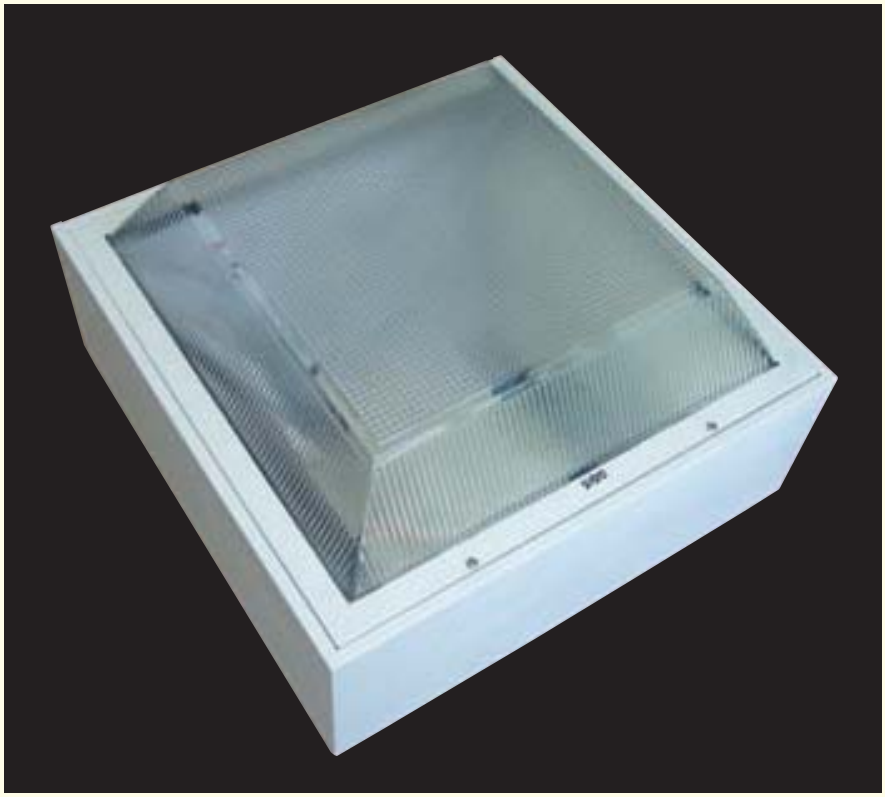
BIANCA SENIOR - DEEP DROP DIFFUSER



FEATURES

1 Neoprene rubber gasketed & hinged diffuser frame.

2 Internal specular aluminium reflectors which can be individually removed for control gear access

3 All control equipment is gear tray mounted. Gear trays are 1.2mm galvanized steel

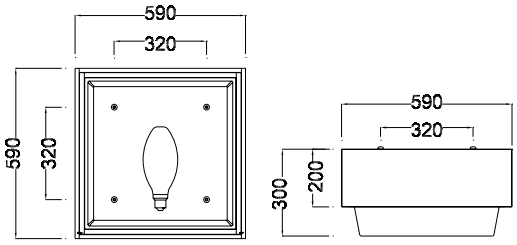
4 The luminaire is supplied standard with pre-wiring to allow future on site fitting of a standby relay & lamp. The luminaire may also be ordered complete with the standby relay & lamp. After switch-on, or momentary loss of supply voltage, HID lamps take several minutes before full luminous output, or re-strike is achieved. In some applications, it is important to have some degree of instant light. The function of the relay is to provide instant light from the tungsten halogen standby lamp until the HID lamp is approximately 70% - 75% of full output, at which time the relay switches off the standby lamp. This is also the case in the event of a momentary loss of supply voltage. Should the HID lamp fail to strike, the standby lamp will remain on indefinitely.

- Universal mounting. The luminaire may be either surface or recessed T/bar mounted. The luminaire may be recessed mounted in plaster ceilings with the use of the Davis PFW18 plaster frame.
- Powder coated white, 1mm thick steel body and diffuser frame
- E39 Lamp holder
- 25mm diameter rear cable entry hole
- UV stabilized polycarbonate deep drop diffuser
- Optional pyramid & shallow drop diffusers available
- Supplied with integral or optional remote control gear

APPLICATION

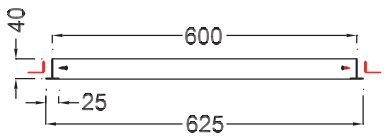
- Undercover car park entrances
- showrooms
- display areas
- multi-sports halls
- service stations

DIMENSIONS



PFW18 PLASTER FRAME FOR RECESSED MODELS

End view



cut out size 605 X 605

For mounting details see general catalogue page G1

Bianca Senior weight 16.5kg (maximum)

012C

Manufactured to standards – *IEC60598.1*
IEC60598.2.1
IEC60598.2.2
CISPR15

SIRIM CERTIFIED TO MS ISO 9002 REGISTRATION No: AR1248

DAVIS LIGHTING

"When your business depends on light."

BIANCA SENIOR - DEEP DROP DIFFUSER

Model No.	Type
BISU250MVD	Mercury Vapour
BISU400MVD	Mercury Vapour
BISU250MHD	Metal Halide
BISU400MHD	Metal Halide
BISU150SD	High Pressure Sodium
BISU250SD	High Pressure Sodium
BISU400SD	High Pressure Sodium

Single ended E39/E40 lamps
Stand by lamp Osram halolux 644801M 250w TH E27 coated

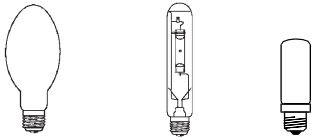
Options

P	Pyramid diffuser (Replaces D in model number)
S	Shallow drop diffuser (Replaces D in model number)
RC	Remote Control (first suffix after model number)
TH250	250w Tungsten Halogen standby lamp & relay (second suffix after model number)

Example: BISU400MVSRCTH250

Lamp types

Coated or clear elliptical | Clear tubular | Stand by lamp

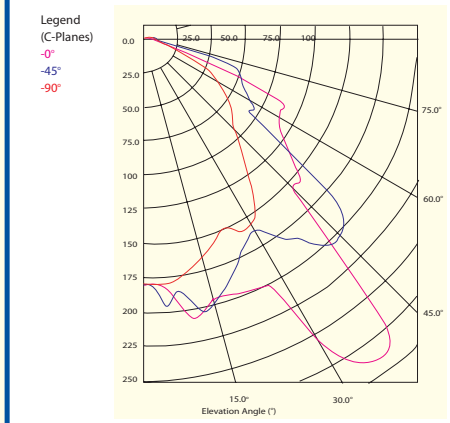


BIANCA SENIOR HPS

150w, 250w, 400w clear lamp
Photometric data applies to all three models

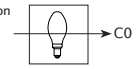
POLAR CURVE

cd/1000lms 1 Max 290cd in C0 plane at 35˚ gamma



C0 Plane
C45 Plane
C90 Plane

CIE Aiming Convention
C0 Plane across the lamp



LUMINOUS INTENSITY TABLE (cd/1000lms)

γ Gamma	C0	C22.5	C45	C67.5	C90
0.0	179	179	179	179	179
5.0	181	182	200	181	180
10.0	209	209	192	190	175
15.0	196	199	200	177	166
20.0	198	197	186	175	155
25.0	198	190	170	169	155
30.0	255	187	160	169	156
35.0	290	256	180	169	139
40.0	285	254	196	154	113
45.0	148	200	203	113	93
50.0	143	151	183	83	85
55.0	123	130	90	76	75
60.0	114	107	88	71	63
65.0	117	104	79	61	47
70.0	33	59	76	38	26
75.0	16	21	61	19	19
80.0	9	12	11	14	12
85.0	6	8	9	9	6
90.0	4	5	7	8	5

LUMINOUS OPENING: 500mm x 500mm

AVERAGE LUMINANCE TABLE

γ Gamma	C0	C45	C90
45.0	689	886	433
55.0	660	442	401
65.0	768	463	307
75.0	144	456	164
85.0	83	99	89

Luminance in cd/m²/1000lms

UTILISATION FACTOR TABLE – CIBSE TM5 (fine grid method min/ave 0.8)

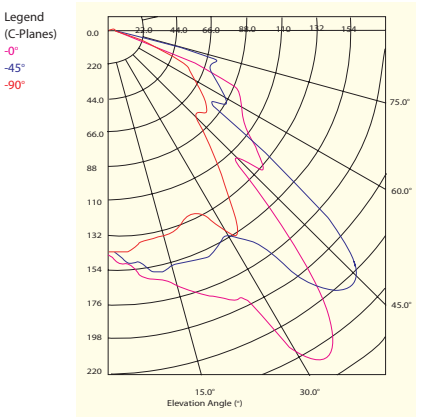
LOR: 64.4%				SHR NOM: 1.5 : 1.0				SHR MAX: 1.71 : 1.0			
Reflectance				Room Index (K)							
Ceiling	Walls	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	**0.50**	**0.20**	0.38	0.43	0.48	0.51	0.56	0.59	0.61	0.63	0.65
0.70	**0.30**	**0.20**	0.33	0.39	0.44	0.47	0.52	0.56	0.58	0.61	0.63
0.70	**0.10**	**0.20**	0.30	0.35	0.40	0.44	0.49	0.53	0.55	0.59	0.61
0.50	**0.50**	**0.20**	0.37	0.42	0.46	0.50	0.54	0.56	0.58	0.61	0.62
0.50	**0.30**	**0.20**	0.33	0.38	0.43	0.46	0.51	0.54	0.56	0.59	0.61
0.50	**0.10**	**0.20**	0.30	0.35	0.40	0.43	0.48	0.51	0.54	0.57	0.59
0.30	**0.50**	**0.20**	0.36	0.40	0.45	0.48	0.52	0.54	0.56	0.58	0.60
0.30	**0.30**	**0.20**	0.32	0.37	0.42	0.45	0.49	0.52	0.54	0.57	0.58
0.30	**0.10**	**0.20**	0.29	0.34	0.39	0.42	0.47	0.50	0.52	0.55	0.57
0.00	**0.00**	**0.00**	0.28	0.33	0.37	0.40	0.45	0.48	0.50	0.52	0.54
Distribution Factors		**Floor:**	0.28	0.33	0.37	0.40	0.45	0.48	0.50	0.52	0.54
		Walls:	0.34	0.29	0.24	0.21	0.17	0.14	0.12	0.09	0.08
		Ceiling:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Bz Numbers			4	4	4	4	4	4	4	4	4

BIANCA SENIOR METAL HALIDE

250w & 400w clear lamp
Photometric data applies to both models

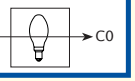
POLAR CURVE

cd/1000lms 1 Max 254cd in C0 plane at 35˚ gamma



C0 Plane
C45 Plane
C90 Plane

CIE Aiming Convention
C0 Plane across the lamp



LUMINOUS INTENSITY TABLE (cd/1000lms)

γ Gamma	C0	C22.5	C45	C67.5	C90
0.0	142	142	142	142	142
5.0	148	148	152	143	143
10.0	162	163	158	148	137
15.0	170	166	156	148	137
20.0	182	175	157	150	134
25.0	192	180	158	138	129
30.0	242	194	151	150	151
35.0	254	230	166	163	141
40.0	204	228	219	162	107
45.0	107	148	228	115	78
50.0	129	139	182	83	83
55.0	108	118	75	80	75
60.0	99	96	87	67	66
65.0	94	96	76	62	57
70.0	55	77	69	56	42
75.0	15	18	75	23	21
80.0	8	12	16	15	13
85.0	5	9	10	9	8
90.0	4	5	8	8	6

LUMINOUS OPENING: 500mm x 500mm

AVERAGE LUMINANCE TABLE

γ Gamma	C0	C45	C90
45.0	501	996	364
55.0	580	368	401
65.0	617	443	374
75.0	131	562	187
85.0	72	105	105

Luminance in cd/m²/1000lms

UTILISATION FACTOR TABLE – CIBSE TM5 (fine grid method min/ave 0.8)

LOR: 58.1%				SHR NOM: 1.75 : 1.0				SHR MAX: 1.78 : 1.0			
Reflectance				Room Index (K)							
Ceiling	Walls	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	**0.50**	**0.20**	N/A	0.42	0.46	0.49	0.53	0.56	0.58	0.60	0.62
0.70	**0.30**	**0.20**	N/A	0.38	0.42	0.45	0.50	0.53	0.55	0.58	0.60
0.70	**0.10**	**0.20**	N/A	0.35	0.39	0.42	0.47	0.50	0.53	0.56	0.58
0.50	**0.50**	**0.20**	N/A	0.41	0.44	0.47	0.51	0.54	0.55	0.58	0.59
0.50	**0.30**	**0.20**	N/A	0.37	0.41	0.44	0.48	0.51	0.53	0.56	0.57
0.50	**0.10**	**0.20**	N/A	0.34	0.38	0.41	0.46	0.49	0.51	0.54	0.56
0.30	**0.50**	**0.20**	N/A	0.39	0.43	0.46	0.49	0.51	0.53	0.55	0.56
0.30	**0.30**	**0.20**	N/A	0.36	0.40	0.43	0.47	0.49	0.51	0.54	0.55
0.30	**0.10**	**0.20**	N/A	0.34	0.38	0.41	0.45	0.48	0.50	0.52	0.54
0.00	**0.00**	**0.00**	N/A	0.32	0.36	0.39	0.43	0.45	0.47	0.50	0.51
Distribution Factors		**Floor:**	N/A	0.32	0.36	0.39	0.43	0.45	0.47	0.50	0.51
		Walls:	N/A	0.26	0.22	0.19	0.15	0.13	0.11	0.09	0.07
		Ceiling:	N/A	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Bz Numbers			N/A	4	4	4	4	4	4	4	4

BIANCA SENIOR - DEEP DROP DIFFUSER

BIANCA SENIOR IN STAND BY MODE

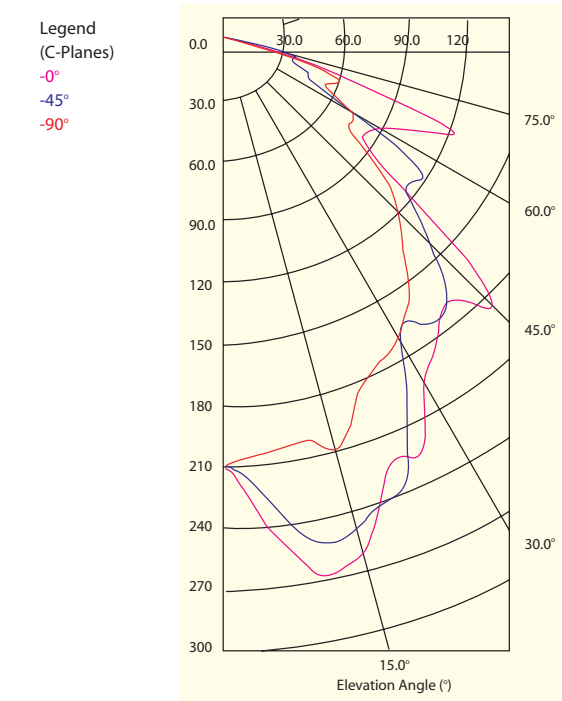
250w tungsten halogen coated lamp

Osram Halolux 644801M. Luminous flux 4000 lumens.

BIANCA SENIOR - DEEP DROP DIFFUSER

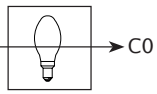
POLAR CURVE

cd/1000lms 1 Max 269cd in CO plane at 10 ° gamma



C0 Plane
C45 Plane
C90 Plane

CIE Aiming Convention
CO Plane across the lamp



LUMINOUS INTENSITY TABLE (cd/1000lms)					
γ Gamma	C0	C22.5	C45	C67.5	C90
0.0	209	209	209	209	209
5.0	241	236	225	209	203
10.0	269	261	251	223	199
15.0	262	256	249	233	208
20.0	227	228	240	221	186
25.0	227	219	212	216	175
30.0	193	195	169	189	169
35.0	181	178	172	176	158
40.0	168	177	170	155	135
45.0	189	156	140	153	121
50.0	109	134	114	122	96
55.0	82	82	121	83	72
60.0	86	76	71	75	73
65.0	106	77	44	55	52
70.0	95	77	36	45	63
75.0	29	26	38	29	31
80.0	14	12	17	15	16
85.0	10	8	7	11	10
90.0	4	5	4	5	5

LUMINOUS OPENING: 500mm x 500mm

AVERAGE LUMINANCE TABLE			
γ Gamma	C0	C45	C90
45.0	938	663	599
55.0	475	656	416
65.0	772	293	378
75.0	296	342	319
85.0	170	105	175
Luminance in cd/m²/1000lms			

UTILISATION FACTOR TABLE – CIBSE TM5 (fine grid method min/ave 0.8)

LOR: 53.4%			SHR NOM: 1.5 : 1.0					SHR MAX: 1.54 : 1.0			
Reflectance			Room Index (K)								
Ceiling	Walls	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	0.32	0.38	0.41	0.44	0.48	0.50	0.52	0.54	0.56
0.70	0.30	0.20	0.28	0.34	0.38	0.41	0.45	0.47	0.49	0.52	0.54
0.70	0.10	0.20	0.25	0.31	0.35	0.38	0.42	0.45	0.47	0.50	0.52
0.50	0.50	0.20	0.31	0.36	0.40	0.42	0.46	0.48	0.50	0.52	0.53
0.50	0.30	0.20	0.28	0.33	0.37	0.40	0.43	0.46	0.48	0.50	0.52
0.50	0.10	0.20	0.25	0.30	0.34	0.37	0.41	0.44	0.46	0.49	0.50
0.30	0.50	0.20	0.30	0.35	0.39	0.41	0.44	0.46	0.48	0.50	0.51
0.30	0.30	0.20	0.27	0.32	0.36	0.39	0.42	0.45	0.46	0.48	0.50
0.30	0.10	0.20	0.25	0.30	0.34	0.36	0.40	0.43	0.45	0.47	0.49
0.00	0.00	0.00	0.24	0.29	0.32	0.35	0.38	0.41	0.43	0.45	0.46
Distribution Factors		Floor:	0.24	0.29	0.32	0.35	0.38	0.41	0.43	0.45	0.46
		Walls:	0.29	0.24	0.21	18.00	0.14	0.12	0.10	0.08	0.07
		Ceiling:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Bz Numbers			4	4	4	4	4	4	4	4	4

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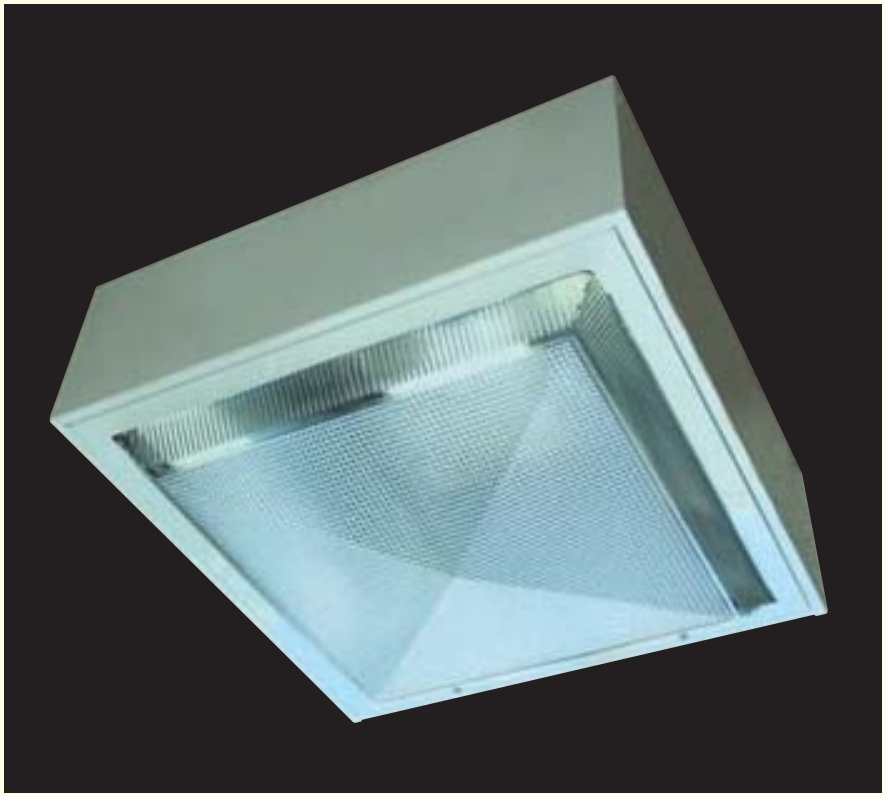
DAVIS LIGHTING

"When your business depends on light."

BIANCA SENIOR - PYRAMID DIFFUSER



FEATURES

1 Neoprene rubber gasketed & hinged diffuser frame.

2 Internal specular aluminium reflectors which can be individually removed for control gear access

3 All control equipment is gear tray mounted. Gear trays are 1.2mm galvanized steel

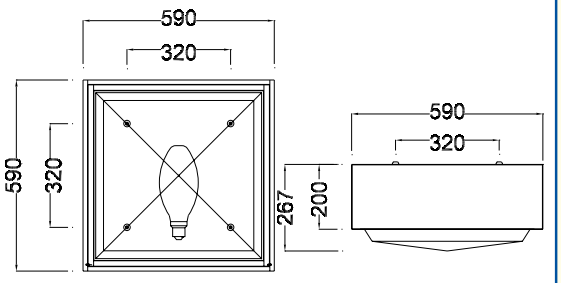
4 The luminaire is supplied standard with pre-wiring to allow future on site fitting of a standby relay & lamp. The luminaire may also be ordered complete with the standby relay & lamp. After switch-on, or momentary loss of supply voltage, HID lamps take several minutes before full luminous output, or re-strike is achieved. In some applications, it is important to have some degree of instant light. The function of the relay is to provide instant light from the tungsten halogen standby lamp until the HID lamp is approximately 70% - 75% of full output, at which time the relay switches off the standby lamp. This is also the case in the event of a momentary loss of supply voltage. Should the HID lamp fail to strike, the standby lamp will remain on indefinitely.

- Universal mounting. The luminaire may be either surface or recessed T/bar mounted. The luminaire may be recessed mounted in plaster ceilings with the use of the Davis PFW18 plaster frame.
- Powder coated white, 1mm thick steel body and diffuser frame
- E39 Lamp holder
- 25mm diameter rear cable entry hole
- UV stabilized polycarbonate pyramid diffuser
- Optional shallow & deep drop diffusers available
- Supplied with integral or optional remote control gear

APPLICATION

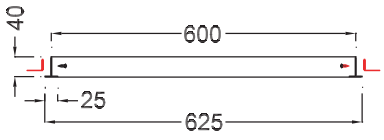
- Undercover car park entrances
- showrooms
- display areas
- multi-sports halls
- service stations

DIMENSIONS



PFW18 PLASTER FRAME FOR RECESSED MODELS

End view



cut out size 605 X 605

For mounting details see general catalogue page G1

Bianca Senior weight 16.5kg (maximum)

012A

Manufactured to standards – *IEC60598.1*
IEC60598.2.1
IEC60598.2.2
CISPR15

SIRIM CERTIFIED TO MS ISO 9002 REGISTRATION No: AR1248

DAVIS LIGHTING

"When your business depends on light."

BIANCA SENIOR - PYRAMID DIFFUSER

Model No.	Type
BISU250MVP	Mercury Vapour
BISU400MVP	Mercury Vapour
BISU250MHP	Metal Halide
BISU400MHP	Metal Halide
BISU150SP	High Pressure Sodium
BISU250SP	High Pressure Sodium
BISU400SP	High Pressure Sodium

Single ended E39/E40 lamps
Stand by lamp Osram halolux 644801M 250w TH E27 coated

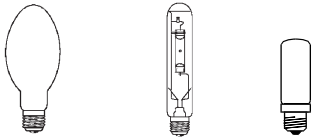
Options

S	Shallow drop diffuser (Replaces P in model number)
D	Deep drop diffuser (Replaces P in model number)
RC	Remote Control (first suffix after model number)
TH250	250w Tungsten Halogen standby lamp & relay (second suffix after model number)

Example: BISU400MVDRCTH250

Lamp types

Coated or clear elliptical | Clear tubular | Stand by lamp



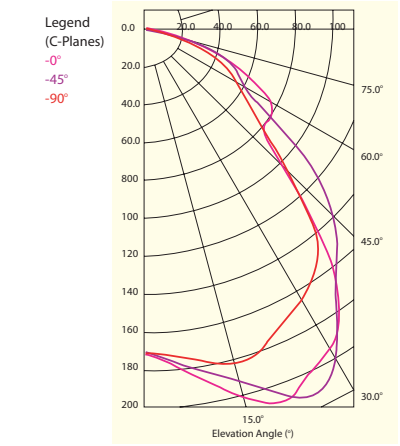
BIANCA SENIOR MERCURY VAPOUR, METAL HALIDE & HPS

400w coated lamp

Photometric data applies to all three models

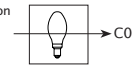
POLAR CURVE

cd/1000lms 1 Max 210cd in CO plane at 20˚ gamma



C0 Plane
C45 Plane
C90 Plane

CIE Aiming Convention
CO Plane across the lamp



LUMINOUS INTENSITY TABLE (cd/1000lms)

γ Gamma	C0	C22.5	C45	C67.5	C90
0.0	171	171	171	171	171
5.0	178	177	176	175	173
10.0	189	187	183	180	178
15.0	201	198	192	185	183
20.0	210	213	204	190	179
25.0	201	213	213	185	172
30.0	195	201	200	180	165
35.0	179	185	176	171	156
40.0	147	162	157	158	140
45.0	103	125	141	131	107
50.0	81	87	114	93	78
55.0	81	78	81	69	66
60.0	77	78	60	56	56
65.0	61	65	54	46	47
70.0	40	43	44	35	36
75.0	20	22	30	20	21
80.0	10	10	15	12	14
85.0	7	7	6	8	8
90.0	4	4	4	4	4

LUMINOUS OPENING: 500mm x 500mm

AVERAGE LUMINANCE TABLE

γ Gamma	C0	C45	C90
45.0	510	666	532
55.0	470	441	382
65.0	446	360	340
75.0	200	264	214
85.0	123	88	149

Luminance in cd/m²/1000lms

UTILISATION FACTOR TABLE – CIBSE TM5 (fine grid method min/ave 0.8)

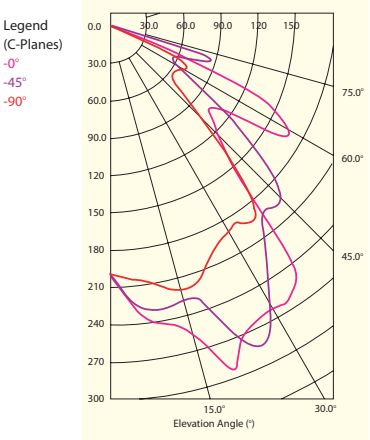
LOR: 52.4%				SHR NOM: 1.5 : 1.0				SHR MAX: 1.63 : 1.0			
Reflectance				Room Index (K)							
Ceiling	Walls	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	0.34	0.38	0.42	0.44	0.48	0.50	0.52	0.54	0.55
0.70	0.30	0.20	0.30	0.35	0.38	0.41	0.45	0.47	0.49	0.52	0.53
0.70	0.10	0.20	0.28	0.32	0.36	0.39	0.43	0.45	0.47	0.50	0.52
0.50	0.50	0.20	0.33	0.37	0.41	0.43	0.46	0.48	0.50	0.51	0.53
0.50	0.30	0.20	0.30	0.34	0.38	0.40	0.44	0.46	0.48	0.50	0.51
0.50	0.10	0.20	0.28	0.32	0.35	0.38	0.42	0.44	0.46	0.49	0.50
0.30	0.50	0.20	0.32	0.36	0.39	0.42	0.45	0.46	0.48	0.49	0.51
0.30	0.30	0.20	0.30	0.33	0.37	0.39	0.43	0.45	0.46	0.48	0.50
0.30	0.10	0.20	0.27	0.31	0.35	0.37	0.41	0.43	0.45	0.47	0.49
0.00	0.00	0.00	0.26	0.30	0.33	0.36	0.39	0.41	0.43	0.45	0.46
Distribution Factors		Floor:	0.26	0.30	0.33	0.36	0.39	0.41	0.43	0.45	0.46
		Walls:	0.26	0.22	0.19	0.16	0.13	0.11	0.09	0.07	0.06
		Ceiling:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Bz Numbers			3	3	3	3	3	3	3	3	3

BIANCA SENIOR METAL HALIDE

400w clear lamp

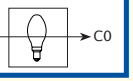
POLAR CURVE

cd/1000lms 1 Max 298cd in CO plane at 20˚ gamma



C0 Plane
C45 Plane
C90 Plane

CIE Aiming Convention
CO Plane across the lamp



LUMINOUS INTENSITY TABLE (cd/1000lms)

γ Gamma	C0	C22.5	C45	C67.5	C90
0.0	199	199	199	199	199
5.0	228	226	226	217	204
10.0	242	239	232	229	209
15.0	254	242	228	235	219
20.0	298	291	244	243	214
25.0	266	281	285	230	197
30.0	260	266	258	222	192
35.0	258	236	220	208	194
40.0	172	231	191	211	174
45.0	122	134	195	148	102
50.0	101	109	149	83	66
55.0	120	96	94	64	63
60.0	168	136	60	61	69
65.0	128	135	56	69	61
70.0	41	53	83	35	30
75.0	18	17	50	18	18
80.0	12	11	12	13	14
85.0	9	9	7	9	9
90.0	5	5	4	5	4

LUMINOUS OPENING: 500mm x 500mm

AVERAGE LUMINANCE TABLE

γ Gamma	C0	C45	C90
45.0	605	920	508
55.0	695	513	365
65.0	929	370	447
75.0	181	447	184
85.0	160	97	158

Luminance in cd/m²/1000lms

UTILISATION FACTOR TABLE – CIBSE TM5 (fine grid method min/ave 0.8)

LOR: 65.6%				SHR NOM: 1.5 : 1.0				SHR MAX: 1.6 : 1.0			
Reflectance				Room Index (K)							
Ceiling	Walls	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	0.43	0.48	0.52	0.55	0.60	0.62	0.64	0.67	0.69
0.70	0.30	0.20	0.38	0.43	0.48	0.51	0.56	0.59	0.62	0.65	0.67
0.70	0.10	0.20	0.35	0.40	0.45	0.48	0.53	0.57	0.59	0.63	0.65
0.50	0.50	0.20	0.42	0.46	0.51	0.54	0.58	0.60	0.62	0.64	0.66
0.50	0.30	0.20	0.38	0.42	0.47	0.50	0.55	0.58	0.60	0.62	0.64
0.50	0.10	0.20	0.35	0.39	0.44	0.47	0.52	0.55	0.58	0.61	0.63
0.30	0.50	0.20	0.41	0.45	0.49	0.52	0.56	0.58	0.60	0.62	0.63
0.30	0.30	0.20	0.37	0.42	0.46	0.49	0.53	0.56	0.58	0.60	0.62
0.30	0.10	0.20	0.34	0.39	0.43	0.47	0.51	0.54	0.56	0.59	0.61
0.00	0.00	0.00	0.33	0.37	0.42	0.45	0.49	0.51	0.53	0.56	0.58
Distribution Factors		Floor:	0.33	0.37	0.42	0.45	0.49	0.51	0.53	0.56	0.58
		Walls:	0.32	0.28	0.23	0.20	0.16	0.13	0.12	0.09	0.07
		Ceiling:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Bz Numbers			3	3	3	3	3	3	3	3	3

BIANCA SENIOR - PYRAMID DIFFUSER

BIANCA SENIOR IN STAND BY MODE

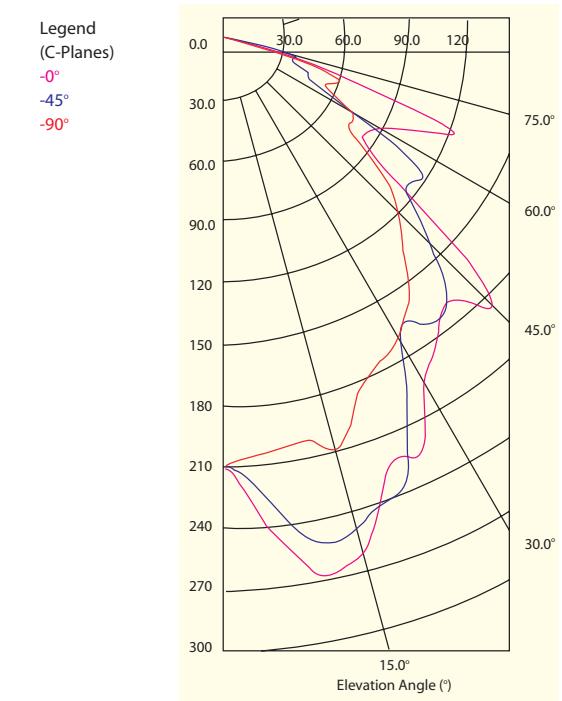
250w tungsten halogen coated lamp

Osram Halolux 644801M. Luminous flux 4000 lumens.

BIANCA SENIOR - PYRAMID DIFFUSER

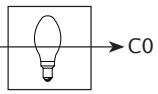
POLAR CURVE

cd/1000lms 1 Max 269cd in CO plane at 10 ° gamma



C0 Plane
C45 Plane
C90 Plane

CIE Aiming Convention
CO Plane across the lamp



LUMINOUS INTENSITY TABLE (cd/1000lms)					
γ Gamma	C0	C22.5	C45	C67.5	C90
0.0	209	209	209	209	209
5.0	241	236	225	209	203
10.0	269	261	251	223	199
15.0	262	256	249	233	208
20.0	227	228	240	221	186
25.0	227	219	212	216	175
30.0	193	195	169	189	169
35.0	181	178	172	176	158
40.0	168	177	170	155	135
45.0	189	156	140	153	121
50.0	109	134	114	122	96
55.0	82	82	121	83	72
60.0	86	76	71	75	73
65.0	106	77	44	55	52
70.0	95	77	36	45	63
75.0	29	26	38	29	31
80.0	14	12	17	15	16
85.0	10	8	7	11	10
90.0	4	5	4	5	5

LUMINOUS OPENING: 500mm x 500mm

AVERAGE LUMINANCE TABLE			
γ Gamma	C0	C45	C90
45.0	938	663	599
55.0	475	656	416
65.0	772	293	378
75.0	296	342	319
85.0	170	105	175

Luminance in cd/m²/1000lms

UTILISATION FACTOR TABLE – CIBSE TM5 (fine grid method min/ave 0.8)

LOR: 53.4%			SHR NOM: 1.5 : 1.0					SHR MAX: 1.54 : 1.0			
Reflectance			Room Index (K)								
Ceiling	Walls	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	0.32	0.38	0.41	0.44	0.48	0.50	0.52	0.54	0.56
0.70	0.30	0.20	0.28	0.34	0.38	0.41	0.45	0.47	0.49	0.52	0.54
0.70	0.10	0.20	0.25	0.31	0.35	0.38	0.42	0.45	0.47	0.50	0.52
0.50	0.50	0.20	0.31	0.36	0.40	0.42	0.46	0.48	0.50	0.52	0.53
0.50	0.30	0.20	0.28	0.33	0.37	0.40	0.43	0.46	0.48	0.50	0.52
0.50	0.10	0.20	0.25	0.30	0.34	0.37	0.41	0.44	0.46	0.49	0.50
0.30	0.50	0.20	0.30	0.35	0.39	0.41	0.44	0.46	0.48	0.50	0.51
0.30	0.30	0.20	0.27	0.32	0.36	0.39	0.42	0.45	0.46	0.48	0.50
0.30	0.10	0.20	0.25	0.30	0.34	0.36	0.40	0.43	0.45	0.47	0.49
0.00	0.00	0.00	0.24	0.29	0.32	0.35	0.38	0.41	0.43	0.45	0.46
Distribution Factors		Floor:	0.24	0.29	0.32	0.35	0.38	0.41	0.43	0.45	0.46
		Walls:	0.29	0.24	0.21	18.00	0.14	0.12	0.10	0.08	0.07
		Ceiling:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Bz Numbers			4	4	4	4	4	4	4	4	4

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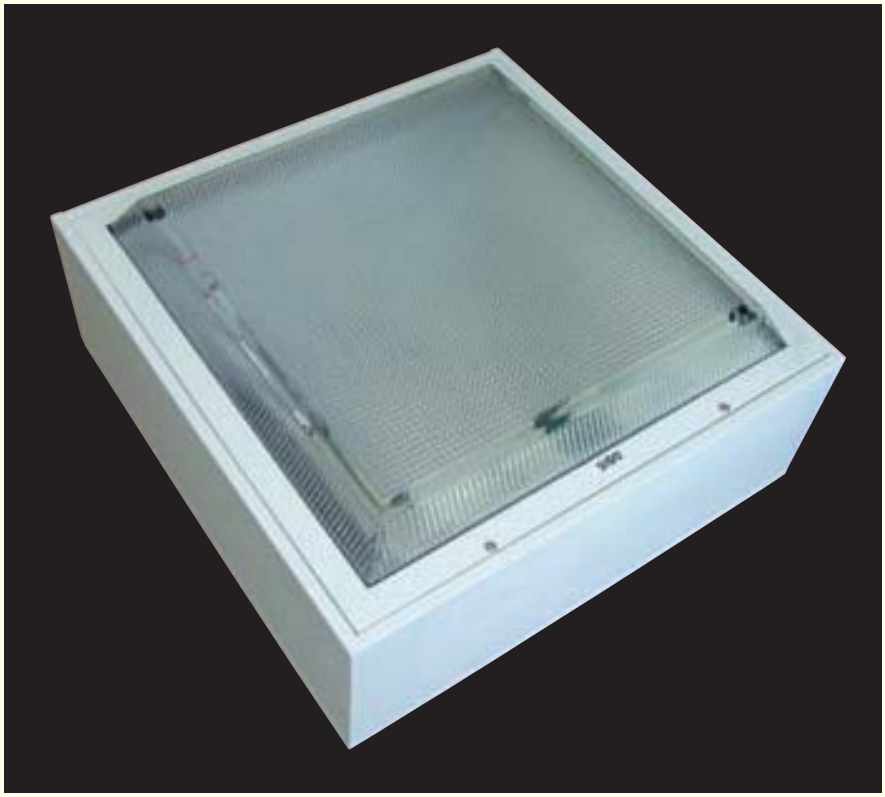
DAVIS LIGHTING

"When your business depends on light."

BIANCA SENIOR - SHALLOW DROP DIFFUSER



FEATURES

1 Neoprene rubber gasketed & hinged diffuser frame.

2 Internal specular aluminium reflectors which can be individually removed for control gear access

3 All control equipment is gear tray mounted. Gear trays are 1.2mm galvanized steel

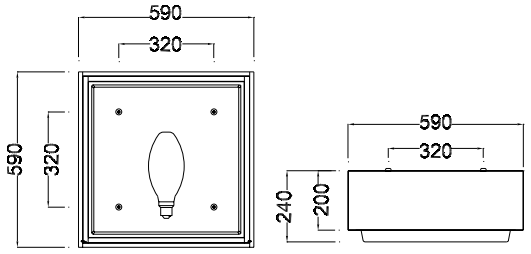
4 The luminaire is supplied standard with pre-wiring to allow future on site fitting of a standby relay & lamp. The luminaire may also be ordered complete with the standby relay & lamp. After switch-on, or momentary loss of supply voltage, HID lamps take several minutes before full luminous output, or re-strike is achieved. In some applications, it is important to have some degree of instant light. The function of the relay is to provide instant light from the tungsten halogen standby lamp until the HID lamp is approximately 70% - 75% of full output, at which time the relay switches off the standby lamp. This is also the case in the event of a momentary loss of supply voltage. Should the HID lamp fail to strike, the standby lamp will remain on indefinitely.

- Universal mounting. The luminaire may be either surface or recessed T/bar mounted. The luminaire may be recessed mounted in plaster ceilings with the use of the Davis PFW18 plaster frame.
- Powder coated white, 1mm thick steel body and diffuser frame
- E39 Lamp holder
- 25mm diameter rear cable entry hole
- UV stabilized polycarbonate shallow drop diffuser
- Optional pyramid & deep drop diffusers available
- Supplied with integral or optional remote control gear

APPLICATION

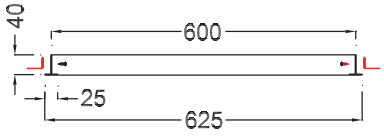
- Undercover car park entrances
- showrooms
- display areas
- multi-sports halls
- service stations

DIMENSIONS



PFW18 PLASTER FRAME FOR RECESSED MODELS

End view



cut out size 605 X 605

For mounting details see general catalogue page G1

Bianca Senior weight 16.5kg (maximum)

BIANCA SENIOR - SHALLOW DROP DIFFUSER

012B

Manufactured to standards – *IEC60598.1*
IEC60598.2.1
IEC60598.2.2
CISPR15

SIRIM CERTIFIED TO MS ISO 9002 REGISTRATION No: AR1248

DAVIS LIGHTING

"When your business depends on light."

Model No.	Type
BISU250MVS	Mercury Vapour
BISU400MVS	Mercury Vapour
BISU250MHS	Metal Halide
BISU400MHS	Metal Halide
BISU150SS	High Pressure Sodium
BISU250SS	High Pressure Sodium
BISU400SS	High Pressure Sodium

Single ended E39/E40 lamps
Stand by lamp Osram halolux 644801M 250w TH E27 coated

Options

P	Pyramid diffuser (Replaces S in model number)
D	Deep drop diffuser (Replaces S in model number)
RC	Remote Control (first suffix after model number)
TH250	250w Tungsten Halogen standby lamp & relay (second suffix after model number)

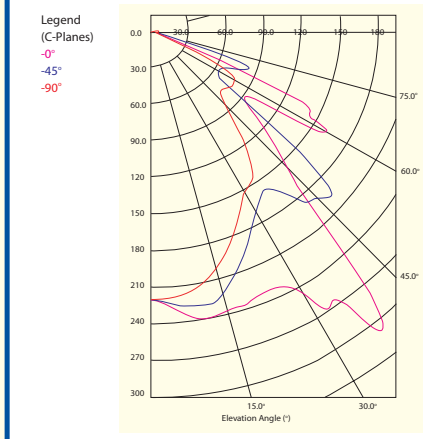
Example: BISU400MVDRCTH250

BIANCA SENIOR HPS

150w, 250w, 400w clear lamp
Photometric data applies to all three models

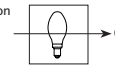
POLAR CURVE

cd/1000lms 1 Max 285cd in C0 plane at 40° gamma



C0 Plane
C45 Plane
C90 Plane

CIE Aiming Convention
C0 Plane across the lamp



LUMINOUS INTENSITY TABLE (cd/1000lms)					
γ Gamma	C0	C22.5	C45	C67.5	C90
0.0	219	219	219	219	219
5.0	227	227	225	221	218
10.0	238	238	229	219	212
15.0	237	236	222	211	202
20.0	236	224	207	199	186
25.0	232	213	187	179	168
30.0	248	203	171	165	151
35.0	258	237	158	172	145
40.0	285	261	175	163	120
45.0	159	141	190	104	84
50.0	121	102	188	69	72
55.0	91	92	72	71	78
60.0	178	99	64	81	80
65.0	148	125	66	70	55
70.0	32	42	87	34	26
75.0	18	20	50	18	18
80.0	12	13	14	15	16
85.0	9	9	8	10	10
90.0	3	4	4	4	3

LUMINOUS OPENING: 500mm x 500mm

AVERAGE LUMINANCE TABLE			
γ Gamma	C0	C45	C90
45.0	808	931	426
55.0	548	414	471
65.0	1141	473	424
75.0	201	500	201
85.0	187	133	207

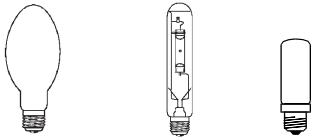
Luminance in cd/m²/1000lms

UTILISATION FACTOR TABLE – CIBSE TM5 (fine grid method min/ave 0.8)

LOR: 63.7%				SHR NOM: 1.5 : 1.0				SHR MAX: 1.51 : 1.0			
Reflectance				Room Index (K)							
Ceiling	Walls	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	0.36	0.42	0.47	0.50	0.55	0.58	0.60	0.63	0.65
0.70	0.30	0.20	0.31	0.38	0.43	0.46	0.51	0.55	0.57	0.61	0.63
0.70	0.10	0.20	0.28	0.34	0.39	0.43	0.48	0.52	0.55	0.58	0.61
0.50	0.50	0.20	0.35	0.41	0.45	0.49	0.53	0.56	0.58	0.60	0.62
0.50	0.30	0.20	0.31	0.37	0.42	0.45	0.50	0.53	0.55	0.58	0.60
0.50	0.10	0.20	0.28	0.34	0.38	0.42	0.47	0.51	0.53	0.57	0.59
0.30	0.50	0.20	0.34	0.40	0.44	0.47	0.51	0.54	0.55	0.58	0.59
0.30	0.30	0.20	0.30	0.36	0.41	0.44	0.48	0.51	0.53	0.56	0.58
0.30	0.10	0.20	0.27	0.33	0.38	0.41	0.46	0.49	0.52	0.55	0.57
0.00	0.00	0.00	0.26	0.32	0.36	0.39	0.44	0.47	0.49	0.52	0.54
Distribution Factors		Floor:	0.26	0.32	0.36	0.39	0.44	0.47	0.49	0.52	0.54
		Walls:	0.35	0.30	0.25	0.22	0.18	0.15	0.12	0.10	0.08
		Ceiling:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Bz Numbers			5	4	4	4	4	4	4	4	4

Lamp types

Coated or clear elliptical | Clear tubular | Stand by lamp

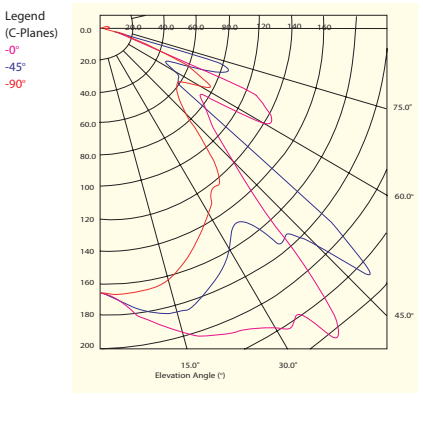


BIANCA SENIOR METAL HALIDE

250w & 400w clear lamp
Photometric data applies to both models

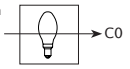
POLAR CURVE

cd/1000lms 1 Max 226cd in C0 plane at 40° gamma



C0 Plane
C45 Plane
C90 Plane

CIE Aiming Convention
C0 Plane across the lamp



LUMINOUS INTENSITY TABLE (cd/1000lms)					
γ Gamma	C0	C22.5	C45	C67.5	C90
0.0	164	164	164	164	164
5.0	174	175	173	169	167
10.0	187	188	181	172	166
15.0	197	195	183	171	163
20.0	204	199	180	167	154
25.0	208	196	172	157	145
30.0	216	189	160	146	133
35.0	213	198	147	147	120
40.0	226	231	179	198	114
45.0	112	121	189	101	74
50.0	89	85	197	65	61
55.0	76	77	63	61	57
60.0	121	73	55	56	68
65.0	112	114	41	81	69
70.0	49	76	77	57	45
75.0	17	19	74	19	18
80.0	11	12	14	15	15
85.0	8	9	7	10	10
90.0	2	4	4	4	2

LUMINOUS OPENING: 500mm x 500mm

AVERAGE LUMINANCE TABLE			
γ Gamma	C0	C45	C90
45.0	572	928	376
55.0	461	360	347
65.0	864	295	530
75.0	189	741	200
85.0	169	126	212

Luminance in cd/m²/1000lms

UTILISATION FACTOR TABLE – CIBSE TM5 (fine grid method min/ave 0.8)

LOR: 55.3%				SHR NOM: 1.5 : 1.0				SHR MAX: 1.54 : 1.0			
Reflectance				Room Index (K)							
Ceiling	Walls	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	0.32	0.38	0.42	0.45	0.49	0.52	0.54	0.56	0.58
0.70	0.30	0.20	0.28	0.33	0.37	0.41	0.45	0.49	0.51	0.54	0.56
0.70	0.10	0.20	0.24	0.30	0.34	0.38	0.42	0.46	0.48	0.52	0.54
0.50	0.50	0.20	0.31	0.36	0.40	0.43	0.47	0.49	0.51	0.54	0.55
0.50	0.30	0.20	0.27	0.32	0.37	0.40	0.44	0.47	0.49	0.52	0.54
0.50	0.10	0.20	0.24	0.30	0.34	0.37	0.41	0.45	0.47	0.50	0.52
0.30	0.50	0.20	0.30	0.35	0.39	0.41	0.45	0.48	0.49	0.51	0.53
0.30	0.30	0.20	0.27	0.32	0.36	0.39	0.43	0.45	0.47	0.50	0.52
0.30	0.10	0.20	0.24	0.29	0.33	0.36	0.41	0.44	0.46	0.49	0.50
0.00	0.00	0.00	0.23	0.28	0.31	0.34	0.38	0.41	0.43	0.46	0.47
Distribution Factors		Floor:	0.23	0.28	0.31	0.34	0.38	0.41	0.43	0.46	0.47
		Walls:	0.33	0.28	0.24	0.21	0.17	0.14	0.12	0.09	0.08
		Ceiling:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Bz Numbers			5	5	5	5	5	4	4	4	4

BIANCA SENIOR - SHALLOW DROP DIFFUSER

BIANCA SENIOR - SHALLOW DROP DIFFUSER

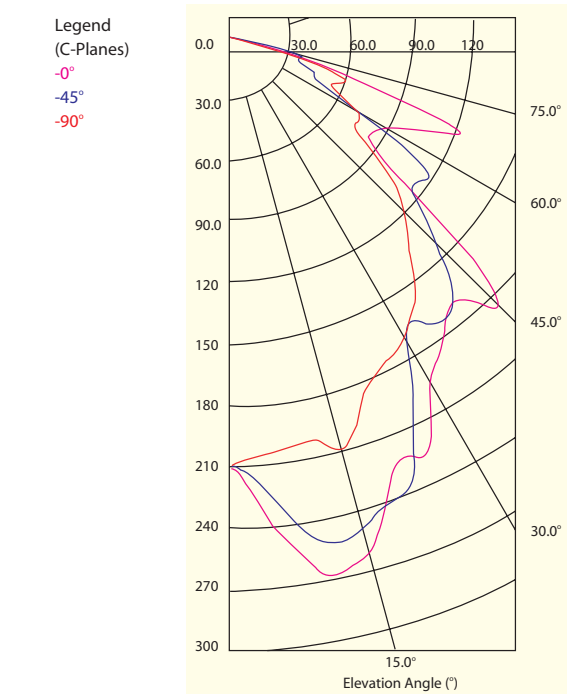
BIANCA SENIOR IN STAND BY MODE

250w tungsten halogen coated lamp

Osram Halolux 644801M. Luminous flux 4000 lumens.

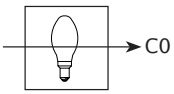
POLAR CURVE

cd/1000lms 1 Max 269cd in CO plane at 10° gamma



C0 Plane
C45 Plane
C90 Plane

CIE Aiming Convention
CO Plane across the lamp



LUMINOUS INTENSITY TABLE (cd/1000lms)					
γ Gamma	C0	C22.5	C45	C67.5	C90
0.0	209	209	209	209	209
5.0	241	236	225	209	203
10.0	269	261	251	223	199
15.0	262	256	249	233	208
20.0	227	228	240	221	186
25.0	227	219	212	216	175
30.0	193	195	169	189	169
35.0	181	178	172	176	158
40.0	168	177	170	155	135
45.0	189	156	140	153	121
50.0	109	134	114	122	96
55.0	82	82	121	83	72
60.0	86	76	71	75	73
65.0	106	77	44	55	52
70.0	95	77	36	45	63
75.0	29	26	38	29	31
80.0	14	12	17	15	16
85.0	10	8	7	11	10
90.0	4	5	4	5	5

LUMINOUS OPENING: 500mm x 500mm

AVERAGE LUMINANCE TABLE			
γ Gamma	C0	C45	C90
45.0	938	663	599
55.0	475	656	416
65.0	772	293	378
75.0	296	342	319
85.0	170	105	175

Luminance in cd/m²/1000lms

UTILISATION FACTOR TABLE – CIBSE TM5 (fine grid method min/ave 0.8)

LOR: 53.4%			SHR NOM: 1.5 : 1.0					SHR MAX: 1.54 : 1.0			
Reflectance			Room Index (K)								
Ceiling	Walls	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	0.32	0.38	0.41	0.44	0.48	0.50	0.52	0.54	0.56
0.70	0.30	0.20	0.28	0.34	0.38	0.41	0.45	0.47	0.49	0.52	0.54
0.70	0.10	0.20	0.25	0.31	0.35	0.38	0.42	0.45	0.47	0.50	0.52
0.50	0.50	0.20	0.31	0.36	0.40	0.42	0.46	0.48	0.50	0.52	0.53
0.50	0.30	0.20	0.28	0.33	0.37	0.40	0.43	0.46	0.48	0.50	0.52
0.50	0.10	0.20	0.25	0.30	0.34	0.37	0.41	0.44	0.46	0.49	0.50
0.30	0.50	0.20	0.30	0.35	0.39	0.41	0.44	0.46	0.48	0.50	0.51
0.30	0.30	0.20	0.27	0.32	0.36	0.39	0.42	0.45	0.46	0.48	0.50
0.30	0.10	0.20	0.25	0.30	0.34	0.36	0.40	0.43	0.45	0.47	0.49
0.00	0.00	0.00	0.24	0.29	0.32	0.35	0.38	0.41	0.43	0.45	0.46
Distribution Factors		Floor:	0.24	0.29	0.32	0.35	0.38	0.41	0.43	0.45	0.46
		Walls:	0.29	0.24	0.21	18.00	0.14	0.12	0.10	0.08	0.07
		Ceiling:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Bz Numbers			4	4	4	4	4	4	4	4	4

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