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Commercial Lighting Solutions

Webtool Peer Review Report, Office Solutions

TA Beeson
CC Jones

February 2010

Pacific Northwest
NATIONAL LABORATORY

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Commercial Lighting Solutions
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Office Solutions

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Prepared for the
U.S. Department of Energy
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Pacific Northwest National Laboratory
Richland, Washington 99352

Executive Summary

The Commercial Lighting Solutions (CLS) project directly supports the U.S. Department of Energy's Commercial Building Energy Alliance efforts to aid in the design of high-performance buildings. DOE has launched three CBEAs: the Retailer Energy Alliance (REA), the Commercial Real Estate Energy Alliance (CREEA), and the Hospital Energy Alliance (HEA). The alliances link commercial building owners, managers, and operators, by sector. A primary focus of the alliances is to reduce the energy consumption, greenhouse gas emissions, and operating expenses of member's buildings with the aid of advanced technologies, analytical tools, and capabilities emerging from DOE and the national laboratories.

DOE has initiated research to develop a series of flexible Commercial Technology Solutions to identify the low-energy technical pathways of attaining specific energy and economic goals for specific projects. The output is a series of web-based decision tools targeting commercial building design teams. Commercial Lighting Solutions (CLS) is one of these tools, and provides options that can be used in existing buildings as well as new construction and major renovation.

CLS creates energy-efficient best-practice lighting designs for widespread use. The lighting solutions are available to users via an interactive webtool that both educates and guides the user through the application of the solutions as well as providing immediate and project-specific feedback on the energy consequences of the various options.

In May 2009 version 1.0 of the webtool was released and included designs for box retail. This report, one of two FY10 critical commercial planning system milestones, summarizes the peer review of the beta version of the office solutions for the CLS webtool. Peer review input will be utilized in making improvements to the webtool in preparation for the release of version 2.0, which will include both office and retail lighting solutions.

In order to collect the level of detail desired from the peer review process, input was requested from professionals across the range of fields that would use and benefit from the tool. PNNL developed a list of potential reviewers and proactively invited both written input and input from qualitative interviews. Reviewers included (6) owner representatives from the CBEA, (4) lighting designers, (3) lighting manufacturers, (1) architects, (1) engineers, (2) state energy-efficiency program managers and (2) utility program managers. Two internal PNNL staff also reviewed the tool for this report. (see Appendix A). The diverse representation of members ensured that all aspects of the tool were analyzed from many perspectives.

The methodology for the peer review process included gathering input from interested stakeholders, analysis of the comments, and organization of the comments into categories for prioritization against a set of criteria. Based on this process, PNNL developed recommendations about which feedback will be addressed for the release of version 2.0 of the webtool at the LIGHTFAIR® International tradeshow and conference in Las Vegas, Nevada in May 2010.

Due to the volume of data (~500 individual comments) the methodology for addressing the peer review comments was central to the success of the ultimate goal of improving the tool. All of the comments were imported into a master spreadsheet, and then grouped and organized into several categories. Solutions to each comment were then rated by importance and feasibility to determine both the short and long term practicality of the recommendations. The rating system was used as an analytical tool, but the results were interpreted thoughtfully to ensure that the rating was not the sole factor in determining which comments were recommended for near-term resolution.

The report provides a list of the top ten most significant and relevant improvements that will be incorporated into the webtool for version 2.0 as well as appendices containing additional detail on all short-term priorities. Peer review comments that are considered high priority by the reviewers and the CLS team but cannot be completed for the version 2.0 release in May at Lightfair are listed as long-term recommendations.

The list of the top ten most significant and relevant improvements that PNNL will implement by Lightfair 2010 are listed below. These tasks may involve numerous smaller steps for completion, but they are provided here in a more general summary format for clarity.

(1) Increase clarity throughout the tool using established conventions (*i.e.,* definitions of terms in glossary and /or mouse-overs). (Ticket 1)

(2) Add additional building codes to the drop-down code menu (e.g., Title 24 and IECC 2009) (Ticket 7)

(3) More clearly express to users the process for navigating through the vignette and controls selections. (Ticket 9)

(4) Provide user inputs and energy savings estimates from the Energy Estimator tool in a format (Excel table) usable by utilities. (Ticket 10)

(5) Provide a drop-down menu that provides guidance on visible transmittance values associated with different window types. (Ticket 18)

(6) Represent controls guidance in the summary and implementation PDFs in a way that shows controls are an integral part of the lighting solution and not an afterthought and clean up formatting and presentation of all download material. (Tickets 27-29)

(7) Ensure that users consciously chose a baseline code for their project. (Ticket 43)

(8) Clarify confusion associated with user input of area by adding a way to input square footage for typical rooms. (Ticket 46)

(9) Modify the project description page to be “building-neutral” to prevent confusion. (Ticket 49)

(10) Expand luminaire lists to adjust for the necessary ballast depending on the control strategies applied. (Ticket 22)

Contents

EXECUTIVE SUMMARY iii

1.0 BACKGROUND 1

1.1 Commercial Lighting Solutions and the Commercial Buildings Energy Alliances *1*

1.2 Commercial Lighting Solutions Webtool *2*

1.3 Peer Review Task Description *2*

1.4 Objectives *2*

2.0 METHODOLOGY 2

2.1 Peer Review Data collection *3*

2.1.1. Reviewers 3

2.1.2. Webtool Content 3

2.1.3. Peer Review Input Format 3

2.1.4. Process 4

2.2 Analysis and Prioritization *4*

2.2.1. Spreadsheet Summary 4

2.2.2. Comments Assigned to Actions/Solutions 5

2.2.3. Importance and Feasibility Ratings 5

2.2.4. Overall Rankings, Short-term and Long-term Goals 6

2.2.5. Unrated Comments 7

3.0 RECOMMENDATIONS 7

3.1 Development of Recommendations *7*

3.1.1. Prioritization Ranges 8

3.2 Top Ten List of Priority Short-Term Recommendations *8*

3.3 Action Tickets *9*

3.4 Peer Review Input Data *9*

3.5 List of Long-Term Priority Recommendations *9*

4.0 CONCLUSION 10

APPENDIX A: REVIEWER LIST A-1

APPENDIX B: WEBTOOL PAGE REFERENCE FILE B-1

APPENDIX C: PEER REVIEW INPUT SPREADSHEET C-1

APPENDIX D: TICKET LIST D-1

APPENDIX E: MASTER COMMENTS LIST E-1

Tables

Table 1. Importance Ratings 5
Table 2. Feasibility Ratings. 6

1.0 Background

1.1 Commercial Lighting Solutions and the Commercial Buildings Energy Alliances

Commercial buildings currently account for 19 percent of total U.S. energy consumption and carbon dioxide emissions, and are projected by the Energy Information Administration to experience significant growth over the next two decades. Lighting accounts for fully 25% of commercial buildings energy use. To increase the energy efficiency of this sector, in both new construction and the large stock of existing buildings, the U.S. Department of Energy (DOE) has launched three CBEAs: the Retailer Energy Alliance (REA), the Commercial Real Estate Energy Alliance (CREEA), and the Hospital Energy Alliance (HEA). The alliances link commercial building owners, managers, and operators, by sector, who want to reduce the energy consumption, greenhouse gas emissions, and operating expenses of their buildings with the advanced technologies, analytical tools, and capabilities emerging from DOE and the national laboratories. These informal associations function in a number of capacities, including:

- Conducting demonstration, dissemination, and technical assistance activities to encourage and assist adoption of technologies, practices, and policies;
- Sharing best practices, energy-use measurement, and benchmarking—in essence, serving as organic, real-time information networks;
- Tapping the technical expertise of DOE and its national laboratories to shape federal R&D to advance the business case for energy-efficient buildings;
- Deploying advanced technology through technology specifications and information-sharing within commercial subsectors;
- Developing training materials and courses for building professionals and trades to be deployed by alliance partners;
- Developing and disseminating public education materials on benefits and cost-effectiveness of high-performance, energy-efficient buildings.

DOE has initiated research to develop a series of flexible Commercial Technology Solutions to identify the low-energy technical pathways of attaining specific energy and economic goals for specific projects. The output is a series of Web-based decision tools targeting commercial building design teams. Commercial Technology Solutions can be used to evaluate system-level packages of technologies, such as lighting (PNNL), daylighting (NREL), supermarket refrigeration (ORNL), and packaged HVAC (PNNL). These Web-based tools give commercial building designers and operators guidance on improving both their existing building systems' efficiency and that of new buildings."

The Commercial Lighting Solutions (CLS) project directly supports the Commercial Building Energy Alliance efforts to significantly improve the energy performance of existing buildings and new construction. . Lighting Solutions optimized for energy efficiency, cost effectiveness, and occupant satisfaction are critical to the end-product success of 50% (and greater) energy savings against ASHRAE Std. 90.1-2004. Any endeavor to realize deep energy savings must include Lighting Solutions as part of its "solution set" because fully ¼ of commercial buildings energy

use (on average) is lighting; sector wide, commercial buildings require 4.5 source quads per year to provide illumination services.[1]

Lighting Solutions have been developed for both retail and office buildings to deliver best-practice guidance to the Alliances and the market at large. Critical to the success of the webtool is stakeholder input, which has been gathered via a peer review input process. This report summarizes the findings of the CLS Peer Review process for the office solutions.

1.2 Commercial Lighting Solutions Webtool

The webtool is the delivery mechanism for the Lighting Solutions. It is critical to widespread usage of the Lighting Solutions and includes a strong interactive element that both educates and guides the user through the application of the Lighting Solutions as well as providing immediate and project-specific feedback on the energy consequences of the various options.

1.3 Peer Review Task Description

The Peer Review task covers the process by which stakeholders provide input to the Lighting Solutions. The Peer Review process described in this report is limited to the beta version of the CLS webtool, which contains retail and office lighting solutions. Since retail buildings were thoroughly reviewed before the release (see *Commercial Lighting Solutions, Webtool Peer Review Report*, PNNL-18464) of version 1.0 in May 2009, the present review focuses primarily on the office solutions. The next draft of this report will augment these findings with comments on the Energy Estimator portion of the tool. As development continues on the webtool, the peer review will be phased and ongoing in support of new solutions, continuous improvement to existing solutions, and partner-contributed solutions.

1.4 Objectives

The objectives of the peer review were to:

(1) Gather high-quality feedback on the CLS webtool from a representative group of stakeholders.

(2) Analyze the peer review input data to categorize similar comments, determine possible solutions, and weigh and prioritize input against a set of decision criteria.

(3) Develop recommendations about tasks that should be undertaken to improve the webtool for the 2.0 release at Lightfair 2010 with the time and funds that are available.

(4) Develop recommendations about tasks that should be considered as longer-term goals for the continuous improvement of the webtool.

2.0 Methodology

The methodology for the peer review process included data collection (stakeholder input), analysis of the comments, and organization of the input into categories for prioritization of the comments against a set of criteria. Based on this process, recommendations were developed to prioritize what feedback should be addressed for the 2.0 release of the webtool.

[1] 2009 Buildings Energy Data Book http://buildingsdatabook.eren.doe.gov/TableView.aspx?table=3.1.4

2.1 Peer Review Data collection

The goal of data collection was to capture sufficient feedback from each of our target user groups, in an efficient and thorough process.

2.1.1. Reviewers

In order to collect the level of detail desired from the peer review process, input was requested from professionals across the range of fields that would use and benefit from the tool. PNNL developed a list of potential reviewers and proactively invited both written input and input from qualitative interviews. Reviewers included (6) owner representatives from the CBEA, (4) lighting designers, (3) lighting manufacturers, (1) architect, (1) engineer, (2) state energy-efficiency program managers and (2) utility program managers. Two internal PNNL staff also reviewed the tool for this report. (see Appendix A). The diverse representation of members ensured that all aspects of the tool were analyzed from many perspectives.

2.1.2. Webtool Content

The peer review included the following pages of the webtool: (1) sign-in, (2) new project, (3) project description, (4) key plan, (5) space type summary, (6) space description wizard, (7) vignette description (8) controls template options, (9) controls template description, (10) download materials . (see Appendix B).

2.1.3. Peer Review Input Format

In order to capture all of the feedback in an easily quantifiable manner, an Excel spreadsheet was designed to help the reviewers categorize their comments on the webtool (see Appendix C). The spreadsheet provided space for reviewers to include important information regarding their operating system and web browser so the web team could address functionality and compatibility issues once all of the input was received. Each comment was assigned a reference number to more easily track the progress of addressing the many comments received. There was also a column to record the space type and reference web page to assure that the context of the comment was sufficiently understood.

There were six categories in the spreadsheet that reviewers were asked to consider:

(1) appearance/aesthetics,

(2) ease of use/flow,

(3) functionality,

(4) content,

(5) download material, and

(6) General comments.

Providing guidance questions during the interview process encouraged a more comprehensive review and helped with the data analysis process.

As the comments were received they were compiled into a master spreadsheet for analysis, diagnosis, and resolution.

2.1.4. Process

The project team scheduled meetings with interested parties to ensure that feedback was obtained in a manner similar to qualitative interviews. Most frequently an online meeting approach was used so the CLS team could observe the reviewer navigate through the tool and capture thoughts and questions in real time. Often through this dialogue the interviewer was able to more clearly identify the root cause of the problems, and identify potential solutions that would resolve concerns. The interviewer acted as the recorder for the reviewer's feedback, and then sent the spreadsheet input form to the reviewer after the interview so they could confirm the reviewer's recorded comments and add additional comments as they continued to spend time working with the tool. Some sessions were recorded with screen capture software to further illuminate the user experience for the reviewer and the software developers.

Reviewers felt that they could concentrate better on the review process because they did not have to go back and forth between the webtool and typing their thoughts into the comment sheet. Additionally, the PNNL interviewer was often able to catch issues and problems through the observation process that either would not have been noticed by the reviewer, or would not have been characterized clearly. The dialogue was also very useful in developing specific ideas about potential improvements to the webtool. After reviewing the peer review comments, the PNNL web development team said that the comments were significantly more useful and actionable than typical peer review input due to the live meeting interview approach.

The focus of the peer review was to identify problems and opportunities for improvement. Consequently, PNNL did not include the positive comments in formal evaluation process. Positive comments were unrated and are contained in a separate list within the data set in Appendix E. Reviewers almost universally liked the aesthetic appearance of the tool, the simplicity of the workflow, and the ability to see energy savings impacts as choices were made. The goal of the team will be to make improvements to the tool without losing the features that were widely appreciated by reviewers.

By the end of the peer review input period, 17 reviewers had been interviewed and 2 more provided detailed written input for a total of ~500 comments.

2.2 Analysis and Prioritization

Once all of the comments were imported into a master spreadsheet, they were grouped and organized into several categories. Strategies for each comment were then rated in several categories to determine the practicality of resolving the concerns of the commenter. After several additional filters to the data, short-term and long-term goals were established based on the ratings. The rating system was used as an analytical tool, but the results were viewed thoughtfully to ensure that they were not the sole factor in determining the practicality of comment resolution.

2.2.1. Spreadsheet Summary

Columns in the spreadsheet were expanded from the truncated peer review input form to support the data analysis, including the following: commenter ID number, action/solution, importance, feasibility, short-term rating, long-term rating, and status.

The comment type column retained the five general categories reviewers were asked to recognize on the peer review input form. Ratings on a scale of 1-5 were assigned to rank the frequency and priority of the comments that ultimately established the 'importance"rating. While the same

rating scale was used for the ease of implementation, duration, and risk/complication, the importance and feasibility ratings were weighted together differently to attain the overall rating for the short and long term. This process is discussed in detail in section 2.2.4. The final two columns helped to further categorize and track the comments. The action/solution column linked to a list of more general issues that grouped comments with similar solutions. The status column is the working record of where the PNNL team stands in respect to resolving the issue.

Due to the diversity of the comments, separate tabs were created to support the analysis process including (1) content, (2) images, (3) user interface, (4) daylighting, (5) additions, (6) vignette text, (7) template text, (8) functionality, (9) controls templates, (10) PDFs, (11) luminaires, (12) phase 2, (13) retail, and (14) presentation order. This categorization simplified the process and allowed feasibility rankings to be assigned by the appropriate PNNL staff. This organization of comments also allowed for more specific action/solution categories to be assigned within the tabs.

2.2.2. Comments Assigned to Actions/Solutions

With the large quantity of comments received, it was important to divide them into refined categories that represented the type of action that would yield a solution. Comments were turned into proposed actions so that they could be rated in terms of importance and feasibility. When the team resolves a specific issue, then each comment that was categorized under the given action/solution can then be addressed individually to ensure completion.

This process allowed us to review similar comments in proximity to each other, and supported the process of turning comments into actionable solutions for future delegation and resolution by the team. The actions that were established in response to the peer review comments were developed as "tickets" and are shown in full in Appendix D. The tickets will either be entered into the CLS Sharepoint site for the technical team, or Rally (online development resource tool), for the respective groups to track progress and ticket resolution.

2.2.3. Importance and Feasibility Ratings

The overall importance of each category was determined by assigning a 1-5 rating for (1) the frequency of the comment and (2) the priority of the comment as it pertains to the complete webtool. The ratings were established using the guidelines as shown in the Table 1.

Table 1. Importance Ratings

IMPORTANCE	
Frequency	**Importance of Comment**
1- only time comment came up 2- comment repeated by someone 3- comment has come up several times 4- comment came up frequently 5- almost everyone mentioned it	1- pure opinion 2- opinion with foundation 3- would enhance tool 4- tool loses effectiveness without implementation 5- tool is incomplete without

The two subcategories were given a weighted average to attain the overall rating of importance. The frequency comments comprised 20% of the overall importance rating. The rating for the

priority of the comment accounted for 80% of the overall importance. Although frequency is an important measure, it should not be weighted equally with importance because we had a very diverse set of reviewers. There may be a small number of comments from a particular constituency (*e.g.,* owners, utilities) that is inherently more valuable due to the strategic importance of the stakeholder group.

The feasibility of implementing each concern was determined by rating the (1) ease of implementing the solution, (2) the uncertainty and/or risk of its implementation, and (3) the time duration of the implementation. After each comment was rated in the applicable subcategories, the priority of each subcategory was considered and weighted in importance for determining each comment's overall rating in terms of importance and feasibility. The guide used to establish the ratings is detailed below.

Table 2. Feasibility Ratings.

FEASIBILITY		
Ease of Implementation	**Risk/Uncertainty**	**Duration**
1- redoing all previous efforts	1- could increase liability	1- years
2- extensive alterations/ additions	2- complications might outweigh benefits	2- months
3- substantial amount of work	3- will complicate things	3- weeks
4- slightly involved change	4- might complicate things	4- days
5- simple change	5- practically no added risk	5- hours

The feasibility rating was established by weighting the importance of the subcategories. The ease of implementation and risk/uncertainty subcategories were each determined to represent 30% of the feasibility rating, and the duration category was weighted at 40%.

Once the overall importance and feasibility ratings were determined the sorting tool was used to find the most important and feasible comments. The PNNL team came to a consensus that the final ratings accurately portrayed the importance and feasibility of the tasks that needed to be completed in response to the peer review input.

2.2.4. Overall Rankings, Short-term and Long-term Goals

The importance and feasibility ratings were then weighted and summed to attain an overall ranking ranging from 0-50.[2] There were two overall rankings, one for short-term goals that can reasonably be addressed before the release of version 2.0 at LightFair 2010 and another for long-term goals that will greatly enhance the tool but cannot be addressed until after the release. .

The short-term goals were primarily determined by the feasibility of completing the task prior to the 2.0 release. The importance of the comment accounted for 40%, while feasibility represented 60% of the short-term goal ranking. This weighting process still accounted for the importance of

[2] The overall ranking was multiplied by 10 so that the range could be viewed as whole numbers rather than decimals to better illustrate the variances.

the comments, but brought less detrimental stylistic and agreement errors with higher feasibility to the top of the list. Examples of comments that attained higher short-term rankings than long-term rankings are (1) including definitions to terms and acronyms; (2) omitting any discrepancies between the images and the recommendations; and (3) limiting the number of significant digits for luminaire data.

The long-term goal rankings were assigned a different weighting of the importance and feasibility ratings that put much more emphasis on the importance of the comments. In this case, feasibility accounted for 15% of the total, where importance was valued at 85%. This process ensured that extremely important aspects of the webtool that are more difficult to implement such as (1) programmatically establishing communications with the COMcheck energy code compliance tool via data exports; (2) providing additional guidance for daylighting; or (3) incorporating a wizard for retail that will provide users with only spaces applicable to their building type were high on the list of priorities for the path forward post-Lightfair.

In consideration of timeline and resources, the overall ranking was reviewed to determine thresholds for practical resolution of the comments. All comments that were ranked above 40 in the short term had their actionable solutions made into tickets to be resolved. The practicality of resolving the comments that were between 35 and 39 was analyzed on an individual basis. All comments below the short-term ranking of 35 were either established as "LT" for long-term goals, or To Be Determined (TBD) for comments that did not have an obvious solution.

2.2.5. Unrated Comments

There were a number of comments that were either unrated, or have not been made into actionable ticket items yet. Some reasons for their exclusion include: Some ratings had a higher level of uncertainty because they needed additional research to determine the level of effort required to resolve the comment. Although the solutions to these comments might have a rating in the high 30s, the actual solution requires greater consideration than what could be established before the peer review report deadline. The status of these comments remains TBD.

- Comments that were made infrequently regarding the functionality of the webtool that we have been unable to replicate have a status TBD.
- Comments that expressed opinions, *e.g.,* "perspectives are very helpful," or "tool is very intuitive and easy to use" were not rated at all, but included on a separate list within the data set in Appendix E. There are ~20 comments that fall under this category.

The numbered ratings were designed to be a guide and were not the sole factor driving prioritization. The team analyzed the ratings and threshold for comments and adjusted the comment priority accordingly. The final prioritization allows for modification from the ranking, but allows flexibility in establishing the ultimate viability of each action item.

3.0 Recommendations

3.1 Development of Recommendations

The spreadsheet and rating system proved to be very helpful tools in establishing reasonable goals for the short and long-term enhancements of the webtool. The organization of the spreadsheet has

provided a straightforward range of recommendations for the improvements to the CLS that are clearly categorized and applicable.

At the completion of the rating process, all of the comments were ranked based on the assumptions and weighting factors indicated above into a list ranging from 0 – 50. These overall rankings provided guidance about which tasks can and should be the highest priorities for inclusion in the CLS webtool version 2.0, scheduled for release at Lightfair.

3.1.1. Prioritization Ranges

For the purposes of prioritization, the following ranges were identified for A, B and C priorities:

- Comments ranked at 40 and above were considered highest (A) priority, and will be addressed for version 2.0.
- Comments in the range from 35-39 were considered high priority (B), and likely but not definitely achievable for version 2.0. A concerted best effort will be made to resolve comments in this range.
- Comments in the range from 30-34 were considered medium priority (C), and will only be addressed for version 2.0 if there is time after priorities A and B are completed.
- Comments in the range from 0-29 will be considered for the next version of the software.

3.2 Top Ten List of Priority Short-Term Recommendations

The list of the top ten most significant and relevant improvements that PNNL will implement by Lightfair 2010 are listed below. These tasks may involve numerous smaller steps for completion, but they are provided here in a more general summary format for clarity.

(1) Increase clarity throughout the tool using established conventions (*i.e.,* definitions of terms in glossary and /or mouse-overs). (Ticket 1)

(2) Add additional building codes to the drop-down code menu (e.g., Title 24 and IECC 2009) (Ticket 7)

(3) More clearly express to users the process for navigating through the vignette and controls selections. (Ticket 9)

(4) Provide user inputs and energy savings estimates from the Energy Estimator tool in a format (Excel table) usable by utilities. (Ticket 10)

(5) Provide a drop-down menu that provides guidance on visible transmittance values associated with different window types. (Ticket 18)

(6) Represent controls guidance in the summary and implementation PDFs in a way that shows controls are an integral part of the lighting solution and not an afterthought and clean up formatting and presentation of all download material. (Tickets 27-29)

(7) Ensure that users consciously chose a baseline code for their project. (Ticket 43)

(8) Clarify confusion associated with user input of area by adding a way to input square footage for typical rooms. (Ticket 46)

(9) Modify the project description page to be “building-neutral” to prevent confusion. (Ticket 49)

(10) Expand luminaire lists to adjust for the necessary ballast depending on the control strategies applied. (Ticket 22)

3.3 Action Tickets

For the purposes of comprehensive reporting, the comments received (included as a "ticket list") have been included into a chart format and shown with A and B priorities in Appendix D.

3.4 Peer Review Input Data

The master spreadsheet containing all of the peer review input is contained in Appendix E.

3.5 List of Long-Term Priority Recommendations

As expected, there are a number of recommendations considered to be high priority by the reviewers and by PNNL but are too ambitious to be completed for version 2.0. Below is a list of tasks for consideration for the next version of the webtool.

Long Term Goals	Reason for the Long-Term Nature of the Goal
Incorporate a wizard for retail "box" buildings that gathers building characteristics and ensures that the vignettes offered are appropriate. Users should know up-front what the space parameters for the retail vignettes are	A wizard for retail buildings will require extensive work to the UI and organization of the retail vignette content. A thorough understanding of the division of the various box retail stores must be established prior to integrating the content into the webtool.
Collaborate with COMcheck to reduce the amount of work required by the user, thereby increasing the desirability and possibility of widespread adoption.	CLS has intended to collaborate with the COMcheck web service for some time now. Recent enhancements to COMcheck have introduced the possibility of data sharing.
Increase the diversity of the building types to increase applicability to those utilities that want to use CLS in their rebate and incentive programs.	Additional designs will require lighting designers to be subcontracted, and integrating any new vignettes or building types will be a substantial amount of work.
Help standardize the webtool as a common and accessible program through training and outreach programs.	Including the data collection interface is a substantial software development effort and needs to be done with the intention of connecting to compliance tools.

Consider providing load profiles to further assist utilities in developing load reduction programs.	As the benefit the webtool offers to utilities becomes apparent, future enhancements such as load profiling should be considered. Making this inclusion would comprise of a large shift in the application of data, algorithms, and database structuring.
Provide additional guidance on Daylighting envelope design for various climates.	There is currently no party that provides this type of comprehensive instruction for a specific building type. Numerous research papers will have to be applied by an expert in the field.

4.0 Conclusion

The peer review data collection process was effective in gathering sufficient input from the appropriate range of stakeholders in a way that allowed for a meaningful understanding of the issues and useful ideas about improvements. The data analysis and prioritization process was thorough and efficient, yielding reasonable goals and a clear path forward. The master spreadsheet will continue to be used throughout the resolution of comments, and will be an effective tool for future peer reviews. PNNL plans to use the peer review input, in both the near and long term, to improve the value of the CLS webtool.

Appendix A: Reviewer List

Category	First name	Last Name	Contact Information
External Reviewers			
Categories: Engineer, Lighting Designer, Manufacturer, Architect, Owner, State, Utility,			
Engineer	Nick	Ferzacca	Architectural Engineers, Inc. Boston, MA office 617 542 0810, x111 nferzacca@arcengrs.com
Lighting Designer	Kathy	Abernathy	Abernathy Lighting Design, Inc. N. Providence RI office 401-233-4412 kathy@abernathylightdesign.com
Lighting Designer	Leslie	Davis	Leslie Davis Lighting Berkely, CA cell 510-798-8635 lesliedavisltg@comcast.net
Lighting Designer	Wilson	Dau	Dau Design and Consulting Inc. Calgary, AB T2Z 3V8, Canada office 403-714-9457 wilson.dau@dau.ca
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Manufactuer	Craig	Dilouie	Zing Communications Calgary, AB T2T 0C8, Canada office 403-802-1809 cdilouie@zinginc.com
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Category	First name	Last Name	Contact Information
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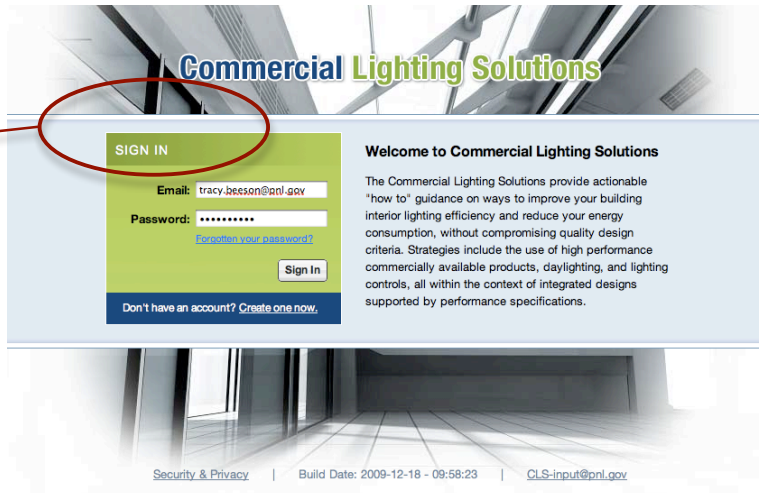
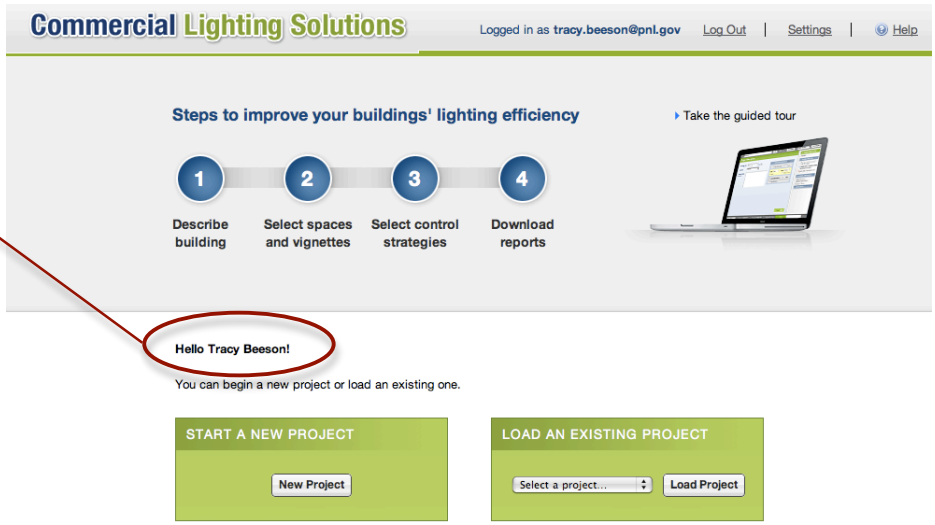
Appendix B: Webtool Page Reference File

NOTE TO REVIEWERS:

THANK YOU for taking the time to give us feedback on the Beta version of the Commercial Lighting Solutions webtool. We have provided a separate spreadsheet form for your use in capturing your comments (file name "CLS Spreadsheet Input Form 2010.xls"). In order for our team to process your comment, we need to locate it within the tool. Where applicable, please help us by listing the space type (e.g., Open Office, Corridor), the inputs used to determine applicable vignettes (8'6" ceiling, 5000 ft^2), daylighting parameters (South, Light Shelves, Automatic Interior), as well as a reference webpage location name. Below you will see the names of the various pages within the tool.

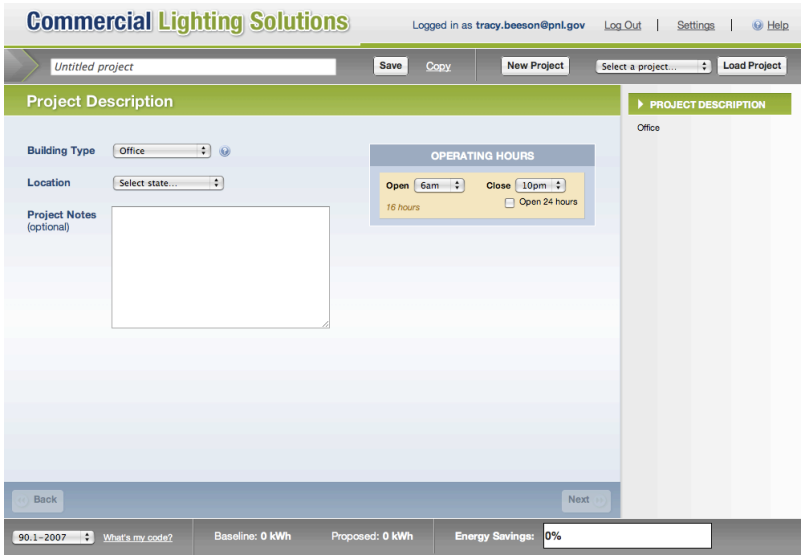
Sincerely,

The Commercial Lighting Solutions Team

REFERENCE WEBPAGE LOCATION NAME: **Sign-in**	
REFERENCE WEBPAGE LOCATION NAME: **Welcome Screen**	

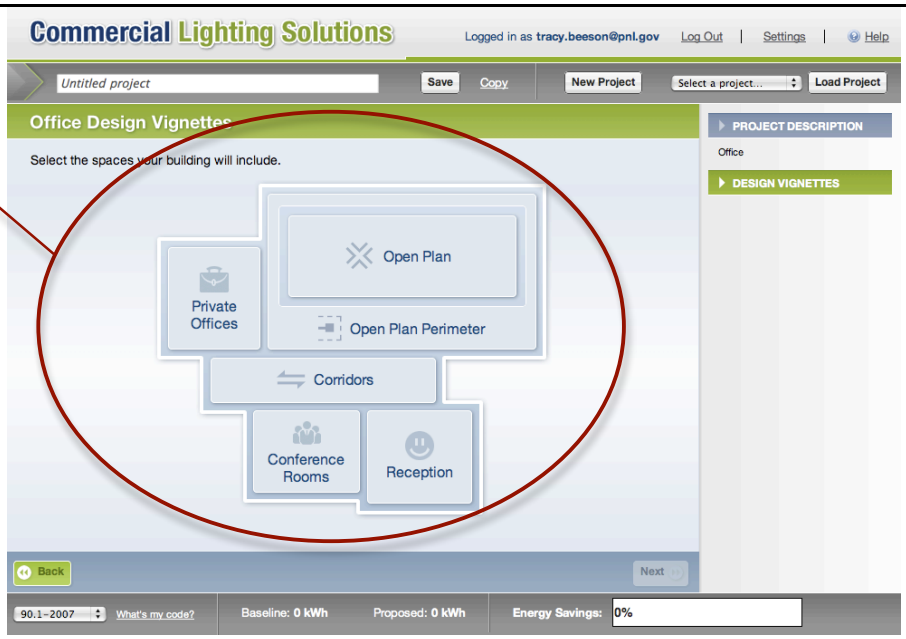
REFERENCE WEBPAGE LOCATION NAME:

Project Description



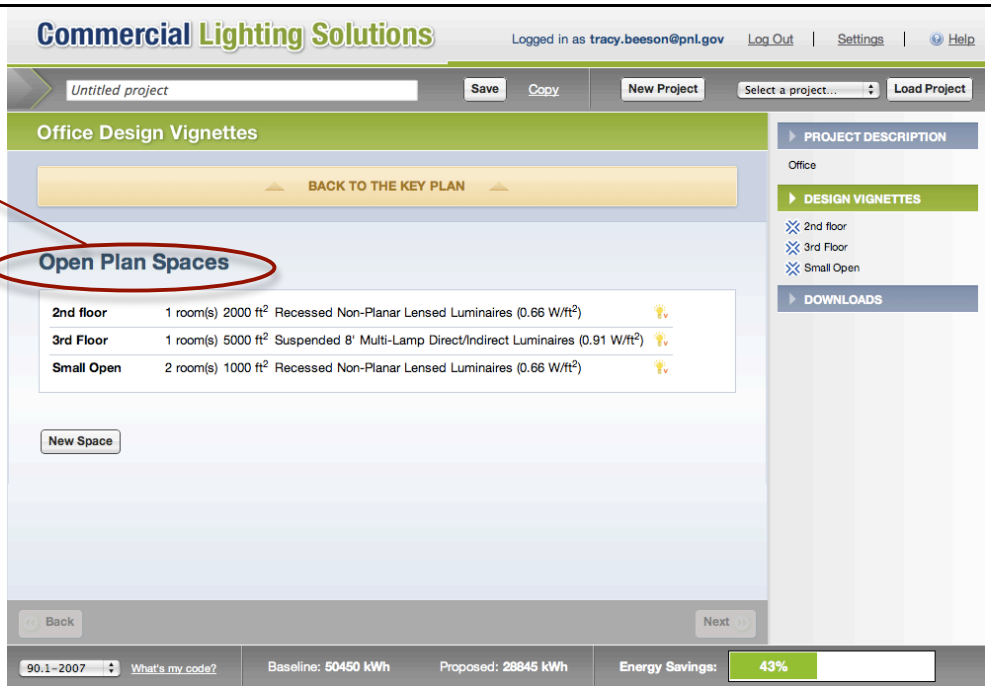
REFERENCE WEBPAGE LOCATION NAME:

Office Key Plan



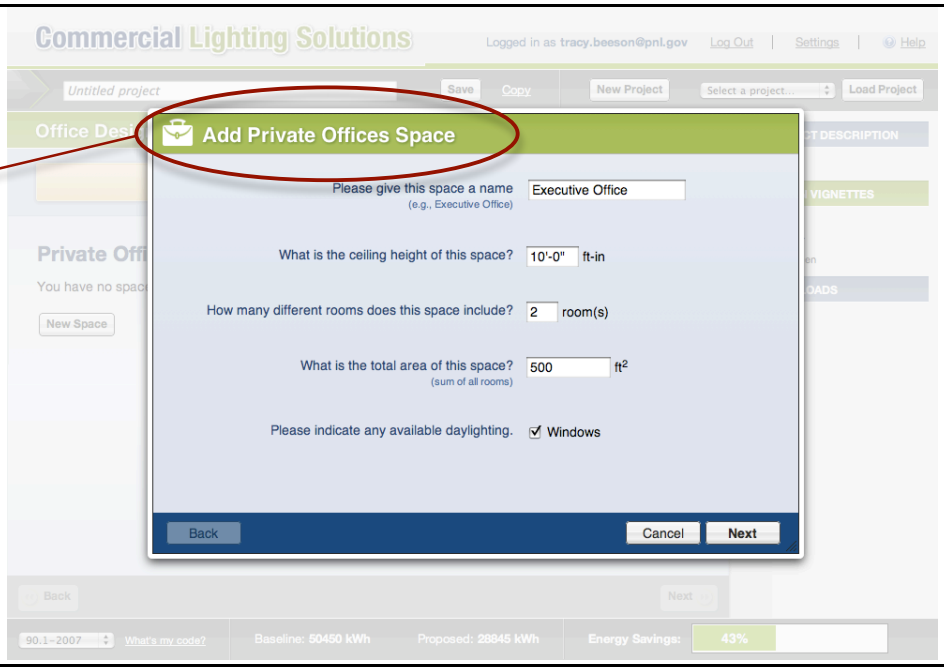
REFERENCE WEBPAGE LOCATION NAME:

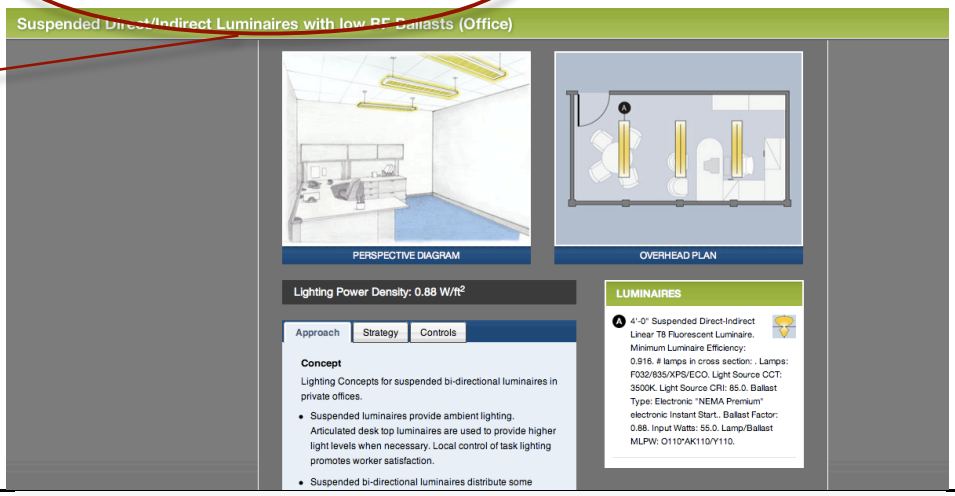
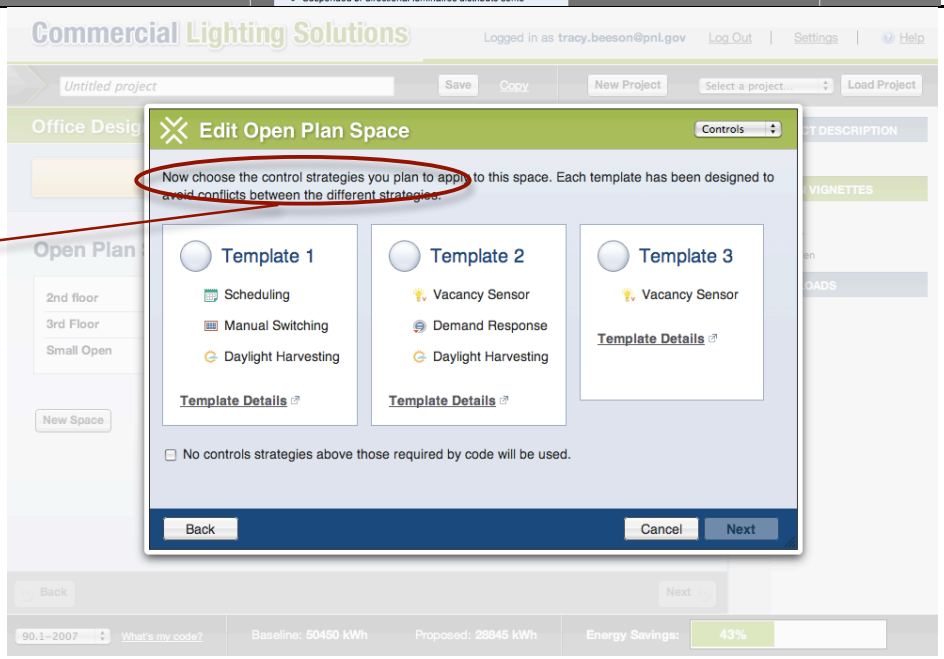
Space Type Summary

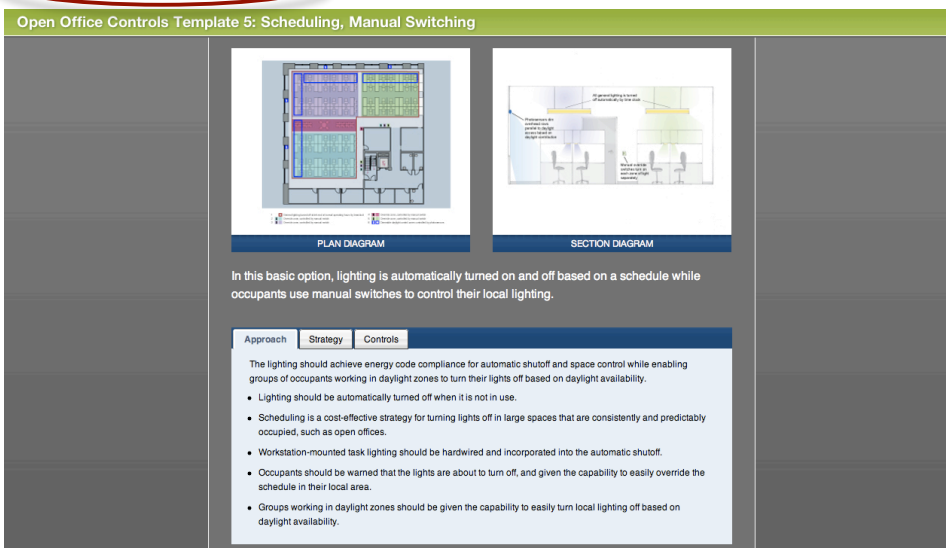
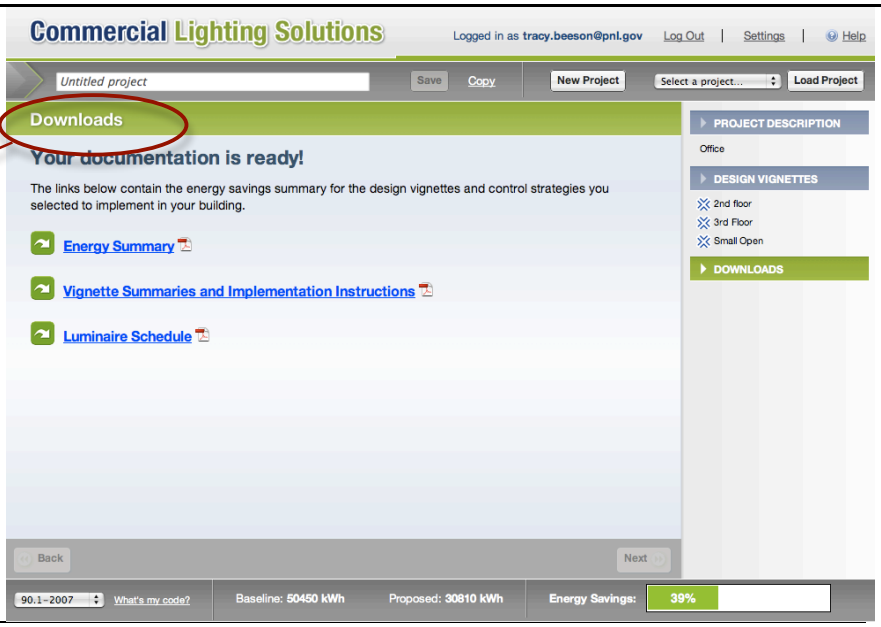


REFERENCE WEBPAGE LOCATION NAME:

Space Description Input Wizard



REFERENCE WEBPAGE LOCATION NAME: **Vignette Description**	
REFERENCE WEBPAGE LOCATION NAME: **Controls Template Options**	

REFERENCE WEBPAGE LOCATION NAME: **Controls Template Description**	
REFERENCE WEBPAGE LOCATION NAME: **Downloads**	

Appendix C: Peer Review Input Spreadsheet

Commercial Lighting Solutions, Peer Review Input Form

Date:	
Commenter Name:	
Organization Name:	
Mac or PC:	
Operating System:	
Browser & Version #:	

COMMENT TYPES / QUESTIONS	
Functionality	Does the tool work the way it's supposed to? Are there bugs, problems?
Appearance/Aesthetics	Do you like the way it looks?
Content	Do you like the content of the tool, including designs, text descriptions, graphics, luminaire chart, etc?
Ease of Use/Flow	Does the webtool lead you through the process well? Is it intuitive?
Download Materials	Do you have feedback about the Energy Summary, Vignette Summaries and Implemenation Instructions or Luminaire Schedule?
General	Do you have any comments that apply to the whole tool or defy categorization?

Comment Type	Space Type	Ceiling Height/ Total Area	# workstations/ partition height *(open office only)*	Daylight Input *(if applicable)*	Reference webpage or other location *(see "Reference.doc")*	Comment Description: Issues, Suggestions & Requests
Example	*Open Office*	*8'/5000*	*400/60*	*North/N/MI/100/200/0.5*	*Downloads*	*I was not able to see the Vignette Summary and Implementation Instructions packet. Energy Summary and Luminaire Schedule opened fine, but the middle link was NG.*

TO ADD MORE ROWS, PLEASE INSERT ABOVE THIS LINE.

Appendix D: Ticket List

TICKET #	PRIORITY	SUMMARY	DESCRIPTION/COMMENT
1	A	Incorporate definitions and explanations of technical information and acronyms	Needs definitions, eliminate use of acronyms, explain unknown terms or those that have not yet been widely adopted
2	A	Verify vignette offerings and applicability	"Why are undercabinet fixtures not recommended for my space with 48" partitions?" "Does uniformity of wall mean across wall length; top to bottom?" "Why is the LPD so high/low?"
3	A	Verify luminaire/lamp names	"The title of the luminaire says direct/indirect, yet the distribution shows more up than down. I would change the title to indirect/direct," omit manufacturer specific coding. "What exactly do you mean by non-planar? Perhaps you should call it "volumetric" type luminaires."
4	A	Review luminaire and lamp data and confirm descriptions sync with calculations and descriptive text	"The LED undercabinet fixture should produce more lumens than the articulated desktop luminaire," verify luminaire efficiencies, fill in blank information, confirm MLPW (mean lumen per watt) calculations
5	A	Integrate means of communicating with user when there are limited vignette options for their space parameters	Why is there only one vignette?
6	A	Resolve import issues that cause incorrect characters in the database	Symbols for inches and dashes are sometimes shown as question marks.
7	A	Add additional codes to drop-down menu	"Pennsylvania uses IECC2009 it is not on the list," and "I need title 24 baseline!"
9	A	Clarify workflow issues with the user (i.e navigating back to the key plan, what "new space" means, navigating to and from vignette details)	"I should always have a very legible, clear path back to key plan; since the path link is above where I'm working and not below, where I would expect it to be, it should be very legible," and "I found the Firefox windows confusing, the program opens new windows and I had trouble knowing where the action was."
10	A	Modify the output from the energy estimator in a more flexible program that can be more easily modified (i.e. excel)	"Exporting data to report across regions for an entire portfolio is going to be helpful. Need an electronic way to summarize progress across the whole portfolio."

TICKET #	PRIORITY	SUMMARY	DESCRIPTION/COMMENT
11	A	Confirm control template applicability and available options based on the vignette choice	Should there be multi-level switching and dimming in the same template, some users want to see dimming or USL control in private offices, provide more than occupant switching for daylighting in each vignette choice
12	A	Bring technical editor onto the project and strive for consistency across the various content areas and report outputs	All text needs to be reviewed in the content management system for accuracy and agreement
13	A	Correct misinformation and sizing issues associated with the images	Text too small on controls plans, perspectives and RCPs have discrepancies, luminaire labels wrong or missing
14	A	Improve controls template titles so that they are more meaningful to the user	Remove back-end titles from showing up on the UI or in the PDFs
16	A	Incorporate suggested textual edits into the controls template guidance	Consider text edit recommendations and implement if appropriate
17	A	Incorporate suggested textual edits into the lighting design vignettes	Consider text edit recommendations and implement if appropriate
18	A	Add a drop down menu that gives users a sense of window VT (visible transmittance) if they do not know offhand	VT input potentially problematic, give users an idea of what the potential ranges are for different glazing types
19	A	Fix number of characters associated with each bullet- important information is being lost	UI routinely cutting off controls bulleted information mid-sentence
20	A	Verify that energy calculations are correct	"When I got back to key plan, the energy savings showed 845% savings. The proposed savings showed NEGATIVE kWh savings."
22	A	Expand luminaire lists to account for different ballast dimming capabilities based on the controls options specified	Dimming ballasts not listed on luminaire schedule, and instant start ballasts are being shown, even though dimming was specified
23	A	Limit the significant digits represented in the tool regarding luminaire specifications	Power values, CRI, MLPW, should be whole numbers
24	A	Include controls selections in the energy summary document per space type	Controls summary has no information in the energy summary

TICKET #	PRIORITY	SUMMARY	DESCRIPTION/COMMENT
25	A	Specify kWh per vignette in energy summary	Provide users with a more granular overview of their estimated energy installation
27	A	Clean up formatting issues associated with energy summary download and provide enough information for it to be a succinct stand alone document	Download information being labeled, as "retail office" should not have retail in the title, "what is the basis for the energy summary? When it is divorced from the webtool input process, the context is unknown"
28	A	Present the controls guidance and information in a clear and straightforward manner in the PDF, without unnecessary repetition or confusing multiple references to the same space type	"CLS needs to change the impression that it gives of lighting controls [in the downloads], which is an add-on to the main event. Controls are the main event."
29	A	Clean up formatting issues associated with implementation and summary downloads	Controls images currently supported by irrelevant captions, and sections are not structured intuitively
30	A	Consider the file names designated for the download information, and insure the files are being called out and named in a manner that is communicative with the user	Report naming recommendations came from multiple reviewers; discuss file download naming and change if merited
31	A	Clean up formatting issues associated with the luminaire schedule download	"The luminaire report margins seemed off. I think the report needs to be formatted." Duplicate and resolve
32	A	Ensure that the information from the user's specific space shows up correctly in the energy estimator	" Once again, in the energy summary you need to specify individual room sizes and quantity of rooms."
33	A	Include baseline code controls in the database so that the user does not get error messages in the energy estimator when not going beyond code	Users should have the option to apply minimum code requirements to their project if they choose

TICKET #	PRIORITY	SUMMARY	DESCRIPTION/COMMENT
35	A	Include explanation/clarify algorithms in energy estimator (or download) for area of open office perimeter spaces	Wall-washing for open offices is calculated on the back end, and the user needs to be informed of the calculations and assumptions that are being made to apply the additional design to their space
39	A	Review retail vignettes for any errors or inappropriate design assumptions or recommendations	Should the aiming angle of luminaire be mentioned, concerns over the installation of vignettes for separate spaces not being complimentary
42	A	Create or update any images that are not current (from retail) due to changes in vignettes or re-structuring of the image paths with the inclusion of offices	"Photos will not come in"
43	A	Ensure that users choose their code baseline, and the drop-down does not have a default that allows users to miss the box entirely	The drop down code menu isn't obvious enough. Users would default to the wrong code if they did not see it.
44	A	Change guided tour to be inclusive of all of the new features, and make sure users know that it is video and not static if their speakers are not on	The guided tour appeared to not be working because the camera lingered on a single screen while the narrator provided an introduction, it also does not include a tour for the energy estimator portion of the tool
46	A	Clarify any confusion associated with user input requests	Why do we require the information requested? Wizard questions are not entirely clear. Clarify between requests, change language, etc.
47	A	Establish a standard with mouse-overs by making it part of the work-flow process from the beginning, or omitting the use altogether	"This is the first time I saw a mouse-over in the tool. This should be more obvious"
49	A	Modify the project description page to be building neutral until the user chooses a building type to avoid confusion, modify operating hours options to provide necessary flexibility	User did not think that offices were included in the drop down when they saw retail operating hour input on the screen already. "I think that you can remove 24 hour button for office buildings," "Recommend having a weekend/weekday feature,"

TICKET #	PRIORITY	SUMMARY	DESCRIPTION/COMMENT
51	A	Improve the icons to be more representative of the space types/controls strategies	The vacancy sensor icon could be improved, icon for multi-level switching shows dimmers, not switches, etc.
52	A	Change luminaire characteristics presentation to read as a list rather than bulleted form	"Under the Luminaire tab I wonder if the lighting characteristics would read easier if the attributes were a bulleted list as opposed to written in paragraph form."
53	A	Minimize the possibility of users closing the tool without saving progress either by auto-save or some sort of prompt	"Needs auto-save or regular prompts to save," "When I came back to the project after having logged out, there was no option for opening an existing project - Perhaps I didn't save? the system should ask before letting me exit."
54	A	Enlarge the size of the "add space" box so that input at the bottom is not overlooked when users do not see it (or) prevent user from continuing until all questions have been acknowledged	"When you hit next (because you can't see the menu for VT until you scroll) it doesn't let you go forward but I can't see why. Can you enlarge the box?"
55	A	Change the space summary page to make editing or deleting spaces more visible, and ensure the correct units are being reported	"After finishing, the edit and delete icons only come up when I scroll over them – they should come up automatically" and partition heights are listed feet, not inches
59	A	Resolve issues that give users security warning when navigating to the website	"Is there a way to add a security clearance so that Firefox doesn't show the site as untrusted?"
63	A	All spaces should be editable	Make sure that spaces are editable without users having to delete and re-add spaces
64	A	Project saving functionality	Resolve problems associated with re-loading saved projects and users not being able to save their project at all
65	A	Confirm user inputs are being accepted as requested	"Despite the instructions to the contrary, 0 is not an option for “no partitions” under partition height. I ended up using 1 instead."
66	A	Clean up unintended visuals	"some weird text appears on the far left of my screen when I have the webpage take up my entire screen"
67	A	Resolve errors	"When I clicked the new project button the first time I got an error, the second time it worked."

TICKET #	PRIORITY	SUMMARY	DESCRIPTION/COMMENT
68	A	Attempt to duplicate and resolve missing and/or reappearing elements of the UI	Red fields to fill in before continuing not showing up, after adding ceiling ht. The page format changed # workstations box moves
69	A	Space summary should reflect user input	Summary section not appropriately reflecting user's input and did not change after changes were made
70	A	Open plan perimeter drop-down should function	Drop down menu not listing applicable open office space types; duplicate and resolve
71	A	Errors retrieving vignettes	Duplicate and resolve problems associated with vignette retrieval
8	B	Consider expanding space types covered in the office section of the tool and offering more vignettes for spaces with limited options	"2 typical spaces common in almost every office application are a copy room and a break room, they should be added to the list of spaces." Only two corridor lighting options- hope these are first because they are the most common, not the only option
15	B	Provide users transparency about the design development, required equipment, baseline characteristics and assumptions made	Provide estimate of how much of the LPD is from the desktop luminaires, explanation of what baseline means, need for dimming ballasts should be mentioned in controls strategies that use dimming
21	B	Omit headings that do not have any associated text stored in the database	Headings with no information and bullets without text mislead the user by making them think that information is missing
36	B	Communicate the efficiency of the interior design considerations in the UI	"No tab for interior design layouts or strategies. The user should know this is the least efficient layout before proceeding. Information is useless at the report printout stage."
37	B	Offer available vignettes in order of lighting power density	"do we want to choose the order of presentation of the vignettes? Prioritize by LPD?"
40	B	Include vertical illumination ranges for the display lighting from general lighting	Vertical illuminance is even more important than horizontal illuminance for retail display; we should inform users what our models yield
41	B	Clarify any existing points of confusion in the retail vignettes	There is no information as to why luminaires are off-center in some vignettes, users unclear about how LPD is broken down by space type, application of lighting controls is unclear
50	B	Provide an "I don't know" option for users that do not know their furniture layout or daylighting parameters	"I don't know what the size of the window openings are." and "what if you don't have your furniture plan layout, can you answer with a "0" or N/A?"

TICKET #	PRIORITY	SUMMARY	DESCRIPTION/COMMENT
56	B	Enhance control tab to provide more detailed and applicable information	Controls tab is missing icons and explanations of what the different controls strategies are
61	B	Provide more flexibility for users when inputting space area (i.e. allowing them to input area and number of rooms, dimensions, or provide some sort of space calculator)	"Instead of having me do the math for the total area, can you put in SF per each of private offices?" and "have ability to but in dimensions and have program calculate sq ft"
34	C	Include percentage savings in watts per square foot in the energy estimator download information to facilitate LEED compliance	"LEED credits don't allow for kWh, so we need to also show the LEED savings, percentage of savings in w/SF"
48	C	Make controls choices more apparent in the space summary	Symbols are not legible in the space summary, and controls choices should be more prominently displayed
57	C	Change titles within the UI to help users better understand where they are in the work flow process	"Recommend changing the heading of this window to say controls" and "Recommend changing the heading of this window to say daylighting"
58	C	Provide users with guidance on how to choose quality products that will provide the results in the lighting system that the tool claims	"How do you deal with the luminaire efficiency and photometric performance? Not all suspended direct/indirects are going to give you these results."
60	C	Include information so that users know where the majority of the savings are coming from and how effective their controls strategies are without burdening them with more questions or providing too much detail as to overwhelm	Is there a way to relate to users the energy savings that can be attributed to the lighting system or the controls system? Integrating into the UI is very challenging, but some level of detail could be integrated into the report. The level of detail is TBD, since it can be dangerous to accommodate the picking and choosing of which elements of the lighting solution to apply, since they are designed as full solution sets
62	C	Flag equipment that is not high performance	"Can you put in a notes field to flag equipment that isn't high performance?"

Commenter ID #	Comment Reference #	Commenter Category	Comment Type	Space Type	Ceiling Height/ Total Area	# workstations/ partition height (*open office only*)	Daylight Input (*if applicable*)	Reference webpage or other location (*see "Reference.doc"*)	Comment Description: Issues, Suggestions & Requests	Action/Solution	Status or Ticket #	Frequency (20%)	Importance of comment (80%)	Sum (100%)	Ease of Implementation (30%)	Duration (40%)	Risk/ Complication (30%)	Sum (100%)	Short Term (40% Importance) (60% Feasibility)	Long Term (85% Importance) (15% Feasibility)
J Beutell	JB7	Owner							How do you deal with the luminaire efficiency and photometric performance? Not all suspended direct/indirects are going to give you these results.	Additions	58	3	5	4.6	1	1	3	1.6	3.4	4.2
R Parish	RP4	Owner							Exporting data to report across regions for an entire portfolio is going to be helpful. Need an electronic way to summarize progress across the whole portfolio.	Additions	10	2	5	4.4	4	3	5	3.9	4.2	4.3
R Parish	RP3	Owner							Clients that have portfolios in multiple locations.	Additions	10	2	5	4.4	4	3	5	3.9	4.2	4.3
A Cortese	AC7	Architect	Ease of Use/Flow				VT		it seems unlikely that this will actually be known, except for new construction. Is there some guidance that you can provide to ensure this is estimated correctly? (i.e. smoky gray glass is 0.3, etc). Also, please note that 1, which is impossible to achieve, is the only input acceptable by the system.	Additions	18	3	5	4.6	4	3	4	3.6	4.2	4.5
HMcKay	HM14	Designer	Functionality						VLT input box will not accept .3 – it must have a zero in front of it: 0.3	Additions	18	3	5	4.6	4	3	4	3.6	4.2	4.5
A Cortese	AC24	Architect	Functionality						Visual Transmittance – The only VT number that I could input was 1, which is not technically possible.	Additions	18	3	5	4.6	5	5	5	5	4.8	4.7
J Manierre	JM2	Utility						Jennifer Manierre, NYSERDA	Input wattages are going to vary per program. How do we deal with this??? From device list.	Content	TBD	1	3	2.6	2	2	3	2.3	2.5	2.6
C Magee	CM10	Owner							Hotel rooms can be very consistent, would be a good space type to offer in the future.	Content	LT	1	4	3.4	2	1	3	1.9	2.8	3.2
C Magee	CM11	Owner							For the future, once the HVAC tool is build, I'd suggest keeping kWh savings separate from combined HVAC savings. CFO's, finance folks, don't always accept the ancillary savings that are promised.	Content	TBD	1	4	3.4	2	1	3	1.9	2.8	3.2
M Myer	MM285	Internal	Content	Recessed 4' Asymmetric wall-wash luminaires			corridors	Approach/Criteria	CCT issue with this text and the luminaire box	Content	4	1	3	2.6	3	3	4	3.3	2.9	2.7

Commenter ID #	Comment Reference #	Commenter Category	Comment Type	Space Type	Ceiling Height/ Total Area	# workstations/ partition height (*open office only*)	Daylight Input (*if applicable*)	Reference webpage or other location (*see "Reference.doc"*)	Comment Description: Issues, Suggestions & Requests	Action/Solution	Status or Ticket #	Frequency (20%)	Importance of comment (80%)	Sum (100%)	Ease of Implementation (30%)	Duration (40%)	Risk/ Complication (30%)	Sum (100%)	Short Term (40% Importance) (60% Feasibility)	Long Term (85% Importance) (15% Feasibility)
W Dau	WD12	Designer/IES Chair							2 typical spaces common in almost every office application are a copy room and a break room, they should be added to the list of spaces.	Content	8	1	4	3.4	2	2	3	2.3	3.0	3.2
J Yorgey	JY37	Manufacturer	General					Overall	Not enough fixture type selections	Content	8	1	4	3.4	2	2	4	2.6	3.1	3.3
M Myer	MM575	Internal	Content	Suspended 8' multi-lamp (0.69 W/sf)	10/5000	50/48		Approach/Luminaires	I think that we should provide an estimate of how much of the LPD is from the desktop luminaires	Content	15	2	4	3.6	2	3	2	2.4	3.1	3.4
M Myer	MM284	Internal	Content	Recessed 4' Asymmetric wall-wash luminaires			corridors	Approach/Criteria	The vertical illuminance on at least one wall…Can that be the short end wall? Do you want it to be along on of the long-axis walls?	Content	2	1	4	3.4	3	3	3	3	3.2	3.3
J Manierre	JM3	Utility						Jennifer Manierre, NYSERDA	What do we do with equipment that isn't recommended?	Content	62	2	4	3.6	3	3	2	2.7	3.2	3.5
M Dare	MD9	Utility							How are you going to characterize the glare issues that can come with "non-planar" type fixutres? Some are OK, and some are not. You should note that none of these fixtures meet RP-1.	Content	58	3	5	4.6	1	1	3	1.6	3.4	4.2
M Myer	MM329	Internal	Content	Suspended Direct/Indirect Luminaires with low BF ballasts	9'	PO		Title	The title of the lumianire says direct/indirect, yet the distribution shows more up than down. I would change the title to indirect/direct	Content	3	1	4	3.4	4	3	4	3.6	3.5	3.4
M Myer	MM550	Internal	Content	Suspended 8' multi-lamp (0.69 W/sf)	10/5000	50/48		Luminaires B	I recommend changing "Direct-Indirect" to "Indirect/Direct"	Content	3	1	4	3.4	4	3	4	3.6	3.5	3.4
M Myer	MM291	Internal	Content	Recessed 4' Asymmetric wall-wash luminaires			corridors	Strategy/Maintenance	5% lumen depreciation is aggressive. Also over the rated life of the lamp is different than the mean lumen value.	Content	4	3	4	3.8	3	3	3	3	3.5	3.7
M Myer	MM493	Internal	Content	Recessed Non-Planar (LPD 0.64 W/sf)	8/5000	30/48		Luminaire choices	Why are LED undercabinet fixtures recommended here, but not for another design with 48" tall partitions and a ceiling height of 9'-6". I do not think that ceiling height is the sole driving issue for LED undercabinet fixtures	Content	2	1	5	4.2	2	3	3	2.7	3.6	4.0
N Miller	NM20	Internal							General question: I assume that the small number of options in this example doesn't mean that recessed open slot T8 downlights are the only electric lighting solution. I bet this is just the first one because it's the most common.	Content	8	2	4	3.6	4	3	4	3.6	3.6	3.6

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N Miller	NM17	Internal							.I assume "uniformity of luminance" means "uniformity of wall luminance from top to bottom of wall". Or does it mean across the entire wall length, top to bottom?	Content	2	1	4	3.4	4	4	4	4	3.6	3.5
M Myer	MM517	Internal	Content	Recessed Non-Planar (LPD 0.64 W/sf)	8/5000	30/48		Luminaires C	Input watts of 9.2 seems low. How big is this fixture?	Content	4	1	4	3.4	4	4	4	4	3.6	3.5
D Maniccia	DM14	Controls							There should a way to show the baseline LPD on the summary key plan screen once the savings starts to show up. There should be a way to explain what baseline includes, e.g., baseline kWh = code compliant, which does include both LPD allowed in code and the required controls.	Content	15	1	4	3.4	4	4	4	4	3.6	3.5
M Myer	MM580	Internal	Content	Perimter Recessed CFLs				LPD	Why is the LPD so high? If the fixtures are only 28W and the LPD is 0.97 W/sf, then this design is assuming there is one fixture per every 29 sq feet. Is that correct?	Content	2	1	4	3.4	4	4	5	4.3	3.8	3.5
HMcKay	HM37	Designer	Content						V1- Title of vignette says "low BF ballasts", but descriptions, strategy and sidebar shows standard BF of .88.	Content	4	1	4	3.4	4	4	5	4.3	3.8	3.5
M Myer	MM590	Internal	Content	Perimter Recessed CFLs				Luminaires	I think that BF is wrong, it is probably 0.98 or 1.02	Content	4	1	4	3.4	4	4	5	4.3	3.8	3.5
M Myer	MM185	Internal	Content	Recessed slot luminaires Perpendicular to Desk with Compact Fluorescent Downlights and Wall-washers (Office)				Luminaires/D	Luminaire efficiency looks wrong. The DL and WW have the exact same efficiency?	Content	4	1	4	3.4	4	4	5	4.3	3.8	3.5

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N Miller	NM9.3	Internal							How are luminaires A and B different? I can't see the photometric distribution, and the descriptions look the same.	Content	4	1	4	3.4	4	4	5	4.3	3.8	3.5
M Myer	MM464	Internal	Appearance/ Aesthetics	Recessed Non-Planar on wider centers	9.6/5000	40/48		Luminaires B	Why is the power suppy remotely located?	Content	4	2	4	3.6	4	4	5	4.3	3.9	3.7
A Cortese	AC16	Architect	Content						Conference room vignettes – do all of these really have the same LPD of 0.77 W/SF? That seems unlikely.	Content	2	2	5	4.4	3	3	5	3.6	4.1	4.3
M Dare	MD7	Utility			10/4000 SF	70 workstations, 60: partition height	1080 feet length, sidelight glazing area is 4320.	Recessed non-planar lensed luminaires. Open plan office w/low ceiling and low partitions.	Why does a 60" partition height yield ONLY the recessed non-planar lensed luminaires, which indicates that it's for low partitions?	Content	2	2	5	4.4	4	3	4	3.6	4.1	4.3
M Myer	MM202	Internal	Content	Add Corridors Space/5' wide			corridors		4 vignettes are shown here. It looks like they are duplicative. I see (2) Recessed 4' asymmetrical wall-wash luminaires and (2) recessed 1'x4' non-plananr lensed luminaires options shown. Is this right? If so, why are all fo the LPDs the same?	Content	2	2	5	4.4	4	3	4	3.6	4.1	4.3
N Ferzacca	NF2	Engineer							It didn't give me any vignettes when I 1st put in my choices. Said that there were no vignettes for my project, why is that?	Content	2	2	5	4.4	4	3	4	3.6	4.1	4.3
N Ferzacca	NF6	Engineer			10 ft/10,000 SF	75 workstations, 48"	N/A	Non-planar lensed.	Why is there only one vignette?	Content	5	2	5	4.4	4	3	4	3.6	4.1	4.3
J Yorgey	JY2	Manufacturer	Functionality					Project description energy estimate	selected Pennsylvania code type did not change - should it? Also ASHRAE is listed as "codes" it is a standard not a code. Pennsylvania uses IECC2009 it is not on the list.	Content	7	2	5	4.4	3	3	5	3.6	4.1	4.3
L Davis	LD4	Designer							I need the Title 24 baseline!	Content	7	2	5	4.4	3	3	5	3.6	4.1	4.3

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A Cortese	AC21	Architect	Functionality						Private Office Control Strategies are not named like the control strategies in other types of spaces. And if I choose one, it doesn't show up in the summary of my space. Only "no controls other than required by code" shows up for private offices.	Content	11	3	5	4.6	4	3	4	3.6	4.2	4.5
D Maniccia	DM6	Controls						Suspended D/I luminaires with low BF ballasts	You wouldn't need 3 luminaires in a 150SF office. Either the design is wrong, or you are offering vignettes that aren't appropriate for the office size I entered.	Content	2	1	5	4.2	4	4	5	4.3	4.2	4.2
A Cortese	AC12	Architect	Content						All of the ' are actually ? on my computer's browser.	Content	6	5	4	4.2	4	4	5	4.3	4.2	4.2
HMcKay	HM9	Designer	Content						Symbols for inches and dashes are sometimes shown as question marks.	Content	6	5	4	4.2	4	4	5	4.3	4.2	4.2
J Beutell	JB4	Owner							typos.	Content	6	5	4	4.2	4	4	5	4.3	4.2	4.2
J Yorgey	JY10	Manufacturer	Functionality					Control stratigies, daylight occ sense	? Mark in "they're" This one says dimming for daylight control - sho	Content	6	5	4	4.2	4	4	5	4.3	4.2	4.2
J Yorgey	JY16	Manufacturer	Functionality						how should Ft be inputed with or qith out marks - ' " ?	Content	6	5	4	4.2	4	4	5	4.3	4.2	4.2
K Abernathy	KA9	Designer	General	Pharmacy				Control Details - Occupancy Sensors	Check the fonts because I have question marks around the words see, hear and seeing. Also the spacing seems to be funky in some of these. Could be my web browser not sure.	Content	6	5	4	4.2	4	4	5	4.3	4.2	4.2
L Davis	LD8	Designer							Text corrections are needed -- "?" marks are showing up where you probably mean to use dashes	Content	6	5	4	4.2	4	4	5	4.3	4.2	4.2
M Dare	MD11	Utility							Typos.	Content	6	5	4	4.2	4	4	5	4.3	4.2	4.2
M Myer	MM66	Internal	Content	Recessed Slot Lumianirs parallel to desk with compact fluorescent wall-washers (office)				Luminaire B	Text issue in the inch tick mark and is being shown as quotes	Content	6	5	4	4.2	4	4	5	4.3	4.2	4.2
N Miller	NM12	Internal	Content	Office-corridor				recessed asym wallwash lum's	Replace "?" with " ' " in three places under concept. Replace "?" in Strategy box as well.	Content	6	5	4	4.2	4	4	5	4.3	4.2	4.2
W Dau	WD5	Designer/IES Chair							"?" showing up instead of an apostrophe.	Content	6	5	4	4.2	4	4	5	4.3	4.2	4.2

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C DiLouie	CD3	Core Team	Content						When I get to the reception area section, I am offered several lighting design templates. For one of them, a control templates is not available: "recessed CFL downlights with dropped decorative diffuser and perimeter wall slots." We will need a control template for this lighting template.	Content	11	2	5	4.4	3	4	5	4	4.2	4.3
M Myer	MM387	Internal	Content	Add Open Plan Space	9.6/5000	40/48		LPDs	These values all look low. I am surprised. If accurate, congratulations.	Content	2	2	5	4.4	4	4	5	4.3	4.4	4.4
M Myer	MM37	Internal	General	Suspended Direct/Indirect Luminaires with a Whiteboard Light	Conference room			General	What is the difference between this vignette and the other vignette. I cannot find any major differences other than the LPD and I cannot figure out why the LPD is different.	Content	2	2	5	4.4	4	4	5	4.3	4.4	4.4
M Myer	MM606	Internal	Content	Perimeter Recessed Linear Fluorescent				LPD	Should the the power/energy unit be in W/sf or should it be W/lf?	Content	2	2	5	4.4	4	4	5	4.3	4.4	4.4
M Myer	MM417	Internal	Content	Suspended 12' single-lamp	9.6/5000	40/48		Luminaires A	Why are we separating these as two luminaires when the title of the vigentte is 12"?	Content	4	2	5	4.4	4	4	5	4.3	4.4	4.4
M Myer	MM632	Internal	Content	Add Open Plan Space- Daylighting questions					This section NEEDS more FAQs about all of the different options that we are asking about.	Content	46	2	5	4.4	4	4	5	4.3	4.4	4.4
K Cota	KC5	Utility						Kelly Cota, National Grid	Uh oh, manufacturer-specific codes are in the schedule and Energy Estimate report.	Content	3	1	5	4.2	4	5	5	4.7	4.4	4.3
HMcKay	HM3	Designer	Content						Needs definitions either as links or mouse-overs. Eg., vacancy sensors, MLPW, etc.	Content	1	4	5	4.8	4	3	5	3.9	4.4	4.7

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HMcKay	HM13	Designer	Content						VT – Spell out "Visual Light Transmission VLT"	Content	1	4	5	4.8	4	3	5	3.9	4.4	4.7
D Maniccia	DM11	Controls						Strategy tab	Definition of vacancy sensor is manual on, auto off, but it's implicit in the definition that it's a wall switch. Is an vacancy sensor, by definition, also a wall switch? Check the info I sent to Carol from the T24 code. Section 119, page 69.	Content	1	3	5	4.6	4	4	5	4.3	4.5	4.6
HMcKay	HM19	Designer	Content						Vacancy sensors and other terms need to be defined.	Content	1	3	5	4.6	4	4	5	4.3	4.5	4.6
L Davis	LD13	Designer							The state code in CA doesn't use the term vacancy sensor, they say occupancy sensor, manual on. Not everyone will know what you mean by vacancy sensor. Is there a way to underline these new-ish terms, and hyperlink to a definition?	Content	1	3	5	4.6	4	4	5	4.3	4.5	4.6
K Cota	KC2	Utility						Kelly Cota, National Grid	explanation of what baseline means, should be in the tool	Content	15	3	5	4.6	4	4	5	4.3	4.5	4.6
E Smith	ES1	Owner							What are light shelves?	Content	1	1	5	4.2	5	5	5	5	4.5	4.3
N Ferzacca	NF9	Engineer							How are you going to share the layout strategies with people? Do you want them to come away with spacing info?	Content	9	1	5	4.2	5	5	5	5	4.5	4.3
D Maniccia	DM12	Controls							Is there a way to evaluate the language that is written for controls, without trying to go through every combination of templates?	Content	12	1	5	4.2	5	5	5	5	4.5	4.3

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M Myer	MM13	Internal	Content	Recessed Non-Planar Lensed Luminaires with low Ballast Factor and Recessed Compact Fluorescent Lensed Wall-washers (Office)	Conference room			Strategy/Luminaire A	I am troubled with this statement "These luminaires are significantly more efficienct than those with open-celled parabolic loubers, so they reduce energy consumption and the quantity of luminaires in the space". Do we really think less fixtures were installed?	Content	4	2	5	4.4	4	5	5	4.7	4.5	4.4
A Cortese	AC6	Architect	Content						I would suggest you try and eliminate to the use of acronyms (VT, BF, LPD, AFF) wherever possible. Direct hyperlinks to definitions might provide added functionality.	Content	1	4	5	4.8	4	4	5	4.3	4.6	4.7
C DiLouie	CD8	Core Team	Content						That box asked me for "VT of sidelighting"—the term "VT" should be spelled out at least, at most explained	Content	1	4	5	4.8	4	4	5	4.3	4.6	4.7
C DiLouie	CD9	Core Team	Content						Lighting options showed me "low BF" ballasts—the term "BF" should be spelled out at least, at most explained	Content	1	4	5	4.8	4	4	5	4.3	4.6	4.7
J Beutell	JB1	Owner							What is sidelighting glazing in open office? How about using the word windows? Curtain wall, window wall, saying the same thing with 3 different words. How about a glossery.	Content	1	4	5	4.8	4	4	5	4.3	4.6	4.7
J Beutell	JB2	Owner							What is VT? (spell it out)	Content	1	4	5	4.8	4	4	5	4.3	4.6	4.7
J Yorgey	JY7	Manufacturer	Content					Space type summary open plan	Don't know what is meant by Sidelight glazing area or VT type	Content	1	4	5	4.8	4	4	5	4.3	4.6	4.7
M Myer	MM656	Internal	Content	Controls Strategies: Vacancy Sensors, Daylight Harvesting				Strategy	5th bullet - I think that you need to define "head height of the window"	Content	1	4	5	4.8	4	4	5	4.3	4.6	4.7
N Ferzacca	NF4	Engineer							Should we be asking for VT or VLT? Should be spelling out the acronym.	Content	1	4	5	4.8	4	4	5	4.3	4.6	4.7

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L Davis	LD10	Designer							The term "non-planar" is not often used, but I don't know what term is better. I'm hearing "volumetric" style a lot. Maybe put "volumetric" in parentheses next to non-planar.	Content	3	4	5	4.8	4	4	5	4.3	4.6	4.7
M Dare	MD8	Utility							What exactly do you mean by non-planar? Perhaps you should call it "volumetric" type luminaires.	Content	3	4	5	4.8	4	4	5	4.3	4.6	4.7
M Myer	MM349	Internal	Content	Suspended Direct/Indirect Luminaires with low BF ballasts	9'	PO		Strategy/Luminaires A	Change "bi-directional" to "indirect/direct"	Content	3	4	5	4.8	4	4	5	4.3	4.6	4.7
N Ferzacca	NF22	Engineer							Non-planar. Premium recessed indirect. NStar uses Volumetric.	Content	3	4	5	4.8	4	4	5	4.3	4.6	4.7
C DiLouie	CD30	Core Team	Content						The control options all have weird numbering in the vignette documents, such as “control system: 41-9.” This needs to be cleaned up.	Content	14	3	5	4.6	5	4	5	4.6	4.6	4.6
C DiLouie	CD4	Core Team	Content						I selected another reception area section lighting template and picked the control template available. The section diagram has two typos	Content	13	3	5	4.6	5	5	5	5	4.8	4.7
M Myer	MM643	Internal	Content	Controls Strategies: Scheduling, Daylight Harvesting				Controls	I think that you need a better title for this section	Controls Templates	14	1	2	1.8	5	5	5	5	3.1	2.3
W Dau	WD6	Designer/IES Chair							The controls templates for workstation-specific are the same.	Controls Templates	11	1	3	2.6	4	5	4	4.4	3.3	2.9
HMcKay	HM24	Designer	Content						The need for dimming ballasts should be mentioned in strategy related to dimming.	Controls Templates	15	2	4	3.6	4	3	3	3.3	3.5	3.6

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D Maniccia	DM16	Controls						Large 400SF conference room	The tool allows for a vacancy sensor in a very large room. The sensor in the wall switch would be insufficient. Does this make sense? If you keep it, make sure to address the issue in the implementation guidance.	Controls Templates	11	2	4	3.6	4	5	5	4.7	4.0	3.8
D Maniccia	DM17	Controls						Meeting Room Controls Template 31: Vacancy Sensing, Multilevel (Zonal) Switching, Manual Dimming	Why have both bi-level switching and manual dimming in the same conference room?? Do the controls apply to different layers of light? E.g. wall washing, or general. If so, that's not clear. Looking at the plan view, I can see the distinction, but the section view doesn't show the wallwashers as controlled by different strategies.	Controls Templates	11	2	4	3.6	4	5	5	4.7	4.0	3.8
J Yorgey	JY17	Manufacturer	Functionality					Space type summary conf room	odd description of multilevel switching and	Controls Templates	11	2	4	3.6	4	5	5	4.7	4.0	3.8
M Myer	MM640	Internal	Content	Controls Strategies: Scheduling, Daylight Harvesting				Approach	In the last bullet are we giving them local control over the lighting in the daylight zone?	Controls Templates	11	3	4	3.6	4	5	5	4.7	4.0	3.8
W Dau	WD8	Designer/IES Chair							Does the scheduling control strategy allow dimming by schedule or is it only on/off? Could that be added?	Controls Templates	11	2	4	3.6	4	5	5	4.7	4.0	3.8
W Dau	WD11	Designer/IES Chair							Private offices only give me the choice of motion and multi-level switching, but no dimming or USL control	Controls Templates	11	2	4	3.6	4	5	5	4.7	4.0	3.8
W Dau	WD13	Designer/IES Chair							why would I want multilevel switching and dimming on the same template option?	Controls Templates	11	2	4	3.6	4	5	5	4.7	4.0	3.8

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M Myer	MM660	Internal	Content	Controls Strategies: Vacancy Sensors, Daylight Harvesting				Strategy	7th bullet - the text differs from the section diagram	Controls Templates	16	2	4	3.6	4	5	5	4.7	4.0	3.8
M Myer	MM652	Internal	Content	Controls Strategies: Vacancy Sensors, Daylight Harvesting				Strategy	Text is not the same. I compared the bullets in a Scheduling, Daylight Harvesting template and I had different daylighting-specific text between the two templates.	Controls Templates	16	2	4	3.6	4	5	5	4.7	4.0	3.8
J Yorgey	JY9	Manufacturer	Functionality					Control strategies	Diagram detail too small , unreadable, This one says occupant switching for daylight control - should recommend dimming -like occ sense /daylight	Controls Templates	11	3	4	3.8	4	5	5	4.7	4.2	3.9
J Yorgey	JY11	Manufacturer	Content					Control strategies	This one says occupant switching for daylight control - should recommend dimming -like occ sense /daylight	Controls Templates	11	3	4	3.8	4	5	5	4.7	4.2	3.9
HMcKay	HM20	Designer	Content						“Granular” level of control not meaningful to general user. Sounds like grit.	Controls Templates	16	2	4	3.6	5	5	5	5	4.2	3.8

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HMcKay	HM38.1	Designer							V1- Approach: Not really a how-to. Confusing if you don't already know how it works. "Robust" will not have meaning to general user. Approach tab. "transparent to the occupant" could be confusing – transparent it could mean obvious, when the opposite is intended. It doesn't have to be undetectable, just smooth and continuous so it is not distracting to the occupants. Strategy tab – many paragraphs are incomplete. Control tab incomplete.	Controls Templates	16	2	4	3.6	5	5	5	5	4.2	3.8
M Myer	MM653	Internal	Content	Controls Strategies: Vacancy Sensors, Daylight Harvesting				Strategy	"highly-sensitive" should be hyphenated	Controls Templates	16	2	4	3.6	5	5	5	5	4.2	3.8
M Myer	MM639	Internal	Content	Controls Strategies: Scheduling, Daylight Harvesting				Approach	1st bullet - emphasize scheduling here. The lighting should be **SCHEDULED** to turn off the lighting…	Controls Templates	16	2	4	3.6	5	5	5	5	4.2	3.8
M Myer	MM655	Internal	Content	Controls Strategies: Vacancy Sensors, Daylight Harvesting				Strategy	4th bullet - I think that you need more text saying that those distances are in plan from the edge of the daylight aperture	Controls Templates	16	2	4	3.6	5	5	5	5	4.2	3.8
M Myer	MM658	Internal	Content	Controls Strategies: Vacancy Sensors, Daylight Harvesting				Strategy	5th bullet - what does this mean "The zones should be small enough to be localized"	Controls Templates	16	2	4	3.6	5	5	5	5	4.2	3.8
M Myer	MM659	Internal	Content	Controls Strategies: Vacancy Sensors, Daylight Harvesting				Strategy	6th bullet - I am confused by this bullet	Controls Templates	16	2	4	3.6	5	5	5	5	4.2	3.8
M Myer	MM648	Internal	Content	Controls Strategies: Vacancy Sensors, Daylight Harvesting				Approach	In the first bullet, emphasize the sensors turning off light when the space is vacant	Controls Templates	16	2	4	3.6	5	5	5	5	4.2	3.8

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M Myer	MM657	Internal	Content	Controls Strategies: Vacancy Sensors, Daylight Harvesting				Strategy	The 5th bullet is worded weirdly "Daylight zone can be defined as about 1.5 times the head height of the window in from the window." - height of the window in from the window. I think that we need to reinforce this is horizontal distance from the window of a vertical measurement	Controls Templates	16	2	4	3.6	5	5	5	5	4.2	3.8
M Myer	MM629	Internal	Appearance/ Aesthetics	Control Strategy: Vacancy Sensor				Approach	This does not sound right "Vacancy sensors should turn the lights off after the space is unoccupied to save energy, based on control zones small enough to	Controls Templates	16	2	4	3.6	5	5	5	5	4.2	3.8
M Myer	MM649	Internal	Content	Controls Strategies: Vacancy Sensors, Daylight Harvesting				Approach	Well now that I write that and read the 3 bullet, I am confused. Aren't the first and third bullets redundant?	Controls Templates	16	2	4	3.6	5	5	5	5	4.2	3.8
A Cortese	AC8	Architect	General						Under open plan, it states "control the lighting by zones that are consistent with daylight distribution". I wonder if practitioners in the real world will know what that means. Instead, perhaps the CLS tool could provide some guidance on what zoning strategies might work for a given space configuration. Even having a simple plan diagram that shows perimeter zones separate from other zones might be helpful.	Controls Templates	16	1	5	4.2	5	5	5	5	4.5	4.3
HMcKay	HM12	Designer	Content						Total glazed area "above 303 AFF" – daylight not usable below 30"	Daylighting	LT	1	3	2.6	1	2	3	2	2.4	2.5
J Yorgey	JY6	Manufacturer						Space type summary open plan	Daylight choisce only has window option no skylight option	Daylighting	LT	1	3	2.6	1	2	3	2	2.4	2.5
N Ferzacca	NF5	Engineer							Glazing manufacturers also have curtain wall systems. Viacon, make glazing, but not assembly. Once you put mullions in, VLT would be less. Probably not an issue for these calcs.	Daylighting	LT	1	3	2.6	1	2	3	2	2.4	2.5

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N Ferzacca	NF12	Engineer							Maybe this is by design, but you aren't getting into architecural solutions.	Daylighting	LT	2	3	2.8	1	2	3	2	2.5	2.7
M Dare	MD5	Utility							I have 3 glazing walls, due north, south and west. How do I average that?	Daylighting	LT	1	4	3.4	1	2	3	2	2.8	3.2
HMcKay	HM15	Designer	Content						If user inputs some ridiculous data, like a VLT of 0.1 and a WWR of 0.1, there should be a pop-up that says "Glazing not sufficient to achieve savings from daylight harvesting." I realize this will be handled in the future.	Daylighting	LT	1	3	2.6	4	3	3	3.3	2.9	2.7
A Cortese	AC15	Architect	General						Control vignettes-would providing guidance on the suggested location of daylight controls/sensors be helpful? I understand this is an ongoing challenge.	Daylighting	28	3	4	3.8	5	4	4	4.3	4.0	3.9
A Cortese	AC20	Architect	Functionality						I was frustrated when I erroneously entered data in a "finished" space. I was unable to go back and edit the data. Instead I had to delete the space and re-enter.	Functionality	63	0	0	0	0	0	0	0	0.0	0.0
J Yorgey	JY35	Manufacturer	Functionality					reload of project	no energy saings information retained / nothing comes up on downloads / can't edit spaces	Functionality	TBD	1	3	2.6	2	2	3	2.3	2.5	2.6
A Cortese	AC22	Architect	Functionality						After I entered the open office glazing of "34.5", I continually received the following error message and was never able to change or finish the project. The error read: "Error marshalling java.util.sorted set: Error marshalling java.lang.integer: Format error converting 34.5 See the Log for more details See the log for even more details"	Functionality	TBD	1	3	2.6	3	3	3	3	2.8	2.7
E Smith	ES3	Owner							When I went back to change operating hours, it wouldn't take the change or change the energy savings bar at the bottom.	Functionality	TBD	1	5	4.2	2	2	3	2.3	3.4	3.9
K Abernathy	KA5	Designer	General	Pharmacy				Luminaires Parallel to Wall Pharmacy - under Approach	Random bullet point makes it feel like one is missing something.	Functionality	21	2	4	3.6	3	3	5	3.6	3.6	3.6

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M Myer	MM194	Internal	Content	Recessed slot luminaires Perpendicular to Desk with Compact Fluorescent Downlights and Wall-washers (Office)				Strategy/daylighting	If no daylighting text is presented, I would remove this heading	Functionality	21	2	4	3.6	3	3	5	3.6	3.6	3.6
N Miller	NM16	Internal							there is a random bullet point	Functionality	21	2	4	3.6	3	3	5	3.6	3.6	3.6
N Miller	NM9.1	Internal							Extra bullet in Concept text.	Functionality	21	2	4	3.6	3	3	5	3.6	3.6	3.6
C Magee	CM4	Owner							Graphics are definitely not showing up correctly.	Functionality	TBD	1	5	4.2	3	3	3	3	3.7	4.0
C DiLouie	CD11	Core Team	Content						I went through private office, chose my lighting template and controls, and got 172% energy savings	Functionality	20	2	5	4.4	3	3	5	3.6	4.1	4.3
L Davis	LD14	Designer							When I got back to key plan, the energy savings showed 845% savings. The proposed savings showed NEGATIVE kWh savings.	Functionality	20	2	5	4.4	3	3	5	3.6	4.1	4.3
A Cortese	AC19	Architect	Functionality						The system would only allow me to save one project. My second working example was never able to be saved for future reference. At first I thought this was a "time out" problem, but I was never able to save a second project.	Functionality	64	2	5	4.4	3	4	5	4	4.2	4.3
A Cortese	AC23	Architect	Functionality						Open Plan offices – Despite the instructions to the contrary, 0 is not an option for "no partitions" under partition height. I ended up using 1 instead.	Functionality	65	2	5	4.4	3	4	5	4	4.2	4.3
C DiLouie	CD1	Core Team	Functionality						on the opening screen, some weird text appears on the far left of my screen when I have the webpage take up my entire screen. The text appears using Google Chrome, Firefox and Internet Explorer.	Functionality	66	2	5	4.4	3	4	5	4	4.2	4.3
C Magee	CM1	Owner							When I clicked the new project button the first time I got an error, the second time it worked.	Functionality	67	2	5	4.4	3	4	5	4	4.2	4.3

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K Abernathy	KA11	Designer							Web-site crashed before I could get to my results. My browser may have been having issues. I constantly had to override the security certificate and perhaps that was because it is a beta version.	Functionality	67	2	5	4.4	3	4	5	4	4.2	4.3
M Dare	MD12	Utility							I got a server error after looking at the summary screen after picking my vignettes, and hitting next.	Functionality	67	2	5	4.4	3	4	5	4	4.2	4.3
R Parish	RP1	Owner							Not found error, over and over again, had to stop using the tool and have Carol do it.	Functionality	67	2	5	4.4	3	4	5	4	4.2	4.3
W Dau	WD14	Designer/IES Chair							server error when generating the final report "the page at https://beta.lighting-solutions.org says: A server error has ocurred'	Functionality	67	2	5	4.4	3	4	5	4	4.2	4.3
C Magee	CM2	Owner							Input box for reception square footage was missing, then when I hit next it showed up and I could type in the SF-age.	Functionality	68	2	5	4.4	3	4	5	4	4.2	4.3
HMcKay	HM36		Functionality						Template 1 – lines above the title "Most flexible ...." Increases and decreases when mouse is moved over page.	Functionality	68	2	5	4.4	3	4	5	4	4.2	4.3
J Yorgey	JY5	Manufacturer	Functionality					Space type summary open plan	After adding ceiling ht. The page format changed #workstaions box moves	Functionality	68	2	5	4.4	3	4	5	4	4.2	4.3
J Yorgey	JY27	Manufacturer						Energy estimate	Did not work - asked to fill in red fields - none wre shown	Functionality	68	2	5	4.4	3	4	5	4	4.2	4.3
C Magee	CM6	Owner							Summary screen is not reflecting the values that I typed in originally. E.g., I put in a 16'-0" ceiling height and it shows 8'-0".	Functionality	69	2	5	4.4	3	4	5	4	4.2	4.3
J Yorgey	JY30	Manufacturer	Functionality					Office design vinettes -open plan spaces	No way to go back to edit the space and the information lists "0" as SqFt should be 2000	Functionality	69	2	5	4.4	3	4	5	4	4.2	4.3
J Yorgey	JY17.1	Manufacturer	Functionality					Space type summary conf room	did not list # rooms	Functionality	69	2	5	4.4	3	4	5	4	4.2	4.3
J Yorgey	JY33	Manufacturer	Functionality					Office design vinettes -Edit open	on Details page which Open Plan space is this	Functionality	70	2	5	4.4	3	4	5	4	4.2	4.3
J Yorgey	JY18	Manufacturer	Functionality					space type summary perimeter office	Pull down of "what open plan associated with" does not work length of walls does not show in summary	Functionality	70	2	5	4.4	3	4	5	4	4.2	4.3
J Yorgey	JY32	Manufacturer	Functionality					Office design vinettes -Edit open plan perimenter spaces	got stuck at select appropriate design vignettee for this space. Retrieving vignettes	Functionality	71	2	5	4.4	3	4	5	4	4.2	4.3

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J Yorgey	JY34	Manufacturer	Functionality					Office design vinettes -add reception spaces	retrieving vignettes … never happened	Functionality	71	2	5	4.4	3	4	5	4	4.2	4.3
C DiLouie	CD6	Core Team	Functionality						https problem still there: When I go to the website, my browser tells me it's not safe.	Functionality	59	3	5	4.6	4	4	5	4.3	4.5	4.6
J Yorgey	JY1	Manufacturer	Functionality	Office				Website	I get a security certificate error when going to the website. It may be our filters at Lutron but It's a very unusual occurrence with any other website.	Functionality	59	3	5	4.6	4	4	5	4.3	4.5	4.6
L Davis	LD1	Designer							Is there a way to add a security clearance so that Firefox doesn't show the site as untrusted?	Functionality	59	3	5	4.6	4	4	5	4.3	4.5	4.6
C DiLouie	CD31	Core Team	Functionality						Text is routinely cut off mid paragraph/mid sentence, made bullets instead of sentences or sentences instead of bullets, and spaced unevenly line by line; the text should be revised line by line and cleaned up.	Functionality	19	5	5	5	4	5	5	4.7	4.9	5.0
C DiLouie	CD22	Core Team	Functionality						In a few pages I looked at, various control implementation instructions were cut off mid sentence, bullets appear to be chopped off for some reason, meaning information is missing	Functionality	19	5	5	5	4	5	5	4.7	4.9	5.0
K Abernathy	KA1	Designer	General	Pharmacy				Luminaires Parallel to Wall with Skylights Pharmacy under strategy tab	last sentence - ends with ceil, I think it needs to be ceiling	Functionality	19	5	5	5	4	5	5	4.7	4.9	5.0
K Abernathy	KA6	Designer	General	Pharmacy				Luminaires Parallel to Wall Pharmacy - under strategy tab	last sentence - ends with tubu, I think this sentence is getting cut short.	Functionality	19	5	5	5	4	5	5	4.7	4.9	5.0
M Myer	MM654	Internal	Content	Controls Strategies: Vacancy Sensors, Daylight Harvesting				Strategy	**MISSING/INCOMPLETE TEXT:** "switching, ensure accurate detection and avoid false triggering. As partition heights increase, more overlap an"	Functionality	19	5	5	5	4	5	5	4.7	4.9	5.0
N Miller	NM14	Internal							the last sentence under the strategy tab is falling short.	Functionality	19	5	5	5	4	5	5	4.7	4.9	5.0

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N Miller	NM25	Internal							When I clicked got to the details, after signing in again, there is an extra bullet in the first paragraph of Concept-approach, and some missing text in the last paragraph of Strategy-Dayltg.	Functionality	19	5	5	5	4	5	5	4.7	4.9	5.0
M Myer	MM647	Internal	Content	Controls Strategies: Vacancy Sensors, Daylight Harvesting				Section Diagram	Your light switch is too low. It should be above the door handle not at the same height.	Images	13	1	3	2.6	1	3	5	3	2.8	2.7
N Miller	NM8	Internal	Appearance/ Aesthetics	Pharmacy Des Vignettes				Vignettes for Perimeter	Thumbnails of perspectives too small to distinguish between the two options.	Images	13	1	3	2.6	3	3	3	3	2.8	2.7
HMcKay	HM39		Content						Control Template 2 for vignette 1 – Photosensor location is questionable. Should be on ceiling looking toward window.	Images	13	2	2	2	4	4	5	4.3	2.9	2.3
M Myer	MM645	Internal	Content	Controls Strategies: Vacancy Sensors, Daylight Harvesting				Section Diagram	Your photosensor is placed there? I think that would cause some issues.	Images	13	2	2	2	4	4	5	4.3	2.9	2.3
HMcKay	HM40	Designer	Content						Differences in plan and perspective are noticeable. Perspective has glass doors and solid wall on the right, but plan has no door and glass walls. Plan has alcove between two cabinets, and continuous line of light within alcove, but perspective shows a door and plant and the light fixture floating in the ceiling. Plan shows center row of lights centered over receptionist and logo, perspective does not.	Images	13	1	3	2.6	3	4	4	3.7	3.0	2.8

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M Myer	MM20	Internal	Appearance/ Aesthetics	Suspended Direct/Indirect Luminaires, Linear Wall-washers, and a Whiteboard Light	Conference room			Perspective	The "bump-outs" in the wall are missing in the perspective that are shown in the overhead.	Images	13	1	3	2.6	3	4	4	3.7	3.0	2.8
N Miller	NM22	Internal							Sketch doesn't illustrate column location, and the window shown in the sketch is not shown in the overhead plan.	Images	13	1	3	2.6	3	4	4	3.7	3.0	2.8
A Cortese	AC13	Architect	Content						On many vignettes, “articulated desktop luminaires” are mentioned by not shown in the diagram or plan.	Images	13	3	4	3.8	4	4	5	4.3	4.0	3.9
HMcKay	HM26	Designer	Content						Non-planar vignette details: No luminaire sidebar info. Perspective of luminaire makes it look like a planar lens.	Images	13	3	4	3.8	4	4	5	4.3	4.0	3.9
HMcKay	HM44	Designer	Content						V2 – Dropped decorative diffuser. Perspective looks like ordinary downlights –dropped dish is not apparent. No control strategy?	Images	13	3	4	3.8	4	4	5	4.3	4.0	3.9
HMcKay	HM32	Designer	Content						V3 - Perspective wrong – shows six 2x4s parallel to conf table.	Images	13	3	4	3.8	4	4	5	4.3	4.0	3.9

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M Myer	MM306	Internal	Content	Recessed Non-Planar Lensed Lumianire with High BF Ballasts (Office)	9'	PO		Approach/Concept	"The selected luminaires distribute" - how many luminaires are there? In the bullet above it is singular. In the overhead it is singular. In the perspective, there are multiple luminaires	Images	13	3	4	3.8	4	4	5	4.3	4.0	3.9
M Myer	MM367	Internal	Content	Recessed Non-Planar Lensed Lumianire with low BF Ballasts (Office)	9'	PO		Approach/Concept	Shouldn't the articulated luminaire be in the perspective diagram?	Images	13	3	4	3.8	4	4	5	4.3	4.0	3.9
M Myer	MM200	Internal	Appearance/ Aesthetics	Add Corridors Space/5' wide			corridors	Graphics	The corridor images look the same. I see luminaires running down the center of the hallway	Images	13	3	4	3.8	4	4	5	4.3	4.0	3.9
M Myer	MM604	Internal	Appearance/ Aesthetics	Perimeter Recessed Linear Fluorescent				Perspective Diagram	The fixtures are cuttirng right through ceiling tile support structure. Can this image be redwarn?	Images	13	3	4	3.8	4	4	5	4.3	4.0	3.9
M Myer	MM581	Internal	Content	Perimter Recessed CFLs				Perspective Diagram	The fixtures do not look round or the right size	Images	13	3	4	3.8	4	4	5	4.3	4.0	3.9
M Myer	MM203	Internal	Appearance/ Aesthetics	Recessed 1'x4' Non-planar lensed luminaires			corridors	Perspective	The perspectives are the same for the non-planar and the asymmetric vignettes, yet the overhead plans are slightly different because the luminaires shift about the center of the hallway.	Images	13	3	4	3.8	4	4	5	4.3	4.0	3.9

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M Myer	MM328	Internal	Content	Suspended Direct/Indirect Luminaires with low BF ballasts	9'	PO		Graphics	There are three luminaires in the perspective diagram and only two in the overhead plan	Images	13	3	4	3.8	4	4	5	4.3	4.0	3.9
M Myer	MM456	Internal	Appearance/ Aesthetics	Recessed Non-Planar on wider centers	9.6/5000	40/48		Overhead plan	This image looks the same as the other recessed non-planar image. Are you sure that the spacing is different?	Images	13	3	4	3.8	4	4	5	4.3	4.0	3.9
M Myer	MM558	Internal	Content	Suspended 8' multi-lamp (0.69 W/sf)	10/5000	50/48		Approach/Concept	This statement does not seem to jive with the graphics "The lighting system has an orderly appearance but spacing may vary. Luminaires are spaced more closely over work areas."	Images	13	3	4	3.8	4	4	5	4.3	4.0	3.9
M Myer	MM113	Internal	Content	Recessed Slot Luminaires Parallel to Desk with Contiunous Linear Wall-washers (office)				Luminaires C	Is the distribution icon for this luminaire correct?	Images	13	3	4	3.8	4	4	5	4.3	4.0	3.9
N Miller	NM23	Internal							The fixtures are asymmetrical, but the sketched perspective shows both walls equally lighted.	Images	13	3	4	3.8	4	4	5	4.3	4.0	3.9
M Myer	MM83	Internal	Content	Recessed Slot Lumianirs parallel to desk with compact fluorescent wall-washers (office)				Strategy/luminaires	This says "C" here yet the box to the right does not show luminaire type C. I would also show luminaire type C in the perspective and possibly in the vignette	Images	23	2	5	4.4	4	4	4	4	4.2	4.3
N Miller	NM24	Internal							What are the six white dots in the overhead plan?	Images	13	2	5	4.4	4	4	5	4.3	4.4	4.4

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A Cortese	AC14	Architect	Content						Recessed non planar on wider centers shows the exact same lighting layout as the regular Recessed non planar lighting scenario. I'm assuming thought that they should have different plans since one means fewer fixtures (and lower LPD). This is where the visuals might make a difference.	Images	13	3	5	4.6	4	4	5	4.3	4.5	4.6
C DiLouie	CD29	Core Team	Content						Check all control guidance drawings to ensure you are using the latest drawings. I noticed on some of the drawings that the legend is outdated. The legend for each drawing should look like the legend for the private office drawing (dimming and vacancy sensing option), but without the numbers on the left.	Images	13	3	5	4.6	4	4	5	4.3	4.5	4.6
C DiLouie	CD28	Core Team	Content						The text on the control guidance figures should be larger, more legible. Colored lines should be stronger. Switch, etc. symbols larger.	Images	13	3	5	4.6	4	4	5	4.3	4.5	4.6
C DiLouie	CD36	Core Team	Content						Some control guidance drawings are also worrisome, particularly where we are showing multiple sensor locations. The solution I had proposed was to show a small inset and show multiple locations for say a vacancy sensor in a conference room—one over the door, one in the middle of the room, etc. Same with photosensors, one by the window, one over the task area. Instead, the inset is not used, and it looks like there are three vacancy sensors and two photosensors in the meeting rooms. Plus the photosensor should not be a $ symbol but instead an asterisk. Please review all the control guidance drawings and ensure they correctly match the last drawings submitted.	Images	13	3	5	4.6	4	4	5	4.3	4.5	4.6

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C DiLouie	CD34	Core Team	Content						The cross section drawings are a bit worrisome. I noticed a few cases where "occupancy sensor" was used instead of "vacancy sensor," which should be fixed for consistency. As another example, in the private office drawing, it should be photosensor, not photosensors, the manual dimming allows user to select light levels, and there is one vacancy sensor, not plural, and it switches both control zones off when the space is unoccupied, not each… If you would like to send me all the cross section drawings in a separate email, I would be happy to review them.	Images	13	3	5	4.6	4	4	5	4.3	4.5	4.6
D Maniccia	DM9	Controls							In plan view the location for the sensor looks like it's behind the door.	Images	13	3	5	4.6	4	4	5	4.3	4.5	4.6
D Maniccia	DM8	Controls						Private Office Controls Template 22: Vacancy Sensing, Multilevel Switching	Plan diagram show 3 dots. Perhaps instead you could show A, B, and C, to indicate that it's the same thing in 3 possible locations?	Images	13	3	5	4.6	4	4	5	4.3	4.5	4.6
HMcKay	HM35	Designer	Content						Colored zones should be modified. Green zone should move left and extend to screen wall. There should be an additional pink zone adjacent to the right wall.	Images	13	3	5	4.6	4	4	5	4.3	4.5	4.6
HMcKay	HM21	Designer	Content						Graphic outlines are too thin to clearly read the color.	Images	13	3	5	4.6	4	4	5	4.3	4.5	4.6
HMcKay	HM41	Designer	Content						Plan view: corridor outside of elevator lobby should not be dead-end. Remove wall on the right to give impression of continuous corridor (and proper egress).	Images	13	3	5	4.6	4	4	5	4.3	4.5	4.6
HMcKay	HM30	Designer	Content						V1 – Described as Linear WW, but wrong plan shows CFL. Expanded plan has wrong fixture types.	Images	13	3	5	4.6	4	4	5	4.3	4.5	4.6

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HMcKay	HM27	Designer	Content						V1 – Description is for 12' and 8' fixtures, but plan & perspectives show 8' and 4' fixtures. Type B and C are not called out on plan or perspective.	Images	13	3	5	4.6	4	4	5	4.3	4.5	4.6
HMcKay	HM31	Designer	Content						V2 – Expanded plan – wrong fixture types.	Images	13	3	5	4.6	4	4	5	4.3	4.5	4.6
HMcKay	HM29	Designer	Content						V3 – Type B and C are not called out on plan or perspective.	Images	13	3	5	4.6	4	4	5	4.3	4.5	4.6
HMcKay	HM45	Designer	Content						V3 – WW do not show up in small plan. Fixture types mislabeled in plans and perspective. Type B is wall wash, not downlight.	Images	13	3	5	4.6	4	4	5	4.3	4.5	4.6
HMcKay	HM33	Designer	Content						V4 – Expanded plan does not match small plan, and has wrong fixture types. Description is for 4' fixtures but plans and perspective show longer fixtures.	Images	13	3	5	4.6	4	4	5	4.3	4.5	4.6
HMcKay	HM43	Designer	Content						V1- Linear slot. No small plan, only enlarged plan.	Images	13	3	5	4.6	4	4	5	4.3	4.5	4.6
HMcKay	HM38	Designer	Content						vignette 1 – Section: Shows daylight at the long end of the room. Should each lamp be shown in two colors, to indicate two-level switching?	Images	13	3	5	4.6	4	4	5	4.3	4.5	4.6
HMcKay	HM47	Designer	Content						Reception controls template 1 for Vignette 4. Section also shows fixture on left with down distribution, not wall wash distribution. This could be a separate green zone and turned off after hours. Plan should be same as for Vignettes 1 and 3.	Images	13	3	5	4.6	4	4	5	4.3	4.5	4.6
J Beutell	JB5	Owner						Suspended 8' Multi-Lamp Direct/Indirect Luminaires (Office)	Labels aren't matching the list.	Images	13	3	5	4.6	4	4	5	4.3	4.5	4.6
J Yorgey	JY31	Manufacturer	Appearance/ Aesthetics					Office design vinettes -open plan perimeter spaces	Not clear on drawing that shows space type Open plan perimeter shows both interior wall and window wall - this is confusing - should just do interior wall and leave daylighting in "open Plan"	Images	13	3	5	4.6	4	4	5	4.3	4.5	4.6

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L Davis	LD7	Designer						open plan, suspended 12" single lamp d/l luminaires	there are more luminaire types in the list than show up on the graphics. It appears that the technical information is right, but the graphics are missing labels.	Images	13	3	5	4.6	4	4	5	4.3	4.5	4.6
M Myer	MM492	Internal	Content	Recessed Non-Planar (LPD 0.64 W/sf)	8/5000	30/48		LPD	Why is the LPD here 0.64 for 5,000 sq ft with 48" paritions and 30 work stations and for another design it is 0.56 for 5,000 sq ft with 48" paritions and 40 work stations. The overhead plans for this LPD and another LPD appears to be the same plan.	Images	13	3	5	4.6	4	4	5	4.3	4.5	4.6
M Myer	MM270	Internal	Appearance/ Aesthetics	Recessed 4' Asymmetric wall-wash luminaires			corridors	Overhead diagram	In the overhead diagram, which way is the light being directed? Is the "A" fixture lighting the open air? Are the fixtures meant to be 3' away from the wall that has the chairs for the conference room in it?	Images	13	3	5	4.6	4	4	5	4.3	4.5	4.6
M Myer	MM415	Internal	Appearance/ Aesthetics	Suspended 12' single-lamp	9.6/5000	40/48		Images	Luminaire box shows both "A" and "B" an 8' and 4' luminaire respectively. Neither of the graphics call out luminaire types A or B	Images	13	3	5	4.6	4	4	5	4.3	4.5	4.6
M Myer	MM540	Internal	Content	Suspended 8' multi-lamp (0.69 W/sf)	10/5000	50/48		Overhead plan	Luminaires box calls out both "A" and "B" luminaires, but the overhead plan does not show Luminaire B	Images	13	3	5	4.6	4	4	5	4.3	4.5	4.6
M Myer	MM355	Internal	Appearance/ Aesthetics	Recessed Non-Planar Lensed Lumianire with low BF Ballasts (Office)	9'	PO		Perspective Diagram and Overhead Plan	Perspective shows two luminaires and the overhead plan shows 1 luminaire	Images	13	3	5	4.6	4	4	5	4.3	4.5	4.6
M Myer	MM14	Internal	Content	Recessed Non-Planar Lensed Luminaires with low Ballast Factor and Recessed Compact Fluorescent Lensed Wall-washers (Office)	Conference room			Strategy/Luminaire B	The "B" luminaire text does not match either of the graphics for Overhead or Perspective plans	Images	13	3	5	4.6	4	4	5	4.3	4.5	4.6
M Myer	MM605	Internal	Appearance/ Aesthetics	Perimeter Recessed Linear Fluorescent				Overhead plan	The diagram calls out fixture B. The luminaire box says luminaire "A"	Images	13	3	5	4.6	4	4	5	4.3	4.5	4.6
M Myer	MM578	Internal	Content	Perimter Recessed CFLs				Overhead plan	The fixtures really do not stand out. Anything that we can do?	Images	13	3	5	4.6	4	4	5	4.3	4.5	4.6

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M Myer	MM3	Internal	Appearance/ Aesthetics	Recessed Non-Planar Lensed Luminaires with low Ballast Factor and Recessed Compact Fluorescent Lensed Wall-washers (Office)	Conference room			Overhead	The overhead shows end-to-end fixtures and might be suspended fixtures. The perspective in contrast shows recessed 2x4s separated by at least 4' of ceiling tile.	Images	13	3	5	4.6	4	4	5	4.3	4.5	4.6
M Myer	MM21	Internal	Appearance/ Aesthetics	Suspended Direct/Indirect Luminaires, Linear Wall-washers, and a Whiteboard Light	Conference room			Overhead	The overhead shows recessed fixtures and the perspective shows suspended fixtures.	Images	13	3	5	4.6	4	4	5	4.3	4.5	4.6
M Myer	MM22	Internal	Appearance/ Aesthetics	Suspended Direct/Indirect Luminaires, Linear Wall-washers, and a Whiteboard Light	Conference room			Overhead	Where is the whiteboard light fixture?	Images	13	3	5	4.6	4	4	5	4.3	4.5	4.6
M Myer	MM159	Internal	Appearance/ Aesthetics	Recessed slot luminaires Perpendicular to Desk with Compact Fluorescent Downlights and Wall-washers (Office)				Overhead Diagram	Your overhead and perspective diagrams are wrong. The luminaire box says "A" is the linear slot that is correct. "B" is the CFL wall washer, the graphic shows this as the DL. "C" is the continous wall slot and the grapic shows C as the CFL wall washer. "D" is the CFL downlight and the graphic shows it as the slot.	Images	13	3	5	4.6	4	4	5	4.3	4.5	4.6
M Myer	MM637	Internal	Content	Controls Strategies: Scheduling, Daylight Harvesting				Section Diagram	Add text about lighting be turned off via time clock. We need to reinforce the term "scheduling". That is the title of the control vignette. Also, we should probably say that it automatically turns off the lights when the office closes.	Images	13	3	5	4.6	4	4	5	4.3	4.5	4.6
N Miller	NM14	Internal	Content	Office-conf rm				Susp dir/ind lum's and rec cfl lensed WW's	Perspective sketch doesn't show round CFL wallwashers, and neither does overhead plan.	Images	13	3	5	4.6	4	4	5	4.3	4.5	4.6
A Cortese	AC17	Architect	Download Materials						The Vignette Summaries and Implementation Instructions report never worked.	Images	13	4	5	4.8	4	4	5	4.3	4.6	4.7

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A Cortese	AC5	Architect	Appearance/ Aesthetics						The graphic perspective and plan diagrams are critical for those of us who would rather look at pictures than read. However on some vignettes (specifically covering controls), the plan and sections are unreadable because you can't blow them up big enough. Being able to print them might be helpful. You also might consider increasing the visual appeal of the tool by adding photographs of actual installations.	Images	13	4	5	4.8	4	4	5	4.3	4.6	4.7
C DiLouie	CD15	Core Team	Content						On all control drawings, change "flourescent" to "fluorescent"	Images	13	4	5	4.8	4	4	5	4.3	4.6	4.7
C DiLouie	CD35	Core Team	Content						On all drawings, make sure "fluorescent" is spelled "fluorescent" and not "flourescent."	Images	13	4	5	4.8	4	4	5	4.3	4.6	4.7
C Magee	CM5	Owner							Font is too small on controls plan view.	Images	13	4	5	4.8	4	4	5	4.3	4.6	4.7
D Maniccia	DM7	Controls							Font is too small on controls diagrams (plan view).	Images	13	4	5	4.8	4	4	5	4.3	4.6	4.7
HMcKay	HM34	Designer	Content						Can't read key, even when expanded.	Images	13	4	5	4.8	4	4	5	4.3	4.6	4.7
HMcKay	HM18	Designer	Content						Cannot read text for control diagrams, even enlarged.	Images	13	4	5	4.8	4	4	5	4.3	4.6	4.7
L Davis	LD12	Designer							The text is too small on the controls diagram.	Images	13	4	5	4.8	4	4	5	4.3	4.6	4.7
M Dare	MD10	Utility							Lettering is too small on the controls plan view. Would also be nicer if the font was bigger on the section view as well.	Images	13	4	5	4.8	4	4	5	4.3	4.6	4.7
M Myer	MM644	Internal	Content	Controls Strategies: Vacancy Sensors, Daylight Harvesting				Plan Diagram	Text in legend cannot be read	Images	13	4	5	4.8	4	4	5	4.3	4.6	4.7
N Ferzacca	NF11	Engineer						Controls details.	The enlarged view is not readable.	Images	13	4	5	4.8	4	4	5	4.3	4.6	4.7

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M Myer	MM532	Internal	Content	Recessed Non-Planar (LPD 0.64 W/sf)	8/5000	30/48		Approach/Luminaires B	The text is describing Luminaire Type B as a task light, yet the box to the right is calling it an undercab.	Luminaires	4	1	4	3.4	4	4	4	4	3.6	3.5
M Myer	MM519	Internal	Content	Recessed Non-Planar (LPD 0.64 W/sf)	8/5000	30/48		Luminaires C	The LED undercabinet fixture should produce more lumens than the articulated desktop luminaire.	Luminaires	4	1	4	3.4	4	4	4	4	3.6	3.5
J Yorgey	JY38	Manufacturer	General					Overall	Dimming ballasts not listed on fixture schedule	Luminaires	22	3	5	4.6	3	3	3	3	4.0	4.4
J Yorgey	JY26	Manufacturer						Fixture schedule	Shows instart ballast type even though dimming was selected	Luminaires	22	3	5	4.6	3	3	3	3	4.0	4.4
A Cortese	AC11	Architect	Content						I also noticed that some of the language is incomplete, (i.e. in the Suspended Direct Indirect Lensed Luminarie with high BF, the number of lamps is missing)	Luminaires	4	2	4	3.6	5	4	5	4.6	4.0	3.8
HMcKay	HM42	Designer	Content						All reception vignettes: Type A not described in side bar of any vignettes. Task light described in strategy but not shown on plan or sidebar.	Luminaires	4	2	4	3.6	5	4	5	4.6	4.0	3.8
HMcKay	HM28	Designer	Content						V2 – Side bar calls for Type B undercabinet lights even though partitions are low.	Luminaires	4	2	4	3.6	5	4	5	4.6	4.0	3.8
HMcKay	HM5	Designer	Content						Luminaire side-bars. Need “fixture schedule type”	Luminaires	4	2	4	3.6	5	4	5	4.6	4.0	3.8
M Myer	MM593	Internal	Content	Perimter Recessed CFLs				Luminaires	For the MLPW calculation, we started off with a lamp that was 1800 lumens?	Luminaires	4	2	4	3.6	5	4	5	4.6	4.0	3.8
M Myer	MM518	Internal	Content	Recessed Non-Planar (LPD 0.64 W/sf)	8/5000	30/48		Luminaires C	How is MLPW calculated for the LEDs? What value are you using for mean lumens? By my math 36.0 MLPW * 9.2 W = 324 mean lumens. It looks like this product is only producing 324 lumens. I think that we need some dimensions for the luminaire	Luminaires	4	2	4	3.6	5	4	5	4.6	4.0	3.8

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M Myer	MM463	Internal	Appearance/ Aesthetics	Recessed Non-Planar on wider centers	9.6/5000	40/48		Luminaires A	The calculation for MLPW looks high. Here is my math: 2*3100*0.88*0.95/55 = 94 MLPW	Luminaires	4	2	4	3.6	5	4	5	4.6	4.0	3.8
M Myer	MM337	Internal	Content	Suspended Direct/Indirect Luminaires with low BF ballasts	9'	PO		Luminaires	The MLPW value is wrong. I think that it should be 3100*2*.95 (LLD) * 0.78 /48 = 102 MLPW. I do not know how you calculated the 122 MLPW	Luminaires	4	2	4	3.6	5	4	5	4.6	4.0	3.8
N Miller	NM18	Internal							Check significant digits on MLPW for luminaires.	Luminaires	4	2	4	3.6	5	4	5	4.6	4.0	3.8
N Miller	NM9	Internal	General	Pharmacy Des Vignettes				Vignettes for Perimeter - details of skylt + perimeter ltg	Is the lighting plan supposed to be cut off on the edges? It looks kinda funny. Would it be better to illustrate the skylights illuminating a merchandising wall instead of a window wall? It would make the skylights look more important. Luminaires - Should the 1x4 wallwashers have an asymmetrical reflector rather than symmetrical? If so, wouldn't the efficiency be less that 90%? Maybe I'm misinterpreting the "angled" reflfector luminaire description.	Luminaires	4	2	4	3.6	5	4	5	4.6	4.0	3.8
J Beutell	JB3	Owner							limit your decimal points.	Luminaires	23	2	5	4.4	4	4	4	4	4.2	4.3
M Myer	MM72	Internal	Content	Recessed Slot Lumianirs parallel to desk with compact fluorescent wall-washers (office)				Luminaire B	28 watts for a 26W CFL seems low, I would go with 29. I also would remove the decimal for all power values	Luminaires	23	2	5	4.4	4	4	4	4	4.2	4.3
M Myer	MM142	Internal	Content	Recessed Compact Fluorescent Downlights with Dropped Decorative Diffuser and Perimeter Wall-Slot (office)				Luminaires/B	Add a significant digit for luminaire efficiency	Luminaires	23	2	5	4.4	4	4	4	4	4.2	4.3

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M Myer	MM172	Internal	Content	Recessed slot luminaires Perpendicular to Desk with Compact Fluorescent Downlights and Wall-washers (Office)				Luminaires/B	Express luminaire efficiency as two digits	Luminaires	23	2	5	4.4	4	4	4	4	4.2	4.3
M Myer	MM62	Internal	Content	Recessed Slot Lumianirs parallel to desk with compact fluorescent wall-washers (office)				Luminaire A	I have never seen CRI presented as a significant digit. I would remove the decimal.	Luminaires	23	2	5	4.4	4	4	4	4	4.2	4.3
M Myer	MM187	Internal	Content	Recessed slot luminaires Perpendicular to Desk with Compact Fluorescent Downlights and Wall-washers (Office)				Luminaires/D	Input power should be written as a whole number	Luminaires	23	2	5	4.4	4	4	4	4	4.2	4.3
M Myer	MM183	Internal	Content	Recessed slot luminaires Perpendicular to Desk with Compact Fluorescent Downlights and Wall-washers (Office)				Luminaires/D	MLPW should be expressed as a whole number	Luminaires	23	2	5	4.4	4	4	4	4	4.2	4.3
M Myer	MM612	Internal	Content	Perimeter Recessed Linear Fluorescent				Luminaires	Please make CRI a whole number	Luminaires	23	2	5	4.4	4	4	4	4	4.2	4.3
M Myer	MM613	Internal	Content	Perimeter Recessed Linear Fluorescent				Luminaires	Please make input power a whole number	Luminaires	23	2	5	4.4	4	4	4	4	4.2	4.3
M Myer	MM614	Internal	Content	Perimeter Recessed Linear Fluorescent				Luminaires	Please make MLPW a whole number	Luminaires	23	2	5	4.4	4	4	4	4	4.2	4.3
M Myer	MM431	Internal	Content	Suspended 12' single-lamp	9.6/5000	40/48		Luminaires B	Please make the input power a whole number	Luminaires	23	2	5	4.4	4	4	4	4	4.2	4.3

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N Ferzacca	NF7	Engineer							Round your decimal points.	Luminaires	23	2	5	4.4	4	4	4	4	4.2	4.3
N Miller	NM11	Internal							Check # of significant digits in MLPW under Luminaires	Luminaires	23	2	5	4.4	4	4	4	4	4.2	4.3
M Myer	MM277	Internal	Content	Recessed 4' Asymmetric wall-wash luminaires			corridors	Luminaires	What an instant-start ballast. I think that you would want a PRS ballast	Luminaires	4	1	5	4.2	4	5	4	4.4	4.3	4.2
M Myer	MM139	Internal	Content	Recessed Compact Fluorescent Downlights with Dropped Decorative Diffuser and Perimeter Wall-Slot (office)				Luminaires/A	I believe that PRS is the standard for CFLs not IS	Luminaires	4	1	5	4.2	4	5	4	4.4	4.3	4.2
M Myer	MM588	Internal	Content	Perimter Recessed CFLs				Luminaires	I believe the default CFL ballast is PRS not Instant start	Luminaires	4	1	5	4.2	4	5	4	4.4	4.3	4.2
M Myer	MM587	Internal	Content	Perimter Recessed CFLs				Luminaires	I do not believe NEMA premium ballasts exist for CFLs	Luminaires	4	1	5	4.2	4	5	4	4.4	4.3	4.2
M Myer	MM71	Internal	Content	Recessed Slot Lumianirs parallel to desk with compact fluorescent wall-washers (office)				Luminaire B	Isn't PRS the default CFL ballast type and instant-start is the outlier?	Luminaires	4	1	5	4.2	4	5	4	4.4	4.3	4.2
M Myer	MM106	Internal	Content	Recessed Slot Luminaires Parallel to Desk with Contiunous Linear Wall-washers (office)				Luminaires C	Why is the luminaire efficiency so low for this luminaire type? Also, let's use 2 significant digits here like we have everywhere else.	Luminaires	4	1	5	4.2	4	5	4	4.4	4.3	4.2
M Myer	MM330	Internal	Content	Suspended Direct/Indirect Luminaires with low BF ballasts	9'	PO		Luminaires	"Two-lamp profile" - needs the word "in" and probably "T8"	Luminaires	4	1	5	4.2	4	5	4	4.4	4.3	4.2

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M Myer	MM170	Internal	Content	Recessed slot luminaires Perpendicular to Desk with Compact Fluorescent Downlights and Wall-washers (Office)				Luminaires/B	CFLs typically use PRS ballasts and not instant start ballasts	Luminaires	4	1	5	4.2	4	5	4	4.4	4.3	4.2
M Myer	MM459	Internal	Appearance/ Aesthetics	Recessed Non-Planar on wider centers	9.6/5000	40/48		Luminaires A	I assume that this is a 2-lamp fixture, but it is not obvious	Luminaires	4	1	5	4.2	4	5	4	4.4	4.3	4.2
M Myer	MM67	Internal	Content	Recessed Slot Lumianirs parallel to desk with compact fluorescent wall-washers (office)				Luminaire B	I would put recessed first, e.g. "Recessed round 6" aperture lensed-CFL wall washer"	Luminaires	4	1	5	4.2	4	5	4	4.4	4.3	4.2
M Myer	MM426	Internal	Content	Suspended 12' single-lamp	9.6/5000	40/48		Luminaires B	I would put T8 after One-lamp and I would add "In" before profile	Luminaires	4	1	5	4.2	4	5	4	4.4	4.3	4.2
M Myer	MM160	Internal	Content	Recessed slot luminaires Perpendicular to Desk with Compact Fluorescent Downlights and Wall-washers (Office)				Luminaires/A	Move T8 after one-lamp	Luminaires	17	1	5	4.2	4	5	4	4.4	4.3	4.2
M Myer	MM60	Internal	Content	Recessed Slot Lumianirs parallel to desk with compact fluorescent wall-washers (office)				Luminaire A	Recommend moving the T8 after the "one lamp". Why is "One" capitalized?	Luminaires	17	1	5	4.2	4	5	4	4.4	4.3	4.2
M Myer	MM513	Internal	Content	Recessed Non-Planar (LPD 0.64 W/sf)	8/5000	30/48		Luminaires C	Shouldn't warm-white be hyphenated?	Luminaires	17	1	5	4.2	4	5	4	4.4	4.3	4.2

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M Myer	MM608	Internal	Content	Perimeter Recessed Linear Fluorescent				Luminaires	The title of the vignette hyphenates wall washing which I do not believe is correct. The words really only need to be hyphenated when it is a compound adjective (e.g., if one word in the adjective cannot stand alone). Here we says "wall wash luminaire" - this would be a case where hyphenating would make more sense	Luminaires	17	1	5	4.2	4	5	4	4.4	4.3	4.2
M Myer	MM418	Internal	Content	Suspended 12' single-lamp	9.6/5000	40/48		Luminaires A	Luminaire A is "pendant-mounted" and luminaire B is "Suspended" - can they be both the same wording?	Luminaires	3	2	5	4.4	4	5	4	4.4	4.4	4.4
M Myer	MM86	Internal	Content	Recessed Slot Lumianirs parallel to desk with compact fluorescent wall-washers (office)				Strategy/luminaires	Luminaire C - I think that the i.e. of articulated is a bit much, the clarification should stop after "supplment the ambient lighting". I would then modify the text about the blind old person wanting more light	Luminaires	3	2	5	4.4	4	5	4	4.4	4.4	4.4
HMcKay	HM10	Designer	Content						Luminaire Sidebars: Some missing data altogether. All are missing the # of lamps. Efficiency represented as decimal rather than percentage. MLPW is a spreadsheet formula, not a value.	Luminaires	4	2	5	4.4	4	5	4	4.4	4.4	4.4
HMcKay	HM46	Designer	Content						V4 – Sidebar data missing for A and B	Luminaires	4	2	5	4.4	4	5	4	4.4	4.4	4.4
M Myer	MM625	Internal	Content	Perimeter Recessed Linear Fluorescent				Strategy/Luminaires	"Perforated shield" - what is the shield? What fixture is this describing?	Luminaires	4	2	5	4.4	4	5	4	4.4	4.4	4.4
M Myer	MM174	Internal	Content	Recessed slot luminaires Perpendicular to Desk with Compact Fluorescent Downlights and Wall-washers (Office)				Luminaires/C	# of lamps in cross section is missing.	Luminaires	4	2	5	4.4	4	5	4	4.4	4.4	4.4

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M Myer	MM494	Internal	Content	Recessed Non-Planar (LPD 0.64 W/sf)	8/5000	30/48		Luminaires A	I would revise the text to say "Recessed 2'x4'" Non-Planar lensed luminaire.	Luminaires	4	2	5	4.4	4	5	4	4.4	4.4	4.4
M Myer	MM272	Internal	Content	Recessed 4' Asymmetric wall-wash luminaires			corridors	Luminaires	If wall-wash luminaire is hyphenated in the title, we should do it in this box as well.	Luminaires	17	2	5	4.4	4	5	4	4.4	4.4	4.4
M Myer	MM64	Internal	Content	Recessed Slot Lumianirs parallel to desk with compact fluorescent wall-washers (office)				Luminaire A	Instant-start should be hyphentated	Luminaires	17	2	5	4.4	4	5	4	4.4	4.4	4.4
A Cortese	AC9	Architect	General						The details on the various vignettes are excellent. However, I wonder if this is the right word. I just don't see your typical electrical contractor using 'vignette'. Maybe 'scenario'? OR 'strategy'?	Opinion	TBD	1	2	1.8	1	2	2	1.7	1.8	1.8
E Smith	ES4	Owner							WRT the tenant, everything is negotiable-- what will it take to keep the tenant? To compete?	Opinion	LT	2	5	2.8	2	2	3	2.3	2.6	2.7
R Parish	RP5	Owner							Front end interface looks great, easy to use, good graphics. Now we need a way to get it used by the customer.	Opinion	LT	2	5	4.4	2	2	3	2.3	3.6	4.1
R Parish	RP2	Owner							Would help to train CBRE staff to be able to use the tool.	Opinion	LT	2	5	4.4	2	2	3	2.3	3.6	4.1
J Manierre	JM1	Utility						Jennifer Manierre, NYSERDA	Can we add load profiles?	PDF	LT	1	3	2.6	2	3	3	2.7	2.6	2.6
N Ferzacca	NF19	Engineer							Can we see where the savings is coming from? From the premium equipment? Percentage savings from occupancy sensors? Maybe over time we can learn more from the data. There are problems with giving too much information also, can sometimes only create more questions.	PDF	60	1	3	2.6	4	5	3	4.1	3.2	2.8

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C DiLouie	CD33	Core Team	Content						I found the open plan + open plan perimeter control guidance confusing. The perimeter control plan was presented first, the word null appeared above the control guidance drawing, the system was labeled "12-m," under the Performance Specifications the intro paragraph stopped mid sentence, the text size became smaller without reason, the wrong control guidance drawing was used (with the wrong legend), the subhead "Scheduling" was made a bullet instead of a bullet, and only scheduling was presented, even though there were two options, one scheduling, one vacancy sensing plus one scheduling.	PDF	28	2	4	3.6	3	4	5	4	3.8	3.7
C DiLouie	CD26	Core Team	General						At top of vignette summary for the control part in the vignette document, the control option should be identified. CLS needs to change the impression it gives of lighting controls, which is an add-on to the main event. Controls is the main event. The control method and equipment used is just as important as the choice of lamps, ballasts and fixtures, and where they are placed and what they do. The overall system is a lighting and control system, and should be identified as such throughout.	PDF	28	2	4	3.6	3	4	5	4	3.8	3.7
C DiLouie	CD19		Content						Controls sections are missing in the energy summary document	PDF	24	3	5	4.6	4	5	5	4.7	4.6	4.6

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D Maniccia	DM20	Controls						Energy Summary	The energy summary says retail office, fix the titles. The controls selections are not showing up on the Energy Summary, it's blank.The format for showing controls selections doesn't work, it's designed to be an overall list. If you are going to show which controls are being used in the Energy Summary, it would need to be by space type.	PDF	24	3	5	4.6	4	5	5	4.7	4.6	4.6
J Yorgey	JY23	Manufacturer						Reports	Not all data shows up on energy summary page	PDF	24	3	5	4.6	4	5	5	4.7	4.6	4.6
W Dau	WD7	Designer/IES Chair							Energy Summary controls are not showing up in the download packet.	PDF	24	3	5	4.6	4	5	5	4.7	4.6	4.6
D Maniccia	DM19	Controls						Energy Summary	Specify the kWh per each vignette, not just in summary at bottom.	PDF	25	3	5	4.6	4	5	5	4.7	4.6	4.6
J Beutell	JB6	Owner						Energy Summary.	Provide kWh per vignette along with the total. Shows where you are falling short or using most of your energy.	PDF	25	3	5	4.6	4	5	5	4.7	4.6	4.6
P Lantine	PL3	Utilities						Paul Lentine, Northeast Utilities	show kWh per vignette in the Energy Summary.	PDF	25	3	5	4.6	4	5	5	4.7	4.6	4.6
C DiLouie	CD18	Core Team	Download Materials						Project is identified as “retail office”—should just be identified as “office”	PDF	27	3	5	4.6	4	5	5	4.7	4.6	4.6
J Yorgey	JY20	Manufacturer	Functionality					Energy saving summary	No totals - page 4 blank	PDF	27	3	5	4.6	4	5	5	4.7	4.6	4.6
N Ferzacca	NF17	Engineer							What is the basis for the energy summary? Occupancy hour summary, etc. When this is divorced from the webtool input process, folks wouldn't know the context.	PDF	27	3	5	4.6	4	5	5	4.7	4.6	4.6

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C DiLouie	CD24	Core Team	Download Materials						Open plan perimeter lighting should follow the open plan office for sense	PDF	28	3	5	4.6	4	5	5	4.7	4.6	4.6
C DiLouie	CD23	Core Team	Download Materials						Controls section figure should not say “Control Section Figure” next to it, make larger to fill to margins	PDF	29	3	5	4.6	4	5	5	4.7	4.6	4.6
C DiLouie	CD21	Core Team	Download Materials						In the vignette summary, control sections are rendered poorly and confusing: no subheads, and zonal drawings and implementation instructions at the end, labeled in a way that has no relevance to the user	PDF	29	3	5	4.6	4	5	5	4.7	4.6	4.6
C DiLouie	CD27	Core Team	Download Materials						Next to the cross section drawing, “control section figure” should be deleted, then expand the drawing to fill from margin to margin.	PDF	29	3	5	4.6	4	5	5	4.7	4.6	4.6
C DiLouie	CD25	Core Team	Download Materials						For the luminaire schedule document, call it “project-name_luminaire-schedule.pdf”	PDF	30	3	5	4.6	4	5	5	4.7	4.6	4.6
C DiLouie	CD20	Core Team	Download Materials						In the vignette summary, change document name to “project-name_implementation.pdf”	PDF	30	3	5	4.6	4	5	5	4.7	4.6	4.6
C DiLouie	CD17	Core Team	Functionality						In the energy summary document, the document dl’s as “implementation”—should be named, “project-name_energy-summary.pdf”	PDF	30	3	5	4.6	4	5	5	4.7	4.6	4.6
A Cortese	AC18	Architect	Download Materials						The Luminarie Report margins and layout seemed off. I think the table needs to be reformatted, but I wasn’t sure.	PDF	31	3	5	4.6	4	5	5	4.7	4.6	4.6

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K Cota	KC6	Utility						Kelly Cota, National Grid	Can the lamp field be a drop down menu?	Phase 2	TBD	1	2	1.8	3	4	3	3.4	2.4	2.0
N Ferzacca	NF23	Engineer							The time involved in building an entire building would be extensive. What about collaborating with ComCheck? Provide an ouptut that can be imported into ComCheck.	Phase 2	LT	1	3	2.6	2	2	3	2.3	2.5	2.6
N Ferzacca	NF24	Engineer							Does the amount of money do enough to get you past the hassle factor? Maybe yes, sometimes. Takeoffs can be perfect for junior employees. Larger offices have all levels of employees to be able to do that, smaller offices, not so much.	Phase 2	LT	2	5	2.8	2	2	3	2.3	2.6	2.7
K Cota	KC3	Utility						Kelly Cota, National Grid	LEED credits don't allow for kWh, so we need to also show the LEED savings, percentage of savings in w/SF.	Phase 2	34	1	3	2.6	4	4	4	4	3.2	2.8
P Lantine	PL4	Utilities						Paul Lentine, Northeast Utilities	Can you put in a notes field to flag equipment that isn't high performance?	Phase 2	62	2	4	3.6	3	3	2	2.7	3.2	3.5
D Maniccia	DM18	Controls						Energy Summary	Once again, in the energy summary you need to specify individual room sizes and quantity of rooms.	Phase 2	32	2	4	3.6	4	5	5	4.7	4.0	3.8
J Yorgey	JY15	Manufacturer	Functionality						Private office summary did not have correct # of rooms or space name, also incorrect ceiling ht	Phase 2	32	2	4	3.6	4	5	5	4.7	4.0	3.8

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K Cota	KC4	Utility						Kelly Cota, National Grid	Why is there zero SF for wallwashing? Maybe it should show N/A or linear footage	Phase 2	35	2	5	4.4	3	4	4	3.7	4.1	4.3
J Yorgey	JY3	Manufacturer	Functionality					Project description energy estimate	A explorer message pops up "No controlCombSavings found with pace ID: 28 energy code CEZ_IECC2006"	Phase 2	33	1	5	4.2	4	4	5	4.3	4.2	4.2
HMcKay	HM25	Designer	Ease of Use/Flow						The "Control" tab does not seem to be very informative. It is so basic, it should be the first tab, as an introduction.	Presentation Order	TBD	1	2	1.8	2	3	2	2.4	2.0	1.9
HMcKay	HM22	Designer	Content						Control templates should be presented in order of relative energy savings, and with brief explanation, before going to detail pages.	Presentation Order	TBD	1	3	2.6	3	3	3	3	2.8	2.7
P Lantine	PL2	Utilities						Paul Lentine, Northeast Utilities	do we want to choose the order of presentation of the vignetes? Prioritize by LPD?	Presentation Order	37	2	4	3.6	4	3	4	3.6	3.6	3.6
HMcKay	HM16	Designer	Content						No tab for interior design layouts or strategies. The user should know this is the least efficient layout before proceeding. Information is useless at the report printout stage.	Presentation Order	36	2	4	3.6	4	4	3	3.7	3.6	3.6
C DiLouie	CD16	Core Team	Content						Open office options, daylight and no daylight, have no digital control option, it's not showing up	Presentation Order	5	2	5	4.4	4	3	4	3.6	4.1	4.3
N Miller	NM19	Internal							Do you think it's important to mention the aiming angle of the light so that there is not a serious shadow cast from one shelf onto the merchandise below it?	Retail	39	1	3	2.6	2	3	3	2.7	2.6	2.6

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N Miller	NM1	Internal	Content	Pharmacy					I expected to find more types of areas available, like the Pharmacy area, or the stockroom, or the checkout desk.	Retail	TBD	1	3	2.6	3	2	4	2.9	2.7	2.6
K Abernathy	KA10	Designer	General	Pharmacy					I could not figure out what my ceiling height was did I miss something.	Retail	45	2	4	3.6	2	2	3	2.3	3.1	3.4
N Miller	NM10	Internal	General	Pharmacy Design Vignettes				Perimeter - parallel to walls	I assume the W/sf value is multiplied against the square footage in that perimeter aisle, not the full store. Is there an explanation somewhere on this? And, it's not clear to me that the lighting for the perimeter is also lighting the gondola shelves immediately opposite the outside wall. I think it's important to point that out, or else another linear row of lighting would be needed.	Retail	41	1	4	3.4	4	4	4	4	3.6	3.5
N Miller	NM11	Internal	Content	Pharmacy Des Vignettes				Center aisle Continuous row of luminaires	There's no explanation of why the luminaires are off-center. How does this do for shoppers that are on the other side of the bins, either looking at the unlit end-caps or seeing into the bins?	Retail	41	1	4	3.4	4	4	4	4	3.6	3.5
N Miller	NM4	Internal	Content	Pharm - Genl Merch				Strategy-parallel spacing-dayltg	End of first paragraph has incomplete sentence. So does the end of the Luminaires section.	Retail	41	1	4	3.4	4	4	4	4	3.6	3.5
N Miller	NM5.2	Internal	Content	Pharm - Genl Merch					Occupancy sensors: "During low activity times..." Do you mean after hours? It would be an unusual store that would condone shutting off lights in a section of store before closing hours. It would keep the customers away, and they wouldn't be able to see signage in the area.	Retail	41	1	4	3.4	4	4	4	4	3.6	3.5
N Miller	NM2	Internal	Content	Pharmacy - Gen'l Merch					Horiz illum. Is mentioned, but is it measured at 30", 0", or 3'? How about vertical illuminance on the gondola shelves?	Retail	40	2	4	3.6	4	4	4	4	3.8	3.7

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N Miller	NM9.2	Internal							I would add vertical illuminance on the merchandise shelves to be a high priority, more than the horizontal illuminance.	Retail	40	2	4	3.6	4	4	4	4	3.8	3.7
N Miller	NM12	Internal							I am concerned that the general merchandise aisles use 2lamp T8 fixtures to light the displays, but the perimeter aisle light uses a 1lamp T8 fixture. Maybe I'm getting this wrong.	Retail	39	2	5	4.4	4	4	4	4	4.2	4.3
K Abernathy	KA3	Designer	General	Pharmacy				Luminaires Parallel to Wall with Skylights Pharmacy under Luminaires	I am unable to bring in the photos.	Retail	42	2	5	4.4	5	5	5	5	4.6	4.5
K Abernathy	KA7	Designer	General	Pharmacy				Luminaires Parallel to Wall Pharmacy - under Luminaires	I am unable to bring in the photos.	Retail	42	2	5	4.4	5	5	5	5	4.6	4.5
N Miller	NM15	Internal							the photos will not come in	Retail	42	2	5	4.4	5	5	5	5	4.6	4.5
W Dau	WD2	Designer/IES Chair							Is there a way to select all of the spaces that will apply ahead of time, first, rather than going back and forth?	UI	TBD	1	2	1.8	1	2	2	1.7	1.8	1.8
M Dare	MD2	Utility							As I was building the open plan space, I ended up typing private office info (I think I got distracted by the example of "e.g., Executive Office." Would it let me do go through and do this wrong?	UI	TBD	1	2	1.8	3	2	3	2.6	2.1	1.9
N Miller	NM3	Internal	Functionality	Pharmacy - Gen'l Merch					Couldn't open the photometric distribution icon when I clicked on it.	UI	TBD	1	2	1.8	3	2	3	2.6	2.1	1.9

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M Dare	MD3	Utility							Why is it asking me how many rooms there are in an open plan? Open plan is always 1 room.	UI	TBD	1	2	1.8	3	4	2	3.1	2.3	2.0
J Yorgey	JY13	Manufacturer	Ease of Use/Flow					Space type summary	ceiling ht - use pull down with multiple choice	UI	5	1	2	1.8	4	3	3	3.3	2.4	2.0
J Yorgey	JY22	Manufacturer	Appearance/ Aesthetics					Reports	"download" label should be called "reports"	UI	30	1	2	1.8	4	3	3	3.3	2.4	2.0
D Maniccia	DM15	Controls							Would it make sense to show the percentage of savings from LPD vs. controls by having two colors in the energy savings bar? Or, is that an enhancement for a next version, once there is data to look at?	UI	60	1	3	2.6	2	2	3	2.3	2.5	2.6
HMcKay	HM8	Designer	Content						"Perimeter open-plan" is very confusing. Menu plan makes it look like it has a width in plan. Since user is forced to define open plan first, they might deduct some square footage from the open plan area. Users may also assume it refers to the perimeter windows, or maybe a daylighting zone, or perimeter circulation paths. Why not call it "Open Plan Wall washing".	UI	15	1	3	2.6	4	4	2	3.4	2.9	2.7
M Myer	MM633	Internal	Content	Add Open Plan Space-Controls Options					Recommend changing the heading of this window to say controls	UI	57	1	3	2.6	4	4	4	4	3.2	2.8
M Myer	MM631	Internal	Content	Add Open Plan Space-Daylighting questions					Recommend changing the heading of this window to say daylighting	UI	57	1	3	2.6	4	4	4	4	3.2	2.8

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C DiLouie	CD13	Core Team	Appearance/ Aesthetics						After finishing, I saw a one-line description of what I chose, the lighting I chose was spelled out, but the controls were shown as symbols—why symbols? Plus symbols aren't legible. Suggest spelling out the controls, as they are part of the lighting system	UI	48	1	3	2.6	4	5	3	4.1	3.2	2.8
D Maniccia	DM3	Controls							Instead of having me do the math for the total area, can you put in SF per each of private offices?	UI	61	2	4	3.6	3	3	4	3.3	3.5	3.6
D Maniccia	DM13	Controls							The finish screen that allows me to confirm the info also needs to change so that I can see the size of the office, and the quantity of each of those offices, rather than the oveall square footage (which could so easily be wrong, that's a back of the envelope calculation.)	UI	61	2	4	3.6	3	3	4	3.3	3.5	3.6
J Yorgey	JY12	Manufacturer	Ease of Use/Flow					Space type summary	have ability to but in demensions and have program calculate sq ft	UI	61	2	4	3.6	3	3	4	3.3	3.5	3.6
N Ferzacca	NF18	Engineer							Should we have a warning about going backwards after the downloads have been done (sort of like the messages you see for resending forms)?	UI	61	2	4	3.6	3	3	4	3.3	3.5	3.6
J Yorgey	JY4	Manufacturer	Functionality					Project description energy estimate	Add ability to include weekend hours	UI	49	2	4	3.6	3	4	4	3.7	3.6	3.6

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M Myer	MM52	Internal	Content	Project Description				Operating hours	I think that you can remove the 24 hour button for an office building	UI	49	2	4	3.6	3	4	4	3.7	3.6	3.6
M Myer	MM51	Internal	Functionality	Project Description				Operating hours	Recommend haivng a weekday/weekend feature. Retail changes look great. Why not allow a cleaning time for the operating hours. You might also have a percentage of staff during off-period hours. For example, a 100% of the staff is expected between 8:00 am and 6:00 pm. 50% of the staff is there until 8:00 pm.	UI	49	2	4	3.6	3	4	4	3.7	3.6	3.6
K Cota	KC1	Utility						Kelly Cota, National Grid	what if you don't have your furniture plan layout, can you answer with a "0" or N/A?	UI	50	2	4	3.6	4	4	4	4	3.8	3.7
W Dau	WD3	Designer/IES Chair							I don't know what the size of the window openings are.	UI	50	2	4	3.6	4	4	4	4	3.8	3.7
HMcKay	HM38.2	Designer							Controls tab is missing the icons and explanations.	UI	56	2	4	3.6	4	4	4	4	3.8	3.7

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C DiLouie	CD2	Core Team	Ease of Use/Flow						On the main page, it says "select building type," but the right box asks for operating hours related to stock and restocking, implying office is not included. That threw me off. I suggest not having the operating hours box there or making it generic. I also suggest asking the user what building type and make the choices "retail" and "office," then give those users choosing retail the ability to select a type of retail building.	UI	49	3	4	3.8	4	4	5	4.3	4.0	3.9
HMcKay	HM1	Designer	Ease of Use/Flow						Needs auto-save or regular prompts to save. Easy to lose hours of input and discourage use.	UI	53	3	4	3.8	4	4	5	4.3	4.0	3.9
W Dau	WD9	Designer/IES Chair							When I came back to the project after having logged out, there was no option for opening an existing project - Perhaps I didn't save? the system should ask before letting me exit.	UI	53	3	4	3.8	4	4	5	4.3	4.0	3.9
J Yorgey	JY14	Manufacturer	Functionality						Private office daylight detail questions - not clear if per room or total	UI	46	1	4	3.4	5	5	5	5	4.0	3.6
A Cortese	AC10	Architect	Ease of Use/Flow						Under the Luminaire tab I wonder if the lighting characteristics would read easier if the attributes were a bulleted list as opposed to written in paragraph form.	UI	52	2	4	3.6	5	5	4	4.7	4.0	3.8
D Maniccia	DM10	Controls						Controls tab	The vacancy sensor icon could be improved. (something that's not a light bulb??)	UI	51	3	4	3.8	4	5	4	4.4	4.0	3.9
HMcKay	HM23	Designer	Appearance/ Aesthetics						Icon for multilevel switching is incorrect. It shows three slide dimmers, not three switches. Confusing.	UI	51	3	4	3.8	4	5	4	4.4	4.0	3.9
M Myer	MM55	Internal	Appearance/ Aesthetics	Private Office				Office Design Vignettes	Brief case is graphic effiment. While I am pro-gender equality can we have a gender neutral graphic?	UI	51	3	4	3.8	4	5	4	4.4	4.0	3.9
M Myer	MM53	Internal	Appearance/ Aesthetics	Open Office				Office Design Vignettes	Can we explore a different graphic, I do not think that this is intuitive	UI	51	3	4	3.8	4	5	4	4.4	4.0	3.9

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M Myer	MM54	Internal	Appearance/ Aesthetics	Reception				Office Design Vignettes	I am not a fan of the happy face.	UI	51	3	4	3.8	4	5	4	4.4	4.0	3.9
N Miller	NM7	Internal	General	Pharmacy Des Vignettes				Icon for "perimeter"	Sorry. I first interpreted the icon as a shoebox luminaire and pole seen in plan. I didn't realize it was one of the space options.	UI	51	3	4	3.8	4	5	4	4.4	4.0	3.9
C DiLouie	CD7	Core Team	Ease of Use/Flow						I clicked private office, inputted space characteristics, then second box for daylighting came up, but I had to scroll: I shouldn't have to scroll?	UI	54	5	4	4.2	4	4	4	4	4.1	4.2
D Maniccia	DM5	Controls							When you hit next (because you can't see the menu for VT until you scroll) it doesn't let you go forward but I can't see why. Can you enlarge the box?	UI	54	5	4	4.2	4	4	4	4	4.1	4.2
HMcKay	HM7	Designer	Functionality						Window size for Add an Open Plan space is too short. Completely missed daylight availability question. Box for windows should have yes or no option. Otherwise, if left unchecked, no windows appear, but the user doesn't know there was a choice.	UI	54	5	4	4.2	4	4	4	4	4.1	4.2
HMcKay	HM6	Designer	Functionality				VT		Window size for vignette options seems too short; user may think only 2 options. Maybe indicate how many vignettes are available, or increase size of window to show top of third vignette.	UI	54	5	4	4.2	4	4	4	4	4.1	4.2
L Davis	LD6	Designer							I didn't know that there was a checkmark for windows because I didn't scroll down, you shouldn't be able to hit "next" and miss the chance to put in window information. Can't you make the box bigger, especially since there is only one more box in the list?	UI	54	5	4	4.2	4	4	4	4	4.1	4.2
M Dare	MD4	Utility							Missed the windows checkbox, you shouldn't let people go forward without knowing that box is there.	UI	54	5	4	4.2	4	4	4	4	4.1	4.2

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A Cortese	AC25	Architect	Functionality						When I first started using the system, I was very interested in seeing the guided tour, but I never could get that to work.	UI	44	2	4	3.6	5	5	5	5	4.2	3.8
N Miller	NM6	Internal	Functionality	CLS intro page				Guided Tour	The Guided Tour took me to a mini sign-in page and no further. It must not be ready yet.	UI	44	2	4	3.6	5	5	5	5	4.2	3.8
C DiLouie	CD14	Core Team	Functionality						After finishing, the edit and delete icons only come up when I scroll over them – they should come up automatically	UI	55	3	5	4.6	4	4	4	4	4.4	4.5
HMcKay	HM17	Designer	Content						Summary of space description lists partition height as ft, not inches.	UI	55	3	5	4.6	4	4	4	4	4.4	4.5
J Yorgey	JY29	Manufacturer	Functionality					Office design vinettes	"corridor spaces" a edit /delete symbols come up but only when cursor is over listed space. These sybols do not appear on other space type pages	UI	55	3	5	4.6	4	4	4	4	4.4	4.5
M Myer	MM634	Internal	Content	Controls Strategies: Scheduling, Daylight Harvesting				Images	This is the first time that we have mouse-overs in the tool. We should make it obvious that these are mouse overs	UI	47	2	5	4.4	4	4	5	4.3	4.4	4.4
C DiLouie	CD12	Core Team	Ease of Use/Flow						After finishing, it gives me a button “new space,” which I clicked, and it started me on a new private office, but I had thought “new space” meant I would revisit the key plan—maybe offer two buttons there, or again, make the path back to key plan very legible	UI	9	3	5	4.6	4	4	5	4.3	4.5	4.6
C DiLouie	CD10	Core Team	Functionality						I should always have a very legible, clear path back to key plan; since the path link is above where I’m working and not below, where I would expect it to be, it should be very legible	UI	9	3	5	4.6	4	4	5	4.3	4.5	4.6

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C DiLouie	CD5	Core Team	Ease of Use/Flow						Then, after asking for more information about controls, I found I couldn't close that screen, and subsequently I couldn't get back to my decisionmaking process until I closed the window by clicking the upper righthand corner (meaning I had given up and thought I had to start over). In other words there should be a button that says "close this screen" on the controls page	UI	9	3	5	4.6	4	4	5	4.3	4.5	4.6
HMcKay	HM4	Designer	Ease of Use/Flow						Should have exaggerated CLOSE X to close vignette and template detail pages or a BACK button.	UI	9	3	5	4.6	4	4	5	4.3	4.5	4.6
L Davis	LD5	Designer							I found the Firefox windows confusing, the program opens new windows and I had trouble knowing where the action was.	UI	9	3	5	4.6	4	4	5	4.3	4.5	4.6
L Davis	LD9	Designer							When I'm done looking at the vignette details, it's not immediately apparent that I should close the box, or how to get back to the other screen. Nervous to close box, because it might shut down the tool. When you click on options, it takes you back to primary window, not clear to me immediately.	UI	9	3	5	4.6	4	4	5	4.3	4.5	4.6
M Myer	MM56	Internal	Functionality	Reception				Reception Spaces	"New space" button. Can this blink when I have not created any spaces?	UI	9	3	5	4.6	4	4	5	4.3	4.5	4.6

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N Ferzacca	NF10	Engineer							How do I close this? (vignette window) Took a minute to realize how to get back to the other window.	UI	9	3	5	4.6	4	4	5	4.3	4.5	4.6
N Ferzacca	NF16	Engineer							The next button did not show up in the size of window at first, I had to make it bigger, needed input to know to enlarge the window.	UI	9	3	5	4.6	4	4	5	4.3	4.5	4.6
N Ferzacca	NF14	Engineer							Wasn't obvious to me that the key plan button was the next step. Perhaps add a next button as well as the key plan button? Or make it more obvious?	UI	9	3	5	4.6	4	4	5	4.3	4.5	4.6
N Miller	NM13	Internal							No way to navigate back to previous page.	UI	9	3	5	4.6	4	4	5	4.3	4.5	4.6
N Miller	NM21	Internal							How do you navigate back to the model you're building? Maybe that doesn't work yet.	UI	9	3	5	4.6	4	4	5	4.3	4.5	4.6
N Miller	NM5.1	Internal	Content	Pharm - Genl Merch					When I was done with this page, I couldn't figure out where to go. So I hit the back button. Ooops. I must have missed something.	UI	9	3	5	4.6	4	4	5	4.3	4.5	4.6

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W Dau	WD10	Designer/IES Chair							The 'back to the key plan button/link should be brighter, the off color doesn't give the impression of it being a button	UI	9	3	5	4.6	4	4	5	4.3	4.5	4.6
W Dau	WD4	Designer/IES Chair							I went right past the vignette details. That little hyperlink is very often used as a help file, doesn't read as something that is mission-critical for the workflow process?	UI	9	1	5	4.2	5	5	5	5	4.5	4.3
D Maniccia	DM4	Controls							Change the language to read: How many rooms of this type do you have? Use of the word "space" is problematic.	UI	46	4	5	4.8	4	4	5	4.3	4.6	4.7
HMcKay	HM11	Designer	Content						How many glazed walls "to outside" – (to distinguish from interior glass walls).	UI	46	4	5	4.8	4	4	5	4.3	4.6	4.7
M Dare	MD6	Utility							It took me a while to notice the difference between LENGTH of daylighting wall" and "sidelighting glazing AREA."	UI	46	4	5	4.8	4	4	5	4.3	4.6	4.7
N Ferzacca	NF3	Engineer							You are asking for the length of the daylighting walls-- are you asking for length of the windows? Or the window walls? If you are getting glazing area, why do you need the length of the daylighting walls?	UI	46	4	5	4.8	4	4	5	4.3	4.6	4.7
P Lantine	PL1	Utilities						Paul Lentine, Northeast Utilities	need a help screen for wizards	UI	46	4	5	4.8	4	4	5	4.3	4.6	4.7
A Cortese	AC4	Architect	General						I wonder if by burying the baseline code in the corner, people are missing this and defaulting to ASHRAE 90.1-2007. Is there any way you could elevate the code question to the first input screen?	UI	43	5	5	5	4	4	5	4.3	4.7	4.9

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C Magee	CM8	Owner							Missed the code selection.	UI	43	5	5	5	4	4	5	4.3	4.7	4.9
D Maniccia	DM1	Controls							Why doesn't the energy code baseline pre-populate based on the state that gets selected?	UI	43	5	5	5	4	4	5	4.3	4.7	4.9
D Maniccia	DM2	Controls							Not everyone will notice the code selection-- can you flag it if someone doesn't select, instead of having it default to 90.1-2007?	UI	43	5	5	5	4	4	5	4.3	4.7	4.9
HMcKay	HM2	Designer	Ease of Use/Flow						Should direct user to select appropriate code. Not noticeable to user.	UI	43	5	5	5	4	4	5	4.3	4.7	4.9
L Davis	LD3	Designer							The drop down code menu isn't obvious enough, I could miss it entirely.	UI	43	5	5	5	4	4	5	4.3	4.7	4.9
M Dare	MD1	Utility							Missed the code menu.	UI	43	5	5	5	4	4	5	4.3	4.7	4.9
N Ferzacca	NF1	Engineer							Missed the code selection menu.	UI	43	5	5	5	4	4	5	4.3	4.7	4.9
W Dau	WD1	Designer/IES Chair							Missed the code selection box, not obvious enough.	UI	43	5	5	5	4	4	5	4.3	4.7	4.9
M Myer	MM627	Internal	Content	Perimeter Recessed Linear Fluorescent				Strategy/Maintenance	I do not remember the last paragraph related to cleaning in other vignettes with lensed wall washers	VignetteText	17	1	3	2.6	4	4	4	4	3.2	2.8
M Myer	MM151	Internal	Content	Recessed Compact Fluorescent Downlights with Dropped Decorative Diffuser and Perimeter Wall-Slot (office)				Approach/Criteria	Why limit CRI for fluorescent and not CFLs? I recommend going with 82 for both	VignetteText	17	1	4	3.4	4	4	4	4	3.6	3.5
M Myer	MM110	Internal	Content	Recessed Slot Luminaires Parallel to Desk with Contiunous Linear Wall-washers (office)				Luminaires C	CRI of 85 seems high, why not 80+ or even 82.	VignetteText	17	1	4	3.4	4	4	4	4	3.6	3.5
M Myer	MM515	Internal	Content	Recessed Non-Planar (LPD 0.64 W/sf)	8/5000	30/48		Luminaires C	Why is the CRI for the LEDs null. Although CRI is not entirely accurate, many LED manufacturers are reporting the value. In the future we will probably use a different metric, but I think that we should keep a value for the time	VignetteText	17	1	4	3.4	4	4	4	4	3.6	3.5

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M Myer	MM121	Internal	Content	Recessed Slot Luminaires Parallel to Desk with Contiunous Linear Wall-washers (office)				Approach/Criteria	Why are we calling out an 85 or better CRI for linear fluorescent and then allowing 82 for CFLs. CRI deviations of +/- 5 are impossible to tell. I say just say 82 or better.	VignetteText	17	1	4	3.4	4	4	4	4	3.6	3.5
C DiLouie	CD32	Core Team	Content						Under “Long Term Maintenance,” there is no text.	VignetteText	17	2	4	3.6	4	5	5	4.7	4.0	3.8
K Abernathy	KA8	Designer	General	Pharmacy				Vingettes for Center aisle	The same errors are showing up in these vingettes, symmetrical is spelled wrong,	VignetteText	17	2	4	3.6	4	5	5	4.7	4.0	3.8
K Abernathy	KA2	Designer	General	Pharmacy				Luminaires Parallel to Wall with Skylights Pharmacy under Luminaires	The word symmetrical is misspelled through out.	VignetteText	17	2	4	3.6	4	5	5	4.7	4.0	3.8
K Abernathy	KA4	Designer	General	Pharmacy				Luminaires Parallel to Wall Pharmacy - under Luminaires	The word symmetrical is misspelled through out.	VignetteText	17	2	4	3.6	4	5	5	4.7	4.0	3.8
M Myer	MM6	Internal	Content	Recessed Non-Planar Lensed Luminaires with low Ballast Factor and Recessed Compact Fluorescent Lensed Wall-washers (Office)	Conference room			Approach/Concept	We should be consistent with units. In the Lighting Power Density text, we write out W/ft2 and later we write sf (i.e., "meeting rooms smaller than 300 sf, or where ceiling"	VignetteText	17	2	4	3.6	4	5	5	4.7	4.0	3.8
M Myer	MM222	Internal	Content	Recessed 1'x4' Non-planar lensed luminaires			corridors	Strategy/Luminaires	"Significantly more efficient than those with open-celled parabolic louvers" is actually not correct. In terms of luminaire efficiency is roughly the same as a parabolic. Also, why only compare to a parabolic. I recommend, "they are significantly more effective than other types of recessed troffers in simultaneously delivering both good vertical and horizontal illuminance"	VignetteText	17	2	4	3.6	4	5	5	4.7	4.0	3.8

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M Myer	MM601	Internal	Content	Perimter Recessed CFLs				Strategy/Maintenance	"Unit wall washers" does not sound right. A linear wall washer unless continous is also a unit wall washer. Also is that really a maintenance issue?	VignetteText	17	2	4	3.6	4	5	5	4.7	4.0	3.8
M Myer	MM116	Internal	Content	Recessed Slot Luminaires Parallel to Desk with Contiunous Linear Wall-washers (office)				Approach/Concept	Bullet: Lumianires designed for wall washing disribute light… seems out of place to me	VignetteText	17	2	4	3.6	4	5	5	4.7	4.0	3.8
M Myer	MM105	Internal	Content	Recessed Slot Luminaires Parallel to Desk with Contiunous Linear Wall-washers (office)				Luminaires C	Continuous is a dangerous word. It will really mess with your LPD.	VignetteText	17	2	4	3.6	4	5	5	4.7	4.0	3.8
M Myer	MM351	Internal	Content	Suspended Direct/Indirect Luminaires with low BF ballasts	9'	PO		Strategy/Luminaires B	I do not like the defintion o fhtis luminaire. I would add a period after "ambient lighting"	VignetteText	17	2	4	3.6	4	5	5	4.7	4.0	3.8
M Myer	MM310	Internal	Content	Recessed Non-Planar Lensed Lumianire with High BF Ballasts (Office)	9'	PO		Approach/Concept	I would modify the text to say that the use of the HBF system allows for less luminaires and thus the lower connected load.	VignetteText	17	2	4	3.6	4	5	5	4.7	4.0	3.8
M Myer	MM370	Internal	Content	Recessed Non-Planar Lensed Lumianire with low BF Ballasts (Office)	9'	PO		Approach/Concept	I would reinforce what high ballast factor is in the text.	VignetteText	17	2	4	3.6	4	5	5	4.7	4.0	3.8
M Myer	MM384	Internal	Content	Recessed Non-Planar Lensed Lumianire with low BF Ballasts (Office)	9'	PO		Strategy/Maintenance	Isn't minimizing the number of ballasts contradictory here? If I use a LBF here, what should I use in the open plan offices?	VignetteText	17	2	4	3.6	4	5	5	4.7	4.0	3.8
M Myer	MM618	Internal	Content	Perimeter Recessed Linear Fluorescent				Approach/Concept	It is hard to describe a fixture that is less than 60% efficient as more efficient. Consider more effective?	VignetteText	17	2	4	3.6	4	5	5	4.7	4.0	3.8
M Myer	MM125	Internal	Content	Recessed Slot Luminaires Parallel to Desk with Contiunous Linear Wall-washers (office)				Strategy/luminaires	Lumianrie B says continous, yet the box to the right says 12'-0"	VignetteText	17	2	4	3.6	4	5	5	4.7	4.0	3.8

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M Myer	MM196	Internal	Content	Recessed slot luminaires Perpendicular to Desk with Compact Fluorescent Downlights and Wall-washers (Office)				Strategy/luminaires	Luminaire E - I think that the i.e. of articulated is a bit much, the clarification should stop after "supplment the ambient lighting". I would then modify the text about the blind old person wanting more light	VignetteText	17	2	4	3.6	4	5	5	4.7	4.0	3.8
M Myer	MM571	Internal	Content	Suspended 8' multi-lamp (0.69 W/sf)	10/5000	50/48		Approach/Luminaires B	This text is awkward. We need to know more about the use of 8' and 4' luminaires	VignetteText	17	2	4	3.6	4	5	5	4.7	4.0	3.8
M Myer	MM626	Internal	Content	Perimeter Recessed Linear Fluorescent				Strategy/Maintenance	Very little of the 1st indented maintenance paragraph is maintenanced	VignetteText	17	2	4	3.6	4	5	5	4.7	4.0	3.8
M Myer	MM366	Internal	Content	Recessed Non-Planar Lensed Lumianire with low BF Ballasts (Office)	9'	PO		Approach/Concept	"desk top" should it be one word or hyphenated?	VignetteText	17	2	4	3.6	4	5	5	4.7	4.0	3.8
M Myer	MM74	Internal	Content	Recessed Slot Lumianirs parallel to desk with compact fluorescent wall-washers (office)				Approach/Concept	"full-time occupant" should be hyphenated	VignetteText	17	2	4	3.6	4	5	5	4.7	4.0	3.8
M Myer	MM10	Internal	Content	Recessed Non-Planar Lensed Luminaires with low Ballast Factor and Recessed Compact Fluorescent Lensed Wall-washers (Office)	Conference room			Approach/Criteria	Hyphenate "Max-to-min"	VignetteText	17	2	4	3.6	4	5	5	4.7	4.0	3.8
M Myer	MM563	Internal	Content	Suspended 8' multi-lamp (0.69 W/sf)	10/5000	50/48		Approach/Criteria	Hyphenate "Task-to-immediate"	VignetteText	17	2	4	3.6	4	5	5	4.7	4.0	3.8
M Myer	MM597	Internal	Content	Perimter Recessed CFLs				Approach/Criteria	Hyphenate "Task-to-wall"	VignetteText	17	2	4	3.6	4	5	5	4.7	4.0	3.8
M Myer	MM574	Internal	Content	Suspended 8' multi-lamp (0.69 W/sf)	10/5000	50/48		Approach/Luminaires C	I am not a fan of the text about the 40 years old and corrective lenses	VignetteText	17	2	4	3.6	4	5	5	4.7	4.0	3.8

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M Myer	MM379	Internal	Content	Recessed Non-Planar Lensed Lumianire with low BF Ballasts (Office)	9'	PO		Strategy/Daylighting	I do not like "out-of-doors"	VignetteText	17	2	4	3.6	4	5	5	4.7	4.0	3.8
M Myer	MM289	Internal	Content	Recessed 4' Asymmetric wall-wash luminaires			corridors	Strategy/Luminaires	I prefer "recessed into the ceiling" rather than "recessed above the ceiling"	VignetteText	17	2	4	3.6	4	5	5	4.7	4.0	3.8
M Myer	MM573	Internal	Content	Suspended 8' multi-lamp (0.69 W/sf)	10/5000	50/48		Approach/Luminaires C	Recommend ending the description of articulated after "visual tasks"	VignetteText	17	2	4	3.6	4	5	5	4.7	4.0	3.8
M Myer	MM199	Internal	Content	Add Corridors Space/5' wide			corridors	Title Box	Should this be pluralized?	VignetteText	17	2	4	3.6	4	5	5	4.7	4.0	3.8
M Myer	MM396	Internal	Content	Recessed Non-Planar (LPD 0.56 W/sf)	9.6/5000	40/48		Approach/Concept	Shouldn't desktop be one word or possibly hyphenated?	VignetteText	17	2	4	3.6	4	5	5	4.7	4.0	3.8
M Myer	MM153	Internal	Content	Recessed Compact Fluorescent Downlights with Dropped Decorative Diffuser and Perimeter Wall-Slot (office)				Strategy/luminaires	Luminaire C - the plural of axis is axes	VignetteText	17	2	4	3.6	4	5	5	4.7	4.0	3.8
M Myer	MM287	Internal	Content	Recessed 4' Asymmetric wall-wash luminaires			corridors	Approach/Criteria	Either every bullet should be a whole sentence or not just be consistent	VignetteText	17	2	4	3.6	4	5	5	4.7	4.0	3.8
N Miller	NM8.1	Internal							Add comma to add clarity to text: "skylights bring in daylight, saving energy."	VignetteText	17	2	4	3.6	4	5	5	4.7	4.0	3.8
N Miller	NM8.2	Internal							Change "highlights" to "highlight".	VignetteText	17	2	4	3.6	4	5	5	4.7	4.0	3.8

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N Miller	NM5	Internal	Content	Pharm - Genl Merch				Strategy-parallel spacing-controls	Change "point of sales" to "point-of-sales". Same for "after hours." It's clearer with the hyphen. What does "demand reduction can be accommodated" mean in the Nighttime dimming section? There's no demand reduction needed at night. Or, does this mean the dimming capability also allows for demand reduction during peak hours when the utility is in trouble?	VignetteText	17	2	4	3.6	4	5	5	4.7	4.0	3.8
M Myer	MM651	Internal	Content	Controls Strategies: Vacancy Sensors, Daylight Harvesting				Approach	Why not more information about daylighting in the Approach tab?	VignetteText	17	2	4	3.6	5	5	5	5	4.2	3.8

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A Cortese	AC3	Architect			Appearance/Aesthetics						I think that the clean look and limited inputs by the user will (eventually) increase its utilization by professionals in the field.	Opinion		0	0	0	0	0	0	0	0.0	0.0
A Cortese	AC2	Architect			Ease of Use/Flow						The tool is intuitive and easy to use.	Opinion		0	0	0	0	0	0	0	0.0	0.0
C Magee	CM3	Owner	XP	IE							This is very sophisticated, how long have you been working on this tool?	Opinion		0	0	0	0	0	0	0	0.0	0.0
C Magee	CM7	Owner	XP	IE							I like the feedback that you get from the various options in the tool.	Opinion		0	0	0	0	0	0	0	0.0	0.0
C Magee	CM9	Owner	XP	IE							Love to get feedback from the facilities folks.	Opinion		0	0	0	0	0	0	0	0.0	0.0
C Magee	CM12	Owner	XP	IE							We work in depth with the utilities on our projects, so the end goal of using this in incentive programs is good.	Opinion		0	0	0	0	0	0	0	0.0	0.0
D Pogue	DP2	Owner	mac								Some of the clients are starting to pursue LEED CI. This will help with credits.	Opinion		0	0	0	0	0	0	0	0.0	0.0
D Pogue	DP1	Owner	mac								Universe of spaces, 3 or 4 categories. 1st, corporate user, they think of it as their space. They will yield the savings. Beginning to see the benefit. Very often about cost savings. 2nd-- institutionally offices, owned for profit. Hard time to get them to do anything that requires capital while they are there. Possible for renewal or vacancy. 3rd-- tenant improvement. No one is there, and we are trying to make the space competitive. This is useful to sit with them, and an architect, and walk through options.	Opinion		0	0	0	0	0	0	0	0.0	0.0
E Smith	ES2	Owner	mac								Most projects we will look at controls strategy, useful background. Also true for existing buildings.	Opinion		0	0	0	0	0	0	0	0.0	0.0
E Smith	ES5	Owner	mac								The tool will help to be able to show the ideas to the customer, and have them feel like they are part of the decision.	Opinion		0	0	0	0	0	0	0	0.0	0.0
K Abernathy	KA12	Designer	XP	IE 8							I think it all looks terrific graphically and it seems easy to manipulate. Would I use it probably not but for a learning tool or for someone that does not do lighting every day I think it is very useful.	Opinion		0	0	0	0	0	0	0	0.0	0.0
L Davis	LD2	Designer	HP	Firefox							This is so cool, I just want to reinforce how great this is!	Opinion		0	0	0	0	0	0	0	0.0	0.0
M Myer	MM177	Internal	XP	Firefox 3.0.10	Content	Recessed slot luminaires Perpendicular to Desk with Compact Fluorescent Downlights and Wall-washers (Office)				Luminaires/C	I like how it starts "Recessed continous T8…"	Opinion		0	0	0	0	0	0	0	0.0	0.0
M Myer	MM642	Internal	XP	Firefox 3.0.10	Content	Controls Strategies: Scheduling, Daylight Harvesting				Controls	I love the graphics!	Opinion		0	0	0	0	0	0	0	0.0	0.0

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N Ferzacca	NF15	Engineer	PC								East coast hasn't really taken up the vacancy sensor term yet. But I like the term.	Opinion		0	0	0	0	0	0	0	0.0	0.0
N Ferzacca	NF13	Engineer	PC								Controls vignette approach looks good.	Opinion		0	0	0	0	0	0	0	0.0	0.0
N Ferzacca	NF20	Engineer	PC								I can picture an architect starting the process and then coming to me saying hey, can we do this.	Opinion		0	0	0	0	0	0	0	0.0	0.0
N Ferzacca	NF21	Engineer	PC								The response will be all over the spectrum. The more experienced folks will know how to receive owner/client requests for designs like this.	Opinion		0	0	0	0	0	0	0	0.0	0.0
N Ferzacca	NF8	Engineer	PC								Vignette details is all very intuitive.	Opinion		0	0	0	0	0	0	0	0.0	0.0
N Miller	NM4.5	Internal	Windows	Mozilla 3.5.7							Good cleaning recommendations!	Opinion		0	0	0	0	0	0	0	0.0	0.0