

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 : 2025 IEC 60598-1(2003-10)	Luminaires: Part 1 general requirements and tests (First Revision)	January, 2025	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 Reaffirmed but not taken up for revision 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 Reaffirmed but not taken up for revision a) International	Code of practice for lighting for airport aprons	May, 2020	-	Modified/Technically Equivalent

	Standards and Recommended Practices, Aerodromes, 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 IEC PAS 63313 : 2021	Germicidal UV-C Irradiation Devices -Safety Requirements		-	Modified/Technically Equivalent
26	IS 19320:2025 61827: 2004 61827: 2004	Electrical installations for lighting and beaconing of aerodromes - Characteristics of inset and elevated luminaires used on aerodromes and heliports		-	Identical under single numbering
27	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
28	IS 1944 (Part 6):1981 Reviewed In : 2024 CIE 32 (TC 4.6)	Code of practice for lighting of public thoroughfares: Part 6 lighting for town and city centres and areas of civic importance	May, 2024	-	Modified/Technically Equivalent

	1976, BS 5489 (Part 9) - 1969	(Group E)			
29	IS 1944 (Part 7):1981 Reviewed In : 2024 CIE 32 (TC 4+6)-1976 Lighting in situations requiring special treatment. International Commission o	Code of practice for lighting of public thoroughfares: Part 7 lighting for roads with special requirements (Group F)	May, 2024	-	Modified/Technically Equivalent
30	IS 1944 (Part 1 & 2):1970 Reviewed In : 2024 CIE Publication No. 12 (E-33.1)-1965, BS CP1004 : Parts 1 and 2: 1963	Code of practice for lighting of public thoroughfares (First Revision)	May, 2024	2	Modified/Technically Equivalent
31	IS 2672:1966 Reviewed In : 2015 Reaffirmed but not taken up for revision IES/ RP4-1950	Code of practice for library lighting		-	Modified/Technically Equivalent
32	IS 3646 (Part 1):2025	Code of Practice for Interior Illumination -Part 1 General Requirements and Recommendations for Working Interiors (Second Revision)		-	Indigenous
33	IS 3646 (Part 1):1992 Reviewed In : 2024	Code of practice for interior illumination: Part 1 general requirements and recommendations for working interiors (First Revision)	April, 2024	1	Indigenous
34	IS 4347:1967 Reviewed In : 2015 Reaffirmed but not taken up for revision	Code of practice for hospital lighting		-	Indigenous
35	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
36	SP 72:2010 Reviewed In : 2025	National lighting code 2010	February, 2025	-	Indigenous
37	IS 7537:1974 Reviewed In : 2021 B.S. 505- 1971	Specification for road traffic signals	November, 2021	-	Modified/Technically Equivalent
38	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

39	IS 7785 (Part 2):1976 Reviewed In : 2024 BS : 3224	Specification for elevated typei aerodrome lighting fittings: Part 2 fixed focus high intensity biqireectional runway edge lighting fittings	April, 2024	-	Modified/Technically Equivalent
40	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
41	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	April, 2024	-	Modified/Technically Equivalent
42	IS 7785 (Part 5/Sec 1):1981 Reviewed In : 2024 BS 3224: Section-B1 : 1970	Specification for elevated type aerodrome lighttNg fittings: Part 5 approach lighting fittings: Sec 1 high intensity elevated approach lighting fittings	April, 2024	-	Modified/Technically Equivalent
43	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

Standards under Development

Projects Approved

Sl. No.	Doc No.	Title
No Records Found		

Preliminary Draft Standards

Sl. No.	Doc No.	Title
No Records Found		

Drafts Standards in WC Stage

Sl. No.	Doc No.	Title
1	ETD 49 (27249)	Lighting systems Characteristics for selected outdoor applications

Draft Standards Completed WC Stage

Sl. No.	Doc No.	Title
1	ETD 49 (22391)	Code of Practice for Road and Tunnel Lighting Second Revision
2	ETD 49 (25619)	Luminaires Part 2 Particular requirements Section 18 Luminaires for swimming pools and similar applications
3	ETD 49 (25743)	Luminaires Part 1 General Requirements and Tests second revision
4	ETD 49 (27112)	Luminaires Part 5 Particular requirements Section 1 Fixed general purpose luminaires Second Revision
5	ETD 49 (27113)	Luminaires Part 5 Particular requirements Section 2 Recessed luminaires and recessed air-handling luminaires Second Revision
6	ETD 49 (27115)	Luminaires Part 5 Particular requirements Section 3 Luminaires for road and street lighting Second Revision
7	ETD 49 (27116)	Luminaires Part 5 Particular requirements Section 4 Portable general purpose luminaires First Revision
8	ETD 49 (27117)	Luminaires Part 5 Particular requirements Section 5 Floodlights Second Revision

9	ETD 49 (27118)	Luminaires Part 5 Particular requirements Section 6 Handlamps First Revision
10	ETD 49 (27119)	Luminaires Part 5 Particular requirements Section 7 Lighting chains Second Revision
11	ETD 49 (27120)	Luminaires Part 5 Particular requirements Section 8 Luminaires for emergency lighting First Revision

Finalized Draft Indian Standard		
Sl. No.	Doc No.	Title
No Records Found		

Finalized Draft Indian Standards under Print		
Sl. No.	Doc No.	Title
1	ETD 49 (25066) Revision of: SP 72:2010	National Lighting Code of India Part 1 Lighting Vocabulary
2	ETD 49 (25108) Revision of: SP 72:2010	National Lighting Code of India Part 2 Physics of Light
3	ETD 49 (25378) Revision of: SP 72:2010	National Lighting Code of India Part 3 Electric Light Sources and Their Accessories
4	ETD 49 (25578) Revision of: SP 72:2010	National Lighting Code of India Part 5 Interior Illumination
5	ETD 49 (25787) Revision of: SP 72:2010	National Lighting Code of India Part 7 Energy-Effective Lighting Systems
6	ETD 49 (25814) Revision of: SP 72:2010	NATIONAL LIGHTING CODE OF INDIA PART 10 INSTALLATION AND MAINTENANCE ASPECTS FOR LIGHTING
7	ETD 49 (26044) Revision of: IS 7537:1974	Road Traffic Signals - Specification First Revision
8	ETD 49 (26127) Revision of: SP 72:2010	National Lighting Code of India Part 15 Science of Ultra Violet and Ultra Violet Germicidal Irradiation Applications for Hospitals First Revision
9	ETD 49 (26128) Revision of: SP 72:2010	National Lighting Code of India Part 6 Outdoor Lighting Section 1 to Section 12First Revision of SP 72 Part 6Section 1 to Section 12
10	ETD 49 (26166) Revision of: SP 72:2010	National Lighting Code of India Part 11 Human Centric Lighting
11	ETD 49 (26189) Revision of: SP 72:2010	National Lighting Code of India Part 14 Horticulture Lighting
12	ETD 49 (26211) Revision of: SP 72:2010	National Lighting Code of India Part 13 Adverse Effects of Lighting
13	ETD 49 (26319) Revision of: SP 72:2010	National Lighting Code of India Part 8 Daylighting for Buildings
14	ETD 49 (26435) Revision of: SP 72:2010	National Lighting Code of India Part 9 Emergency Lighting
15	ETD 49 (26462) Revision of: SP 72:2010	National Lighting Code of India Part 12 Connectivity for Lighting Systems
16	ETD 49 (26629) Revision of: SP 72:2010	National Lighting Code of India Part 4 Luminaires First Revision of SP 72 Part 4
17	ETD 49 (28358) Revision of: SP 72:2010	National Lighting Code of India Part 16 Solar Lighting Systems First Revision

Total Published Standards:40 Total Standards Under development:29

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

Sl. No.	IS No. & Year	Title
1	IS 9583:1981 IEC 598-2-22 Reviewed In : 2018 IEC : 598-2-22(1980)	Specification for emergency lighting units

Annexure-II :List of Indian Product Standards

Sl. No.	IS No. & Year	Title
1	IS 10322 (Part 1):2014 Reviewed In : 2025 IEC 60598-1(2003-10)	Luminaires Part 1 general requirements and tests First Revision
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
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	Luminaires Part 5 particular requirements Sec 9 rope lights

	Reviewed In : 2024 IEC 60598-2-21 : 2014	
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 19320:2025 61827: 2004	Electrical installations for lighting and beaconing of aerodromes - Characteristics of inset and elevated luminaires used on aerodromes and heliports
19	IS 7537:1974 Reviewed In : 2021 B.S. 505- 1971	Specification for road traffic signals
20	IS 7785 (Part 1):1975 Reviewed In : 2024 BS : 3224	Specification for elevated type aerodrome lighting fittings Part 1 general requirements
21	IS 7785 (Part 2):1976 Reviewed In : 2024 BS : 3224	Specification for elevated type aerodrome lighting fittings Part 2 fixed focus high intensity bi-directional runway edge lighting fittings
22	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
23	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
24	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
25	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