



Milwaukee

Section

38

Fundamentals of Lighting

Spring 2027

COURSE OVERVIEW:

This 20-hour course provides participants with an introduction to the fundamentals of illumination. It gives a comprehensive overview of basic lighting principles, lamp and luminaire types, lighting calculations, and controls, as well as functional and aesthetic best practices in application. This course is ideal for architects, engineers, designers, contractors, sales reps, customer service reps, manufacturers, distributors, and students. Find an outline for each module below.

WHEN:

Dates are estimates and subject to change.

MARCH 1st through MAY 3rd, 2027

5:30pm - 7:30pm

Meeting one Monday per week virtually
for 8 sessions and in person for two sessions.

WHERE:

Virtual via Teams - Audio and video required for remote learning.

Required in person dates for Module 4 on March 22nd and
Module 8 on April 19th will be held at Ring & DuChateau.

RING & DUCHATEAU,
17400 W Capitol Dr,
Brookfield, WI 53045

20 CEU's AVAILABLE - AIA/HSW/DSPS (#23311)

COURSE FEES:

\$400 Standard Registration
\$200 College Student

Pre-registration is required and registration fees
must be paid in advance.

REGISTRATION OPTIONS:

Email:

Complete the form on page 3 and submit to Teresa
Jackson via email @ teresa@spectrumltg.com

Online:

<https://iesmilwaukee.org/fundamentals-of-lighting/>

Registrations received after February 12, 2027 may
not receive materials in time for the first class.

Accepting payments online via PayPal or credit card.

If paying by check, make checks payable to IES
Milwaukee.

Send checks to the IES co-treasurer:

Beth Ann Bruss
3311 S Wollmer Road
West Allis, WI 53227

Register Now

<https://iesmilwaukee.org/fundamentals-of-lighting/>

Questions? Call Teresa Jackson - 262-665-8980
or email teresa@spectrumltg.com



Milwaukee Section

2027 FOL Course Syllabus (All dates and instructors are subject to change.)

Module 1, March 1, 2027

Introduction to Light and Lighting

Teresa Jackson, MIES (Spectrum Lighting & Controls)

1. A brief history of light and lighting
2. Professional practice
3. The physics of light
4. Vision
5. Color
6. Light and health

Module 2, March 8, 2027

Electric Light Sources

Eric Haugaard (Independent Consultant)

1. Introduction to electric light sources
2. Legacy sources
3. Incandescent
4. Fluorescent
5. High Intensity Discharge
6. Solid state

Module 3, March 15, 2027

Daylighting

Holly Blomquist, LC, MIES, LEED Green Associate (Ring & DuChateau)

1. Introduction to daylighting
2. Characteristics of daylight
3. Delivering daylight
4. Integrating daylight and electric light
5. View
6. Modeling daylight

Module 4, March 22, 2027 - In Person

Luminaires

Kyle Kichura, LC, MIES (AM Conservation Group)

1. Introduction to luminaires
2. Luminaire optics
3. Classification
4. Mounting
5. Interior luminaires
6. Exterior luminaires

Module 5, March 29, 2027

Lighting Controls

Randy Janicek (Engineered Representation, Inc.)

1. Introduction to Lighting Controls
2. Dimming
3. Sensors: presence detection
4. Sensors: light detection
5. Networked systems
6. General Considerations

Module 6, April 5, 2027

Metrics, photometry, calculations, and rendering

Chris Glandt, LC, MIES (Visa Lighting)

1. Introduction
2. Photometry: Lab and Reports
3. Calculations
4. Point method calculations
5. Lumen method calculations
6. Computer modeling
7. Field Measurements

Module 7, April 12, 2027

Codes, Standards, and Practice

Justin Hendrickson, LC, MIES (JTH Lighting Alliance)

1. Introduction
2. Electrical and Building Codes
3. Energy Codes
4. Aspirational Standards
5. Lighting Standards
6. Economics

Module 8, April 19, 2027 - In-Person

Lighting for Interior Environments

Colleen Kroll, LC, MIES (Ring & DuChateau)

1. Fundamentals of lighting design
2. Languages of lighting design
3. Visibility and comfort
4. Visual experience
5. Attraction and display
6. Light and architecture
7. Wellness and sustainability

Module 9, April 26, 2027

Lighting for Exterior Environments

Yazi Fletcher, LC, MIES

1. Lighting for dark environments
2. Parks, campuses and civic spaces
3. Streets and roadways
4. Parking facilities
5. Athletic facilities
6. Facades and landscapes
7. Sustainability and wellness

Module 10, May 3, 2027

REVIEW

Teresa Jackson, MIES (Spectrum Lighting & Controls)

1. Lighting basics
2. Vision & Perception (color, contrast)
3. Daylight, Electric Light, Controls
4. Light & Professional Practice
5. Balancing Needs and Sustainability
6. Resources

Register Now

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Questions? Call Teresa Jackson - 262-665-8980

or email teresa@spectrumltg.com

REGISTRATION FORM

FUNDAMENTALS OF LIGHTING - SPRING 2027

Pre-registration is required and registration fees must be paid in advance. To register, please complete the form below and submit to: teresa@spectrumltg.com

Name:

Company Name:

Street Address:

City, State & Zip:

Email Address:

Phone Number:

Payment Method:

PayPal:

List the email address to which an invoice should be sent.

Check:

Write check out to: IES Milwaukee

Mail to:

Beth Ann Bruss

3311 S Wollmer Road

West Allis, WI 53227

Online registration is available now through our website. <https://iesmilwaukee.org/fundamentals-of-lighting/>