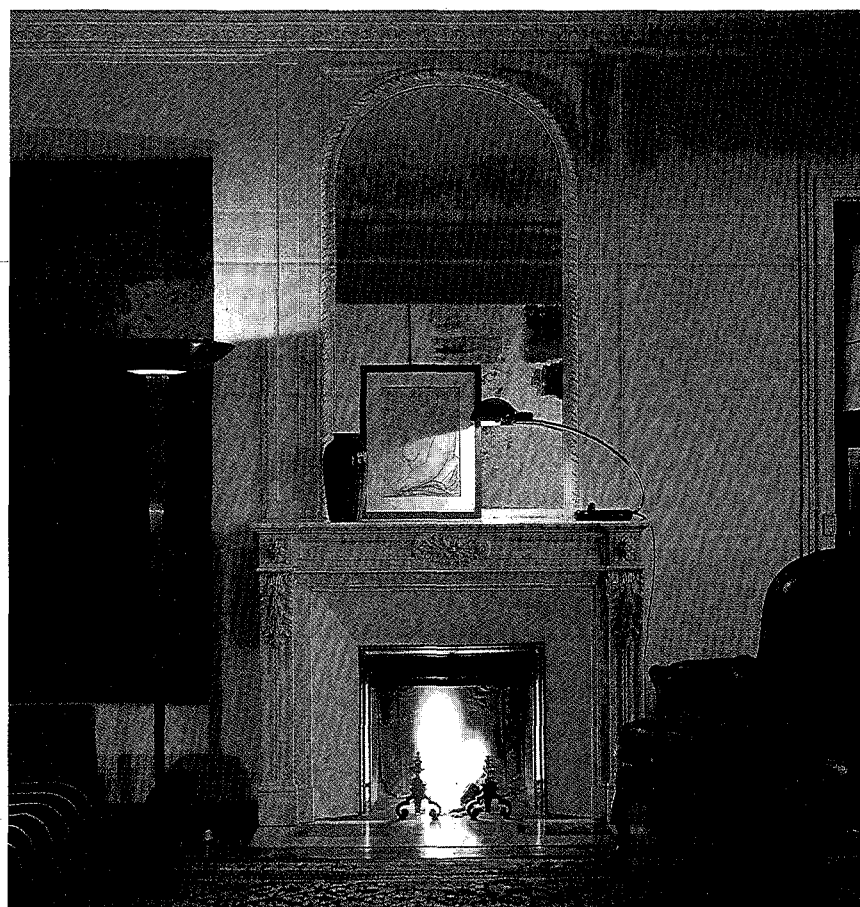


THE LIGHTING BOOK

A Complete Guide To Lighting Your Home



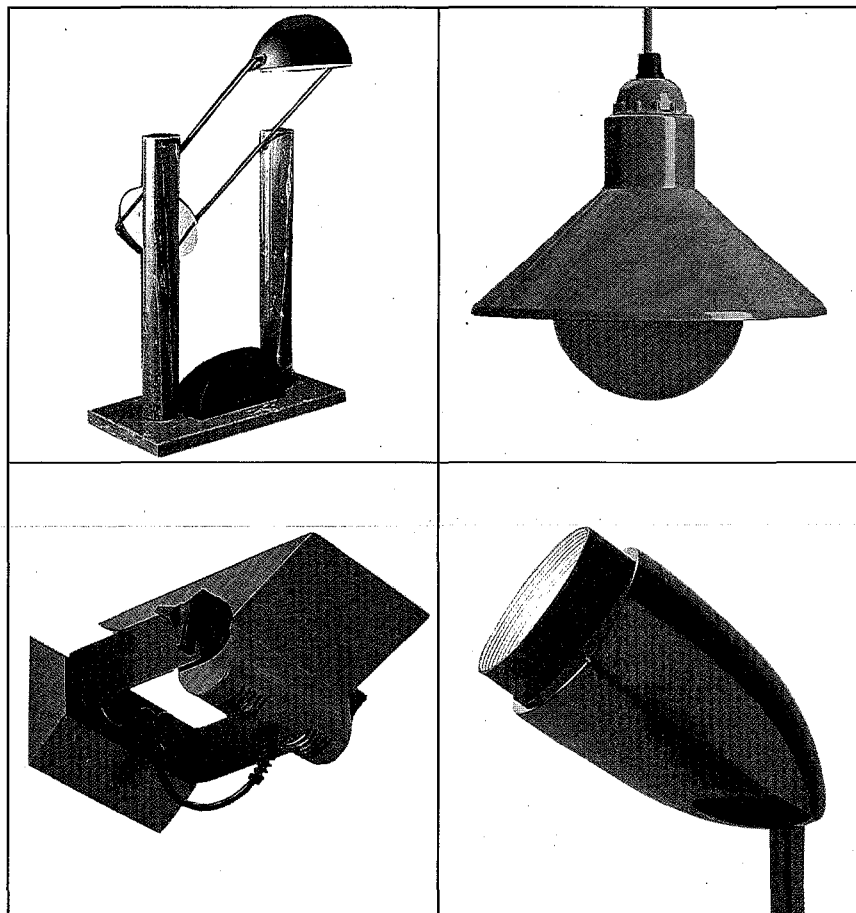
Deyan Sudjic

MITCHELL BEAZLEY



Contents

Introduction	6
Lighting Basics	8
The Nature of Light	10
Measuring Light	12
Light and Our Surroundings	14
Light and Our Eyes	16
Light, Form and Texture	18
Lighting Psychology	20
The History of Lighting	22
Sources of Light	26
Choosing the Light Source	28
The Tungsten Bulb	29
Tungsten-halogen Lamps	32
The Fluorescent Tube	33
Miniature Fluorescents	34
Other Lamp Types	35
The Hardware	36
Choosing the Fitting	38
Ceiling-mounted Downlighters	48
Spotlights	52
Pendants	58
Fluorescent Fittings	66
Wall Lights	68
Table Lights and Task Lights	76
Floor Lights	86
Oddities	94
Exterior Lights	96
The Art of Lighting	100
Task Lighting	102
Background Lighting	104



The Decorative Approach	106
Highlighting Walls	108
Creating a Style	110
Display Lighting	112
Lighting for Plants and Flowers	116
Fittings as Furniture	118
Planning a Scheme	120
Making Do	124
Room by Room	126
Entrances and Passageways	128
The Kitchen	132
The Bathroom	138
Living Rooms	142
Bedrooms	148
The Dining Room	154
Children's Rooms	160
Studies and Libraries	162
Gardens, Patios and Pools	164
Practicalities	168
Electricity in the Home	170
Materials and Techniques	172
Plug-in Lighting	174
Fixed Lighting	176
Cleaning and Maintenance	182
Employing Others	182
Glossary	183
Common Lamp Types	185
Useful Addresses	187
Index	189
Acknowledgments	192

Page numbers in **bold** refer to main entries. Page numbers in *italics* refer to illustrations.

A

"Abat-Jour" (Tronconi) 83
 "Adonis" (Luci) 92
 "Aerial" (One-Off) 94
 "Aeroplane" (Sunset Ceramics) 94
 Age, lighting and 103
 "Ala" (Luci) 75
 "Alola" (Skipper) 59
 Alcove lighting 54, 79, 114, 128, 158
 "Alesia" (Artemide) 63
 "Alfiere" (Stilnovo) 85
 "Alice" (Controluce) 44
 "Alistro Morsetto" (Artemide) 82
 Anglepoise 76, 82, 67, 77, 80
 "Aquilone" (Eleusi) 62
 Arad, Ron 94
 Architects 124
 employing 182
 "Arco" (Flos) 43
 "Arcobalena" (Cil) 43
 "Area" (Artemide) 63
 Armstrong, Lord 22
 Arnaldi 65, 72, 80, 81
 Aroldi, D. and C. 81
 Arteluce
 floor lights 86, 125
 fluorescent fittings 67
 pendants 62, 64, 65
 spotlights 57
 task lights 75, 80, 81
 wall lights 72, 75
 Artemide 47
 floor lights 93, 148
 pendants 63
 table lights 95
 task lights 76, 82, 148
 wall lights 74
 Asahara Sigheaki 93
 "Aster" (Luci) 67
 Asti, Sergio 92, 93, 95
 Aulenti, Gae 65, 75

B

Background lighting 86, 104-105, 104-105, 142
 from uplighters 86
 Baffles 39, 48, 39
 on exterior lights 96
 on spotlights 54, 137
 Barbieri, Raul 63, 84, 90, 91, 93
 Barndors 96, 112
 Bathrooms 71, 138-41, 50, 51, 70, 138-41
 safety regulations 54, 138, 170

Baulmann 44
 Bayonet cap 24, 29
 Bedrooms 30, 148-153, 78
 Bedside lights 68, 105, 119, 124
 wiring for 180
 Bega 164
 Bellini, Mario 63
 Beretta, R. 75
 Best and Lloyd 81
 "Bestlite" 81
 "Bianca" (Tronconi) 44
 "Bikini" (Tronconi) 47
 "Bikoni" (Tronconi) 47
 Bilumen
 pendants 43
 table lights 43
 task lights 80
 "Bizzy" (Cil) 45
 Blown-glass reflector lamps 30, 30
 Boeri, Cini 83
 Bofill, Ricardo 83
 Bollard lights 97, 98
 "Bollo" (Flos) 68, 73
 "Bonbon" (Brilliantleuchten) 94
 Bonucci and Massaccesi 95
 Boyd Lighting Co.
 floor lights 86, 90
 pendants 42, 59
 task lights 86
 wall lights 72, 73, 75
 Brilliantleuchten 46, 161
 exterior lights 96, 97, 98, 99
 floor lights 91, 93
 pendants 62, 64
 spotlights 44, 57, 84, 124
 table lights 84
 task lights 81
 wall lights 68, 72, 73, 94, 95
 Brousse, B. 82
 "Bugis" (i Guzzini) 84
 Bulbs
 early manufacture of 24, 25
 types 28-33
 Bulkhead lights 140, 68, 70
 exterior 96, 96
 "Bullet Major" (Concord) 57
 Bullet spotlights 55, 57, 152
 Burian, Peter 166
 "By the sea" (Koch and Lowy) 72

C

Cable 170, 172
 for exterior use 181
 for extending circuits 178, 178, 179
 "Cabriolet" (Stilnovo) 74

"Calder" (Boyd) 82
 "Callimaco" (Artemide) 93
 "Campana" (Stilnovo) 62
 Candle-type bulbs 58, 28, 30
 Candlelight 12, 147
 in history of lighting 22, 22
 in dining rooms 154-5, 154, 155, 156, 158, 159
 Carpani, D.S. 90
 "Carrera" (Luci) 68
 Carwardine, George 76
 Cassia, A. Macchi 75
 Castiglioni, Achille 46, 59, 43, 54, 58, 62, 85, 86, 93
 Castiglioni, Livio 65
 Castiglioni, Pier 75, 85, 86, 87
 Ceiling roses 171, 176
 Ceilings
 colour of 50, 148
 luminous 66, 134
 sloping 108
 suspended 105
 "Centro" (Ve Art Luce) 41
 Ceramics, lighting 115
 Chandeliers 11, 39, 59, 68, 106, 154, 62
 Chelsom
 chandeliers 62
 exterior lights 99
 wall lights 68, 72
 Childproof lights 160, 161
 exterior 96
 Children's rooms 106, 160-61, 124, 160, 161
 Cibic Aldo 83
 "Ciclope" (Tronconi) 93
 Cil
 floor lights 43, 46
 pendants 45
 "Circe" (Controluce) 41
 Circolux (Wotan) 35
 Circuit breakers 170
 Circuits 170, 171
 extending 178
 exterior lights 181
 Cleaning light fittings 157, 182
 "Click" (Brilliantleuchten) 57
 "Cobra" (Martinelli Luce) 83
 Collectibles, lighting 66, 112-13, 112, 113
 Colour
 perception of 10-11
 walls and ceiling 14-15, 104, 120
 Colour appearance 12, 28, 12
 Colour rendering 12, 28, 14-15, 15
 picture lighting 112
 Colour temperature 12-

13, 29
 Coloured bulbs 29
 "Commercial Strip" (Eleusi) 92
 "Composta" (Bilumen) 43
 Concealed lighting 66, 104-105, 67, 104, 105, 145
 in bedrooms 150
 in dining rooms 158
 in kitchens 134, 133, 134, 135
 spotlights 55
 Concord 46
 downlighters 48, 49
 exterior lights 98
 floodlights 55, 57
 floor lights 91
 spotlights 56, 57
 "Condor" (Brilliantleuchten) 93
 Conduit (BESA) box 173, 179, 173
 Cone shapes, in fittings 41
 Contrast 88
 avoidance of 15, 16, 112, 128
 reading and 103
 Control gear 34, 66
 Controluce
 pendants 41, 44, 59
 table lights 41
 "Conus" (Orit Militscher) 75
 Cool beam PAR lamps 117
 Coolidge, William 24
 Cord-pull switches 138
 Cornice lighting 104, 108, 109
 Coronelli, M. 74
 Corridors 130, 50, 51, 128, 129, 130
 Counterweights, in light fittings 42
 "Crisol" (Arteluce) 64-5
 Crown-silvered bulbs 30, 106, 30
 "C.S." (Eleusi) 92
 Cullen Lighting Design Inc., John 91
 "Curve" (Bilumen) 43
 Curved fittings 43

D

"Dardo" (Luci) 57
 "Darklighter" (Concord) 48, 49
 Davy, Humphry 22
 Daylight
 changeability of 10
 colour temperature 13
 compared with artificial light 12
 illuminance of 16
 in kitchens 132
 making allowances for

15, 120
 De Pas, D'Urbino and Lomazzi 63, 85, 86, 92
 "Deco Disc" (Boyd) 73
 Decorative lighting 17, 106-107, 106, 107
 in bedrooms 148, 149
 "Delta" (Koch and Lowy) 90
 Designers 47
 Desk lights 76-82, 102, 124, 150, 76-82, 94, 106, 162-3
 Dichroic reflectors 56, 63, 76
 Didone, Ezio 64
 Diffused lighting 38, 39, 104, 38, 39, 104
 from wall lights 71
 Diffusers 38, 39, 39, 44
 cone-shaped 41
 disc-shaped 41
 in fluorescent fittings 56
 in uplighters 87
 Dimmers 47, 146
 in children's rooms 160
 in dining rooms 154, 157
 in studies and libraries 163
 with wall lights 71
 Dining areas 154-9, 51, 135, 154-9
 pendants in 59, 154, 156, 157, 156, 157
 "Dinos" (Megalit) 67
 Direct lighting 39, 39
 Discharge lamps 25, 35
 "Disco" (Brilliantleuchten) 44
 "Disco" (Stilnovo) 45
 Discs, in light fittings 41
 Display lighting 19, 112-13, 121, 19, 50, 51, 112, 113, 121
 with fluorescent lights 66
 with track-mounted spotlights 54
 "Dogale" (Oluce) 81
 "Donald" (Arteluce) 81
 Double Life bulbs 29
 Downlighters, ceiling-mounted 48-51, 162, 48-51
 in bathrooms 51, 138, 139
 beam profiles 108, 121
 in bedrooms 148, 150, 153
 in dining rooms 155, 157
 exterior 97, 96
 installation 48, 173, 177
 in kitchens 21, 102
 in libraries and studies 163
 for picture lighting 112, 113
 pinhole 139, 48, 49

track-mounted 108, 128
 wall-mounted 68
 wall washing 50, 108, 50, 51, 109
 "Drachen" (Brilliantleuchten) 73
 "Dragonfly" (Tag) 74
 Dimmer
 floor lights 42
 table lights 42, 83, 85, 95
 Du Pasquier, Nathalie 95

E

Earthing 170, 177
 Edison, Thomas Alva 23-4, 29, 23
 Edison screw cap 24, 29
 "Ediswan" 24
 Electricians 182
 Electricity
 household supply 170
 safety aspects 138, 171
 Eleusi
 fluorescent fittings 67
 pendants 62
 table lights 44, 84, 95
 wall lights 67, 95
 "Elle" (Stilnovo) 43; 75
 Elysée Palace 90
 Entrances 128-130, 128-131
 Exterior lights 96-7, 164-7, 69, 96-7, 164-7
 psychological aspects 20
 wiring 181
 Eyeball downlighters 48, 48, 49, 50, 51, 142
 "Eyeball Major" (Concord) 48
 Eyes, light and the 16-17

F

Fabric in fittings 46
 "Faccia" (Flòs) 149
 "Fante" (Stilnovo) 45, 76
 Filaments 29, 29
 in early light bulbs 23-24, 23, 24
 First-aid ideas 124-5, 124-5
 Fittings, light 36-97
 categorization of 40
 design themes 41-6
 families 46, 46
 manufacturers 47
 upgrading 123
 see also under individual types, e.g. Downlighters
 "Flemish-style" (Chelsom) 72
 Flex 172
 concealing 124, 146
 as a design element 60,

- 76, 60, 64, 67, 68, 156
extending 174
"Flex" (Martinelli Luce) 80
Floodlamps 30
Floodlights 55, 57
exterior 96, 164, 98, 164
Floor lights 86-93, 86-93
adjustable 46, 124
in bedrooms 124
in hallways 129
in living rooms 146, 147
in studies 162, 163
"Flopi" (Luci) 73
Flos 47
floor lights 43, 86, 87,
91, 93
pendants 42, 58
spotlights 54
table lights 70, 73
wall lights 69, 70, 73
Flowers, lighting 116-17,
116-17
outdoors 97, 164, 97,
166
"Flu" (Luci) 67
Fluorescent lamps 33-5,
182, 28, 33-5
atmosphere created by
20
circular 66, 67
colour appearance 66, 12
colour rendering 14, 29,
15
decorative use of 137
in dining rooms 156
for display lighting 113,
114, 115
fittings for 66-7, 177,
66-7, 74, 75, 82, 95, 144
invention of 25
in kitchens 134, 133, 135
miniature 34-5, 66, 96,
150, 28, 34-5, 84, 92
and plant growth 117
portable 106
principles of 11, 34
for task lighting 76, 77,
102, 162, 77, 102
track systems 66
"Fold" (Raak) 83
Footcandles 12
Forcolini, Carolo 63
Form, light and 18-19, 18-
19
Fortuny, Mario 86, 88
Fountain lighting 97, 166,
99, 166
Framing projectors 39,
112, 157, 55, 56
Fraser, Albert 94
Frattini, Gianfranco 63, 67,
75, 83, 92
French industrial light 77
"Frisbi" (Flos) 59, 58, 61
Front door lighting 128-9,
128
Furniture, fittings as 118-
- 19, 118-19
Fuses
in fusebox 170
in plugs 174
- G**
Garden lighting 164-7,
164-7
fittings for 96-7, 96-7
Gecchelin, Bruno 74, 80,
81
Geissler, Heinrich 25
"Germana" (Luci) 63
"G.H." (Eleusi) 93
"Giardino" (Goccia) 99
"Giotto" (Ve Art Luce) 41
"Giovani" (Flos) 69
Gismondo, Ernesto 74, 82
Glare 16-17, 59, 144, 124,
16
background lighting and
104
in bedrooms 148
from exterior lights 96,
164
in seating areas 78-9
on staircases 130
with task lighting 102
with wall washing 108
Glass
bottomlighting 18, 114
candlelight and 154
non-reflective 112
reflections off 112, 16
"Glass form I" (Boyd) 73
Glove lights 18, 136, 162-
3
for exterior use 129, 96-
7
paper 58, 59, 60
wall lights 68
GLS lamps 30, 31, 31
"Gobbo" (Bilumen) 80
Goccia exterior lights 99
"Gomito" (Stilnovo) 70
Goose lights 111, 106
Gray, Eileen 144
Grolux tubes 117
"Guild House" (Eleusi) 93
Guzzini, i 46
exterior lights 98
table lights 84
wall lights 68
- H**
Halls 128-31, 51, 128-31
"Halo Beam"
(Brillantleuchten) 84
"Halo in the Air" (Shiu Kay
Kan) 95
Hearth, pull of the 20, 20
Hemisphere, in light fittings
41
History of lighting 22-5,
22-5
- Hoffmann, Josef 152-3
Holme, Gregory 74
"Hot Dog"
(Brillantleuchten) 124
House numbers,
illuminated 96, 129, 128
"Horus" (Eleusi) 44
- I**
Illuminance 12, 16
Incandescent lighting 12,
13, 29
and pictures 112
Indirect lighting 39, 104,
39, 153
fluorescent lights 66
task lights 78, 78, 151
uplighters 88
wall lights 71, 71, 151
"Ippogrifo" (Controluce)
59
- J**
Jewelry, spotlighting 114
"Jill" (Arteluce) 87, 86, 87,
88, 149
"Jim" (Ve Art Luce) 41
"Jo-Jo" (Arteluce) 64
Junction boxes 178
circuits 171
adding spurs from 175
multi-terminal 180
- K**
"Kandido" (Luci) 62
"Kea" (Leucos) 65
King, Perry 47, 65, 72, 80,
81
Kitchens 132-7, 132-7
fluorescent lighting 14,
102, 102
task lighting 102, 102
Koch and Lowy
floor lights 90, 92
wall lights 72, 73
Kovacs
floor lights 91, 92
pendants 64
table lights 84
- L**
Lamp types 26-35, 28-35
"Lampia" (Stilnovo) 85
Landing lights 130, 130,
131
Langmuir, Irving 24
"Le Bagnanti" (Cil) 46
"Leggio" (Stilnovo) 92
Lehé, Albert 85
Lenses 39, 39
in downlighters 39, 163,
139
in spotlights 53
- Leucos
pendants 65
table lights 83
"Libra" (Controluce) 41
Libraries 123, 162-3, 110,
123, 162-3
"Lichtballon"
(Brillantleuchten) 72
Licio, L. de 74
Light
measurement of 12
nature of 10-11
"Light Ball" (Flos) 42
Living rooms 144-7, 144-
7
Loop-in circuits 171, 178,
171, 178
"Lotto" (Luci) 98
Lotus fountain light 98, 99
"Lotus" (Boyd) 75
Louvers 39, 39
in downlighters 39, 48
in exterior lights 96
in fluorescent fittings 39,
66
in pendants 60
Low-energy light sources
35, 96
Low-voltage exterior lights
97, 167
Low-voltage halogen
bulbs 32, 32
Low-voltage spotlamps 30
Luci
exterior 98
floor lights 43, 91, 92, 93
fluorescent fittings 66, 67
pendants 44, 62, 63
spotlights 57
table lights 83
wall lights 73, 75
"L'Una" (Ve Art Luce) 41
"Lytesphere" (Concord)
56
- M**
"Main Street Due" (Eleusi)
67
Maintenance 182
"Maniglia" (Stilnovo) 86
"Mantis" (Arteluce) 80
Manufacturers 47
Manzu, P. 93
"Maria Theresa"
(Chelsom) 62
Marianelli, Giorgio 63, 84,
90, 91, 93
Marlin
downlighters 49
exterior lights 96
Martinelli Luce
table lights 83, 85
task lights 80, 81
Maurer, Ingo 46, 111
Mazzucchelli and Fiorin 74
Megalit
- table lights 95
task lights 67, 80, 82
"Megaron" (Artemide)
148
"Memphis" (Drimmer) 83
Memphis group 111
Mercatali, Davide 84
Mesh panels in fittings 44
Metal halide lamps 35, 91
"Mezzaluna" (Skipper) 76,
144
Militscher, Orit 75
Miniature fluorescents
lamps 34-5, 34-5
"Minibasket" (Eleusi) 84
"Minibox" (Stilnovo) 75
"Mini-Multigroove"
(Concord) 49
Miranda, Santiago 47, 65,
72, 80, 81
Mirror lights 140, 73, 139
Mirrors 108
in bathrooms 140, 139,
141
in living rooms 144, 145
"Moni" (Flos) 62
"Monkey" (Arteluce) 57
Montaguti, Gabriella 84
Montoya, Juan 122
Monumentalism 42, 118
Mood lighting 20, 143
in bedrooms 148
in dining rooms 156
Morgan, David 81
"Multiplica" (Stilnovo) 58,
92
- N**
"Nastro" (Stilnovo) 94
Neon lighting 35, 140, 94,
106, 140
early 25
1970s vogue for 106
Nernst lamp 24, 25
Night lights 161
"Noa" (Luci) 83
Novelty lights 76, 161, 94-
5
Nursery lights 160-61
- O**
Oil lamps 22, 143, 22
Oluce task lights 81
"Omega" (Studio
Editions) 43
One-Off Ltd 94
Opal bulbs 29
Optelma
table lights 42, 45
wall lights 46
- P**
"Pall" (Tronconi) 84
"Palma" (Stilnovo) 74
- "Palomar" (Stilnovo) 86
Pamio, Roberto 83
"Papillona" (Flos) 91
PAR lamps 30, 48, 54, 56,
166-7
cool beam 30, 117, 49
for exterior use 97
"Parentesi" (Flos) 54-5,
93
Paths, garden 164
Patios 164, 97, 99, 164,
165
Pearl bulbs 29
Pedrizzetti, Paolo 84
"Pellicano" (New Society)
42
Helmet lighting 66, 105
Pendants 58-65, 58-65,
73
in bedrooms 148, 150
central 59, 132, 148
defining space with 118,
118
fluorescent 66
in halls 129
industrial-style 135
installation 176, 173
in kitchens 132, 134, 133
over dining tables 156-
7, 156, 159
repositioning 124-5,
125
rise and fall 162, 62, 63,
159
in seating areas 144,
118
shades for 39
in studies 162, 162-3
Penney-Bernstein Inc. 92
"Periscopio" (Stilnovo) 81,
86
"Perpetua" (Flos) 84
"Petite Fleur"
(Brillantleuchten) 85
"Pfister" (Boyd) 72
"Pharo" (Stilnovo) 45
Philips
downlighters 48, 49
fluorescent fittings 67
PL lamp 34, 67
SL lamp 34
spotlights 54, 56
"Piatto" (Stilnovo) 63
Picture lights 72
Pictures
display lighting 48, 112-
13, 112-13, 128
table lights beneath 79
wall washing 108
"Pinco" (Tronconi) 65
"Pinhole" downlighter 139
"Pipeline" (Thorn EMI) 66
"Pitagora" (Martinelli
Luce) 85
Piuluce 99
PL miniature fluorescents
34, 67

- Planning **120-23**, 120-23
 Plants, lighting **116-17**,
 116-17
 outdoors 97, 164-5, 97,
 154, 164-7
 Plug-in lights 120, 124,
 146, 174
 in bathrooms 138, 141
 in bedrooms 150
 spotlights 54
 Plugs 174
 Pool lighting 166, 166-7
 Porch lights 20, 128, 128
 Porsche, F.A. 62
 "Powerwasher"
 (Concord) 57
 "Prestige"
 (Brilliantleuchten) 56, 57
 Profile spots see Framing
 projectors
 "Psiche" (Eleusi) 95
 Psychology of lighting **20-**
21, 20, 21
- Q**
 "Quartet Major"
 (Concord) 57
 "Quarto" (Flos) 70, 122,
 154-5
- R**
 Raak 83
 Reading 103
 Reading lights 71, **76-85**,
 88, 162, 76-83, 84, 92
 in bathroom 140
 in bedrooms 150, 161
 Reflectance 15, 39, 88, 104
 Reflections
 glare from 16, 16
 in picture lighting 112
 in table tops 79
 Reflector lamps 29, **30**,
 124, 30
 Reflectors
 dichroic 30, 63
 dimpled 38
 disc-shaped 41
 in downlighters 48
 effect of finish 48
 in light fittings 38
 in floor lights 86
 shape of 39
 Refraction 39
 Remote-control switches
 47
 Right angles in fittings 43
 "Ring" (Arteluce) 80
 "Rio" (Luci) 66, 67
 Rise-and-fall pendants 58,
 66, 58, 59, 61, 62, 63,
 159
 installing 177
 Rizatto, Paolo 75
 "Roof I" (Brilliantleuchten)
 99
- Room size 15, 58, 104
 Rotaflex spotlights 54
- S**
 Safety
 in children's rooms 160
 exterior lighting 96
 in kitchens 132
 on stairs 129-130
 wiring 121, 170, 175
 Salvati and Tresoldi 73
 "Samurai" (Stilnovo) 42,
 93
 Sapper, Richard 76
 "Sarasar" (Leucos) 83
 Sarfatti, Gino 62, 80, 81
 "Scarpa" (Flos) 158
 Scarpa, Tobia 73, 84, 91
 Sculpture, lighting **19**, 114,
 18-19
 Seating areas 59-60, 78,
 144, 118, 118
 Security lights
 exterior 97, 128-9
 interior 146
 Sedap 42
 Seris, Georges 62
 Shades **39**, 39
 conical 78
 diffusers in 44
 gas mantle 110, 72
 glare and 17
 for pendants 59, 60
 stepped 45
 for table lights 80-81
 Tiffany 106, 110
 for wall lights 71
 Shadows
 patterns 148
 in picture lighting 112
 from plants 117, 117
 for revealing form and
 texture **18-19**, 18-19
 Shelf lighting **113-14**, 114
 in studies and libraries
 163, 162-3
 table lights 79
 "Shell" (Boyd) 90
 Shiu Kay Kan
 spotlights 56, 95
 table lights 85
 wall lights 46
 Sierakowski, Piotr 90
 Sigheaki, Asahara 83
 Silverware
 candlelight on 154
 downlighters on 155
 spotlighting 114
 "Sintesi Professionale"
 (Artemide) 74
 Sirrah
 pendants 59
 task lights 81, 82
 "SistemaGru" (Tronconi)
 91
 "600" (Arteluce) 80
- Skipper
 wall lights 74
 Socket outlets 171, 173,
 174
 adding 175
 planning 120, 121
 replacing 174
 spurs from 175
 Sodium lighting 10, 13, 14,
 25, 35, 97
 "Solitaire" (Tronconi) 76,
 63
 Sonneman, Robert 91
 Sottsass, Ettore 47, 93
 Sources of light **26-35**,
 26-35,
 Sparkle 17, 17
 Spectrum, electromagnetic
 10-11
 Sphere motif in light fittings
 42
 "Splügen Bräu" 58
 Sportes, Ronald 90
 "Spot-on" (Thorn EMI) 56
 Spotlamps **30**, 30
 Spotlights **52-7**, 52-7
 in bathrooms 141
 in bedrooms 148
 in children's rooms 161
 clip-on 124
 decorative effects 52,
 107
 in dining rooms 157
 exterior 164, 165, 96, 97,
 165, 166
 floor-standing 86, 55
 framing projectors 112
 in halls 129
 in kitchens 133, 137
 lamps for 30, 30
 1960s vogue for 111
 for picture lighting 112
 for plant lighting 117,
 117
 and reflective surfaces
 120
 to reveal form 18, 19
 for shelf lighting 114
 wall-mounted 68
 for wall washing 108,
 109
 Spurs, adding 171, 175,
 178
 Staff exterior lighting 98
 Staircases 129-30
 wiring for 181
 Stairwells 60
 Standard lamps 86
 "Starlet" (Concord) 56
 "Stiela" (Tronconi) 90
 Steps, exterior 164
 Stern, Robert A.M. 123
 Stilnovo 46
 floor lights 86, 118, 86,
 90, 92, 93
 pendants 62, 63, 65
 spotlights 45
- table lights 43, 46, 76,
 77, 83, 85
 task lights 42, 43, 76, 81,
 94
 wall lights 45, 70, 74, 75
 Storage units 134, 133,
 134, 135
 Strip lighting
 in bathrooms 140
 concealed 104-105,
 104, 105, 128
 in kitchens 134, 132-3,
 134, 135, 136
 for shelving 113-14
 tungsten strip lamps 30
 Studios 102, **162-3**, 162,
 163
 Studio Editions
 picture lights 72
 table lights 42, 43
 Studio lights 86
 Studio Tecnico 65
 Style, creating **110-11**,
 110, 111
 Submersible lights 97, 166,
 166
 "Suitcase" (Shiu Kay Kan)
 85
 Sunset Ceramics 94
 Swan, Joseph 23
 "Swan Line"
 (Brilliantleuchten) 81, 91
 "Swing Arm Tent" (Koch
 and Lowy) 92
 Switches 47, 171, 173,
 178-9, 180, 181
 in bedrooms 148
 in children's rooms 161
 remote-control 47
 on spotlights 54
 two-way 179, 180, 181
 with wall lights 71
- T**
 Table lights **76-85**, 107,
 76-85, 94, 95, 133, 149,
 150-51
 adjustable 46
 for lighting objects 78-9,
 113, 115
 as symbol of welcome
 20
 "Taccia" (Flos) 85
 Tag 75
 "Tap Giardino" (Piuluce)
 99
 "Targa 50" (Concord) 56
 Task lights 10, **76-85**, 76-
 85, 94
 in bedrooms 150
 in children's rooms 161
 floor-standing 86, 86,
 90, 91, 149
 in kitchens **132**
 in studies **162-3**, 162-3
 wall-mounted 71
- Tasks, light needed for 103
 "Techlinea" (Boyd) 75
 Television
 lighting for viewing 79,
 144
 "Tender" (Tronconi) 85
 "Tenderone" (Tronconi)
 85
 Texture, light and 18-19,
 18-19
 Thorn EMI
 fluorescent track 66
 spotlights 56
 2D lamp 34, 35
 Tiffany shades 106, 110
 Time switches 97, 146
 dimmers 101
 "Tizio" (Artemide) 76, 77,
 78, 141, 148, 149
 "Tobia" (Tronconi) 84
 "Toio" (Flos) 87, 86, 87
 "Tokio" 76, 152
 "Toltec" (Concord) 91
 "Tomo" (Luci) 93
 "Tomos" (Sirrah) 82
 "Torre" (Stilnovo) 46
 Toshiba Neoball 34
 Toshiyuki Kita 57, 93
 Toso, Renato 83
 "Totem" (Drimmer) 85
 Track lighting 110, 114,
 121, 53, 128
 fluorescent 66
 installing 177
 maximum wattage for
 54
 recessed 137
 spotlights **52-4**, 53, 54,
 55
 Traditional-style lighting
 110, 143
 pendant fittings 60
 in studies and libraries
 163, 163
 switches for 47
 wall lights 68, 72
 Transformers 30, 92
 for exterior lighting 181
 "Trapezio" (Luci) 44
 Trees 96, 97, **164**, 97, 164
 Tronconi
 floor lights 47, 90, 91, 93
 pendants 44, 47, 63, 65
 table lights 47, 84, 85
 task lights 47, 83
 wall lights 47
 "Tulipano" (Luci) 91
 Tungsten-filament lamps
29-30, 28, 30
 colour rendering 14, 28,
 133, 15
 colour temperature 13,
 29
 history of **22-25**, 23, 24,
 25
 mood of 20
 for plants 117
- for shelf lighting 114
 Tungsten-halogen lamps
32-3, 32-3
 colour characteristics 28
 in downlighters 48
 in floodlights (exterior)
 164
 in uplighters 86-7, 88
- U**
 "Uno" (Eleusi) 95
 Uplighters **86-93**, 104,
 86-93
 in bedrooms 150
 in halls 129
 for picture lighting 112
 portable 91
 in seating areas 144
 in traditional rooms 111
 vertical emphasis of 118
 wall-mounted 68
 for wall washing 108,
 109
- V**
 Ve Art Luce
 table lights 41
 uplighters 41
 wall lights 41
 "Veronica" (Luci) 43
- W**
 Wall lights **68-75**, 41, 45,
 68-75, 95, 133
 adjustable 46
 exterior 96, 96, 97
 matched to pendants 60
 on mirror walls 139
 spotlights 54
 Walls
 colour of 124
 exterior 96
 highlighting **108-109**,
 108, 109
 washing with light 50,
108, 157, 51, 75, 150,
 151
 Water
 exterior lighting 166
 "Wedge" (Boyd) 74
 Welcome lights 128, 20,
 51, 128
 Willson, David Winfield 64
 Wiring
 for exterior lighting 96,
 181
 do-it-yourself **170-81**
 new installations 124
 planning 121
- Z**
 "Ziggurat" (Stilnovo) 44
 Zotta, Mario 80