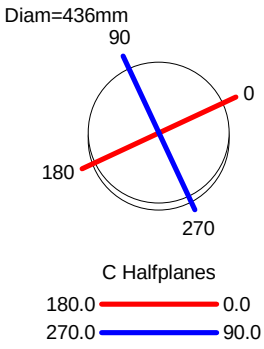
Luminaire Flux	6328.10 lm	Luminaire Power	92.28 W	Efficacy	68.57 lm/W	Efficiency	100.00%
Lamps Flux	6328.10 lm	Maximum value	294.20 cd/klm	Position	C=0.00 G=30.00	CG	Double Symmetrical

Round Luminaire	Diam. 436 mm	Height	105 mm
Round Luminous Area	Diam. 305 mm	Height	20 mm
Horizontal Luminous Area	0.073062 m2	Emitting area on Plane 180°	0.006100 m2
Emitting area on Plane 0°	0.006100 m2	Emitting area on Plane 270°	0.006100 m2
Emitting area on Plane 90°	0.006100 m2	Glare area at 76°	0.023594 m2
Coordinate system	CG	Symmetry Type	Double Symmetrical
Date	19-10-2017	Maximum Gamma Angle	180
Measurement Distance	0.00	Measurement Flux	6328.10 lm
Operator	Asselum T2	Source Voltage [V]	
Temperature	25.00 °C	Source current [A]	
Humidity	60.00 %	Photocell	
Notes			

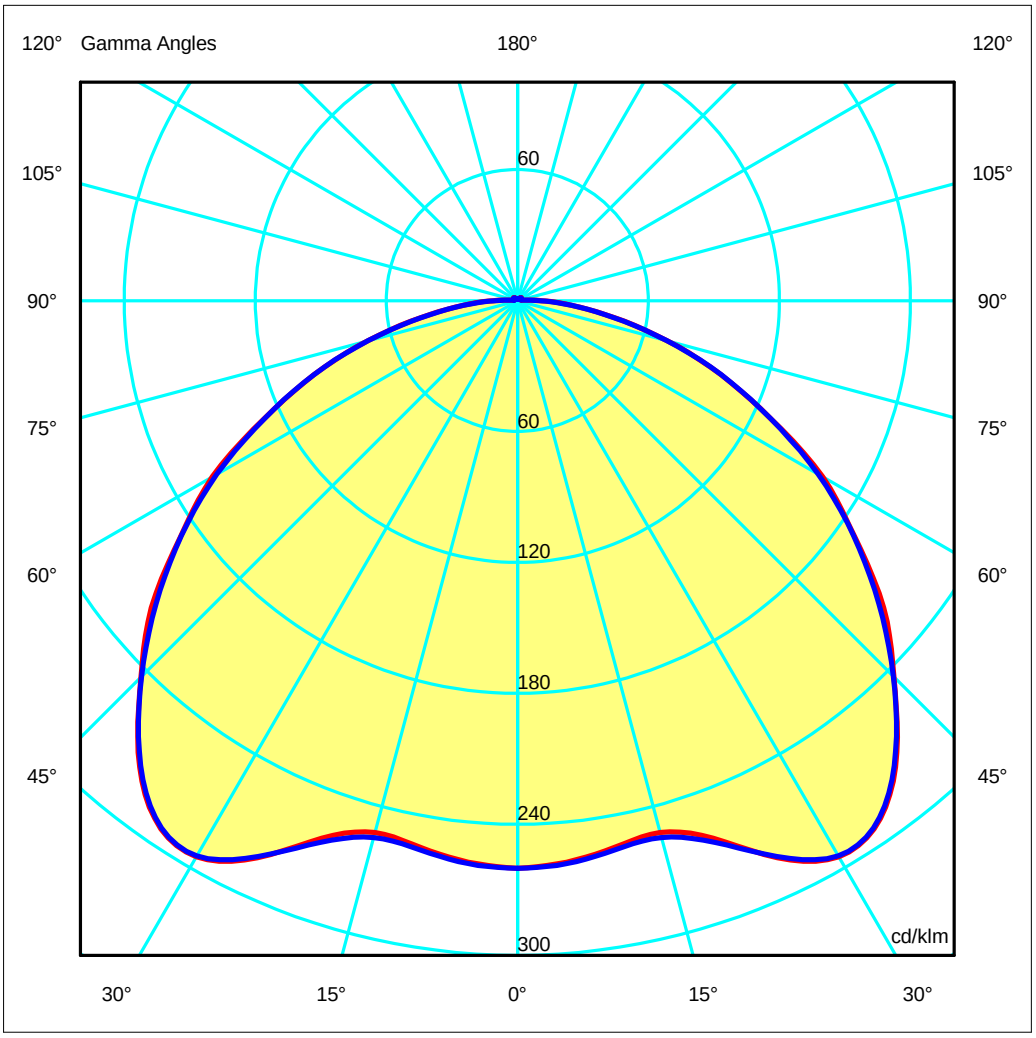
Luminaire Lamps

Line	Code	Name	Flux [lm]	Pow. [W]	Q.ty
	60-9996-Z5-CL	60-9996-Z5-CL	6328.10	92.28	1

C.I.E.	43 76 94 98 100	D DIN 5040	A31
F UTE	0.98 E + 0.02 T	B NBN	BZ 5



C Halfplanes
180.0 — 0.0
270.0 — 90.0



ULOR 1.77 %
DLOR 98.23 %
RN 1.77 %

Luminaire
Code 60-9996-Z5-CL
Name CABEZAL PROUD
Measurem.
Code 60-9996-Z5-CL
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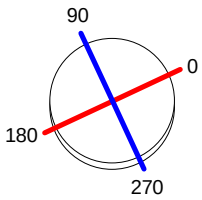
Luminous Intensity Table cd/klm **Table 1/1**

	C 0.00	C 15.00	C 30.00	C 45.00	C 60.00	C 75.00	C 90.00
G 0.0	260.06	260.06	260.06	260.06	260.06	260.06	260.06
G 5.0	258.22	258.15	258.36	258.24	258.64	258.38	258.93
G 10.0	254.45	254.13	254.31	254.41	254.95	255.27	255.57
G 15.0	252.33	252.15	253.45	254.17	254.77	254.30	254.70
G 20.0	262.15	262.70	261.65	261.64	262.65	264.48	264.16
G 25.0	281.63	274.84	267.34	265.80	267.98	275.74	280.97
G 30.0	294.20	283.66	269.03	265.30	268.99	283.48	293.73
G 35.0	289.67	284.64	267.00	259.69	266.08	284.04	289.13
G 40.0	270.22	268.66	255.94	248.16	254.59	267.94	269.43
G 45.0	243.79	243.64	235.79	227.95	234.62	243.20	243.38
G 50.0	218.89	216.91	213.09	206.32	211.69	216.28	216.10
G 55.0	188.37	188.74	186.88	181.64	186.30	188.94	187.87
G 60.0	161.27	159.86	160.05	156.28	158.99	160.08	158.94
G 65.0	128.12	130.72	130.83	127.48	130.28	129.69	127.85
G 70.0	99.04	101.43	101.70	99.40	102.26	101.50	99.26
G 75.0	71.03	74.13	74.73	71.53	74.36	73.08	70.63
G 80.0	45.13	47.61	48.45	46.41	49.03	47.76	44.86
G 85.0	25.37	28.42	29.14	26.53	29.04	27.84	24.79
G 90.0	11.03	13.71	13.96	12.59	14.66	14.20	10.20
G 95.0	2.22	4.84	5.62	3.84	5.70	5.26	2.18
G100.0	1.52	3.74	3.68	3.30	3.90	4.10	1.47
G105.0	1.68	3.42	3.27	3.38	3.38	3.60	1.60
G110.0	1.81	3.09	2.79	3.16	2.81	3.16	1.69
G115.0	1.98	2.81	2.42	2.92	2.37	2.76	1.83
G120.0	2.12	2.55	2.20	2.69	2.21	2.47	1.96
G125.0	2.24	2.38	2.19	2.48	2.22	2.28	2.05
G130.0	2.21	2.19	2.21	2.34	2.24	2.13	2.02
G135.0	1.77	1.92	2.09	2.13	2.10	1.86	1.71
G140.0	1.23	1.43	1.74	1.82	1.76	1.44	1.25
G145.0	0.87	0.95	1.16	1.19	1.14	0.94	0.90
G150.0	0.70	0.72	0.75	0.78	0.75	0.72	0.70
G155.0	0.68	0.67	0.67	0.68	0.67	0.67	0.67
G160.0	0.70	0.69	0.69	0.69	0.69	0.69	0.69
G165.0	0.71	0.71	0.71	0.71	0.71	0.71	0.71
G170.0	0.73	0.73	0.73	0.73	0.73	0.73	0.72
G175.0	0.74	0.74	0.74	0.74	0.74	0.74	0.73
G180.0	0.74	0.74	0.74	0.74	0.74	0.74	0.74

Luminaire
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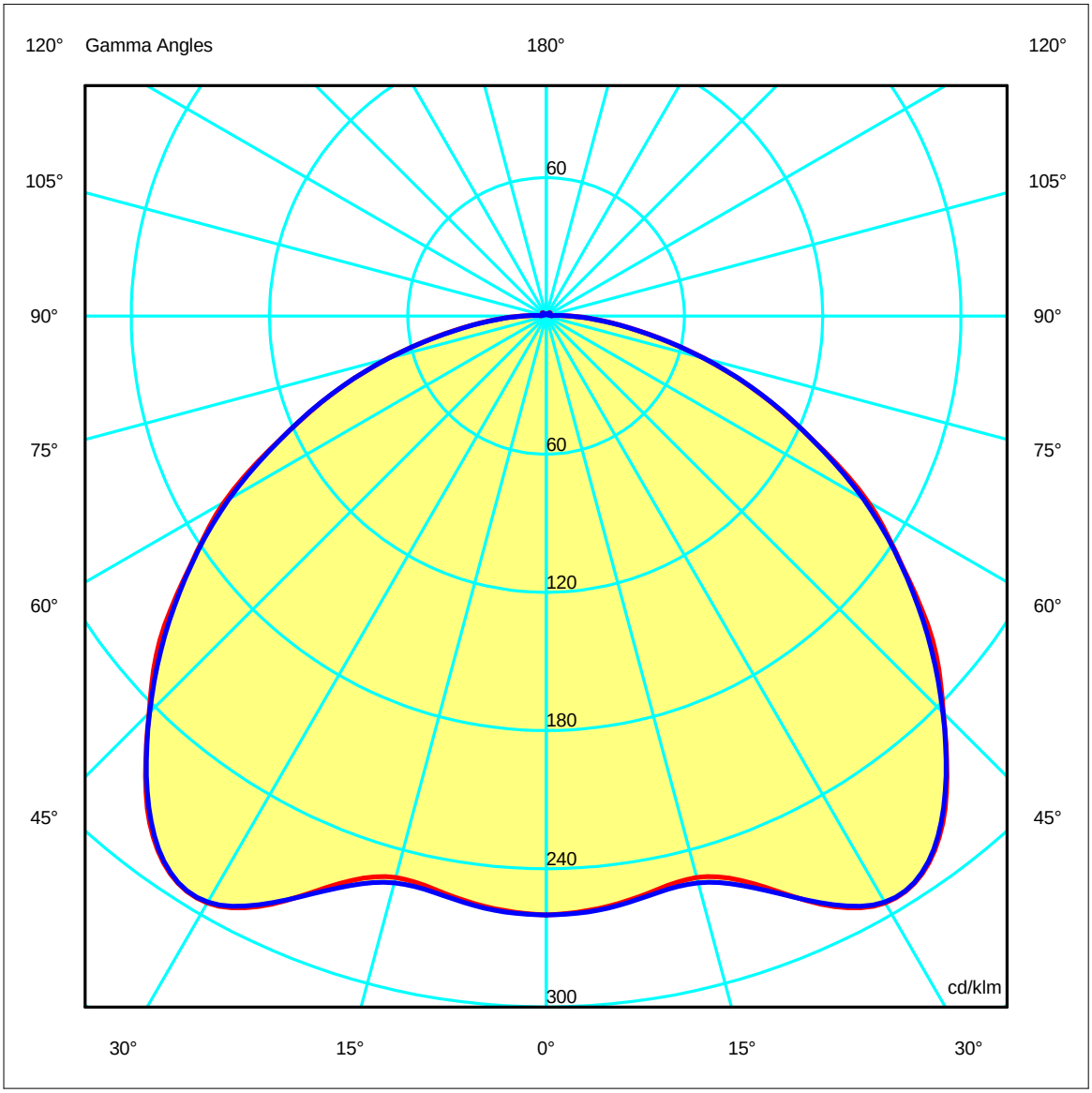
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Lamps Flux	6328.10 lm	Maximum value	294.20 cd/klm	Position	C=0.00 G=30.00	CG	Double Symmetrical

Diam=436mm



C Halfplanes





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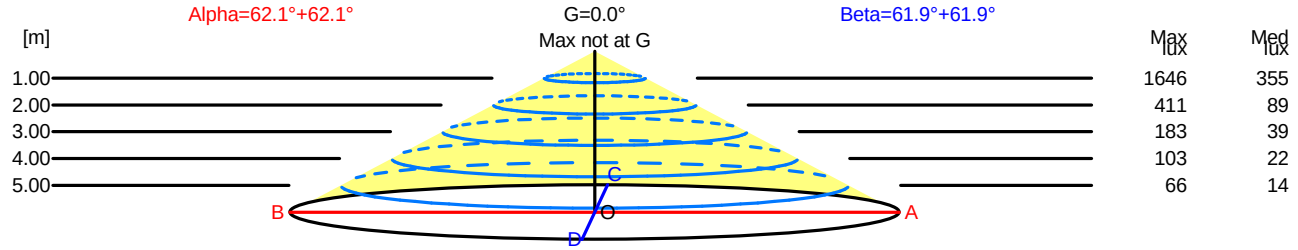
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Width at 50.00 % of Max Intensity

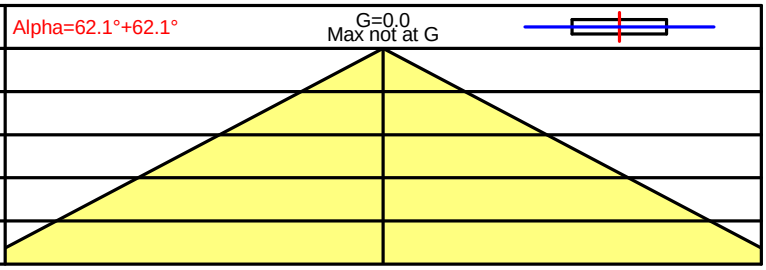
H[m]	1.00	2.00	3.00	4.00	5.00	H[m]	1.00	2.00	3.00	4.00	5.00
OA	1.89	3.79	5.68	7.57	9.46	OC	1.87	3.74	5.61	7.48	9.35
OB	1.89	3.79	5.68	7.57	9.46	OD	1.87	3.74	5.61	7.48	9.35

Luminous Intensities [cd/klm]

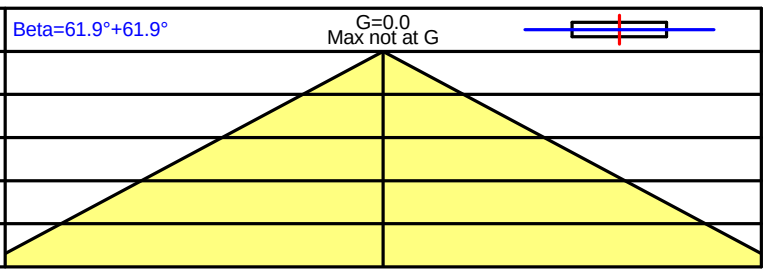
	0	5	15	25	35	45	55	65	75	85
OA	1645.69	1634.05	1596.77	1782.21	1833.08	1542.75	1191.99	810.78	449.49	160.52
OB	1645.69	1634.05	1596.77	1782.21	1833.08	1542.75	1191.99	810.78	449.49	160.52
OC	1645.69	1638.55	1611.78	1777.99	1829.64	1540.14	1188.83	809.04	446.97	156.89
OD	1645.69	1638.55	1611.78	1777.99	1829.64	1540.14	1188.83	809.04	446.97	156.89



H[m]	D[m]	Max lux	Med lux
1.00	3.79	1646	355
2.00	7.57	411	89
3.00	11.36	183	39
4.00	15.14	103	22
5.00	18.93	66	14



H[m]	D[m]	Max lux	Med lux
1.00	3.74	1646	355
2.00	7.48	411	89
3.00	11.22	183	39
4.00	14.96	103	22
5.00	18.70	66	14



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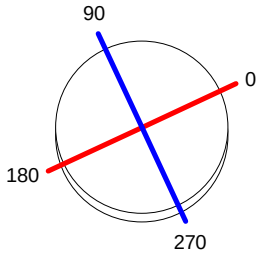
UGR
S = 0.250

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	23.7	25.1	24.1	25.4	25.7	23.7	25.1	24.1	25.4	25.7
x=2H y=3H	25.3	26.5	25.7	26.8	27.2	25.3	26.5	25.6	26.8	27.1
x=2H y=4H	25.9	27.1	26.3	27.4	27.8	25.9	27.1	26.3	27.4	27.7
x=2H y=6H	26.4	27.5	26.8	27.8	28.2	26.4	27.4	26.7	27.8	28.1
x=2H y=8H	26.5	27.6	27.0	28.0	28.3	26.5	27.6	26.9	27.9	28.3
x=2H y=12H	26.7	27.7	27.1	28.0	28.4	26.6	27.6	27.0	28.0	28.4
x=4H y=2H	24.5	25.6	24.8	26.0	26.3	24.5	25.6	24.8	26.0	26.3
x=4H y=3H	26.2	27.2	26.6	27.6	28.0	26.2	27.2	26.6	27.6	28.0
x=4H y=4H	27.0	27.9	27.4	28.3	28.7	27.0	27.9	27.4	28.3	28.7
x=4H y=6H	27.6	28.4	28.0	28.8	29.2	27.6	28.3	28.0	28.7	29.2
x=4H y=8H	27.8	28.5	28.3	29.0	29.4	27.8	28.5	28.2	28.9	29.4
x=4H y=12H	28.0	28.6	28.5	29.1	29.6	27.9	28.6	28.4	29.1	29.5
x=8H y=4H	27.3	28.0	27.8	28.5	28.9	27.3	28.0	27.8	28.5	28.9
x=8H y=6H	28.1	28.7	28.6	29.1	29.6	28.0	28.6	28.5	29.1	29.6
x=8H y=8H	28.4	28.9	28.9	29.4	29.9	28.4	28.9	28.9	29.4	29.9
x=8H y=12H	28.7	29.1	29.2	29.6	30.2	28.6	29.1	29.2	29.6	30.1
x=12H y=4H	27.4	28.0	27.8	28.5	28.9	27.3	28.0	27.8	28.4	28.9
x=12H y=6H	28.1	28.7	28.7	29.2	29.7	28.1	28.7	28.6	29.1	29.6
x=12H y=8H	28.5	29.0	29.0	29.5	30.0	28.5	28.9	29.0	29.4	30.0

Luminaire
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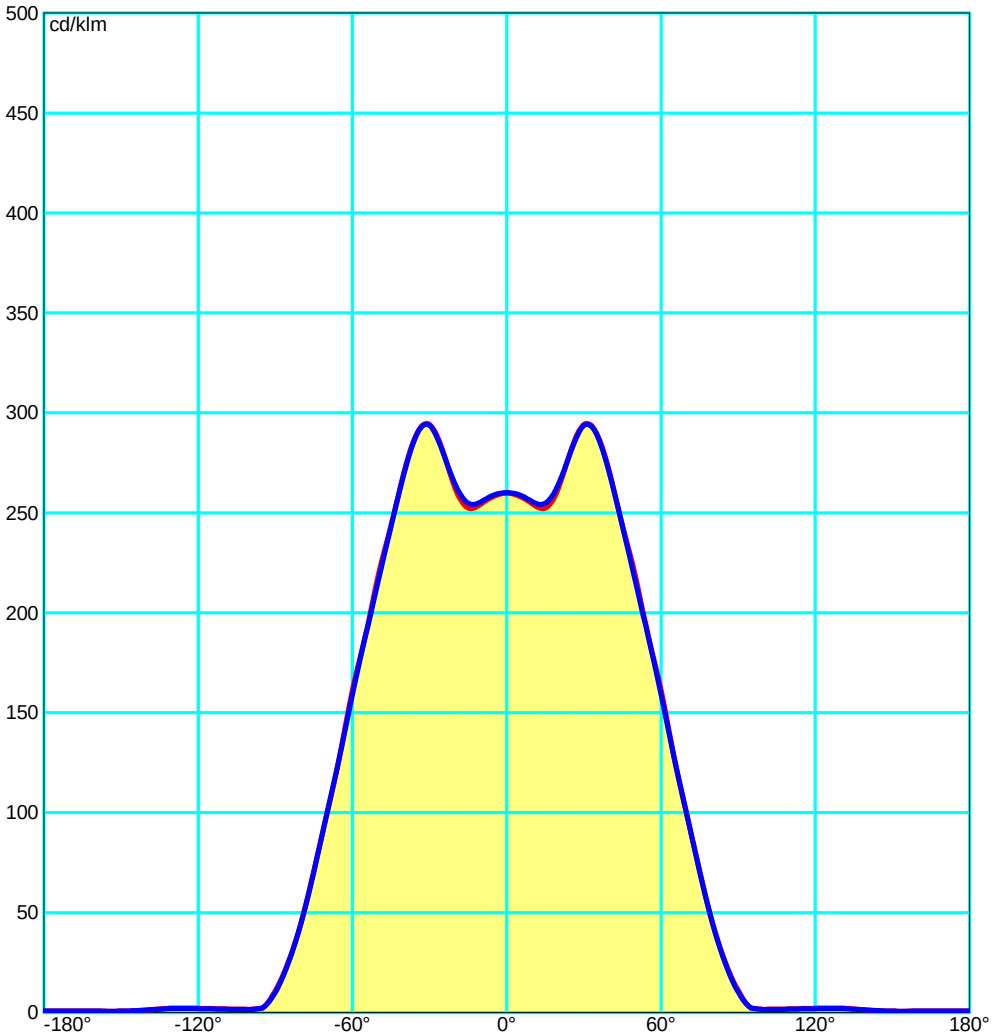
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Lamps Flux	6328.10 lm	Maximum value	294.20 cd/klm	Position	C=0.00 G=30.00	CG	Double Symmetrical

Diam=436mm



C Halfplanes

180.0 0.0
270.0 90.0



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Luminance



Luminaire
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Lamps Flux	6328.10 lm	Maximum value	294.20 cd/klm	Position	C=0.00 G=30.00	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	22524.61	22524.61	22524.61	22524.61	22524.61	22524.61	22524.61	22524.61	22524.61	22524.61	22524.61	22524.61	22524.61
G 5.0	22287.93	22280.07	22288.63	22300.20	22289.74	22300.76	22324.09	22308.09	22308.95	22349.25	22308.95	22308.09	22324.09
G 10.0	22054.02	22030.46	22029.05	22042.12	22045.29	22063.75	22097.36	22117.46	22132.68	22150.85	22132.68	22117.46	22097.36
G 15.0	22130.85	22106.27	22146.33	22228.81	22274.35	22315.45	22344.86	22317.04	22305.20	22338.84	22305.20	22317.04	22344.86
G 20.0	23450.09	23499.21	23474.69	23405.39	23392.47	23422.93	23494.87	23615.31	23669.18	23629.52	23669.18	23615.31	23494.87
G 25.0	25906.30	25509.14	25027.29	24591.74	24449.44	24468.08	24649.89	25117.42	25560.18	25844.94	25560.18	25117.42	24649.89
G 30.0	28070.48	27463.39	26575.29	25668.71	25332.80	25332.30	25665.44	26564.22	27437.81	28025.49	27437.81	26564.22	25665.44
G 35.0	28936.85	28746.88	27899.75	26672.14	26026.63	25985.66	26580.22	27824.65	28694.63	28882.48	28694.63	27824.65	26580.22
G 40.0	28552.56	28442.14	28019.65	27043.54	26346.42	26280.90	26901.02	27916.15	28363.49	28468.29	28363.49	27916.15	26901.02
G 45.0	27560.92	27549.44	27339.54	26656.41	25925.40	25862.94	26524.30	27256.43	27500.26	27514.22	27500.26	27256.43	26524.30
G 50.0	26825.33	26666.10	26488.86	26114.92	25455.17	25369.92	25943.32	26393.68	26542.16	26483.33	26542.16	26393.68	25943.32
G 55.0	25413.78	25455.94	25453.04	25213.97	24648.60	24603.70	25134.95	25450.34	25475.67	25346.39	25475.67	25450.34	25134.95
G 60.0	24406.63	24217.42	24203.26	24222.48	23793.28	23700.01	24061.24	24230.20	24187.88	24054.15	24187.88	24230.20	24061.24
G 65.0	22270.54	22589.12	22815.52	22740.91	22279.24	22250.57	22645.39	22647.48	22433.85	22222.86	22433.85	22647.48	22645.39
G 70.0	20401.67	20749.96	20995.96	20947.97	20551.97	20610.92	21064.70	21045.12	20755.04	20446.32	20755.04	21045.12	21064.70
G 75.0	18123.31	18675.17	19100.05	19067.42	18416.43	18398.18	18973.68	18868.26	18427.68	18021.44	18427.68	18868.26	18973.68
G 80.0	15277.77	15851.49	16340.07	16400.79	15829.83	15921.46	16595.55	16457.72	15847.07	15186.45	15847.07	16457.72	16595.55
G 85.0	12898.71	13984.85	14812.06	14816.48	13756.11	13760.35	14767.68	14590.22	13661.55	12607.08	13661.55	14590.22	14767.68
G 90.0	11447.44	13474.74	14668.37	14484.97	13259.92	13551.43	15205.97	15387.95	13615.03	10584.11	13615.03	15387.95	15205.97

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Lamps Flux	6328.10 lm	Maximum value	294.20 cd/klm	Position	C=0.00 G=30.00	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	22524.61	22524.61	22524.61	22524.61	22524.61	22524.61	22524.61	22524.61	22524.61	22524.61	22524.61	22524.61	22524.61
G 5.0	22300.76	22289.74	22300.20	22288.63	22280.07	22287.93	22280.07	22288.63	22300.20	22289.74	22300.76	22324.09	22308.09
G 10.0	22063.75	22045.29	22042.12	22029.05	22030.46	22054.02	22030.46	22029.05	22042.12	22045.29	22063.75	22097.36	22117.46
G 15.0	22315.45	22274.35	22228.81	22146.33	22106.27	22130.85	22106.27	22146.33	22228.81	22274.35	22315.45	22344.86	22317.04
G 20.0	23422.93	23392.47	23405.39	23474.69	23499.21	23450.09	23499.21	23474.69	23405.39	23392.47	23422.93	23494.87	23615.31
G 25.0	24468.08	24449.44	24591.74	25027.29	25509.14	25906.30	25509.14	25027.29	24591.74	24449.44	24468.08	24649.89	25117.42
G 30.0	25332.30	25332.80	25668.71	26575.29	27463.39	28070.48	27463.39	26575.29	25668.71	25332.80	25332.30	25665.44	26564.22
G 35.0	25985.66	26026.63	26672.14	27899.75	28746.88	28936.85	28746.88	27899.75	26672.14	26026.63	25985.66	26580.22	27824.65
G 40.0	26280.90	26346.42	27043.54	28019.65	28442.14	28552.56	28442.14	28019.65	27043.54	26346.42	26280.90	26901.02	27916.15
G 45.0	25862.94	25925.40	26656.41	27339.54	27549.44	27560.92	27549.44	27339.54	26656.41	25925.40	25862.94	26524.30	27256.43
G 50.0	25369.92	25455.17	26114.92	26488.86	26666.10	26825.33	26666.10	26488.86	26114.92	25455.17	25369.92	25943.32	26393.68
G 55.0	24603.70	24648.60	25213.97	25453.04	25455.94	25413.78	25455.94	25453.04	25213.97	24648.60	24603.70	25134.95	25450.34
G 60.0	23700.01	23793.28	24222.48	24203.26	24217.42	24406.63	24217.42	24203.26	24222.48	23793.28	23700.01	24061.24	24230.20
G 65.0	22250.57	22279.24	22740.91	22815.52	22589.12	22270.54	22589.12	22815.52	22740.91	22279.24	22250.57	22645.39	22647.48
G 70.0	20610.92	20551.97	20947.97	20995.96	20749.96	20401.67	20749.96	20995.96	20947.97	20551.97	20610.92	21064.70	21045.12
G 75.0	18398.18	18416.43	19067.42	19100.05	18675.17	18123.31	18675.17	19100.05	19067.42	18416.43	18398.18	18973.68	18868.26
G 80.0	15921.46	15829.83	16400.79	16340.07	15851.49	15277.77	15851.49	16340.07	16400.79	15829.83	15921.46	16595.55	16457.72
G 85.0	13760.35	13756.11	14816.48	14812.06	13984.85	12898.71	13984.85	14812.06	14816.48	13756.11	13760.35	14767.68	14590.22
G 90.0	13551.43	13259.92	14484.97	14668.37	13474.74	11447.44	13474.74	14668.37	14484.97	13259.92	13551.43	15205.97	15387.95

Luminaire
Code 60-9996-Z5-CL
Name CABEZAL PROUD
Measurem.
Code 60-9996-Z5-CL
Name CABEZAL PROUD

Luminaire Flux	6328.10 lm	Luminaire Power	92.28 W	Efficacy	68.57 lm/W	Efficiency	100.00%
Lamps Flux	6328.10 lm	Maximum value	294.20 cd/klm	Position	C=0.00 G=30.00	CG	Double Symmetrical

Luminance cd/m2 **Table 3/3**

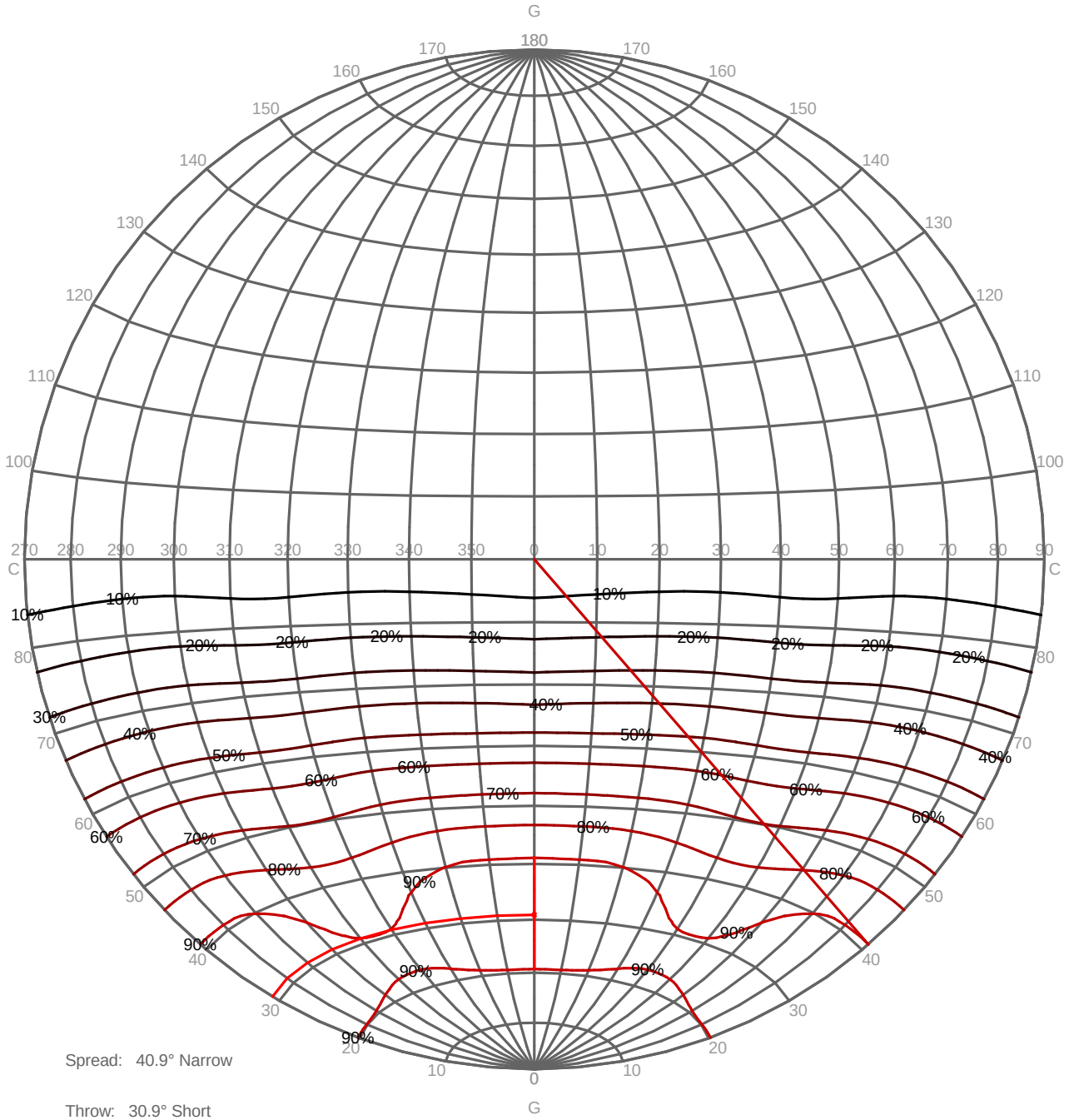
	C 260.00	C 270.00	C 280.00	C 290.00	C 300.00	C 310.00	C 320.00	C 330.00	C 340.00	C 350.00
G 0.0	22524.61	22524.61	22524.61	22524.61	22524.61	22524.61	22524.61	22524.61	22524.61	22524.61
G 5.0	22308.95	22349.25	22308.95	22308.09	22324.09	22300.76	22289.74	22300.20	22288.63	22280.07
G 10.0	22132.68	22150.85	22132.68	22117.46	22097.36	22063.75	22045.29	22042.12	22029.05	22030.46
G 15.0	22305.20	22338.84	22305.20	22317.04	22344.86	22315.45	22274.35	22228.81	22146.33	22106.27
G 20.0	23669.18	23629.52	23669.18	23615.31	23494.87	23422.93	23392.47	23405.39	23474.69	23499.21
G 25.0	25560.18	25844.94	25560.18	25117.42	24649.89	24468.08	24449.44	24591.74	25027.29	25509.14
G 30.0	27437.81	28025.49	27437.81	26564.22	25665.44	25332.30	25332.80	25668.71	26575.29	27463.39
G 35.0	28694.63	28882.48	28694.63	27824.65	26580.22	25985.66	26026.63	26672.14	27899.75	28746.88
G 40.0	28363.49	28468.29	28363.49	27916.15	26901.02	26280.90	26346.42	27043.54	28019.65	28442.14
G 45.0	27500.26	27514.22	27500.26	27256.43	26524.30	25862.94	25925.40	26656.41	27339.54	27549.44
G 50.0	26542.16	26483.33	26542.16	26393.68	25943.32	25369.92	25455.17	26114.92	26488.86	26666.10
G 55.0	25475.67	25346.39	25475.67	25450.34	25134.95	24603.70	24648.60	25213.97	25453.04	25455.94
G 60.0	24187.88	24054.15	24187.88	24230.20	24061.24	23700.01	23793.28	24222.48	24203.26	24217.42
G 65.0	22433.85	22222.86	22433.85	22647.48	22645.39	22250.57	22279.24	22740.91	22815.52	22589.12
G 70.0	20755.04	20446.32	20755.04	21045.12	21064.70	20610.92	20551.97	20947.97	20995.96	20749.96
G 75.0	18427.68	18021.44	18427.68	18868.26	18973.68	18398.18	18416.43	19067.42	19100.05	18675.17
G 80.0	15847.07	15186.45	15847.07	16457.72	16595.55	15921.46	15829.83	16400.79	16340.07	15851.49
G 85.0	13661.55	12607.08	13661.55	14590.22	14767.68	13760.35	13756.11	14816.48	14812.06	13984.85
G 90.0	13615.03	10584.11	13615.03	15387.95	15205.97	13551.43	13259.92	14484.97	14668.37	13474.74

Luminaire
Code 60-9996-Z5-CL
Name CABEZAL PROUD
Measurem.
Code 60-9996-Z5-CL
Name CABEZAL PROUD

Luminaire Flux	6328.10 lm	Luminaire Power	92.28 W	Efficacy	68.57 lm/W	Efficiency	100.00%
Lamps Flux	6328.10 lm	Maximum value	294.20 cd/klm	Position	C=0.00 G=30.00	CG	Double Symmetrical

PERCENTAGE ISOCANDLES

Projection: SLI 4.4 Tight Tilting Angle:0°



Spread: 40.9° Narrow

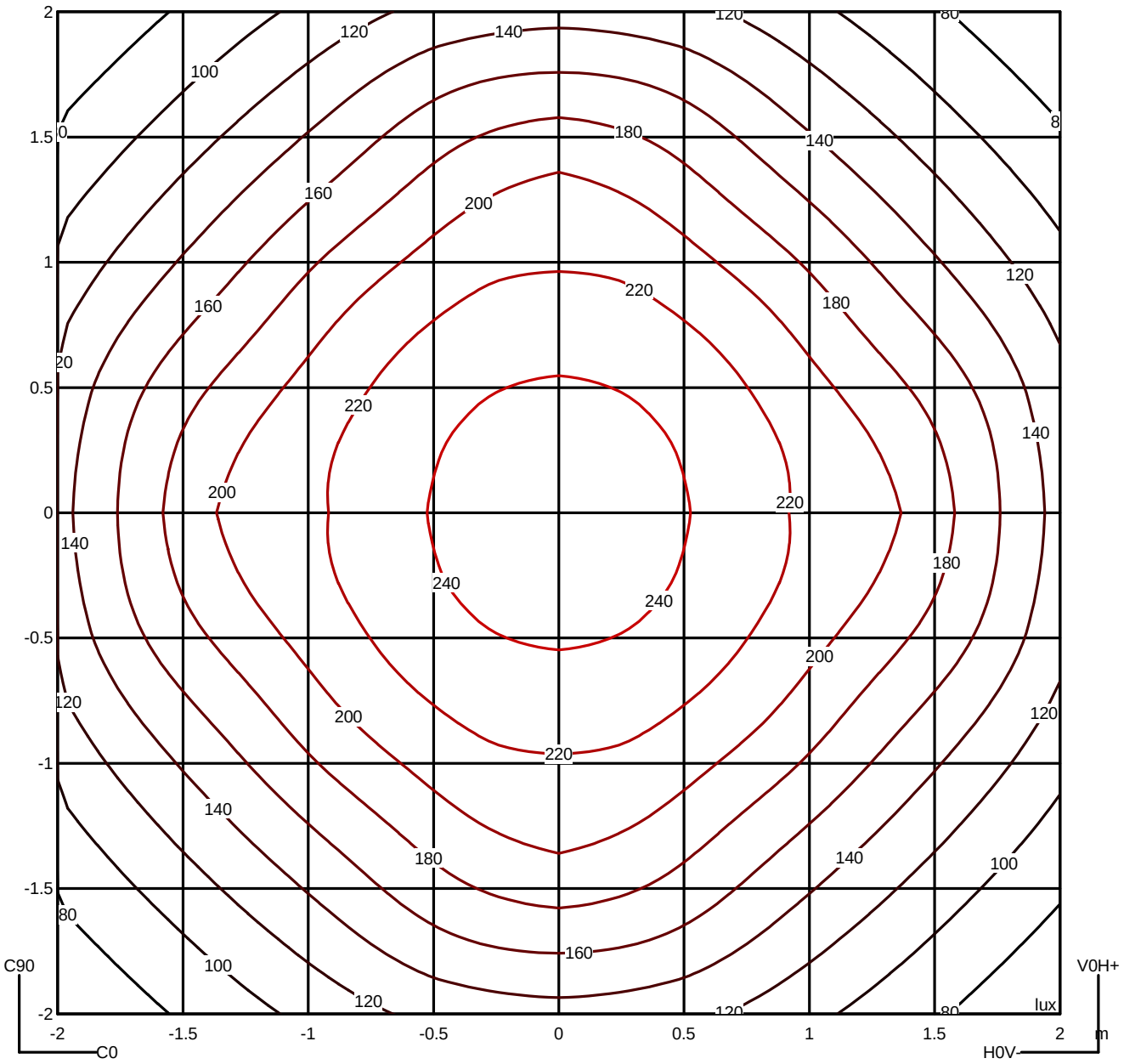
Throw: 30.9° Short

Luminaire
Code 60-9996-Z5-CL
Name CABEZAL PROUD
Measurem.
Code 60-9996-Z5-CL
Name CABEZAL PROUD

Luminaire Flux	6328.10 lm	Luminaire Power	92.28 W	Efficacy	68.57 lm/W	Efficiency	100.00%
Lamps Flux	6328.10 lm	Maximum value	294.20 cd/klm	Position	C=0.00 G=30.00	CG	Double Symmetrical

Isolux (Floor)

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



Luminaire
Code 60-9996-Z5-CL
Name CABEZAL PROUD
Measurem.
Code 60-9996-Z5-CL
Name CABEZAL PROUD

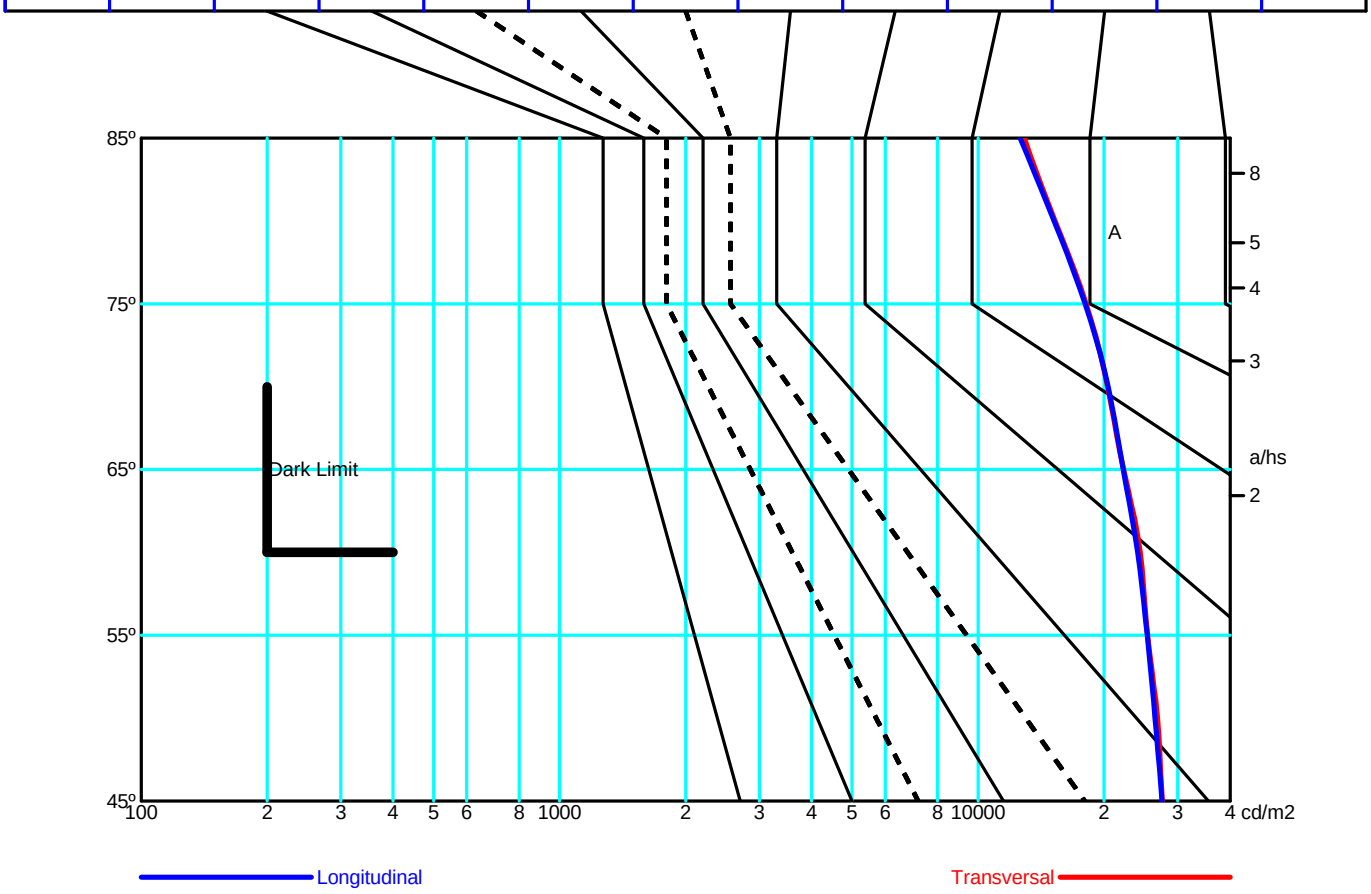
Luminaire Flux	6328.10 lm	Luminaire Power	92.28 W	Efficacy	68.57 lm/W	Efficiency	100.00%
Lamps Flux	6328.10 lm	Maximum value	294.20 cd/klm	Position	C=0.00 G=30.00	CG	Double Symmetrical

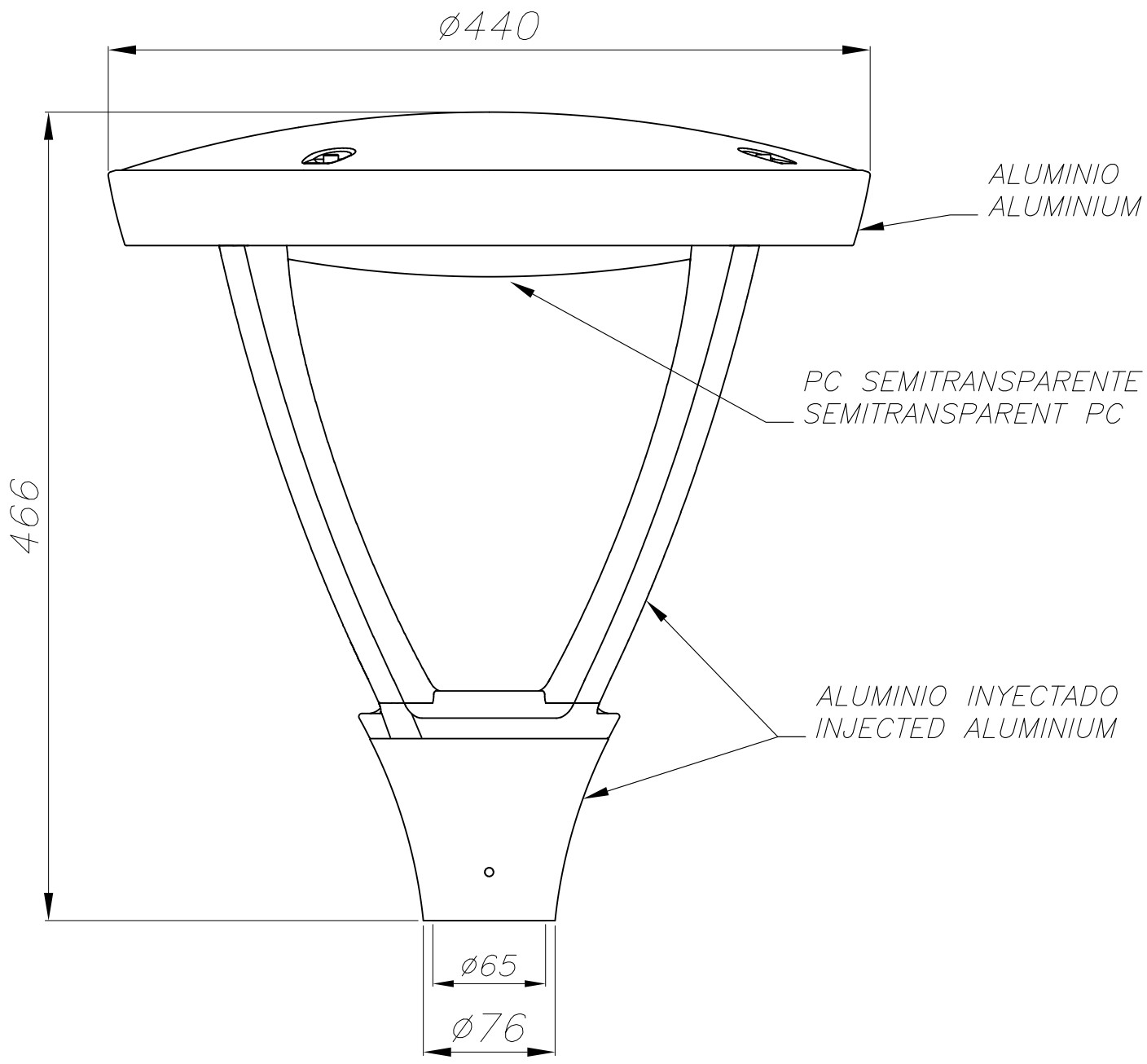
Average Luminance [cd/m²]

	45°	50°	55°	60°	65°	70°	75°	80°	85°	
0.0°	27561	26825	25414	24407	22271	20402	18123	15278	12899	---
90.0°	27514	26483	25346	24054	22223	20446	18021	15186	12607	---

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



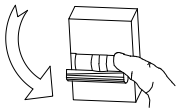

ø440
ALUMINIO
ALUMINIUM
PC SEMITRANSPARENTE
SEMITRANSPARENT PC
466
ALUMINIO INYECTADO
INJECTED ALUMINIUM
ø65
ø76

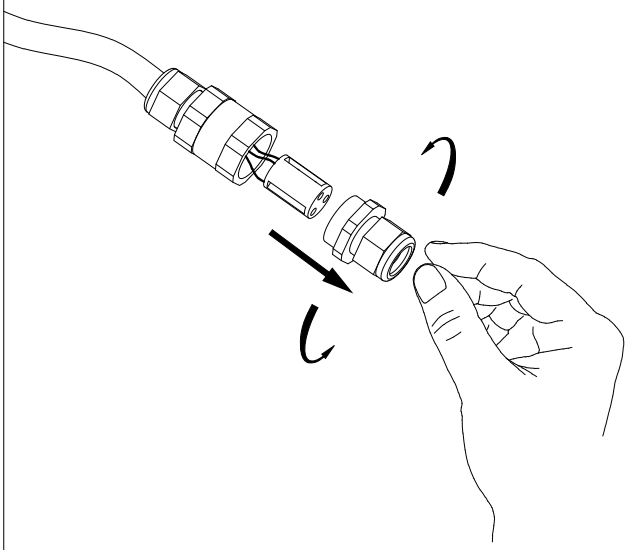
LEDS-C4

OUTDOOR

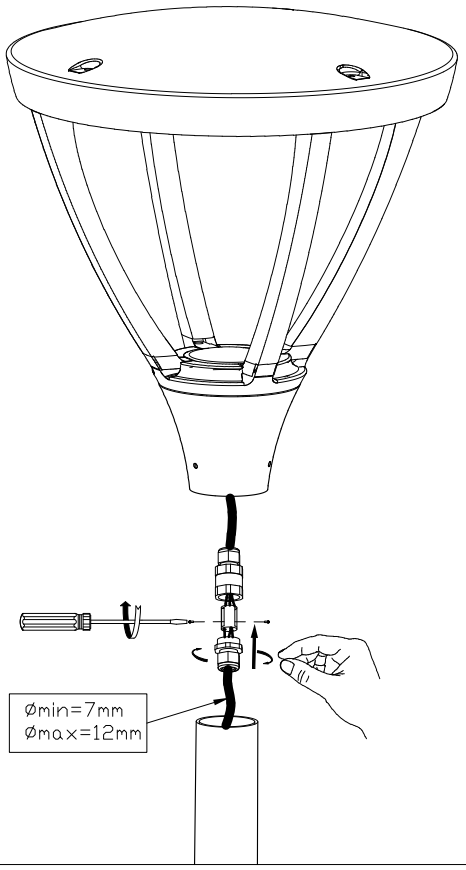
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①

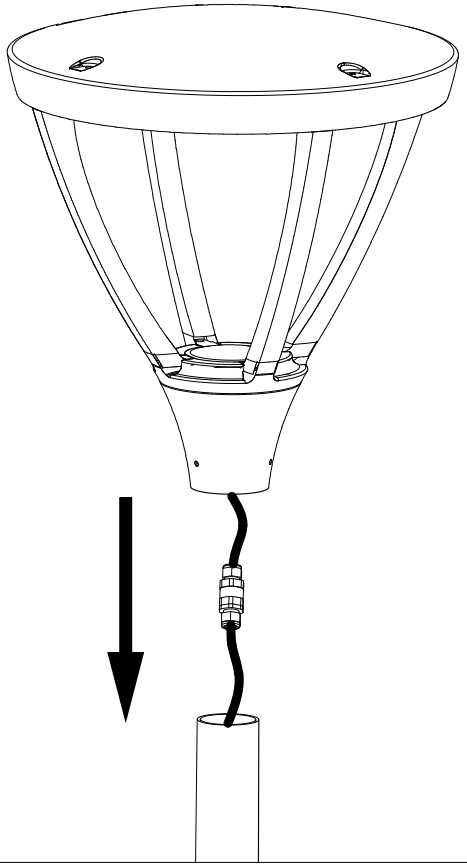


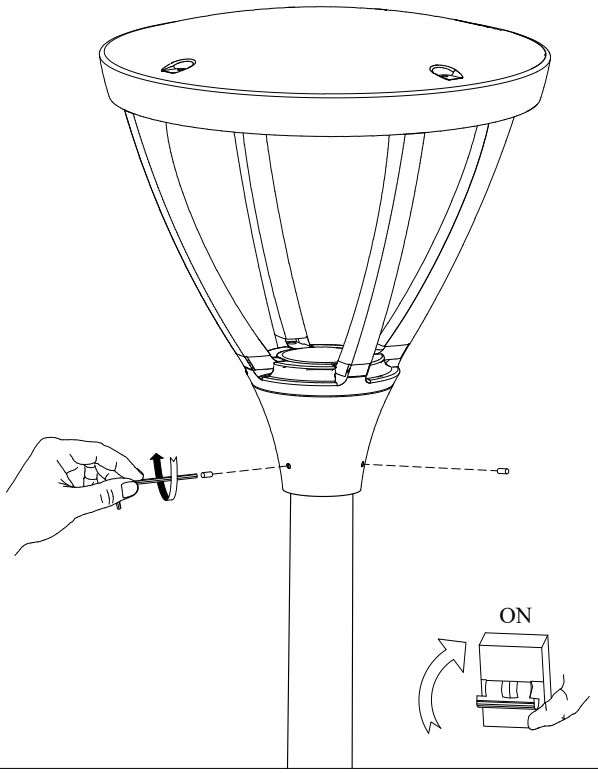


②



③





30-08-17