Keene Public Library

Building and Grounds Committee

Meeting held 10/10/2025 at 3:30 PM (should be 10/14)

Members present: Susan Bloom, Don Caruso, Marti Fiske, Paul Henkel, Kathleen Packard and Sally Rinehart

Committee members. Don Caruso joined the Buildings and Grounds Committee.

Maintenance. Replacement of six upstairs windows is underway. The windows have arches at the top, so it was necessary to make custom windows.

Lighting

We discussed lighting. Marti noted that Andy Bohannan is preparing to enter a Capital Improvement Project (CIP) for lighting in the Library for 2027. Approval of the project will involve convincing the (City Manager and) City Council that this is a high priority.

Paul provided lighting standards obtained from on-line sources. He also provided an example of a meter which mimics the CIE human eye response. See attached. Justin moved we purchase a meter for up to $200 using money from the Buildings and Grounds budget. The motion was seconded by Don Caruso and unanimously approved. Marti will choose a meter and complete the purchase.

Marti plans to reach out to other New Hampshire libraries to learn which ones have done lighting improvements and who acted as consultants etc. for their projects.

Makerspace

Stonewall Farms Education Director Sam Healy is considering making ID Tags in the Library's Makerspace for their trees as part of their education program. They will be asked to independently buy material (e.g. from Johnson Plastics).

Proposed Next Meetings: 3:30 PM Wednesday November 5, and 3:30 PM Wednesday December 3.

Paul Henkel, Chair
(Suggested corrections are shown in red.)

Recommended brightness standards for library meeting rooms, offices, and reading areas vary based on activity, but most guidelines refer to illuminance in lux (lumen per sq. meter). For libraries, general reading and work areas, and office spaces, 300 to 500 lux is recommended, with meeting rooms usually needing at least 300 lux and reading areas often set at 500 lux for comfort and visual clarity.

Library and Office Brightness Standards

- Library stacks and general areas: 200–500 lux is typical.
- Library reading/study areas: 300–500 lux, with 500 lux preferred for clarity.
- Meeting/conference rooms: 300–500 lux, according to AIA and industry guides.
- General office areas: 300–500 lux, suitable for computer and desk work.
- Corridors and support spaces: 100–200 lux is usually sufficient.

Inexpensive Tools for Measuring Brightness

- Handheld lux meters: These inexpensive devices accurately measure brightness (illuminance) in lux. Models with a range up to 200,000 lux and ±3% accuracy are available for under $40, suitable for your needs.
- Smartphone apps: Many phones have free or low-cost light meter apps that use the phone's light sensor to report approximate lux or foot-candle values. While not as accurate as dedicated meters, they're useful for general surveys.

Practical Steps

- Obtain a handheld digital lux meter for precise measurements of each space (Amazon, electronic supply stores).
- Consider a free or paid smartphone app (e.g., "Lux Light Meter Free" for Android, "Lux Light Meter Pro" for iOS) as a quick assessment tool.
- For each room, measure in typical usage spots (near tables, desks, and throughout open areas) and compare results to recommended standards for your library’s functions.

These standards and tools will allow you to quantify and optimize lighting for both comfort and compliance.

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Technical Specifications

Display	3 1/2 digit LCD
Measuring Range	20/200/2000/20000 Lux (1330A, also Footcandle for 1334A) | 200/2000/20000/200000 Lux (1332A) | 1 Footcandle = 10.76 Lux, 1 Lux = 0.0929 Footcandle
Overrange Display	Highest digit of (1) is displayed.
Resolution	0.01 Lux (1330A, 1334A) & 0.1 Lux (1332A)
Accuracy	±3% rdg ±0.5% f.s. (<10,000 Lux) | ±4% rdg ±10 dgt (>10,000 Lux) | (Calibrated to standard incandescent lamp, 2856°K)
Spectral Response	CIE Photopic. (CIE human eye response curve).
Spectral Accuracy	CIE Vλ function f '1 ≦6%
Cosine Response	f '2 ≦2%

Repeatability	±2%
Temperature Characteristics	±0.1%/°C
Measuring Rate	Approximately 2.0 time/sec
Photosensor	Silicon photodiodes
Operating Temp. & Humidity	0°C~40°C(32°F~104°F) 0~70% RH
Power Source	One 9 Volt battery, NEDA 1604, JIS 006P or IEC 6F22
Battery Life (typical)	200 hours (Alkaline Battery)
Photosensor	Lead Length: 150 cm (approx.)

Photosensor Dimensions	100(L)×60(W)×27(H)mm (3.94"(L)×2.36(W)×1.06(H))
Dimension	135(L)×72(W)×33(H)mm (5.31"(L)×2.83"(W)×1.3"(H))

Weight	250g (8.8 oz)
Accessories	Carrying case, Instruction manual, battery