

| LED-15T8-8XXBC48-G3<br>Ballast Compatibility List |             |                           |                       |              |            | NC   | Incompatible               |                 | P                   | PF <0.85       |          |            |          |
|---|-------------|---------------------------|-----------------------|--------------|------------|------|----------------------------|-----------------|---------------------|----------------|----------|------------|----------|
|   |             |                           |                       |              |            | N    | Acoustic noise >20dB       |                 | T                   | THD >30%       |          |            |          |
|   |             |                           |                       |              |            | S    | Can't start-up             |                 | C                   | Compatible     |          |            |          |
|   |             |                           |                       |              |            | F    | Flicker after >2s start-up |                 | /                   | Not tested     |          |            |          |
|   |             |                           |                       |              |            | HT   | High temperature           |                 | NA                  | Not applicable |          |            |          |
| No  | Ballast No. | Ballast Brand             | Part Number           | Start Method | # of Lamps | BF   |                            | Lamp Connection | Enclosed fixtures ? | N-1 Lamp       |          | N Lamp     |          |
|   |             |                           |                       |              |            | Type | Value                      |                 |                     | DR G5S 15W     |          | DR G5S 15W |          |
|   |             |                           |                       |              |            |      |                            |                 |                     | 120Vac         | 277Vac   | 120Vac     | 277Vac   |
| 1   | 1           | Philips-Advance           | ICN-2P32-N            | IS           | 2          | N    | 0.89                       | Parallel        | YES                 | HT             | HT       | C          | C        |
| 2   | 2           | Philips-Advance           | IOPA-2P32-N           | IS           | 2          | N    | 0.89                       | Parallel        | YES                 | C              | C        | C          | C        |
| 3   | 4           | Philips-Advance           | IOP-2P32-LW-N         | IS           | 2          | L    | 0.77                       | Parallel        | YES                 | C              | C        | C          | C        |
| 4   | 5           | OSRAM SYLVANIA            | QTP 2X32T8/UNV ISN-SC | IS           | 2          | N    | 0.88                       | Parallel        | YES                 | C              | C        | C          | C        |
| 5   | 6           | OSRAM SYLVANIA            | QHE 2X32T8/UNV ISN-SC | IS           | 2          | N    | 0.88                       | Parallel        | YES                 | C              | C        | C          | C        |
| 6   | 7           | OSRAM SYLVANIA            | QHE 2X32T8/UNV ISL-SC | IS           | 2          | L    | 0.78                       | Parallel        | YES                 | C              | C        | C          | C        |
| 7   | 8           | General Electric          | GE-232-MV-N           | IS           | 2          | N    | 0.88                       | Parallel        | YES                 | C              | C        | C          | C        |
| 8   | 9           | General Electric          | GE232MAX-N/ULTRA      | IS           | 2          | N    | 0.88                       | Parallel        | YES                 | C              | C        | F          | F        |
| 9   | 10          | Universal Lighting Techno | B232IUNVHP-N          | IS           | 2          | N    | 0.88                       | Parallel        | YES                 | N              | N        | C          | C        |
| 10  | 11          | Universal Lighting Techno | B232IUNVEL-A          | IS           | 2          | L    | 0.77                       | Parallel        | YES                 | C              | C        | C          | C        |
| 11  | 12          | Universal Lighting Techno | B233IUNVHE-A          | IS           | 2          | N    | 0.88                       | Parallel        | YES                 | C              | C        | C          | C        |
| 12  | 13          | ESPEN                     | VE232MVHIPE           | IS           | 2          | N    | 0.89                       | Parallel        | YES                 | C              | C        | C          | C        |
| 13  | 14          | ESPEN                     | VE232MVH1PHE          | IS           | 2          | H    | 1.19                       | Parallel        | NO                  | HT             | HT       | C          | C        |
| 14  | 15          | Philips-Advance           | IOPA-3P32-LW-N        | IS           | 3          | L    | 0.76                       | Parallel        | YES                 | N              | N        | N          | N        |
| 15  | 16          | OSRAM SYLVANIA            | QHE 3X32T8/UNV ISH-SC | IS           | 3          | H    | 1.18                       | Parallel        | NO                  | N              | N        | N          | N        |
| 16  | 17          | Philips-Advance           | IOPA-4P32-N           | IS           | 4          | N    | 0.87                       | Parallel        | YES                 | N              | N        | N          | N        |
| 17  | 19          | Philips-Advance           | IOP-4P32-N            | IS           | 4          | N    | 0.87                       | Parallel        | YES                 | N              | N        | N          | N        |
| 18  | 20          | Philips-Advance           | IOP-4P32-LW-N         | IS           | 4          | L    | 0.77                       | Parallel        | YES                 | C              | C        | C          | C        |
| 19  | 21          | Philips-Advance           | ICN-4P32-N            | IS           | 4          | N    | 0.90                       | Parallel        | YES                 | C              | C        | C          | C        |
| 20  | 22          | General Electric          | GE432MAX-H/ULTRA      | IS           | 4          | H    | 1.18                       | Parallel        | NO                  | C              | P,T      | C          | P,T      |
| 21  | 23          | General Electric          | GE432MAX-L/ULTRA      | IS           | 4          | L    | 0.78                       | Parallel        | YES                 | C              | C        | C          | C        |
| 22  | 24          | OSRAM SYLVANIA            | QHE 4X32T8/UNV ISN-SC | IS           | 4          | N    | 0.88                       | Parallel        | YES                 | C              | C        | C          | C        |
| 23  | 25          | OSRAM SYLVANIA            | QHE 4X32T8/UNV ISL-SC | IS           | 4          | L    | 0.78                       | Parallel        | YES                 | C              | C        | C          | C        |
| 24  | 26          | Philips-Advance           | IOP-1P32-N            | IS           | 1          | N    | 0.89                       | n.a             | YES                 | NC             | NC       | NC         | NC       |
| 25  | 27          | Philips-Advance           | IOP-2P32HL-SC         | IS           | 2          | H    | 1.18                       | Parallel        | NO                  | NC             | NC       | NC         | NC       |
| 26  | 28          | General Electric          | GE-232-MAX-H/Ultra    | IS           | 2          | H    | 1.15                       | Parallel        | NO                  | NC             | NC       | NC         | NC       |
| 27  | 29          | HOWARD INDUSTRIES         | EPH4/32IS/MV/SC/HE    | IS           | 4          | H    | 1.16                       | Parallel        | NO                  | NC             | NC       | NC         | NC       |
| 28  | 30          | HOWARD INDUSTRIES         | EP3/32IS/MV/SC/HE     | IS           | 3          | N    | 0.87                       | Parallel        | YES                 | C              | C        | C          | C        |
| 29  | 31          | HOWARD INDUSTRIES         | EPL4/32IS/MV/MC/HE    | IS           | 4          | L    | 0.77                       | Parallel        | YES                 | C              | C        | C          | C        |
| 30  | 32          | ProLume                   | EP232IS/L/MV/SL       | IS           | 2          | L    | 0.78                       | Parallel        | YES                 | C              | C        | C          | C        |
| 31  | 33          | ProLume                   | E432IS/120/R/SL       | IS           | 4          | N    | 0.87                       | Parallel        | YES                 | P,T            | NA       | P,T        | NA       |
| 32  | 34          | General Electric          | GE432MAX-G-N          | IS           | 4          | N    | 0.88                       | Parallel        | YES                 | C              | C        | C          | C        |
| 33  | 35          | Universal Lighting Techno | B432IUNVHE L-A        | IS           | 4          | L    | 0.77                       | Parallel        | YES                 | C              | C        | C          | C        |
| 34  | 36          | OSRAM SYLVANIA            | QTP 4x32T8/UNV ISN-SC | IS           | 4          | N    | 0.88                       | Parallel        | YES                 | NA             | NA       | NC         | NC       |
| 35  | 37          | Philips-Advance           | ICN-1P32-N            | IS           | 1          | N    | 0.91                       | n.a             | YES                 | NA             | NA       | NC         | NC       |
| 36  | 38          | Philips-Advance           | IOPA-1P32-N           | IS           | 1          | N    | 0.88                       | n.a             | YES                 | NA             | NA       | NC         | NC       |
| 37  | 39          | General Electric          | GE132MAX-G-N          | IS           | 1          | N    | 0.88                       | n.a             | YES                 | NA             | NA       | NC         | NC       |
| 38  | 40          | General Electric          | GE132MAX-H/ULTRA      | IS           | 1          | H    | 1.18                       | n.a             | NO                  | NA             | NA       | NC         | NC       |
| 39  | 41          | General Electric          | GE132MAX-L/ULTRA      | IS           | 1          | L    | 0.78                       | n.a             | YES                 | NA             | NA       | NC         | NC       |
| 40  | 42          | General Electric          | GE132MAXP-N/ULTRA     | IS           | 1          | N    | 0.88                       | n.a             | YES                 | NA             | NA       | C          | C        |
| 41  | 43          | OSRAM SYLVANIA            | QHE 1X32T8/UNV ISN-SC | IS           | 1          | N    | 0.88                       | n.a             | YES                 | NA             | NA       | C          | C        |
| 42  | 44          | OSRAM SYLVANIA            | QHE 1X32T8/UNV ISL-SC | IS           | 1          | L    | 0.78                       | n.a             | YES                 | NA             | NA       | C          | C        |
| 43  | 46          | ESPEN                     | VE232MVH1PLE          | IS           | 2          | L    | 0.77                       | Parallel        | YES                 | C              | C        | C          | C        |
| 44  | 48          | Philips-Advance           | REB-2P32-SC           | IS           | 2          | N    | 0.88                       | Parallel        | YES                 | NC             | NA       | NC         | NA       |
| 45  | 49          | General Electric          | GE232MV-N-DIY         | IS           | 2          | N    | 0.88                       | Parallel        | YES                 | C              | C        | C          | C        |
| 46  | 51          | General Electric          | GE232MAX-L/ULTRA      | IS           | 2          | L    | 0.78                       | Parallel        | YES                 | NC             | NC       | NC         | NC       |
| 47  | 52          | General Electric          | GE232MAX347-N         | IS           | 2          | H    | 1.02                       | Parallel        | NO                  | NA             | F (347V) | NA         | F (347V) |
| 48  | 53          | Halco                     | EP232IS/MV/HE         | IS           | 2          | N    | 0.88                       | Parallel        | YES                 | C              | C        | C          | C        |
| 49  | 54          | Universal Lighting Techno | B232IUNVHEH-A         | IS           | 2          | H    | 1.18                       | Parallel        | NO                  | HT             | HT       | HT         | HT       |
| 50  | 56          | HOWARD INDUSTRIES         | EPH2/32IS/MV/MC/HE    | IS           | 2          | H    | 1.18                       | Parallel        | NO                  | HT             | HT       | C          | C        |
| 51  | 58          | MAXLITE                   | SKEU322HEL/SC         | IS           | 2          | L    | 0.77                       | Parallel        | YES                 | C              | C        | C          | C        |
| 52  | 59          | KEYSTONE                  | KTEB-232-UV-IS-N-P    | IS           | 2          | N    | 0.87                       | Parallel        | YES                 | C              | F        | C          | C        |
| 53  | 61          | Philips-Advance           | IOPA-3P32-N           | IS           | 3          | N    | 0.86                       | Parallel        | YES                 | N              | N        | N          | N        |
| 54  | 62          | Philips-Advance           | IOP-3P32-N            | IS           | 3          | N    | 0.87                       | Parallel        | YES                 | N              | N        | N          | N        |
| 55  | 63          | General Electric          | GE332MV-N             | IS           | 3          | N    | 0.87                       | Parallel        | YES                 | C              | C        | C          | C        |
| 56  | 64          | General Electric          | GE332MAX-N/ULTRA      | IS           | 3          | N    | 0.88                       | Parallel        | YES                 | C              | C        | C          | C        |
| 57  | 66          | General Electric          | GE332MAX-G-N          | IS           | 3          | N    | 0.87                       | Parallel        | YES                 | C              | C        | C          | C        |
| 58  | 67          | General Electric          | GE332MAXP-H/ULTRA     | IS           | 3          | H    | 1.18                       | Parallel        | NO                  | HT             | HT       | HT         | HT       |
| 59  | 68          | OSRAM SYLVANIA            | QTP 3X32T8/UNV ISN-SC | IS           | 3          | N    | 0.88                       | Parallel        | YES                 | C              | C        | C          | C        |
| 60  | 69          | OSRAM SYLVANIA            | QHE 3X32T8/UNV ISN-SC | IS           | 4          | N    | 0.88                       | Parallel        | YES                 | C              | C        | C          | C        |
| 61  | 70          | OSRAM SYLVANIA            | QHE 3X32T8/UNV ISL-SC | IS           | 3          | L    | 0.78                       | Parallel        | YES                 | C              | C        | C          | C        |
| 62  | 71          | Universal Lighting Techno | B332IUNVHP-A          | IS           | 3          | N    | 0.88                       | Parallel        | YES                 | C              | C        | C          | C        |
| 63  | 72          | MAXLITE                   | SKEU324HE/SC          | IS           | 4          | N    | 0.88                       | Parallel        | YES                 | C              | C        | C          | C        |
| 64  | 73          | MAXLITE                   | SKEU323L/SC           | IS           | 3          | L    | 0.78                       | Parallel        | YES                 | C              | C        | C          | C        |
| 65  | 74          | Halco                     | EP332IS/MV/HE         | IS           | 3          | N    | 0.87                       | Parallel        | YES                 | C              | C        | C          | C        |
| 66  | 76          | Universal Lighting Techno | B432IUNVHP-A          | IS           | 4          | N    | 0.88                       | Parallel        | YES                 | C              | C        | C          | C        |
| 67  | 77          | Halco                     | EP432IS/MV/HE         | IS           | 4          | N    | 0.88                       | Parallel        | YES                 | C              | C        | C          | C        |
| 68  | 78          | Halco                     | EP432IS/L/MV/HE       | IS           | 4          | L    | 0.78                       | Parallel        | YES                 | C              | C        | C          | C        |
| 69  | 79          | Philips-Advance           | REB-4P32-SC           | IS           | 4          | N    | 0.81                       | Parallel        | YES                 | NC             | NA       | NC         | NA       |

| LED-15T8-8XXBC48-G3<br>Ballast Compatibility List |             |                          |                           |              |            | NC   | Incompatible               |                 |                     |            | P         | PF <0.85       |           |
|---|-------------|--------------------------|---------------------------|--------------|------------|------|----------------------------|-----------------|---------------------|------------|-----------|----------------|-----------|
|   |             |                          |                           |              |            | N    | Acoustic noise >20dB       |                 |                     |            | T         | THD >30%       |           |
|   |             |                          |                           |              |            | S    | Can't start-up             |                 |                     |            | C         | Compatible     |           |
|   |             |                          |                           |              |            | F    | Flicker after >2s start-up |                 |                     |            | /         | Not tested     |           |
|   |             |                          |                           |              |            | HT   | High temperature           |                 |                     |            | NA        | Not applicable |           |
| No  | Ballast No. | Ballast Brand            | Part Number               | Start Method | # of Lamps | BF   |                            | Lamp Connection | Enclosed fixtures ? | N-1 Lamp   |           | N Lamp         |           |
|   |             |                          |                           |              |            | Type | Value                      |                 |                     | DR G5S 15W |           | DR G5S 15W     |           |
|   |             |                          |                           |              |            |      |                            |                 |                     | 120Vac     | 277Vac    | 120Vac         | 277Vac    |
| 70  | 80          | Philips-Advance          | IOP-4P32-HL-SC            | IS           | 4          | H    | 1.18                       | Parallel        | NO                  | NC         | NC        | NC             | NC        |
| 71  | 82          | General Electric         | GE432MV-N-42T             | IS           | 4          | N    | 0.93                       | Parallel        | YES                 | NC         | NC        | NC             | NC        |
| 72  | 83          | General Electric         | GE432MAX-N/ULTRA          | IS           | 4          | N    | 0.88                       | Parallel        | YES                 | C          | C         | C              | C         |
| 73  | 84          | General Electric         | GE432MAX347-N             | IS           | 4          | N    | 0.94                       | Parallel        | YES                 | NA         | C, (347V) | NA             | C, (347V) |
| 74  | 85          | MAXLITE                  | MLEU322HEL/SC             | IS           | 2          | N    | 0.83                       | Parallel        | YES                 | C          | C         | C              | C         |
| 75  | 86          | MAXLITE                  | MLEU323H/SC               | IS           | 3          | H    | 1.18                       | Parallel        | NO                  | NC         | NC        | NC             | NC        |
| 76  | 87          | TCP                      | E2P32ISUNVHE              | IS           | 2          | H    | 1.18                       | Parallel        | NO                  | NC         | F         | NC             | F         |
| 77  | 88          | TCP                      | E4P32ISUNVLE              | IS           | 4          | L    | 0.78                       | Parallel        | YES                 | F          | F         | F              | F         |
| 78  | 89          | Universal Lighting Techn | B232I120RES-A             | IS           | 2          | N    | 0.88                       | Parallel        | YES                 | P, T       | NA        | P, T           | NA        |
| 79  | 91          | General Electric         | GE232MAXP90-V60           | IS           | 2          | H    | 1.18                       | Parallel        | NO                  | NC         | NC        | NC             | NC        |
| 80  | 92          | HOWARD INDUSTRIES        | E2/32IS-120MC             | IS           | 2          | N    | 0.88                       | Parallel        | YES                 | P, T       | NA        | C              | NA        |
| 81  | 93          | HOWARD INDUSTRIES        | EPL2/32IS/MV/MC/HE        | IS           | 2          | L    | 0.78                       | Parallel        | YES                 | F          | F         | F              | F         |
| 82  | 94          | PLUSRITE                 | BAF232IS/MV               | IS           | 2          | N    | 0.89                       | Parallel        | YES                 | C          | C         | C              | C         |
| 83  | 95          | General Electric         | GE332MAXP90-V60           | IS           | 3          | H    | 1.18                       | Parallel        | NO                  | NC         | NC        | NC             | NC        |
| 84  | 96          | General Electric         | GE432MAXP90-S60           | IS           | 4          | H    | 1.18                       | Parallel        | NO                  | NC         | NC        | NC             | NC        |
| 85  | 97          | EIKO                     | PM-2X32T8-UNV-IS-L        | IS           | 2          | L    | 0.77                       | Parallel        | YES                 | C          | C         | C              | C         |
| 86  | 98          | EIKO                     | PM-3X32T8-UNV-IS          | IS           | 3          | N    | 0.87                       | Parallel        | YES                 | C          | C         | C              | C         |
| 87  | 99          | EIKO                     | PM-3X32T8-UNV-IS-H        | IS           | 3          | H    | 1.18                       | Parallel        | NO                  | HT         | HT        | C              | C         |
| 88  | 200         | EIKO                     | PM-3X32T8-UNV-IS-L        | IS           | 3          | L    | 0.78                       | Parallel        | YES                 | C          | C         | C              | C         |
| 89  | 201         | HOWARD INDUSTRIES        | EPL3/32IS/MV/SC/HE        | IS           | 3          | L    | 0.78                       | Parallel        | YES                 | C          | C         | C              | C         |
| 90  | 202         | PLUSRITE                 | BAF332IS/MV               | IS           | 3          | N    | 0.88                       | Parallel        | YES                 | C          | C         | C              | C         |
| 91  | 203         | TCP                      | E3P32ISUNVE               | IS           | 3          | N    | 0.88                       | Parallel        | YES                 | C          | C         | C              | C         |
| 92  | 204         | TCP                      | E3P32ISUNVLE              | IS           | 3          | L    | 0.78                       | Parallel        | YES                 | C          | F         | C              | C         |
| 93  | 205         | TCP                      | E4P32ISUNVE               | IS           | 4          | N    | 0.88                       | Parallel        | YES                 | C          | C         | C              | C         |
| 94  | 206         | TCP                      | E4P32ISUNVHE              | IS           | 4          | N    | 1.18                       | Parallel        | YES                 | HT         | HT        | HT             | HT        |
| 95  | 207         | HOWARD INDUSTRIES        | EP4/32IS/MV/MC/HE         | IS           | 4          | N    | 0.88                       | Parallel        | YES                 | C          | C         | C              | C         |
| 184   | 208         | Fulham                   | WHCG4-120-T8-IS           | IS           | 4          | N    | 0.86                       | Parallel        | YES                 | NC         | NA        | NC             | NA        |
| 185   | 209         | PES                      | PES120ET8-12SMT-4         | IS           | 4          | N    | 0.88                       | Parallel        | YES                 | NC         | NA        | NC             | NA        |
| 98  | 210         | EIKO                     | PM-4X32T8-UNV-IS          | IS           | 4          | N    | 0.88                       | Parallel        | YES                 | C          | C         | C              | C         |
| 99  | 211         | EIKO                     | PM-4X32T8-UNV-IS-L        | IS           | 4          | L    | 0.78                       | Parallel        | YES                 | C          | C         | C              | C         |
| 100   | 212         | Universal Lighting Techn | B132IUNVHP-N              | IS           | 1          | N    | 0.88                       | n.a             | YES                 | NA         | NA        | C              | C         |
| 101   | 213         | SOLA                     | E-758-U-232-MC            | IS           | 2          | N    | 0.88                       | Parallel        | YES                 | NC         | F, N      | NC             | F, N      |
| 102   | 214         | HOWARD INDUSTRIES        | EP2/32IS/MV/MC/HE         | IS           | 2          | N    | 0.89                       | Parallel        | YES                 | C          | C         | C              | C         |
| 103   | 215         | HOWARD INDUSTRIES        | EP3 / 32IS / MV / MC / HE | IS           | 3          | N    | 0.88                       | Parallel        | YES                 | C          | C         | C              | C         |
| 104   | 216         | WORK HORSE               | WHSG3-UNV-T8-IS           | IS           | 3          | N    | 0.99                       | Parallel        | YES                 | C          | C         | C              | C         |
| 105   | 217         | WORK HORSE               | WHSG4-UNV-T8-IS           | IS           | 4          | N    | 0.96                       | Parallel        | YES                 | C          | C         | C              | C         |
| 106   | 218         | KEYSTONE                 | KTEB-432RIS-1-TP-SL       | IS           | 4          | N    | 0.80                       | Parallel        | YES                 | NC         | NA        | NC             | NA        |
| 107   | 219         | MAXLITE                  | MLEU324HE/SC              | IS           | 4          | N    | 0.88                       | Parallel        | YES                 | C          | C         | C              | C         |
| 108   | 220         | SUNPARK                  | 120-1/32IS HPF            | IS           | 1          | N    | 0.88                       | NA              | YES                 | NA         | NA        | T              | NA        |
| 109   | 221         | Superior Life            | 70201                     | IS           | 2          | N    | 0.88                       | Parallel        | YES                 | C          | F         | C              | C         |
| 110   | 222         | SUNPARK                  | U-2/32IS HBF              | IS           | 2          | H    | 1.18                       | Parallel        | NO                  | C          | C         | C              | C         |
| 111   | 223         | SUNPARK                  | U-2/32ISE-LBF             | IS           | 2          | L    | 0.78                       | Parallel        | YES                 | C          | C         | C              | C         |
| 112   | 224         | SUNPARK                  | U-3/32ISE                 | IS           | 3          | N    | 0.88                       | Parallel        | YES                 | C          | C         | C              | C         |
| 113   | 225         | SUNPARK                  | U-3/32ISE-HBF             | IS           | 3          | H    | 1.18                       | Parallel        | NO                  | HT         | HT        | C              | C         |
| 114   | 226         | SUNPARK                  | 120-3/32IS MPF            | IS           | 3          | N    | 0.88                       | Parallel        | YES                 | NC         | NA        | NC             | NA        |
| 115   | 227         | SUNPARK                  | U-4/32IS HP, F            | IS           | 4          | N    | 0.88                       | Parallel        | YES                 | C          | C         | C              | C         |
| 116   | 228         | SUNPARK                  | U-4/32IS HBF              | IS           | 4          | H    | 1.18                       | Parallel        | NO                  | HT         | HT        | C              | C         |
| 117   | 229         | SUNPARK                  | U-4/32ISE-LBF             | IS           | 4          | L    | 0.77                       | Parallel        | YES                 | C          | C         | C              | C         |
| 206   | 230         | Philips-Advance          | ICN-4P32-SC               | IS           | 4          | N    | 0.89                       | Parallel        | YES                 | C          | C         | C              | C         |
| 119   | 231         | EIKO                     | PM-2X32T8-UNV-IS          | IS           | 2          | N    | 0.87                       | Parallel        | YES                 | C          | C         | C              | C         |
| 120   | 232         | KEYSTONE                 | KTEB-332-UV-IS-N-P        | IS           | 3          | N    | 0.87                       | Parallel        | YES                 | C          | C         | C              | C         |
| 121   | 233         | KEYSTONE                 | KTEB-432-UV-IS-N-P        | IS           | 4          | N    | 0.87                       | Parallel        | YES                 | C          | C         | C              | C         |
| 122   | 234         | General Electric         | GE432MAX-H/ULTRA          | IS           | 4          | H    | 1.18                       | Parallel        | NO                  | HT         | HT        | C              | C         |
| 123   | 235         | Philips-Advance          | ICN-3P32-N                | IS           | 3          | N    | 0.88                       | Parallel        | YES                 | N          | N         | N              | N         |
| 124   | 236         | Halco                    | EP232IS/L/MV/HE           | IS           | 2          | L    | 0.78                       | Parallel        | YES                 | C          | C         | C              | C         |
| 125   | 237         | Halco                    | EP232IS/H/MV/HE           | IS           | 2          | H    | 1.18                       | Parallel        | NO                  | HT         | HT        | C              | C         |
| 126   | 238         | Halco                    | EP332IS/L/MV/HE           | IS           | 3          | L    | 0.78                       | Parallel        | YES                 | C          | C         | C              | C         |
| 127   | 239         | Halco                    | EP432IS/120/MC            | IS           | 4          | N    | 0.88                       | Parallel        | YES                 | C          | NA        | C              | NA        |
| 128   | 240         | Philips-Advance          | VEL-2P32-SC               | IS           | 2          | N    | 0.88                       | Parallel        | YES                 | NA         | T         | NA             | C         |
| 129   | 241         | Universal Lighting Techn | B232IUNVHP-B              | IS           | 2          | N    | 0.88                       | Parallel        | YES                 | F          | C         | F              | C         |
| 130   | 242         | OSRAM SYLVANIA           | QTP2x32T8/277 ISN-D       | IS           | 2          | L    | 0.78                       | Parallel        | YES                 | NA         | C         | NA             | C         |
| 131   | 243         | KEYSTONE                 | KTEB-232LBF-1-TP-PIC-EV   | IS           | 2          | N    | 0.88                       | Parallel        | YES                 | S          | NA        | S              | NA        |
| 132   | 244         | HATCH                    | HL232BIS/UV/HE/W          | IS           | 2          | N    | 0.9                        | Parallel        | YES                 | C          | C         | C              | C         |
| 133   | 245         | HATCH                    | HL432BIS/UV/HE/W          | IS           | 4          | N    | 0.9                        | Parallel        | YES                 | C          | C         | C              | C         |
| 134   | 246         | HOWARD INDUSTRIES        | EPH3/32IS/MV/MC/HE        | IS           | 3          | N    | 0.91                       | Parallel        | NO                  | HT         | HT        | HT             | HT        |
| 135   | 247         | ARCATA                   | ACT 3P32ISUNVLE           | IS           | 3          | L    | 0.78                       | Parallel        | YES                 | C          | C         | C              | C         |

| LED-15T8-8XXBC48-G3<br>Ballast Compatibility List |             |                           |                           |              |            | NC   | Incompatible               |                 | P                   | PF <0.85       |           |            |           |
|---|-------------|---------------------------|---------------------------|--------------|------------|------|----------------------------|-----------------|---------------------|----------------|-----------|------------|-----------|
|   |             |                           |                           |              |            | N    | Acoustic noise >20dB       |                 | T                   | THD >30%       |           |            |           |
|   |             |                           |                           |              |            | S    | Can't start-up             |                 | C                   | Compatible     |           |            |           |
|   |             |                           |                           |              |            | F    | Flicker after >2s start-up |                 | /                   | Not tested     |           |            |           |
|   |             |                           |                           |              |            | HT   | High temperature           |                 | NA                  | Not applicable |           |            |           |
| No  | Ballast No. | Ballast Brand             | Part Number               | Start Method | # of Lamps | BF   |                            | Lamp Connection | Enclosed fixtures ? | N-1 Lamp       |           | N Lamp     |           |
|   |             |                           |                           |              |            | Type | Value                      |                 |                     | DR G5S 15W     |           | DR G5S 15W |           |
|   |             |                           |                           |              |            |      |                            |                 |                     | 120Vac         | 277Vac    | 120Vac     | 277Vac    |
| 136   | 248         | LIGHTING PRODUCTS LIMITED | EB-332EBF-UV-TP-HE        | IS           | 3          | L    | 0.78                       | Parallel        | YES                 | C              | C         | C          | C         |
| 137   | 251         | KEYSTONE                  | KTEB-332-UV-IS-H-P        | IS           | 3          | H    | 1.18                       | Parallel        | NO                  | NC             | NC        | NC         | NC        |
| 138   | 252         | KEYSTONE                  | KTEB-432-UV-IS-H-P        | IS           | 4          | H    | 1.18                       | Parallel        | NO                  | HT             | HT        | HT         | HT        |
| 139   | 253         | TOPAZ                     | B232IUNVHEH/A-TPZ         | IS           | 2          | H    | 1.18                       | Parallel        | NO                  | C              | C         | C          | C         |
| 140   | 256         | DAMAR                     | EL232-120/277HF (1688B)   | IS           | 2          | N    | /                          | Parallel        | YES                 | C              | NC        | C          | C         |
| 141   | 259         | DAMAR                     | EL332HL-120/277HF (3654H) | IS           | 3          | H    | /                          | Parallel        | NO                  | HT             | HT        | C          | C         |
| 142   | 260         | DAMAR                     | EL432-120/277HF (3093B)   | IS           | 4          | N    | /                          | Parallel        | YES                 | C              | C         | C          | C         |
| 143   | 261         | DAMAR                     | EL432HL-120/277HF (3093C) | IS           | 4          | H    | /                          | Parallel        | NO                  | C              | F         | C          | C         |
| 144   | 262         | Philips-Advance           | IOPA-2P32-HL-N            | IS           | 2          | H    | 1.18                       | Parallel        | NO                  | N              | N         | N          | N         |
| 145   | 263         | Plusrite                  | BAF2321S/MV/L             | IS           | 2          | L    | 0.78                       | Parallel        | YES                 | C              | C         | C          | C         |
| 146   | 264         | Plusrite                  | BAF3321S/MV/L             | IS           | 3          | L    | 0.78                       | Parallel        | YES                 | N              | N         | N          | N         |
| 147   | 265         | Plusrite                  | BAF4321S/MV               | IS           | 4          | N    | 0.88                       | Parallel        | YES                 | C              | C         | C          | C         |
| 148   | 266         | Plusrite                  | BAF4321S/MV/L             | IS           | 4          | L    | 0.78                       | Parallel        | YES                 | C              | C         | C          | C         |
| 149   | 268         | Watran                    | DB-232N-MV-TP-HE          | IS           | 2          | N    | 0.87                       | Parallel        | YES                 | C              | C         | C          | C         |
| 150   | 269         | Watran                    | DB-332N-MV-TP-HE          | IS           | 3          | N    | 0.87                       | Parallel        | YES                 | C              | C         | C          | C         |
| 151   | 270         | Watran                    | DB-432N-MV-TP-HE          | IS           | 4          | N    | 0.87                       | Parallel        | YES                 | F              | C         | F          | C         |
| 152   | 271         | Watran                    | DB-432L-MV-TP-HE          | IS           | 4          | L    | 0.77                       | Parallel        | YES                 | C              | C         | C          | C         |
| 153   | 272         | Watran                    | DB-232N-MV-TP-HE (SC)     | IS           | 2          | N    | 0.87                       | Parallel        | YES                 | C              | C         | C          | C         |
| 154   | 273         | ACT                       | ACT 2P32ISUNVE            | IS           | 2          | N    | 0.89                       | Parallel        | YES                 | C              | C         | C          | C         |
| 155   | 274         | ANTRON ELECTRONICS        | A32T8MICLO                | IS           | 2          | L    | 0.78                       | Parallel        | YES                 | C              | C         | C          | C         |
| 156   | 277         | EIKO                      | PM-2x32T8-UNV-IS-H        | IS           | 2          | H    | 1.18                       | Parallel        | NO                  | HT             | HT        | C          | C         |
| 254   | 278         | KEYSTONE                  | KTLD-2T8LED-UV-IS-VDIM    | IS           | 2          | /    | /                          | Parallel        | NO                  | S              | S         | S          | S         |
| 158   | 279         | OSRAM SYLVANIA            | QHE 3x32T8/UNV ISH HT-SC  | IS           | 3          | H    | 1.18                       | Parallel        | NO                  | HT             | HT        | HT         | HT        |
| 159   | 280         | Philips-Advance           | VEL-2P32-RH-TP            | IS           | 2          | N    | /                          | Parallel        | YES                 | NA             | P, T      | NA         | P, T      |
| 160   | 281         | OSRAM SYLVANIA            | QHE 4x32T8/UNV ISH HT-1   | IS           | 4          | H    | 1.18                       | Parallel        | NO                  | NC             | NC        | NC         | NC        |
| 161   | 282         | Philips-Advance           | IOP-3P32HL-90C-SC         | IS           | 3          | H    | 1.22                       | Parallel        | NO                  | NC             | NC        | NC         | NC        |
| 162   | 283         | TCP                       | TCP3P32ISUNVH             | IS           | 3          | H    | 1.18                       | Parallel        | NO                  | HT             | HT        | C          | C         |
| 163   | 284         | Philips-Advance           | IOP-4P32-SC               | IS           | 4          | N    | 0.87                       | Parallel        | YES                 | S              | S         | S          | S         |
| 164   | 286         | Philips-Advance           | IOPA-4P32-SC              | IS           | 4          | N    | 0.92                       | Parallel        | YES                 | C              | C         | C          | C         |
| 165   | 287         | Universal Lighting Techno | B432IUNVHE-A              | IS           | 4          | N    | 0.87                       | Parallel        | YES                 | C              | C         | C          | C         |
| 166   | 288         | Universal Lighting Techno | B432IUNVHEH-E             | IS           | 4          | H    | 1.15                       | Parallel        | NO                  | C              | C         | C          | C         |
| 167   | 289         | General Electric          | GE232MAX-G-L              | IS           | 2          | L    | 0.77                       | Parallel        | YES                 | C              | C         | C          | C         |
| 168   | 291         | OSRAM SYLVANIA            | QHE 4x32T8/UNV ISH-SC     | IS           | 4          | H    | /                          | Parallel        | NO                  | NC             | NC        | NC         | NC        |
| 169   | 292         | General Electric          | GE332MAXP-L/ULTRA         | IS           | 3          | L    | 0.77                       | Parallel        | YES                 | C              | C         | C          | C         |
| 170   | 293         | Universal Lighting Techno | B232I277RH-A              | IS           | 4          | H    | 1.09                       | Parallel        | NO                  | NA             | P, T      | NA         | C         |
| 171   | 295         | Pacific Fluorescent       | EB-232IS-120-RES          | IS           | 2          | N    | /                          | Parallel        | YES                 | NC             | NA        | NC         | NA        |
| 172   | 296         | OSRAM SYLVANIA            | QT 2x32/347 ISH-SC        | IS           | 2          | H    | 1.20                       | Parallel        | NO                  | NA             | C, (347V) | NA         | C, (347V) |
| 173   | 297         | OSRAM SYLVANIA            | QHE 1X32T8/UNV ISH-SC     | IS           | 1          | L    | 0.77                       | NA              | YES                 | NA             | NA        | C          | C         |
| 174   | 298         | Philips-Advance           | ICN-132-MC                | IS           | 1          | N    | 0.88                       | NA              | YES                 | NA             | NA        | NC         | NC        |
| 175   | 299         | Philips-Advance           | ICN-2P16-TLED-N           | IS           | 2          | N    | /                          | NA              | YES                 | NC             | NC        | NC         | NC        |
| 176   | 1001        | Philips-Advance           | ICN-4P16-TLED-N           | IS           | 4          | N    | /                          | Parallel        | YES                 | NC             | NC        | NC         | NC        |
| 177   | 1002        | ESPEN                     | VE2P32MVHIPE              | IS           | 2          | N    | 0.89                       | Parallel        | YES                 | C              | C         | C          | C         |
| 178   | 1003        | General Electric          | GE232MAX-G-N              | IS           | 2          | N    | 0.88                       | Parallel        | YES                 | C              | C         | C          | C         |
| 179   | 1004        | Universal Lighting Techno | B332IHRVHB-E              | IS           | 3          | H    | /                          | Parallel        | NO                  | S              | S         | S          | S         |
| 180   | 1005        | General Electric          | GE-232-MAX-H-42T          | IS           | 2          | H    | /                          | Parallel        | NO                  | HT             | HT        | HT         | HT        |
| 181   | 1006        | General Electric          | GE432MAX-H-42T            | IS           | 4          | H    | /                          | Parallel        | NO                  | HT             | HT        | HT         | HT        |
| 182   | 1007        | Cooper Lighting           | CL-432ISUNV-R1-B          | IS           | 4          | H    | 1.18                       | Parallel        | NO                  | C              | C         | C          | C         |
| 183   | 1008        | TCP                       | E3P32ISUNVHE              | IS           | 3          | H    | /                          | Parallel        | NO                  | HT             | HT        | F          | NC        |
| 184   | 1009        | General Electric          | 332MAX-H-84TS             | IS           | 3          | H    | /                          | Parallel        | NO                  | HT             | HT        | HT         | HT        |
| 185   | 1010        | General Electric          | 332MAX-H-42T              | IS           | 3          | H    | /                          | Parallel        | NO                  | HT             | HT        | HT         | HT        |
| 186   | 1011        | General Electric          | GE432MAX-G-H              | IS           | 4          | H    | 1.18                       | Parallel        | NO                  | HT             | HT        | C          | C         |
| 187   | 1012        | Philips-Advance           | ICN-3P32-SC               | IS           | 3          | N    | 0.89                       | Parallel        | YES                 | C              | C         | C          | C         |
| 188   | 1013        | Philips-Advance           | VEL-3P32-SC               | IS           | 3          | N    | 0.88                       | Parallel        | YES                 | NA             | C         | NA         | C         |
| 189   | 1014        | Philips-Advance           | REL-2P32-RH-TP            | IS           | 2          | H    | /                          | Parallel        | NO                  | P, T           | NA        | P, T       | NA        |
| 190   | 1017        | KEYSTONE                  | KTEB-232-UV-IS-L-P        | IS           | 2          | L    | /                          | Parallel        | YES                 | C              | C         | C          | C         |
| 191   | 1020        | Universal Lighting Techno | B332I277RH-A              | IS           | 3          | N    | 0.88                       | Parallel        | YES                 | NA             | P, T      | NA         | C         |
| 192   | 1021        | Philips-Advance           | IOPA-2P32-LW-N            | IS           | 2          | L    | 0.76                       | Parallel        | YES                 | C              | C         | C          | C         |
| 193   | 1022        | Philips-Advance           | IOPA-4P32-LW-N            | IS           | 4          | L    | 0.76                       | Parallel        | YES                 | C              | C         | C          | C         |
| 194   | 1023        | OSRAM SYLVANIA            | QHE 4X32T8/UNV ISH        | IS           | 4          | H    | /                          | Parallel        | NO                  | C              | C         | C          | C         |
| 195   | 1025        | SYLVANIA                  | QT 4x32 T8/347 ISN-SC     | IS           | 4          | N    | /                          | Parallel        | YES                 | NA             | N, (347V) | NA         | N, (347V) |
| 196   | 1026        | OSRAM                     | QHE 2X32T8/347 ISN-SC     | IS           | 2          | H    | /                          | Parallel        | NO                  | NA             | C, (347V) | NA         | C, (347V) |
| 197   | 1027        | OSRAM                     | QHE 4X32T8/347 ISN-SC     | IS           | 4          | H    | /                          | Parallel        | NO                  | NA             | C, (347V) | NA         | C, (347V) |
| 198   | 1028        | Philips-Advance           | IOPA-3P32-LW-SC           | IS           | 3          | L    | 0.78                       | Parallel        | YES                 | C              | C         | C          | C         |
| 199   | 1029        | STANDARD                  | E232T8IS120-277/N/AS      | IS           | 2          | N    | 0.88                       | Parallel        | YES                 | C              | C         | C          | C         |
| 200   | 1030        | General Electric          | GE232MAXP-N/ULTRA         | IS           | 2          | /    | /                          | Parallel        | YES                 | C              | C         | C          | C         |
| 201   | 1031        | General Electric          | GE332MAXP-N/ULTRA         | IS           | 3          | /    | /                          | Parallel        | YES                 | C              | C         | C          | C         |

| LED-15T8-8XXBC48-G3<br>Ballast Compatibility List |             |                          |                         |              |            | NC   | Incompatible               |                 | P                   | PF <0.85       |           |            |           |
|---|-------------|--------------------------|-------------------------|--------------|------------|------|----------------------------|-----------------|---------------------|----------------|-----------|------------|-----------|
|   |             |                          |                         |              |            | N    | Acoustic noise >20dB       |                 | T                   | THD >30%       |           |            |           |
|   |             |                          |                         |              |            | S    | Can't start-up             |                 | C                   | Compatible     |           |            |           |
|   |             |                          |                         |              |            | F    | Flicker after >2s start-up |                 | /                   | Not tested     |           |            |           |
|   |             |                          |                         |              |            | HT   | High temperature           |                 | NA                  | Not applicable |           |            |           |
| No  | Ballast No. | Ballast Brand            | Part Number             | Start Method | # of Lamps | BF   |                            | Lamp Connection | Enclosed fixtures ? | N-1 Lamp       |           | N Lamp     |           |
|   |             |                          |                         |              |            | Type | Value                      |                 |                     | DR G5S 15W     |           | DR G5S 15W |           |
|   |             |                          |                         |              |            |      |                            |                 |                     | 120Vac         | 277Vac    | 120Vac     | 277Vac    |
| 202   | 1032        | SYLVANIA                 | QT 2x32277 IS-SC        | IS           | 2          | /    | /                          | Parallel        | YES                 | NA             | P, T      | NA         | C         |
| 203   | 1033        | General Electric         | GE332MAX-NSL84T         | IS           | 3          | /    | /                          | Parallel        | NO                  | NC             | NC        | NC         | NC        |
| 204   | 1034        | General Electric         | GE432MV-N               | IS           | 4          | /    | /                          | Parallel        | YES                 | C              | C         | C          | C         |
| 205   | 1035        | Philips-Advance          | IOP-1P32-LW-N           | IS           | 1          | L    | 0.77                       | Parallel        | YES                 | NA             | NA        | C          | C         |
| 206   | 1036        | Philips-Advance          | IOP-1P32-SC             | IS           | 1          | N    | 0.87                       | Parallel        | YES                 | NA             | NA        | C          | C         |
| 207   | 1037        | Philips-Advance          | IOP-2P32-LW-SC          | IS           | 2          | L    | 0.77                       | Parallel        | YES                 | C              | T         | C          | F         |
| 208   | 1038        | Philips-Advance          | IOP-3P32-LW-SC          | IS           | 3          | L    | 0.77                       | Parallel        | YES                 | C              | F         | C          | F         |
| 209   | 1039        | Philips-Advance          | IOP-4P32-LW-SC          | IS           | 4          | L    | 0.77                       | Parallel        | YES                 | NC             | NC        | NC         | NC        |
| 210   | 1040        | Universal Lighting Techn | B132IUNVEL-A            | IS           | 1          | L    | 0.77                       | Parallel        | YES                 | NA             | NA        | C          | C         |
| 211   | 1042        | SYLVANIA                 | QT 2X32/347LP           | IS           | 2          | /    | /                          | Parallel        | NO                  | NA             | N, (347V) | NA         | N, (347V) |
| 212   | 1043        | SYLVANIA                 | QT 4X32/347LP           | IS           | 4          | /    | /                          | Parallel        | NO                  | NA             | N, (347V) | NA         | N, (347V) |
| 213   | 1047        | Philips-Advance          | ICN-3P16-TLED-N         | IS           | 3          | N    | /                          | Parallel        | YES                 | NC             | NC        | NC         | NC        |
| 214   | 1050        | STANDARD                 | E432T8IS347/N/BULK      | IS           | 4          | /    | /                          | Parallel        |                     | C, (347V)      | /         | S, (347V)  | /         |
| 215   | 1051        | MOTOROLA                 | M2-IN-T8-GP-D-277       | IS           | 2          | /    | /                          | Parallel        |                     | /              | C         | /          | C         |
| 216   | 1052        | MOTOROLA                 | M3-IN-T8-GP-A-277       | IS           | 3          | /    | /                          | Parallel        | YES                 | /              | C         | /          | C         |
| 217   | 1085        | OSRAM SYLVANIA           | QT3x32T8/277 ISN-A      | IS           | 3          | /    | /                          | Parallel        |                     | NA             | C         | NA         | C         |
| 224   | 101         | Philips-Advance          | IOP-2PSP32-N            | PS           | 2          | N    | 0.94                       | Parallel        | YES                 | S              | S         | S          | S         |
| 225   | 102         | Philips-Advance          | IOP-3PSP32-SC           | PS           | 3          | N    | 0.88                       | Parallel        | YES                 | C              | C         | C          | C         |
| 220   | 103         | Philips-Advance          | IOP-3PSP32-LW-SC        | PS           | 3          | L    | 0.69                       | Parallel        | YES                 | NC             | NC        | NC         | NC        |
| 221   | 104         | Philips-Advance          | IOP-4PSP32-SC ( REV A ) | PS           | 4          | N    | 0.89                       | Parallel        | YES                 | C              | C         | C          | C         |
| 222   | 105         | Philips-Advance          | IOP-4PSP32-LW-SC        | PS           | 4          | L    | 0.69                       | Parallel        | YES                 | C              | C         | C          | C         |
| 223   | 106         | OSRAM SYLVANIA           | QHE 4X32T8/UNV PSX-SC   | PRS          | 4          | L    | 0.71                       | Parallel        | YES                 | S              | S         | S          | S         |
| 224   | 107         | OSRAM SYLVANIA           | QHE 2X32T8/UNV PSH-HT   | PRS          | 2          | H    | 1.18                       | Parallel        | NO                  | C              | C         | C          | C         |
| 225   | 108         | Philips-Advance          | IOP-2S32-SC             | PS           | 2          | N    | 0.87                       | Series          | YES                 | NC             | NC        | NC         | NC        |
| 226   | 109         | Philips-Advance          | IOT-2S32-SC             | DPS          | 2          | N    | 1.00                       | Series          | YES                 | NC             | NC        | NC         | NC        |
| 227   | 110         | ESPEN                    | VE232MVHRPHT3-AB        | DPS          | 2          | H    | 1.20                       | Series          | NO                  | S              | S         | S          | S         |
| 228   | 111         | PES                      | PES120DET8              | PS           | 2          | N    | 0.95                       | Parallel        | YES                 | NC             | NA        | NC         | NA        |
| 229   | 112         | Universal Lighting Techn | B432PUNVHE-A            | PS           | 4          | N    | 0.87                       | Parallel        | YES                 | C              | C         | C          | C         |
| 230   | 113         | General Electric         | GE232-MVPS-N            | PS           | 2          | N    | 0.88                       | Parallel        | YES                 | F              | F         | F          | F         |
| 231   | 115         | Universal Lighting Techn | B232PUNVHE-B            | PS           | 2          | N    | 0.88                       | Parallel        | YES                 | C              | P, T      | C          | C         |
| 232   | 117         | Philips-Advance          | IOP-2PSP32-LW-N         | PS           | 2          | L    | 0.71                       | Parallel        | YES                 | C              | C         | C          | C         |
| 233   | 118         | Philips-Advance          | IOT-2PSP32-SC           | DPS          | 2          | N    | 1.00                       | Parallel        | YES                 | S              | S         | S          | S         |
| 234   | 119         | Universal Lighting Techn | B332PUNVHE-A            | PS           | 3          | N    | 0.88                       | Parallel        | YES                 | C              | C         | C          | C         |
| 235   | 120         | General Electric         | GE-332-MVPS-N           | PS           | 3          | N    | 0.88                       | Parallel        | YES                 | C              | C         | C          | C         |
| 236   | 121         | OSRAM SYLVANIA           | QHE 3X32T8/UNV PSN-SC   | PRS          | 3          | N    | 0.88                       | Parallel        | YES                 | F              | F         | F          | F         |
| 237   | 122         | OSRAM SYLVANIA           | QTP 3X32T8/UNV PSX-SC   | PRS          | 3          | L    | 0.71                       | Series          | YES                 | NC             | NC        | NC         | NC        |
| 238   | 123         | OSRAM SYLVANIA           | QTP3X32T8/UNV PSN-SC    | PRS          | 3          | N    | 0.88                       | Series          | YES                 | S              | S         | S          | S         |
| 239   | 124         | General Electric         | GE432-MVPS-N            | PS           | 4          | N    | 0.88                       | Parallel        | YES                 | NC             | NC        | NC         | NC        |
| 240   | 125         | General Electric         | GE432MVPS-N-V03         | PS           | 4          | N    | 0.90                       | Parallel        | YES                 | NC             | NC        | NC         | NC        |
| 241   | 126         | OSRAM SYLVANIA           | QHE 4X32T8/UNV PSN-SC   | PRS          | 4          | N    | 0.88                       | Parallel        | YES                 | F              | F         | F          | F         |
| 242   | 127         | OSRAM SYLVANIA           | QHE 2X32T8/UNV DIM-TC   | PRS          | 2          | N    | 0.88                       | Series          | YES                 | S              | S         | S          | S         |
| 243   | 128         | Watran                   | DBG32N-MV-TP-PS-HL      | PS           | 3          | H    | /                          | Series          | NO                  | S              | S         | S          | S         |
| 244   | 129         | General Electric         | GE-232-MV-PS-N          | PS           | 2          | N    | 0.88                       | Parallel        | YES                 | C              | C         | C          | C         |
| 245   | 130         | KEYSTONE                 | KTEB-2C72-1-TP          | PS           | 1          | N    | 0.97                       | Parallel        | YES                 | NA             | NA        | NC         | NA        |
| 246   | 131         | Robertson                | RSZ132T8120             | PS           | 1          | N    | 0.80                       | n. a            | YES                 | NA             | NA        | NC         | NA        |
| 247   | 132         | PES                      | PES120DET8-12SMT        | PS           | 2          | N    | 0.95                       | Parallel        | YES                 | NC             | NA        | NC         | NA        |
| 248   | 133         | SUNPARK                  | U-1/32PSE               | PS           | 1          | N    | 0.88                       | n. a            | YES                 | NA             | NA        | S          | S         |
| 249   | 134         | SUNPARK                  | U-2/32PSE               | RS           | 2          | N    | 0.88                       | Parallel        | YES                 | S              | S         | S          | S         |
| 250   | 135         | SUNPARK                  | U-2/32PSE-HBF           | RS           | 2          | H    | 1.15                       | Parallel        | NO                  | S              | S         | S          | S         |
| 251   | 136         | SUNPARK                  | U-232PS3                | RS           | 2          | N    | 0.88                       | Series          | YES                 | S              | S         | S          | S         |
| 252   | 137         | SUNPARK                  | U-232PS3-HBF            | RS           | 2          | H    | 1.15                       | Series          | NO                  | NC             | NC        | NC         | NC        |
| 253   | 138         | Superior Life            | 70210                   | PS           | 2          | N    | 0.88                       | Parallel        | YES                 | C              | C         | C          | C         |
| 254   | 139         | Superior Life            | 70211                   | PS           | 4          | N    | 0.87                       | Parallel        | YES                 | C              | C         | C          | C         |
| 255   | 140         | SUNPARK                  | SL15T                   | PS           | 2          | N    | 0.88                       | Series          | YES                 | P, T           | NA        | P, T       | NA        |
| 256   | 141         | SUNPARK                  | LC 12011T               | PS           | 1          | H    | /                          | NA              | NO                  | NA             | NA        | S          | NA        |
| 257   | 142         | SUNPARK                  | LC 12013T               | PS           | 1          | H    | /                          | NA              | NO                  | NA             | NA        | S          | NA        |
| 258   | 143         | Ballast Brand            | DXE118M8                | PRS          | 1          | N    | 0.92                       | n. a            | YES                 | NA             | NA        | NC         | NA        |
| 259   | 144         | EIKO                     | PM-3X32T8-UNV-PS        | PS           | 3          | N    | 0.88                       | Series          | YES                 | S              | S         | S          | S         |
| 260   | 145         | EIKO                     | PM-3X32T8-UNV-PS-H      | PS           | 3          | H    | 1.18                       | Series          | NO                  | S              | S         | S          | S         |
| 261   | 146         | Philips-Advance          | REZ-3S32-SC             | DPS          | 3          | N    | 0.97                       | Series          | YES                 | NC             | NA        | NC         | NA        |
| 262   | 147         | LUTRON                   | EHDT817MU210            | DPRS         | 2          | /    | /                          | Series          | NO                  | NC             | NC        | NC         | NC        |
| 263   | 148         | General Electric         | GE232MVPS-L-S30         | DPS          | 2          | N    | 0.96                       | Parallel        | YES                 | S              | S         | S          | S         |
| 264   | 149         | General Electric         | GE132MVPSN-V03          | DPS          | 1          | N    | 0.88                       | n. a            | YES                 | NA             | NA        | C          | C         |
| 265   | 150         | General Electric         | GE332MVPSN-V03          | DPS          | 3          | N    | 0.98                       | Parallel        | YES                 | S              | S         | S          | S         |
| 266   | 151         | OSRAM SYLVANIA           | QTP2x32T8/UNV DIM-TC    | DPS          | 2          | N    | 0.88                       | Series          | YES                 | S              | S         | S          | S         |
| 267   | 152         | KEYSTONE                 | KTEB-132-1-TP-FC        | RS           | 1          | N    | /                          | NA              | YES                 | NA             | NA        | P, T       | NA        |

| LED-15T8-8XXBC48-G3<br>Ballast Compatibility List |             |                           |                          |              |            | NC   | Incompatible               |                 | P                   | PF <0.85       |           |            |           |
|---|-------------|---------------------------|--------------------------|--------------|------------|------|----------------------------|-----------------|---------------------|----------------|-----------|------------|-----------|
|   |             |                           |                          |              |            | N    | Acoustic noise >20dB       |                 | T                   | THD >30%       |           |            |           |
|   |             |                           |                          |              |            | S    | Can't start-up             |                 | C                   | Compatible     |           |            |           |
|   |             |                           |                          |              |            | F    | Flicker after >2s start-up |                 | /                   | Not tested     |           |            |           |
|   |             |                           |                          |              |            | HT   | High temperature           |                 | NA                  | Not applicable |           |            |           |
| No  | Ballast No. | Ballast Brand             | Part Number              | Start Method | # of Lamps | BF   |                            | Lamp Connection | Enclosed fixtures ? | N-1 Lamp       |           | N Lamp     |           |
|   |             |                           |                          |              |            | Type | Value                      |                 |                     | DR G5S 15W     |           | DR G5S 15W |           |
|   |             |                           |                          |              |            |      |                            |                 |                     | 120Vac         | 277Vac    | 120Vac     | 277Vac    |
| 268   | 153         | Universal Lighting Techno | B332PUNVHEH-A            | PS           | 3          | H    | 1.18                       | Parallel        | NO                  | C              | C         | C          | C         |
| 269   | 154         | Universal Lighting Techno | B232PU104S50A            | PRS          | 2          | H    | 1.04                       | Parallel        | NO                  | S              | S         | S          | S         |
| 270   | 155         | DAMAR                     | EL232DIM/120/277HF       | DPS          | 2          | L    | /                          | Series          | YES                 | S              | S         | S          | S         |
| 271   | 157         | HOWARD INDUSTRIES         | EP2/32PRS/MV/MC/HE       | PRS          | 2          | N    | 0.86                       | Parallel        | YES                 | S              | S         | S          | S         |
| 272   | 158         | HOWARD INDUSTRIES         | EP4/32PPRS/MV/SC/HE      | PRS          | 4          | N    | /                          | Parallel        | YES                 | C              | C         | C          | C         |
| 273   | 159         | KEYSTONE                  | KTEB-126-1-TP-LC         | PS           | 1          | N    | 0.95                       | n.a             | YES                 | NA             | NA        | NC         | NA        |
| 274   | 160         | Philips-Advance           | REZ-2S32-SC              | DPS          | 2          | N    | /                          | Series          | YES                 | S              | NA        | S          | NA        |
| 275   | 161         | OSRAM SYLVANIA            | QHE 1X32T8/UNV DIM-TC    | DPS          | 1          | N    | 0.88                       | na              | YES                 | NA             | NA        | S          | S         |
| 276   | 162         | EIKO                      | PM-2x32T8-UNV-PS-L       | PS           | 2          | L    | 0.78                       | Series          | YES                 | NC             | NC        | NC         | NC        |
| 277   | 163         | EIKO                      | PM-2x32T8-UNV-PS         | PS           | 2          | N    | 0.88                       | Parallel        | YES                 | S              | S         | S          | S         |
| 278   | 164         | EIKO                      | PM-2x32T8-UNV-PS-H       | PS           | 2          | H    | 1.18                       | Series          | NO                  | NC             | NC        | NC         | NC        |
| 279   | 165         | Philips-Advance           | IZT-3PSP32-SC            | DPS          | 3          | H    | 1                          | Parallel        | NO                  | S              | S         | S          | S         |
| 280   | 166         | Philips-Advance           | REZ-132-SC               | DPS          | 1          | H    | 1                          | n.a             | NO                  | NA             | NA        | S          | NA        |
| 281   | 167         | Universal Lighting Techno | B232PUNVHP-A             | PS           | 2          | N    | 0.88                       | Parallel        | YES                 | NC             | NC        | NC         | NC        |
| 282   | 168         | OSRAM SYLVANIA            | QHE 3X32T8/UNV PSH-HT-SC | DPS          | 3          | H    | 1.15                       | Parallel        | NO                  | C              | C         | C          | C         |
| 283   | 169         | OSRAM SYLVANIA            | QHE 4X32T8/UNV DIM-TCL   | DPS          | 4          | N    | 0.88                       | Series          | YES                 | NC             | NC        | NC         | NC        |
| 284   | 170         | OSRAM SYLVANIA            | QHE 3X32T8/UNV DIM-TCL   | DPS          | 3          | N    | 0.88                       | Series          | YES                 | NC             | NC        | NC         | NC        |
| 285   | 171         | OSRAM                     | QHE 2x32T8/347 PSN-SC    | PRS          | 2          | N    | 0.88                       | Parallel        | YES                 | NA             | S, (347V) | NA         | S, (347V) |
| 286   | 172         | OSRAM SYLVANIA            | QHES 2x32T8/UNV PSL-SC   | PRS          | 2          | L    | 0.71                       | Parallel        | YES                 | S              | S         | S          | S         |
| 287   | 173         | EcoSystem                 | EC5T832GUNV3L            | PRS          | 3          | /    | /                          | Parallel        | NO                  | NC             | NC        | NC         | NC        |
| 288   | 174         | Philips-Advance           | VZT-4S32-HL              | DPS          | 4          | /    | /                          | Parallel        | NO                  | NC             | NC        | NC         | NC        |
| 289   | 175         | LUTRON                    | H3DT832CU210             | PRS          | 2          | /    | /                          | Parallel        | NO                  | NC             | NC        | NC         | NC        |
| 290   | 177         | Universal Lighting Techno | B232PUS50-A              | PRS          | 2          | /    | /                          | Parallel        | NO                  | NC             | NC        | NC         | NC        |
| 291   | 178         | Philips-Advance           | IOP-1S32-SC              | PS           | 1          | N    | 0.87                       | Parallel        | YES                 | NA             | NA        | NC         | NC        |
| 292   | 180         | General Electric          | GE-332-MVPS-H            | PS           | 3          | H    | /                          | Parallel        | NO                  | NC             | NC        | NC         | NC        |