

BUREAU OF INDIAN STANDARDS

Program of Work

ETD 49 : Illumination Engineering and Luminaires

Scope: To prepare Indian Standards for luminaires (including luminaires for use in hazardous area, aviation lighting, emergency lighting etc.) and codes of practice for interior/exterior lighting

Liaison: **IEC TC-34 SC-34D (P): Luminaires**

Published Standards

S.No	IS No.	TITLE	Reaffirm M-Y	No. of Amds	Eqv.
1	IS 10322 (Part 1) : 2014 Reviewed In : 2019 IEC 60598-1(2003-10)	Luminaires: Part 1 general requirements and tests (First Revision)		1	Modified/Technically Equivalent
2	IS 10322 (Part 5/Sec 1) : 2012 Reviewed In : 2024 IEC 60598-2-1 : 1979 + Amendment 1(1987)	Luminaires: Part 5 particular requirements: Sec 1 fixed general purpose luminaires (First Revision)	April, 2024	1	Modified/Technically Equivalent
3	IS 10322 (Part 5/Sec 2) : 2012 Reviewed In : 2024 IEC 60598-2-2 : 1997	Luminaires: Part 5 particular requirements: Sec 2 recessed luminaires (First Revision)	April, 2024	1	Modified/Technically Equivalent
4	IS 10322 (Part 5/Sec 3) : 2012 Reviewed In : 2024 IEC 60598-2-3 : 2002	Luminaires: Part 5 particular requirements: Sec 3 luminaires for road and street lighting (First Revision)	April, 2024	1	Modified/Technically Equivalent
5	IS 10322 (Part 5/Sec 4) : 1987 IEC 60598-2-4 Reviewed In : 2020 IEC 60598-2-4 (1979)	Specification for luminaires: Part 5 particular requirements: Sec 4 portable general purpose luminaires	May, 2020	1	Modified/Technically Equivalent
6	IS 10322 (Part 5/Sec 5) : 2013 Reviewed In : 2024 IEC 60598-2-5 (1998)	Luminaires: Part 5 particular requirements: Sec 5 floodlights (First Revision)	April, 2024	1	Modified/Technically Equivalent
7	IS 10322 (Part 5/Sec 6) : 2013 Reviewed In : 2024 IEC 60598-2-8, (1996)	Luminaires: Part 5 particular requirements: Sec 6 handlamps	April, 2024	1	Modified/Technically Equivalent
8	IS 10322 (Part 5/Sec	Luminaires: Part 5 particular	April, 2024	-	Identical under dual

	7) : 2017 Reviewed In : 2024 IEC 60598-2-20 : 2014	requirements: Sec 7 lighting chains (First Revision)			numbering
9	IS 10322 (Part 5/Sec 8) : 2013 Reviewed In : 2024 IEC 60598-2-22, (1997) + Amendment 1 (2002)	Luminaires: Part 5 particular requirements: Sec 8 emergency lighting	April, 2024	-	Modified/Technically Equivalent
10	IS 10322 (Part 5/Sec 9) : 2017 IEC 60598-2-21 : 2014 Reviewed In : 2024 IEC 60598-2-21 : 2014	Luminaires: Part 5 particular requirements: Sec 9 rope lights	April, 2024	-	Identical under dual numbering
11	IS 10894 : 1984 Reviewed In : 2018 Reaffirmed but not taken up for revision	Code of practice for lighting of educational institutions	August, 2018	-	Indigenous
12	IS 10947 : 1984 Reviewed In : 2020 IES (UK). Technical Report No. 13 Industrial area flood lighting. 1969. Illuminating Engineering S	Code of practice for lighting for ports and harbours	May, 2020	-	Modified/Technically Equivalent
13	IS 11071 (Part 1) : 1984 Reviewed In : 2021 Aerodromes Annex 14 (1976), Ed 7.	Specification for inset type aerodrome lighting fittings: Part 1 general requirements and tests	May, 2021	-	Modified/Technically Equivalent
14	IS 11071 (Part 2) : 1984 Reviewed In : 2021 Aerodromes Annex 14 (1976), Ed 7.	Specification for inset type aerodrome lighting fittings: Part 2 runway centre line lighting fittings	May, 2021	-	Modified/Technically Equivalent
15	IS 11071 (Part 3) : 1984 Reviewed In : 2020 Aerodromes Annex 14 (1976), Ed 7.	Specification for inset type aerodrome lighting fittings: Part 3 approach lighting fittings	May, 2020	-	Modified/Technically Equivalent
16	IS 11071 (Part 4) : 1984 Reviewed In : 2020 Aerodromes Annex 14 (1976), Ed 7.	Specification for inset type aerodrome lighting fittings: Part 4 touch down zone lighting fittings	May, 2020	-	Modified/Technically Equivalent
17	IS 11116 : 1984 Reviewed In : 2020 a) International Standards and Recommended Practices, Aerodromes,	Code of practice for lighting for airport aprons	May, 2020	-	Modified/Technically Equivalent

	Annexure 14 (1976) Ed 7, Interna				
18	IS 12309 (Part 1) : 1988 Reviewed In : 2018	Code of practice for installation and maintenance of aerodrome lighting fittings	March, 2018	-	Indigenous
19	IS 12309 (Part 2) : 1988 Reviewed In : 2018	Code of practice for installation and maintenance of aerodrome lighting fittings: Part 2 maintenance	March, 2018	-	Indigenous
20	IS 13383 (Part 1) : 1992 Reviewed In : 2024 CIE Publication No. 24 (TC 2.4) 1973	Photometry of luminaires - Method of measurement: Part 1 luminaires for use in interior lighting	April, 2024	-	Modified/Technically Equivalent
21	IS 13383 (Part 2) : 1992 Reviewed In : 2024 CIE Publication No. 27 (TC-2.4) 1973	Photometry of luminaires - Method of measurement: Part 2 luminaires for road and street lighting	April, 2024	1	Modified/Technically Equivalent
22	IS 13383 (Part 3) : 1992 Reviewed In : 2024 CIE Publication 43 (TC-2.4) 1979	Photometry of luminaires - Methods of measurement: Part 3 luminaires for floodlighting	April, 2024	-	Modified/Technically Equivalent
23	IS 16107 (Part 1) : 2012 Reviewed In : 2024 IEC/PAS 62772-1 (2011)	Luminaires performance: Part 1 general requirements	May, 2024	-	Modified/Technically Equivalent
24	IS 16107 (Part 2/Sec 1) : 2012 Reviewed In : 2024 IEC/PAS 62722-2-1(2011)	Luminaires performance: Part 2 particular requirements: Sec 1 led luminaire	May, 2024	-	Modified/Technically Equivalent
25	IS 18687 : 2024	Germicidal UV-C Irradiation Devices -Safety Requirements		-	Indigenous
26	IS 1944 (Part 5) : 1981 Reviewed In : 2024 BS: CP 1004 - Street lighting, Part 5 Lighting for grade-separated junctions and Part 6 Lighting for	Code of practice for lighting of public thoroughfares: Part 5 lighting for grade separated junctions, bridges and elevated road (Group D)	May, 2024	-	Modified/Technically Equivalent
27	IS 1944 (Part 6) : 1981 Reviewed In : 2024	Code of practice for lighting of public thoroughfares: Part 6 lighting for town and city centres and areas of civic importance (Group E)	May, 2024	-	Indigenous
28	IS 1944 (Part 7) : 1981 Reviewed In : 2024 CIE 32 (TC 4+6)-1976 Lighting in situations requiring special treatment. International	Code of practice for lighting of public thoroughfares: Part 7 lighting for roads with special requirements (Group F)	May, 2024	-	Modified/Technically Equivalent

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29	IS 1944 (Part 12) : 1970 Reviewed In : 2024	Code of practice for lighting of public thoroughfares (First Revision)	May, 2024	2	Indigenous
30	IS 2672 : 1966 Reviewed In : 2015 Reaffirmed but not taken up for revision	Code of practice for library lighting		-	Indigenous
31	IS 3646 (Part 1) : 1992 Reviewed In : 2024 CIE-Publication on Interior Lighting, DIN 5035 (Parts 1 and 2) : 1979	Code of practice for interior illumination: Part 1 general requirements and recommendations for working interiors (First Revision)	April, 2024	1	Modified/Technically Equivalent
32	IS 4347 : 1967 Reviewed In : 2015 Reaffirmed but not taken up for revision	Code of practice for hospital lighting		-	Indigenous
33	IS 6665 : 1972 Reviewed In : 2015 Reaffirmed but not taken up for revision IES Code. Recommendations for good interior lighting. 1961. The Illuminating Engineering Society, Lo	Code of practice for industrial lighting		-	Modified/Technically Equivalent
34	SP 72 : 2010 Reviewed In : 2016	National lighting code 2010	March, 2016	-	Indigenous
35	IS 7537 : 1974 Reviewed In : 2021 B.S. 505- 1971	Specification for road traffic signals	November, 2021	-	Modified/Technically Equivalent
36	IS 7785 (Part 1) : 1975 Reviewed In : 2024 BS : 3224	Specification for elevated type aerodrome lighting fittings: Part 1 general requirements	April, 2024	-	Modified/Technically Equivalent
37	IS 7785 (Part 2) : 1976 Reviewed In : 2024 BS : 3224	Specification for elevated type aerodrome lighting fittings: Part 2 fixed focus high intensity bidirectional runway edge lighting fittings	April, 2024	-	Modified/Technically Equivalent
38	IS 7785 (Part 3) : 1976 Reviewed In : 2024 BS : 3224	Specification for elevated type aerodrome lighting fittings: Part 3 low intensity runway edge lighting - Fittings	April, 2024	-	Modified/Technically Equivalent
39	IS 7785 (Part 4/Sec 1) : 1981 Reviewed In : 2024 BS : 3224 : Section Cl : 1963	Specification for elevated type aerodrome lighting fittings: Part 4 angle of approach lights: Sec 1 visual approach slope indicators	April, 2024	-	Modified/Technically Equivalent
40	IS 7785 (Part 5/Sec 1) : 1981 Reviewed In : 2024 BS 3224: Section-B1	Specification for elevated type aerodrome lighting fittings: Part 5 approach lighting fittings: Sec 1 high intensity elevated approach	April, 2024	-	Modified/Technically Equivalent

	: 1970	lighting fittings			
41	IS 7785 (Part 6/Sec 1) : 1981 Reviewed In : 2024 BS 3224 : Section F 1 : 1968	Specification for elevated type aerodrome lighting fittings: Part 6 taxiway lights: Sec 1 low intensity omni - Directional elevated taxiway lighting fittings	April, 2024	-	Modified/Technically Equivalent
42	IS 9583 : 1981 IEC 598-2-22 Reviewed In : 2018 IEC : 598-2-22(1980)	Specification for emergency lighting units	March, 2018	-	Modified/Technically Equivalent

Standards under Development

Projects Approved

SI. No.	Doc No.	Title
<i>No Records Found</i>		

Preliminary Draft Standards

SI. No.	Doc No.	Title
1	ETD 49 (25378) Revision of: SP 72:2010	National Lighting Code of India Part 3 Electric Light Sources and their Accessories Section 1 Solid State Lighting LED Technology Section 2 LED Driver and Controls First Revision of SP 72 Part 3
2	ETD 49 (25578) Revision of: SP 72:2010	National Lighting Code of India Part 5 Interior Illumination Section 1 to Section 9 First Revision of SP 72 Part 5 Section 1 to Section 9
3	ETD 49 (25787) Revision of: SP 72:2010	National Lighting Code of India Part 7 Energy-Effective Lighting Systems Section 1 and Section 2 First Revision of SP 72 Part 7 Section 1 and Section 2
4	ETD 49 (25814) Revision of: SP 72:2010	National Lighting Code of India Part 10 Installation Aspects for Lighting Section 1 Mechanical Section 2 Electrical Section 3 Coordination with Related Disciplines Section 4 Installation Guidelines for LED System Section 5 Lighting Maintenance First Revision of SP 72 Part 10 Section 1- Section 5
5	ETD 49 (26127) Revision of: SP 72:2010	National Lighting Code of India PART 17 SCIENCE OF ULTRA VIOLET AND ULTRA VIOLET GERMICIDAL IRRADIATION APPLICATIONS FOR HOSPITALS First Revision of SP 72 Part 17
6	ETD 49 (26128) Revision of: SP 72:2010	National Lighting Code of India Part 6 Outdoor Lighting Section 1 to Section 12 First Revision of SP 72 Part 6 Section 1 to Section 12
7	ETD 49 (26166) Revision of: SP 72:2010	National Lighting Code of India Part 11 Human Centric Lighting First Revision of SP 72 Part 11
8	ETD 49 (26189) Revision of: SP 72:2010	National Lighting Code of India Part 15 Horticulture Lighting First Revision of SP 72 Part 15
9	ETD 49 (26211) Revision of: SP 72:2010	National Lighting Code of India Part 14 Adverse Effects of Lighting First Revision of SP 72 Part 14
10	ETD 49 (26319) Revision of: SP 72:2010	National Lighting Code of India Part 8 Daylighting for Buildings First Revision of SP 72 Part 8
11	ETD 49 (26435) Revision of: SP 72:2010	National Lighting Code of India Part 9 Emergency Lighting First Revision of SP 72 Part 9
12	ETD 49 (26462) Revision of: SP 72:2010	National Lighting Code of India Part 12 Indoor Connected IoT Based Lighting First Revision of SP 72 Part 12
13	ETD 49 (26468) Revision of: SP 72:2010	National Lighting Code of India Part 13 Outdoor Digital Connected IOT Based Road Lighting First Revision of SP 72 Part 13
14	ETD 49 (26629) Revision of: SP 72:2010	National Lighting Code of India Part 4 Luminaires First Revision of SP 72 Part 4

Drafts Standards in WC Stage

SI. No.	Doc No.	Title
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1	ETD 49 (25619)	Luminaires Part 2 Particular requirements Section 18 Luminaires for swimming pools and similar applications
2	ETD 49 (25743) Revision of: IS 10322:2014	Luminaires Part 1 General Requirements and Tests second revision

Draft Standards Completed WC Stage

SI. No.	Doc No.	Title
1	ETD 49 (22373)	CODE OF PRACTICE FOR INTERIOR ILLUMINATION PART 1 GENERAL REQUIREMENTS AND RECOMMENDATIONS FOR WORKING INTERIORS First Revision
2	ETD 49 (23883)	ELECTRICAL INSTALLATIONS FOR LIGHTING AND BEACONING OF AERODROMES CHARACTERISTICS OF INSET AND ELEVATED LUMINAIRES USED ON AERODROMES AND HELIPORTS
3	ETD 49 (25066) Revision of: IS 10322:2014	NATIONAL LIGHTING CODE OF INDIA PART 1 LIGHTING VOCABULARY
4	ETD 49 (25108) Revision of: IS 10322:2014	NATIONAL LIGHTING CODE OF INDIA PART 2 Physics of Light First Revision of SP 72 Part 2

Finalized Draft Indian Standard

SI. No.	Doc No.	Title
<i>No Records Found</i>		

Finalized Draft Indian Standards under Print

SI. No.	Doc No.	Title
1	ETD 49 (26044) Revision of: IS 7537:1974	Road Traffic Signals Specification First Revision

Total Published Standards:41 Total Standards Under development:21

Aspect Wise Report

Product : 25
Code of Practices : 14
Methods of Test : 3
Terminology : 0
Dimensions : 0
System Standard : 0
Safety Standard : 0
Others : 0
Service Specification : 0
Process Specification : 0
Unclassified : 0

Annexure-I :List of Indian Standards Withdrawn/Superseded

SI. No.	IS No. & Year	Title
<i>No Records Found</i>		

Annexure-II :List of Indian Product Standards

SI. No.	IS No. & Year	Title
1	IS 10322 (Part 1) : 2014 Reviewed In : 2019 IEC 60598-1(2003-10)	Luminaires Part 1 general requirements and tests First Revision
2	IS 10322 (Part 5/Sec 1) : 2012	Luminaires Part 5 particular requirements Sec 1 fixed general purpose luminaires First Revision

	Reviewed In : 2024 IEC 60598-2-1 : 1979 + Amendment 1(1987)	
3	IS 10322 (Part 5/Sec 2) : 2012 Reviewed In : 2024 IEC 60598-2-2 : 1997	Luminaires Part 5 particular requirements Sec 2 recessed luminaires First Revision
4	IS 10322 (Part 5/Sec 3) : 2012 Reviewed In : 2024 IEC 60598-2-3 : 2002	Luminaires Part 5 particular requirements Sec 3 luminaires for road and street lighting First Revision
5	IS 10322 (Part 5/Sec 4) : 1987 IEC 60598-2-4 Reviewed In : 2020 IEC 60598-2-4 (1979)	Specification for luminaires Part 5 particular requirements Sec 4 portable general purpose luminaires
6	IS 10322 (Part 5/Sec 5) : 2013 Reviewed In : 2024 EC 60598-2-5 (1998)	Luminaires Part 5 particular requirements Sec 5 floodlights First Revision
7	IS 10322 (Part 5/Sec 6) : 2013 Reviewed In : 2024 IEC 60598-2-8, (1996)	Luminaires Part 5 particular requirements Sec 6 handlamps
8	IS 10322 (Part 5/Sec 7) : 2017 Reviewed In : 2024 IEC 60598-2-20 : 2014	Luminaires Part 5 particular requirements Sec 7 lighting chains First Revision
9	IS 10322 (Part 5/Sec 8) : 2013 Reviewed In : 2024 IEC 60598-2-22, (1997) + Amendment 1 (2002)	Luminaires Part 5 particular requirements Sec 8 emergency lighting
10	IS 10322 (Part 5/Sec 9) : 2017 IEC 60598-2-21 : 2014 Reviewed In : 2024 IEC 60598-2-21 : 2014	Luminaires Part 5 particular requirements Sec 9 rope lights
11	IS 11071 (Part 1) : 1984 Reviewed In : 2021 Aerodromes Annex 14 (1976), Ed 7.	Specification for inset type aerodrome lighting fittings Part 1 general requirements and tests
12	IS 11071 (Part 2) : 1984 Reviewed In : 2021 Aerodromes Annex 14 (1976), Ed 7.	Specification for inset type aerodrome lighting fittings Part 2 runway centre line lighting fittings
13	IS 11071 (Part 3) : 1984 Reviewed In : 2020 Aerodromes Annex 14 (1976), Ed 7.	Specification for inset type aerodrome lighting fittings Part 3 approach lighting fittings
14	IS 11071 (Part 4) : 1984 Reviewed In : 2020 Aerodromes Annex 14 (1976), Ed 7.	Specification for inset type aerodrome lighting fittings Part 4 touch down zone lighting fittings
15	IS 16107 (Part 1) : 2012 Reviewed In : 2024 IEC/PAS 62772-1 (2011)	Luminaires performance Part 1 general requirements

16	IS 16107 (Part 2/Sec 1) : 2012 Reviewed In : 2024 IEC/PAS 62722-2-1(2011)	Luminaires performance Part 2 particular requirements Sec 1 led luminaire
17	IS 18687 : 2024	Germicidal UV-C Irradiation Devices -Safety Requirements
18	IS 7537 : 1974 Reviewed In : 2021 B.S. 505- 1971	Specification for road traffic signals
19	IS 7785 (Part 1) : 1975 Reviewed In : 2024 BS : 3224	Specification for elevated type aerodrome lighting fittings Part 1 general requirements
20	IS 7785 (Part 2) : 1976 Reviewed In : 2024 BS : 3224	Specification for elevated type aerodrome lighting fittings Part 2 fixed focus high intensity bidirectional runway edge lighting fittings
21	IS 7785 (Part 3) : 1976 Reviewed In : 2024 BS : 3224	Specification for elevated type aerodrome lighting fittings Part 3 low intensity runway edge lighting - Fittings
22	IS 7785 (Part 4/Sec 1) : 1981 Reviewed In : 2024 BS : 3224 : Section CI : 1963	Specification for elevated type aerodrome lighting fittings Part 4 angle of approach lights Sec 1 visual approach slope indicators
23	IS 7785 (Part 5/Sec 1) : 1981 Reviewed In : 2024 BS 3224: Section-B1 : 1970	Specification for elevated type aerodrome lighting fittings Part 5 approach lighting fittings Sec 1 high intensity elevated approach lighting fittings
24	IS 7785 (Part 6/Sec 1) : 1981 Reviewed In : 2024 BS 3224 : Section F 1 : 1968	Specification for elevated type aerodrome lighting fittings Part 6 taxiway lights Sec 1 low intensity omni - Directional elevated taxiway lighting fittings
25	IS 9583 : 1981 IEC 598-2-22 Reviewed In : 2018 IEC : 598-2-22(1980)	Specification for emergency lighting units