

| Llumar Film Designation     | % Solar Transmittance | % Solar Reflectance | % Solar Absorbance | % Visible Light Transmitted | % Visible Light Reflected | Winter "U" Value | Winter Median "U" Value | Shading Coefficient | % Ultraviolet Transmitted(max) | % Total Solar Energy Rejected | Emissivity |
|-----------------------------|-----------------------|---------------------|--------------------|-----------------------------|---------------------------|------------------|-------------------------|---------------------|--------------------------------|-------------------------------|------------|
| <b>Reflective Series</b>    |                       |                     |                    |                             |                           |                  |                         |                     |                                |                               |            |
| R-15B (Bronze) SR CDF       | 9                     | 34                  | 57                 | 8                           | 18                        | 1.04             | .99                     | .28                 | 1                              | 76                            | .70        |
| R-15B (Grey) SR CDF         | 9                     | 30                  | 61                 | 7                           | 13                        | 1.04             | .99                     | .29                 | 1                              | 74                            | .70        |
| R-15BL (Blue) SR PS         | 18                    | 35                  | 47                 | 12                          | 18                        | 1.04             | 1.00                    | .33                 | 1                              | 72                            | .70        |
| R-15GO (Gold) SR PS         | 12                    | 55                  | 33                 | 15                          | 50                        | 1.04             | .99                     | .25                 | 1                              | 78                            | .70        |
| R-20 (Silver) SR CDF        | 12                    | 55                  | 33                 | 15                          | 60                        | 1.04             | .99                     | .24                 | 1                              | 79                            | .71        |
| R-30B (Bronze) SR CDF       | 21                    | 22                  | 57                 | 19                          | 12                        | 1.06             | 1.01                    | .43                 | 1                              | 63                            | .74        |
| R-30G (Grey) SR CDF         | 23                    | 23                  | 54                 | 22                          | 13                        | 1.06             | 1.01                    | .44                 | 1                              | 62                            | .75        |
| R-35 (Silver) SR CDF        | 22                    | 43                  | 35                 | 28                          | 44                        | 1.05             | .99                     | .36                 | 1                              | 68                            | .73        |
| R-50 (Silver) SR CDF        | 37                    | 27                  | 36                 | 47                          | 27                        | 1.09             | 1.03                    | .53                 | 1                              | 54                            | .75        |
| <b>E Series</b>             |                       |                     |                    |                             |                           |                  |                         |                     |                                |                               |            |
| E-1220 (Silver) SR CDF      | 14                    | 46                  | 40                 | 17                          | 59                        | .81              | .75                     | .24                 | 1                              | 79                            | .36        |
| E-1230 (Silver) SR CDF      | 22                    | 35                  | 43                 | 28                          | 39                        | 1.00             | .93                     | .37                 | 1                              | 68                            | .54        |
| <b>Deluxe Series</b>        |                       |                     |                    |                             |                           |                  |                         |                     |                                |                               |            |
| DL-15B (Bronze) SR CDF      | 24                    | 15                  | 61                 | 14                          | 9                         | 1.10             | 1.05                    | .45                 | 1                              | 61                            | .77        |
| DL-15G (Grey) SR CDF        | 26                    | 15                  | 59                 | 15                          | 9                         | 1.10             | 1.03                    | .45                 | 1                              | 58                            | .78        |
| DL-30GR (Green) SR PS       | 32                    | 18                  | 50                 | 30                          | 15                        | 1.15             | 1.10                    | .53                 | 1                              | 54                            | .76        |
| <b>N Series (Llumarloy)</b> |                       |                     |                    |                             |                           |                  |                         |                     |                                |                               |            |
| N-1020 (Neutral) SR CDF     | 22                    | 26                  | 52                 | 24                          | 29                        | 1.13             | 1.10                    | .43                 | 1                              | 63                            | .85        |
| N-1035 (Neutral) SR CDF     | 35                    | 17                  | 48                 | 35                          | 19                        | 1.14             | 1.10                    | .55                 | 1                              | 52                            | .88        |
| N-1050 (Neutral) SR CDF     | 48                    | 12                  | 40                 | 48                          | 13                        | 1.15             | 1.11                    | .64                 | 1                              | 44                            | .89        |
| N-1065 (Neutral) SR CDF     | 65                    | 9                   | 30                 | 63                          | 11                        | 1.19             | 1.14                    | .79                 | 1                              | 31                            | .88        |
| N-1020B (Bronze) SR CDF     | 13                    | 48                  | 39                 | 19                          | 38                        | 1.04             | .98                     | .26                 | 1                              | 77                            | .69        |
| N-1035B (Bronze) SR CDF     | 28                    | 35                  | 37                 | 37                          | 25                        | 1.08             | 1.02                    | .43                 | 1                              | 62                            | .71        |
| N-1050B (Bronze) SR CDF     | 41                    | 25                  | 34                 | 50                          | 17                        | 1.10             | 1.05                    | .57                 | 1                              | 51                            | .73        |
| <b>Safety Series</b>        |                       |                     |                    |                             |                           |                  |                         |                     |                                |                               |            |
| SCL SR-PS4 (Clear)          | 86                    | 7                   | 7                  | 89                          | 9                         | 1.19             | 1.14                    | .99                 | 5                              | 14                            | .86        |
| SCL SR-PS7 (Clear)          | 88                    | 10                  | 2                  | 89                          | 11                        | 1.19             | 1.14                    | .99                 | 5                              | 12                            | .87        |
| SCL SR-PS11 (Clear)         | 88                    | 10                  | 2                  | 87                          | 12                        | 1.19             | 1.14                    | .99                 | 5                              | 12                            | .87        |
| R-15B (Bronze) SR PS4       | 9                     | 34                  | 57                 | 8                           | 18                        | 1.04             | .99                     | .28                 | 1                              | 76                            | .70        |
| R-15G (Grey) SR PS4         | 9                     | 30                  | 61                 | 7                           | 13                        | 1.04             | .99                     | .29                 | 1                              | 74                            | .70        |
| R-20 (Silver) SR PS4        | 12                    | 55                  | 33                 | 15                          | 60                        | 1.04             | .99                     | .24                 | 1                              | 79                            | .71        |
| R-35 (Silver) SR PS4        | 22                    | 43                  | 35                 | 28                          | 44                        | 1.05             | .99                     | .36                 | 1                              | 68                            | .73        |
| N-1020 (Neutral) SR PS4     | 22                    | 26                  | 52                 | 24                          | 29                        | 1.13             | 1.10                    | .43                 | 1                              | 63                            | .85        |
| N-1035 (Neutral) SR PS4     | 35                    | 17                  | 48                 | 35                          | 19                        | 1.14             | 1.10                    | .55                 | 1                              | 52                            | .88        |
| N-1050 (Neutral) SR PS4     | 48                    | 12                  | 40                 | 48                          | 13                        | 1.15             | 1.11                    | .64                 | 1                              | 44                            | .89        |
| NUV65 SR PS4                | 65                    | 9                   | 30                 | 63                          | 11                        | 1.19             | 1.14                    | .79                 | 1                              | 31                            | .88        |
| <b>Nonreflective Series</b> |                       |                     |                    |                             |                           |                  |                         |                     |                                |                               |            |
| NRM-PS2 (Frosty)            | 67                    | 18                  | 15                 | 69                          | 20                        | 1.14             | 1.09                    | .82                 | 15                             | 28                            | .89        |
| NRMB-PS2 (Bronze)           | 50                    | 13                  | 37                 | 36                          | 11                        | 1.14             | 1.09                    | .69                 | 15                             | 39                            | .89        |
| NRMM-PS3 (Black)            | 0                     | 11                  | 89                 | 0                           | 13                        | 1.12             | 1.17                    | .32                 | 0                              | 72                            | .89        |
| NRMS-PS2 (Silver)           | 13                    | 57                  | 30                 | 16                          | 60                        | 1.10             | 1.05                    | .24                 | 5                              | 79                            | .72        |
| UV CL-SR PS (Clear)         | 84                    | 9                   | 7                  | 84                          | 9                         | 1.04             | .99                     | .99                 | 1                              | 14                            | .83        |

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**NOTE: All values represent typical solar properties with film mounted to DSB clear glass**