

# Lightbulb: "GE Basic LED" 9.5w 60w-equiv 2700 & 5000k



(click for larger)

[I have something to say here, but I don't know what yet.]

I tested the warm and cool 8.5w (60w-equiv) bulbs. See the tests below.

| Type         | A19 lightbulb                 |                                                       |      | Average PPFd<br>(from 12" height)                                                                                                                                                                                                   |                                                                                                                                                              |          |           |    |    |    |    |    |    |    |    |    |
|--------------|-------------------------------|-------------------------------------------------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------|----|----|----|----|----|----|----|----|----|
|              | Model                         | GE "Basic LED" 8.5w<br>60w-equiv soft white 720 lumen |      | Per watt                                                                                                                                                                                                                            | Area                                                                                                                                                         |          |           |    |    |    |    |    |    |    |    |    |
| Watts actual | 8.4                           | Kelvin                                                | 2700 |                                                                                                                                                                                                                                     | Entire                                                                                                                                                       | Inner 8" | Outer 16" |    |    |    |    |    |    |    |    |    |
| Test         | With globe                    |                                                       |      | 1.81                                                                                                                                                                                                                                | 15.2                                                                                                                                                         | 19.4     | 5.8       |    |    |    |    |    |    |    |    |    |
| 8" grid      | 6                             | 11                                                    |      | <b>Notes:</b> Measured 12" distance from grid to surface of LEDs. Part numbers from the packaging:<br><br>PC: 46239<br>Desc: LED9A19-7LT8<br>Res. #1593468<br>SKU: 0 43168 46239 6<br><br>Not dimmable. Purchased July 2019, Lowes. | <table border="1"> <tr><td>17</td><td>21</td><td>16</td></tr> <tr><td>22</td><td>27</td><td>20</td></tr> <tr><td>17</td><td>20</td><td>15</td></tr> </table> |          |           | 17 | 21 | 16 | 22 | 27 | 20 | 17 | 20 | 15 |
| 17           | 21                            | 16                                                    |      |                                                                                                                                                                                                                                     |                                                                                                                                                              |          |           |    |    |    |    |    |    |    |    |    |
| 22           | 27                            | 20                                                    |      |                                                                                                                                                                                                                                     |                                                                                                                                                              |          |           |    |    |    |    |    |    |    |    |    |
| 17           | 20                            | 15                                                    |      |                                                                                                                                                                                                                                     |                                                                                                                                                              |          |           |    |    |    |    |    |    |    |    |    |
| within       | 11                            |                                                       |      |                                                                                                                                                                                                                                     |                                                                                                                                                              |          |           |    |    |    |    |    |    |    |    |    |
| 16" grid     | 6                             | 11                                                    |      |                                                                                                                                                                                                                                     |                                                                                                                                                              |          |           |    |    |    |    |    |    |    |    |    |
| Test         | With globe & 5-1/2" reflector |                                                       |      | 3.89                                                                                                                                                                                                                                | 32.7                                                                                                                                                         | 43.9     | 7.5       |    |    |    |    |    |    |    |    |    |
| 8" grid      | 8                             | 18                                                    |      | 115% increase compared to globe without reflector.                                                                                                                                                                                  | <table border="1"> <tr><td>34</td><td>47</td><td>32</td></tr> <tr><td>48</td><td>71</td><td>46</td></tr> <tr><td>35</td><td>48</td><td>34</td></tr> </table> |          |           | 34 | 47 | 32 | 48 | 71 | 46 | 35 | 48 | 34 |
| 34           | 47                            | 32                                                    |      |                                                                                                                                                                                                                                     |                                                                                                                                                              |          |           |    |    |    |    |    |    |    |    |    |
| 48           | 71                            | 46                                                    |      |                                                                                                                                                                                                                                     |                                                                                                                                                              |          |           |    |    |    |    |    |    |    |    |    |
| 35           | 48                            | 34                                                    |      |                                                                                                                                                                                                                                     |                                                                                                                                                              |          |           |    |    |    |    |    |    |    |    |    |
| within       | 19                            |                                                       |      |                                                                                                                                                                                                                                     |                                                                                                                                                              |          |           |    |    |    |    |    |    |    |    |    |
| 16" grid     | 8                             | 18                                                    |      |                                                                                                                                                                                                                                     |                                                                                                                                                              |          |           |    |    |    |    |    |    |    |    |    |
| Test         | Globeless                     |                                                       |      | 4.05                                                                                                                                                                                                                                | 34.0                                                                                                                                                         | 43.8     | 12.0      |    |    |    |    |    |    |    |    |    |
| 8" grid      | 12                            | 24                                                    |      | 124% increase compared to globe without reflector. 4% increase compared to a globe with reflector.                                                                                                                                  | <table border="1"> <tr><td>37</td><td>47</td><td>36</td></tr> <tr><td>47</td><td>61</td><td>46</td></tr> <tr><td>37</td><td>47</td><td>36</td></tr> </table> |          |           | 37 | 47 | 36 | 47 | 61 | 46 | 37 | 47 | 36 |
| 37           | 47                            | 36                                                    |      |                                                                                                                                                                                                                                     |                                                                                                                                                              |          |           |    |    |    |    |    |    |    |    |    |
| 47           | 61                            | 46                                                    |      |                                                                                                                                                                                                                                     |                                                                                                                                                              |          |           |    |    |    |    |    |    |    |    |    |
| 37           | 47                            | 36                                                    |      |                                                                                                                                                                                                                                     |                                                                                                                                                              |          |           |    |    |    |    |    |    |    |    |    |
| within       | 24                            |                                                       |      |                                                                                                                                                                                                                                     |                                                                                                                                                              |          |           |    |    |    |    |    |    |    |    |    |
| 16" grid     | 12                            | 23                                                    |      |                                                                                                                                                                                                                                     |                                                                                                                                                              |          |           |    |    |    |    |    |    |    |    |    |
| Test         | Globeless & 5-1/2" reflector  |                                                       |      | 5.38                                                                                                                                                                                                                                | 45.2                                                                                                                                                         | 59.7     | 12.5      |    |    |    |    |    |    |    |    |    |
| 8" grid      | 13                            | 26                                                    |      | 197% increase compared to globe without reflector. 38% increase compared to a globe with reflector. 33% increase compared to globeless without reflector.                                                                           | <table border="1"> <tr><td>46</td><td>66</td><td>46</td></tr> <tr><td>62</td><td>92</td><td>66</td></tr> <tr><td>47</td><td>66</td><td>46</td></tr> </table> |          |           | 46 | 66 | 46 | 62 | 92 | 66 | 47 | 66 | 46 |
| 46           | 66                            | 46                                                    |      |                                                                                                                                                                                                                                     |                                                                                                                                                              |          |           |    |    |    |    |    |    |    |    |    |
| 62           | 92                            | 66                                                    |      |                                                                                                                                                                                                                                     |                                                                                                                                                              |          |           |    |    |    |    |    |    |    |    |    |
| 47           | 66                            | 46                                                    |      |                                                                                                                                                                                                                                     |                                                                                                                                                              |          |           |    |    |    |    |    |    |    |    |    |
| within       | 26                            |                                                       |      |                                                                                                                                                                                                                                     |                                                                                                                                                              |          |           |    |    |    |    |    |    |    |    |    |
| 16" grid     | 13                            | 26                                                    |      |                                                                                                                                                                                                                                     |                                                                                                                                                              |          |           |    |    |    |    |    |    |    |    |    |

| Type                          | A19 lightbulb                                       |        |      | Average PPFD<br>(from 12" height) |                                                                                                                                                                                                                                       |          |           |    |
|-------------------------------|-----------------------------------------------------|--------|------|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------|----|
| Model                         | GE "Basic LED" 8.5w<br>60w-equiv daylight 760 lumen |        |      | Per watt                          | Area                                                                                                                                                                                                                                  |          |           |    |
| Watts actual                  | 8.5                                                 | Kelvin | 5000 |                                   | Entire                                                                                                                                                                                                                                | Inner 8" | Outer 16" |    |
| Test                          | With globe                                          |        |      | 2.04                              | 17.3                                                                                                                                                                                                                                  | 22.1     | 6.5       |    |
| 8" grid<br>within<br>16" grid | 7                                                   | 12     |      | 6                                 | <b>Notes:</b> Measured 12" distance from grid to surface of LEDs. Part numbers from packaging:<br>PC: 93097653<br>Desc: LED9A195K-7LT8<br>Res. PK-00100137-1<br>SKU: 0 43168 50128 6<br><br>Non-dimmable. Purchased July 2019, Lowes. |          |           |    |
|                               |                                                     | 19     | 24   |                                   |                                                                                                                                                                                                                                       |          |           | 18 |
|                               | 13                                                  | 24     | 31   |                                   |                                                                                                                                                                                                                                       |          |           | 23 |
|                               |                                                     | 19     | 23   | 18                                | 11                                                                                                                                                                                                                                    |          |           |    |
|                               | 7                                                   | 23     |      | 6                                 |                                                                                                                                                                                                                                       |          |           |    |
| Test                          | With globe & 5-1/2" reflector                       |        |      | 4.24                              | 36.1                                                                                                                                                                                                                                  | 48.1     | 9.0       |    |
| 8" grid<br>within<br>16" grid | 9                                                   | 20     |      | 9                                 | 108% increase compared to globe without reflector.                                                                                                                                                                                    |          |           |    |
|                               |                                                     | 39     | 53   |                                   |                                                                                                                                                                                                                                       |          |           | 35 |
|                               | 21                                                  | 54     | 78   |                                   |                                                                                                                                                                                                                                       |          |           | 50 |
|                               |                                                     | 38     | 51   | 35                                | 18                                                                                                                                                                                                                                    |          |           |    |
|                               | 9                                                   | 19     |      | 9                                 |                                                                                                                                                                                                                                       |          |           |    |
| Test                          | Globeless                                           |        |      | 4.16                              | 35.4                                                                                                                                                                                                                                  | 45.4     | 12.8      |    |
| 8" grid<br>within<br>16" grid | 12                                                  | 25     |      | 13                                | 104% increase compared to globe without reflector. 2% decrease compared to globe with reflector.                                                                                                                                      |          |           |    |
|                               |                                                     | 38     | 48   |                                   |                                                                                                                                                                                                                                       |          |           | 38 |
|                               | 25                                                  | 48     | 63   |                                   |                                                                                                                                                                                                                                       |          |           | 49 |
|                               |                                                     | 38     | 48   | 39                                | 25                                                                                                                                                                                                                                    |          |           |    |
|                               | 13                                                  | 25     |      | 13                                |                                                                                                                                                                                                                                       |          |           |    |
| Test                          | Globeless & 5-1/2" reflector                        |        |      | 5.95                              | 50.5                                                                                                                                                                                                                                  | 66.9     | 13.8      |    |
| 8" grid<br>within<br>16" grid | 14                                                  | 30     |      | 14                                | 192% increase compared to globe without reflector. 140% increase compared to globe with reflector. A 43% increase compared to globeless without reflector.                                                                            |          |           |    |
|                               |                                                     | 53     | 77   |                                   |                                                                                                                                                                                                                                       |          |           | 53 |
|                               | 29                                                  | 74     | 104  |                                   |                                                                                                                                                                                                                                       |          |           | 76 |
|                               |                                                     | 49     | 65   | 51                                | 30                                                                                                                                                                                                                                    |          |           |    |
|                               | 13                                                  | 27     |      | 14                                |                                                                                                                                                                                                                                       |          |           |    |

This is a sample document. The final document (along a summary of test results) will exist here:

[https://drive.google.com/open?id=17eMIIDRQFDNO\\_0XAyrJyh-44NVBhXLz-](https://drive.google.com/open?id=17eMIIDRQFDNO_0XAyrJyh-44NVBhXLz-)