

- 22 c. Listed products with past application issues, including, but not limited to, test reports
23 with reporting issues that question the validity of the test data, supplemental
24 documentation with issues that question the validity of the documentation, and
25 indications of product misrepresentation.
- 26 d. Complaints from stakeholders. Complaints require substantiation before being
27 considered as valid selection criteria.
- 28 e. Products of manufacturers that have chosen not to participate in the surveillance
29 testing investigation after being selected in previous surveillance testing rounds (see
30 section B.2.).
- 31 f. Products of manufacturers that have a history of failing results from previous
32 surveillance testing rounds.
- 33 g. Products randomly selected from the QPL.
- 34 2. The frequency and the number of products selected through the Surveillance Testing Program
35 for each round of testing is at the sole discretion of the DLC. Product selection may focus on one
36 of the criteria above or several. Regardless of the selection criteria, the metrics reported in the
37 testing will remain constant, depending on the type of test ordered (integrating
38 sphere/goniophotometer).
- 39 3. As always, manufacturers may voluntarily delist their products from the QPL at any time without
40 penalty. In relation to the Surveillance Testing Program, this delisting must occur *prior* to being
41 selected for testing to avoid potential consequences. Please email applications@designlights.org
42 for more information on delisting products.
- 43 Manufacturers should factor in their product performance data and possible risk for failure to
44 determine if voluntarily removing products from the QPL prior to being selected is appropriate.
45 For example, products that qualified using tolerances to meet the Technical Requirements may
46 carry a higher risk of not meeting the Technical Requirements during surveillance testing.
- 47 4. If a product and/or component necessary for testing is not available for procurement at the time
48 of selection (i.e., it is no longer for sale/manufactured), it will be considered declining to
49 participate. Exceptions will be considered for made-to-order products. Products that are no
50 longer sold should be proactively removed from the QPL by the manufacturer.
- 51 5. Products cannot be subject to “double jeopardy”. If a product has been tested and passes
52 through the Surveillance Testing Program and has not been updated in any manner, it will not
53 be selected again.
- 54 6. Manufacturers who have three selections (or more) that all yield passing results within two
55 consecutive rounds of surveillance testing will be granted an exemption from selection during
56 the following round. This temporary exemption is estimated to last approximately 6-12 months.
- 57 7. Both original equipment manufacturer (OEM) and private labeled products are eligible for
58 selection. All manufacturers, OEM and private labeler alike, are responsible for the data on the
59 QPL associated with their products.

60 **B. Notification to Selected Manufacturer**

61 The DLC will notify the selected manufacturer by email using the contact information provided in
62 the DLC Application Portal. If a given manufacturer account has multiple users, all users registered
63 to the account will be notified. If a selection is accepted, only the manufacturer-designated contacts
64 will be contacted for the remainder of that selection.

65 The selected manufacturer will have ten business days from the date of notification to respond to
66 the selection email. Selected manufacturers have two options in responding: accept the selection
67 and continue with the surveillance testing process, or decline the selection, which will result in the
68 selected product and associated products being removed from the QPL. See [Section F](#) for further
69 details.

70 If no response is received within ten business days, or if there is no anticipated action taken by the
71 manufacturer as determined by the DLC, the selected product and associated products will be
72 delisted. See [Section F](#) for further details. Selected manufacturers may seek additional information
73 about the selection during this ten-day period; however, action will be taken on the tenth day of the
74 period.

75 1. Accepting the Selection

- 76 a. If the selected manufacturer agrees to move forward, the investigation will begin.
- 77 b. Accepting the selection indicates that the product can be procured within a
78 reasonable timeframe (eight weeks unless otherwise agreed upon with the DLC at the
79 time of acceptance).

80 2. Declining the Selection

- 81 a. The selected manufacturer has the option to decline to participate, which will result in
82 the product and all associated products being removed from the QPL. For further
83 information on consequences, see [Section F](#).

84 **C. Invoice and Procurement**

85 Products undergoing investigation will remain confidential between the selected manufacturer,
86 testing lab, and the DLC. Outside parties, including other manufacturers, distributors, and other end
87 users will not have access to investigation information. DLC Member utilities may have access to
88 limited information.

89 1. Invoicing

- 90 a. After the DLC receives completed acceptance documentation, an invoice will be sent
91 to the manufacturer to cover surveillance program costs.
- 92 b. If the invoice is not paid within 30 days, the product, as well as any associated
93 products, will be removed from the QPL. See [Section F](#) for further information on
94 consequences. Any issues paying within the allotted timeframe must be discussed
95 with the DLC upon receipt of the invoice.

- 96 c. Procurement information will not be sent until the invoice for that selection has been
97 paid and processed.
- 98 d. Manufacturers opting for a wire transfer must pay the fees associated with the
99 transfer of funds.
- 100 2. Product Procurement
- 101 a. The DLC may procure products from any number of sources, but will primarily procure
102 directly from the manufacturer.
- 103 b. The number of samples required for surveillance testing will be equivalent to the
104 number needed in the original qualification testing, unless otherwise stated.
- 105 3. If chosen, manufacturers are required to supply the product as it would be supplied to a
106 customer. It should be identical to what a customer would receive and go through the same
107 internal processes. Supplying a sample(s) which does not meet these criteria may result in
108 the selected product being found non-compliant (with associated consequences).
- 109 a. Samples used for surveillance testing shall not be the same samples tested and
110 submitted previously for qualification.
- 111 b. Product prototypes or “engineering samples” may not be used for surveillance testing.
- 112 4. Any components required between the mains and the product (such as a ballast for a UL
113 Type A linear replacement lamp) must also be supplied to the lab by the selected
114 manufacturer during the procurement phase. To minimize confusion, these components
115 should be shipped at the same time as the product.
- 116 5. Actively cooled products will be tested in accordance with the manufacturer’s externally
117 supplied circulating liquid specifications. The DLC may request additional information or any
118 necessary components in order to perform the required testing.
- 119 6. Products are expected to be shipped within eight weeks of procurement information being
120 sent. Products expected to take more than eight weeks must be disclosed to the DLC at the
121 time of accepting the selection, and an explanation must be provided. In certain cases, a
122 substitution may be allowed at the sole discretion of the DLC surveillance team.
- 123 7. An OEM who does not stock the product or does not otherwise have the samples required
124 for testing may arrange (of their own accord) to have the equivalent model from one of their
125 private labelers procured and tested instead. Given the same scenario, private labelers may
126 also have the equivalent OEM product procured and tested instead. In either case, the
127 selected manufacturer must inform the surveillance testing team prior to, or within five
128 business days of, receiving procurement information. The DLC will confirm that this is
129 acceptable, pending review of the Private Label Agreements on file from original DLC
130 qualification.
- 131 8. Manufacturers must select one of two options for their product after testing is complete:
- 132 a. The product is returned (at manufacturer expense).

- 133 b. The product is destroyed and discarded by the laboratory.
134 If an option is not specified by the time testing is complete, the DLC reserves the right to
135 dispose of the product.

136 **D. Product Testing and Evaluation**

137 **Product Testing Procedures**

- 138 1. Testing will be conducted only by pre-approved labs contracted by the DLC for surveillance
139 testing. Approved laboratories were determined by responding to a request for proposal (RFP)
140 issued by the DLC. Specific lab locations will be chosen for any individual investigation at the
141 DLC’s discretion.
- 142 2. The metrics to be tested will be dependent on the type of test (integrating sphere or
143 goniophotometer) being used. Metrics measured for surveillance testing will be made at full
144 output or a non-dimmed state.
- 145 3. Dual Mode products (UL Type A or B) will be tested using an approved ballast. The ballast shall
146 be sent by the manufacturer with the product, as described in Section C.4.
- 147 4. The test lab will look for any obvious signs that the product is not performing as intended (e.g.,
148 inability to stabilize the product). The manufacturer will be notified in those cases and testing
149 will resume once the issue has been resolved. This may necessitate procurement of new
150 samples (at manufacturer expense).

151 **Product Evaluation**

152 The DLC will evaluate every product against two tables. **Table 1** is used to verify that the product
153 meets the Technical Requirements. **Table 2** is used to ensure that the product not only meets the
154 Technical Requirements, but also lists accurate information on the QPL. A snapshot of the QPL will
155 be taken at the time of selection, and that data along with originally submitted application
156 information will be used as a comparison to the data taken during surveillance testing. Any effort to
157 update a selected product after notification will not be considered unless agreed upon with the DLC
158 prior to the update.

159 **Table 1:** Verifying the Product Meets the Technical Requirements

Metric	Requirement(s)	Tolerance
PPE	>2.3	-5%
Power Factor	> .9	-3%
THD	< 20%	+5%

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Table 2: Verifying Accuracy of QPL Product Data

Metric	Tolerance
PPF Output	±10%
System Wattage	±12.7%
PPID	±10% zonal PPF (0-30, 0-60, and 0-90)
Spectral output	±10% within all 100nm buckets (400-500nm, 500-600nm, and 600-700nm)
Beam Angle (linear replacement lamps and 2G11 lamps only)	-5°

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1. Product spec sheets will be reviewed for potential product misrepresentation (i.e., the product qualified is different than the product received during surveillance testing). This will include the spec sheet submitted for qualification, and may include review of spec sheets found in the marketplace.

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- a. Due to the varying nature of spec sheets, no two cases of product misrepresentation are alike. As an example, a product with a form factor that has changed since qualification would not be allowed under the Surveillance Testing Policy.

171

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2. Upon completion of testing, the DLC will review the results. The established tolerances (above) will be applied to the test data to verify compliance.

173

- a. When reviewing against Table 1:

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- i. Parent products will have tested data reviewed. Reported data of parent products found to be non-compliant with policy will be corrected outside of surveillance testing.

177

- ii. Child products will be evaluated against reported data only.

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- b. When reviewing against Table 2:

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- i. Parent products will have both the tested and reported data listed on the QPL reviewed. These products will only be considered non-compliant if they fail to meet the Table 2 tolerances for both the tested *and* reported data.

182

- ii. Child products will be evaluated against reported data only.

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184

3. Upon review of the test results, the DLC will notify the manufacturer of the results with a final ruling on the outcome of the testing. The outcomes are as follows:

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- a. The sample meets or exceeds the DLC Technical Requirements and tests within Table 2 tolerances: the product is considered compliant, and no further action is needed.

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188

- b. The sample fails to meet the DLC Technical Requirements when using Table 1 tolerances: the product is considered non-compliant. See [Section F](#) for consequences.

189

190

- c. The sample meets the DLC Technical Requirements but falls outside Table 2 tolerances: the product is considered non-compliant. See [Section F](#) for consequences.

191 **E. Appeals**

- 192 1. The selected manufacturer will have the option to appeal the results. This process must be
193 started within five business days of receiving the results from the DLC. Any fees required to
194 investigate the appeal will be at the sole responsibility of the manufacturer requesting the
195 appeal. Appeals are only applicable to the results of testing; there is no appeal process for the
196 consequences enforced. The product(s) may be delisted from the QPL upon failure and during
197 the appeals process. If the original ruling is overturned, the product(s) will return to the QPL
198 with the original date of qualification at the conclusion of the appeal.
- 199 2. An appeal must include:
- 200 a. Sufficient detail (with technical justification) that addresses the reason for questioning
201 the validity of the test results, as well as a remedy to the situation.
 - 202 b. Agreement to pay the fees associated with the appeal. Fees will be based on
203 administrative cost of the appeal and the fees associated with any additional required
204 testing or product procurement to resolve the appeal.
- 205 3. The following are some examples of items that will not be considered during the appeals
206 process:
- 207 a. Manufacturers indicating a change to a supplier's process.
 - 208 b. The wrong product was sent.
 - 209 c. Different test data on the same product with no technical justification.
- 210 4. The DLC will review the appeal and reserves the right to ask for additional information or to
211 reject the appeal if sufficient information to explain the situation cannot be provided.
212 Appeals will either be:
- 213 a. Accepted: An accepted appeal may require additional product testing. If so, the
214 procedures listed above (for procurement and testing) will be repeated. Any new test
215 results will be used to make a final determination of the tested product's
216 performance.
 - 217 b. Rejected: If an appeal is rejected, the original failure ruling will stand, and the
218 product(s) will remain delisted from QPL.
- 219 5. The manufacturer will be notified at the end of the appeals process as to the results of the
220 appeal. Appeal results are final.
- 221 6. Products will not be returned to the manufacturer until the entirety of the process,
222 including appeals, has concluded.

223 **F. Consequences**

224 The following is a summary of consequences that may be implemented due to non-compliance with
225 DLC policy. Additional consequences may be imposed at the discretion of the DLC. The intent of any

226 consequence is to ensure that products that have been listed with unreliable data on the QPL are
227 subject to appropriate corrective actions.

228 **Non-Compliance Due to Product Testing**

229 1. The selected product fails to meet the DLC Technical Requirements using Table 1 tolerances:

230 a. **First instance:** A product that fails surveillance testing for the first time will be
231 removed from the QPL. Products associated with the failed product will also be
232 delisted; this includes all family members (regardless of whether the selected product
233 was a parent or child product) and private labels. If the selection was a private labeled
234 product, this means that the equivalent OEM product, as well as any other equivalent
235 private labels, will be delisted. DLC Members will have access to generalized
236 information about products that have been removed from the QPL due to surveillance
237 testing.

238 b. **Second instance:** All first instance consequences. Additionally, the manufacturer may
239 be suspended from the DLC program for a period of up to 12 months. A suspension
240 prohibits manufacturers from submitting or qualifying any products during that
241 timeframe.

242 c. **Third instance:** All first and second instance consequences. Additionally, the
243 manufacturer's remaining products on the QPL, including private labels, may be
244 delisted until compliance is assured.

245 2. Selected product falls outside Table 2 tolerances, but still meets DLC Technical
246 Requirements:

247 a. **First instance:**

248 i. **Parent Product:** The manufacturer is required to update the individual
249 product on the QPL (at the full application fee), or may opt to have the
250 product delisted. If the manufacturer chooses to update the product, [an](#)
251 [update application](#) must be submitted within 15 business days of receiving the
252 results. If this time elapses without an update application being submitted, all
253 associated child products and private labels (if selected product was an OEM)
254 will be delisted. If selected product was a private labeled product, the OEM's
255 product will not automatically be delisted. The selected product's family, as
256 well as the equivalent family from any private labeler, may be flagged for
257 additional screening in a future round of testing.

258 ii. **Child Product:** The manufacturer is required to update the individual product
259 on the QPL (at the full application fee), or may opt to have the product
260 delisted. If the manufacturer chooses to update the product, [an update](#)
261 [application](#) must be submitted within 15 business days of receiving the
262 results. If this time elapses without an update application being submitted,
263 the product will be delisted. If selected product was a private labeled product,
264 the OEM's product will not automatically be delisted. The selected product's

- 265 family, as well as the equivalent family from any private labeler, may be
266 flagged for additional screening in a future round of testing.
- 267 – If a child product fails the Table 2 requirements and the data
268 demonstrates that it should become the new worst-case product in
269 the family (i.e., it should be a parent), the whole family will be
270 delisted. The manufacturer must [submit an update application](#) to
271 ensure compliance. New model numbers are not required. The new
272 family may be flagged for additional screening in a future round.
 - 273 b. **Second instance:** All first instance consequences. Additionally, the manufacturer may
274 be suspended from the DLC program for a period of up to three months.
 - 275 c. **Third instance:** All first and second instance consequences. Additionally, the
276 manufacturer’s remaining products on the QPL, including private labels, may be
277 delisted until compliance is assured.
- 278 3. Selected product meets or exceeds the DLC Technical Requirements, and tests within
279 tolerances listed in Table 2 above: No action taken. The manufacturer may opt to [update](#)
280 [the product](#) at their discretion. Normal application fees will apply.

281 **Non-Compliance Outside of Product Testing (During Surveillance Testing Selection)**

- 282 1. Manufacturer declines to move forward with the selection:
- 283 a. **First time declining:**
 - 284 i. **OEM:** The selected product will be delisted. If it was a parent product, the whole
285 family will be delisted. Any delisted products will have their associated private
286 labeled products delisted.
 - 287 ii. **Private Labeler:** The selected product will be delisted. If it was a parent product,
288 the whole family will be delisted. OEM products will not be delisted.
 - 289 iii. **Both:** Increased likelihood of another product from the manufacturer being
290 chosen for surveillance testing.
 - 291 b. **Second time declining:** All first-time declining consequences. Additionally, the
292 manufacturer may be suspended from the DLC program for a period of up to six
293 months, including delisting of other products currently listed on the QPL.
- 294 2. Manufacturer misses a published deadline (response to notification, invoice deadline,
295 procurement deadline, etc.):
- 296 a. **OEM:** The selected product will be delisted. If it was a parent product, the whole
297 family will be delisted. Any delisted products will have their associated private labeled
298 products delisted.
 - 299 b. **Private Labeler:** The selected product will be delisted. If it was a parent product, the
300 whole family will be delisted. OEM products will not be delisted.

- 301 c. **Multiple missed deadlines (OEM or Private Labeler):** All first-time consequences.
302 Additionally, the manufacturer may be suspended from the DLC program for a period
303 of up to six months, including delisting of other products currently listed on the QPL.
- 304 3. Product misrepresentation:
- 305 a. Product misrepresentation is handled on a case-by-case basis and consequences may
306 include product delisting, suspensions, and/or fines. Fines will only be used as a last
307 resort to recover the costs associated with prolonged efforts to bring a manufacturer
308 into compliance.
- 309 4. Other/Miscellaneous:
- 310 a. Situations not outlined in this policy will be handled at the sole discretion of the DLC.

311 G. Re-listing Products

312 Products which are:

- 313 1. Delisted due to declining the selection or non-response:
- 314 a. These products may be re-submitted through [the normal application process](#) no
315 earlier than six months after the date delisted. Normal application fees will be
316 assessed.
- 317 2. Delisted due to failing the Table 1 requirements:
- 318 a. These products may be re-submitted through [the normal application process](#) with
319 *new testing and new model numbers*. The same model number may not be used
320 unless otherwise noted in [Section F](#). Normal application fees will be assessed.
- 321 3. Delisted due to failing the Table 2 requirements:
- 322 a. These products may be re-submitted through [the normal application process](#) with
323 new testing. Normal application fees will be assessed. New model numbers are not
324 required.
- 325 b. Note that this does not apply to products that failed only the Table 2 requirements
326 and were updated within the allotted timeframe.
- 327 4. Delisted due to failing Table 1 requirements, *but* surveillance testing data falls within the
328 Table 2 tolerances:
- 329 a. These products may be re-submitted through [the normal application process](#) with
330 new testing. Normal application fees will be assessed. New model numbers are not
331 required.
- 332 b. Note: This applies only to the metrics currently in Table 2.

333

334 **Key Questions for Draft 2 Surveillance Testing Policy, Horticultural**
335 **Lighting Version 3.0**

336 Version 3.0 Draft 2 proposes surveillance testing policy requirements to actively monitor the validity of
337 data and other information for Hort QPL listed products to protect the integrity and value of the QPL for
338 all stakeholders.

- 339 1. How do tolerances proposed in Table 2 compare to what performance differences may occur
340 when testing a single product at two different accredited testing labs and/or performance
341 variations within a given product?
- 342 2. The DLC has proposed Zonal PPF and Spectral tolerances in Table 2 to help ensure consistent
343 performance between originally qualified products and products that undergo surveillance
344 testing after being qualified to the QPL. What concerns or considerations do you have for the
345 Zonal PPF ranges and wavelength bands being proposed for evaluation? Are they too
346 broad/narrow?
- 347 3. Should manufacturers have the option to replace a selected products within a family with
348 other products from the same family for surveillance testing?
- 349 4. What additional considerations should the DLC be aware of when determining how to actively
350 monitor the validity of data and other information for listed products?