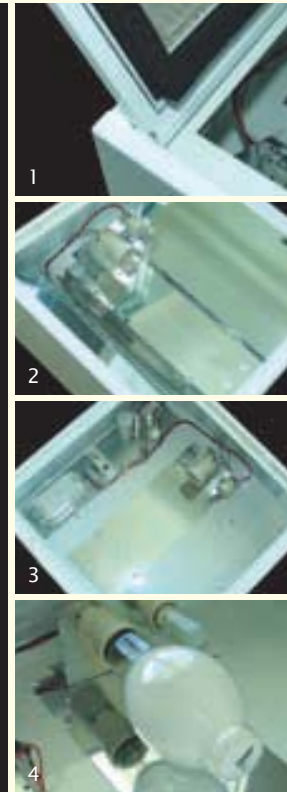


# BIANCA SENIOR - DEEP DROP DIFFUSER



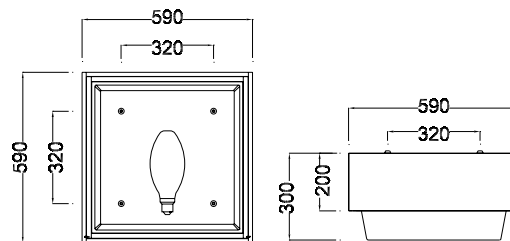
## FEATURES

- 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

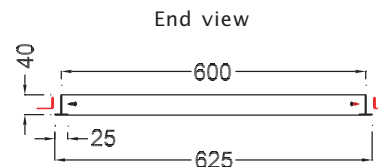
## APPLICATION

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

## DIMENSIONS



## PFW18 PLASTER FRAME FOR RECESSED MODELS



cut out size 605 X 605

For mounting details see general catalogue page G1  
Bianca Senior weight 16.5kg (maximum)

BIANCA SENIOR - DEEP DROP DIFFUSER



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

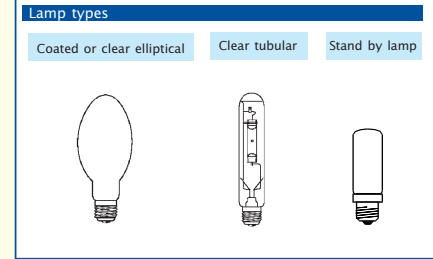


*“When your  
business  
depends  
on light.”*

| Model No.  | Type                 | Options   |
|------------|----------------------|---|
| BISU250MVD | Mercury Vapour       | P Pyramid diffuser (Replaces D in model number)                                     |
| BISU400MVD | Mercury Vapour       | S Shallow drop diffuser (Replaces D in model number)                                |
| BISU250MHD | Metal Halide         | RC Remote Control (first suffix after model number)                                 |
| BISU400MHD | Metal Halide         | TH250 250w Tungsten Halogen standby lamp & relay (second suffix after model number) |
| 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

**Example: BISU400MVSRCTH250**



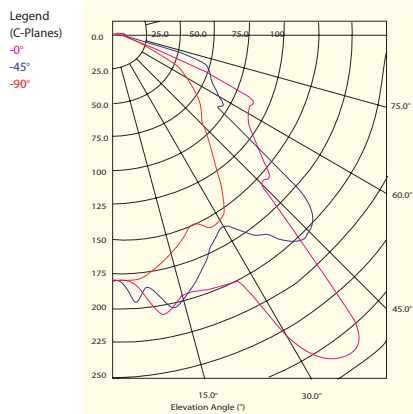
## BIANCA SENIOR HPS

150w, 250w, 400w clear lamp

Photometric data applies to all three models

### POLAR CURVE

cd/1000lms | Max 290cd in CO plane at 35° gamma



Legend (C-Planes)  
-0°  
-45°  
-90°

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     | 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

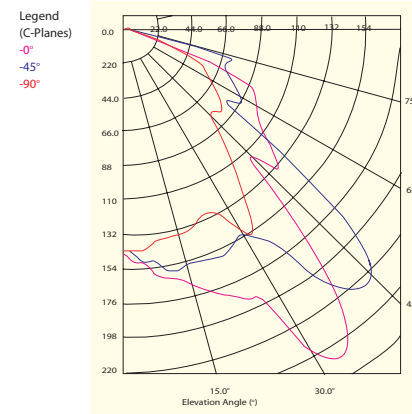
### AVERAGE LUMINANCE TABLE

| 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/m<sup>2</sup>/1000lms

### POLAR CURVE

cd/1000lms | Max 254cd in CO plane at 35° gamma



Legend (C-Planes)  
-0°  
-45°  
-90°

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     | 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/m<sup>2</sup>/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 | 0.75 | 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 | N/A  | 0.42 | 0.46 | 0.49 | 0.53 | 0.56 | 0.58 | 0.60 | 0.62 |  |
| 0.70                 | 0.30     | 0.20  | 0.33 | 0.39               | 0.44 | 0.47 | 0.52 | 0.56 | 0.58                | 0.61 | 0.63 | N/A  | 0.38 | 0.42 | 0.45 | 0.50 | 0.53 | 0.55 | 0.58 | 0.60 |  |
| 0.70                 | 0.10     | 0.20  | 0.30 | 0.35               | 0.40 | 0.44 | 0.49 | 0.53 | 0.55                | 0.59 | 0.61 | N/A  | 0.35 | 0.39 | 0.42 | 0.47 | 0.50 | 0.53 | 0.56 | 0.58 |  |
| 0.50                 | 0.50     | 0.20  | 0.37 | 0.42               | 0.46 | 0.50 | 0.54 | 0.56 | 0.58                | 0.61 | 0.62 | N/A  | 0.41 | 0.44 | 0.47 | 0.51 | 0.54 | 0.55 | 0.58 | 0.59 |  |
| 0.50                 | 0.30     | 0.20  | 0.33 | 0.38               | 0.43 | 0.46 | 0.51 | 0.54 | 0.56                | 0.59 | 0.61 | N/A  | 0.37 | 0.41 | 0.44 | 0.48 | 0.51 | 0.53 | 0.56 | 0.57 |  |
| 0.50                 | 0.10     | 0.20  | 0.30 | 0.35               | 0.40 | 0.43 | 0.48 | 0.51 | 0.54                | 0.57 | 0.59 | N/A  | 0.34 | 0.38 | 0.41 | 0.46 | 0.49 | 0.51 | 0.54 | 0.56 |  |
| 0.30                 | 0.50     | 0.20  | 0.36 | 0.40               | 0.45 | 0.48 | 0.52 | 0.54 | 0.56                | 0.58 | 0.60 | N/A  | 0.39 | 0.43 | 0.46 | 0.49 | 0.51 | 0.53 | 0.55 | 0.56 |  |
| 0.30                 | 0.30     | 0.20  | 0.32 | 0.37               | 0.42 | 0.45 | 0.49 | 0.52 | 0.54                | 0.57 | 0.58 | N/A  | 0.36 | 0.40 | 0.43 | 0.47 | 0.49 | 0.51 | 0.54 | 0.55 |  |
| 0.30                 | 0.10     | 0.20  | 0.29 | 0.34               | 0.39 | 0.42 | 0.47 | 0.50 | 0.52                | 0.55 | 0.57 | N/A  | 0.34 | 0.38 | 0.41 | 0.45 | 0.48 | 0.50 | 0.52 | 0.54 |  |
| 0.00                 | 0.00     | 0.00  | 0.28 | 0.33               | 0.37 | 0.40 | 0.45 | 0.48 | 0.50                | 0.52 | 0.54 | N/A  | 0.32 | 0.36 | 0.39 | 0.43 | 0.45 | 0.47 | 0.50 | 0.51 |  |
| Distribution Factors | Floor:   | 0.28  | 0.33 | 0.37               | 0.40 | 0.45 | 0.48 | 0.50 | 0.52                | 0.54 |      | N/A  | 0.32 | 0.36 | 0.39 | 0.43 | 0.45 | 0.47 | 0.50 | 0.51 |  |
|                      | Walls:   | 0.34  | 0.29 | 0.24               | 0.21 | 0.17 | 0.14 | 0.12 | 0.09                | 0.08 |      | N/A  | 0.26 | 0.22 | 0.19 | 0.15 | 0.13 | 0.11 | 0.09 | 0.07 |  |
|                      | Ceiling: | 0.01  | 0.01 | 0.01               | 0.01 | 0.01 | 0.01 | 0.01 | 0.01                | 0.01 |      | N/A  | 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    |      | N/A  | 4    | 4    | 4    | 4    | 4    | 4    | 4    | 4    |  |

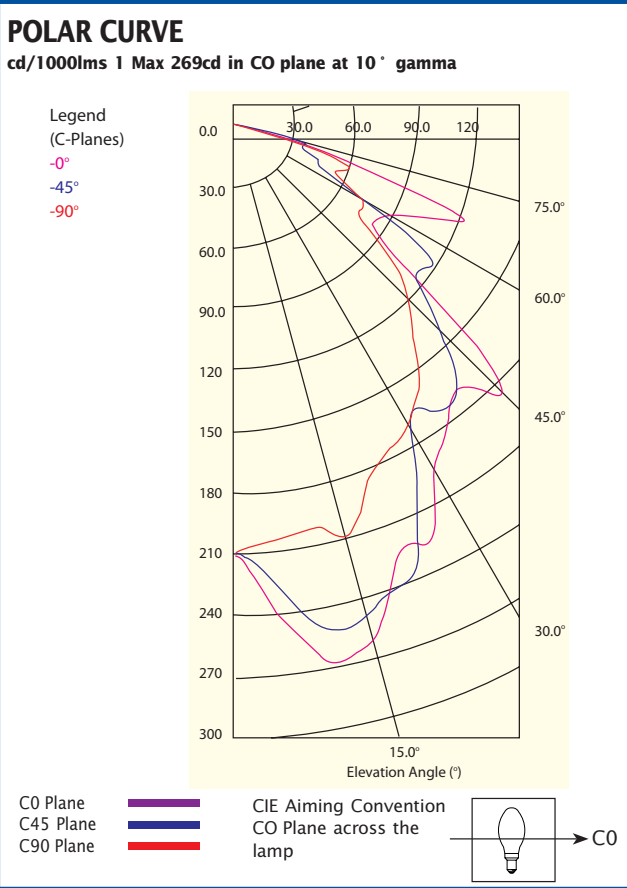
### UTILISATION FACTOR TABLE - CIBSE TM5 (fine grid method min/ave 0.8)

| 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 | 0.75 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 |      | 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 |      | 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 |      | 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    |      | N/A  | 4    | 4    | 4    | 4    | 4    | 4    | 4    | 4    |  |

# BIANCA SENIOR IN STAND BY MODE

250w tungsten halogen coated lamp

Osram Halolux 644801M. Luminous flux 4000 lumens.



### 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/m<sup>2</sup>/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 | 0.18 | 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    |

**MALAYSIA** KUALA LUMPUR Sales Office: Tel:(03) 5636 4348 Fax:(03) 5636 4352 **PENANG** Sales Office: Tel:(04) 507 0580

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 IES files on request or available on Davis website

Website: [www.davislighting.com](http://www.davislighting.com)

Email: [sales@davislighting.com](mailto:sales@davislighting.com)

Davis Lighting is a registered trade name

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 Materials and components may vary from region to region.



*"When your  
 business  
 depends  
 on light."*