



INDIANA DEPARTMENT OF TRANSPORTATION

Driving Indiana's Economic Growth

Design Memorandum No. 16-03 **Technical Advisory**

January 12, 2016

TO: All Design, Operations, and District Personnel, and Consultants

FROM: /s/ David Boruff
David Boruff
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Traffic Engineering Division

SUBJECT: Lighting Design Procedure

REVISE: *Indiana Design Manual* Section 502-4.02(03) through 502-4.07,
Figures 502-4D, -4P, -4S, and Editable Documents 502-04-02, and 502-04-03

EFFECTIVE: Immediately

The Department's lighting design procedure has been revised. The default service life used in performing the service cost per year has been increased to 20 years. The revisions also address the following:

- metered electrical services for solid state luminaires
- the average cost of electricity (used in the service cost per year calculation)
- how the uniformity ratio is to be used/interpreted
- lighting at roundabouts, underpasses, and pedestrian facilities
- adaptive lighting
- the BUG (backlight, uplight, and glare) rating system
- veiling luminance
- light trespass
- the equipment factor (used in the computation for lumen depreciation)

The revisions to the referenced IDM sections, figures, and Editable Documents are an attachment to this memo and have been incorporated into the on-line version of the IDM. Please contact the Office of Traffic Administration if you have any questions or need additional background information.