



**54814—
2018**

(IEC 62504:2014, NEQ)



Стандартинформ
2018

54814—2018

- 1 . . * (« ») - -
- 2 332 « , -
- 3 21 2018 . No 625-
- 4 62504:2014 « () .
» (IEC 62504:2014 «General lighting — Light emitting diode (LED) product and related equipment — Terms and definitions». NEO)
- 5 P 54814—201VIEC/TS 62504:2011

29 2015 . 162- « 26
) (1
— « », «
() «
». ,
—
(www.gost.fu)

© , . 2018

, -
-

12. 34. 40. 42

-

*

-

-

**Light emitting diodes (LED) and LED modules (or general lighting and related equipment.
Terms and definitions**

— 2019—03—01

1

(—)

2

1 ; **(independent LED module):** ,

1

2 , -

2 **(bin):** / , -

3 **(apparent source):** -

() . -

— , 100 . -

4 **(stabilization time):** ,

5 ; **(built-in LED module):** ,

6 **(type test sample):** . . -

54814—2018

7 . °C (storage temperature range):

8 **F** (failure fraction F):

9 **F_y**, % (failure fraction at rated life F_y):

1

2 10 % / 50 %.
/ FgQ.

10 () /, (dominant wavelength of a colour stimulus

1931 .

1

2 = 0.3333 ₆ = 0.3333.

3

11 (type test):

12 ; (LED package):

1

2

13 , % (luminous flux maintenance factor):

1

() . ()

14 (standby power of the lumin-
are): () . ()

15 (supply voltage):

16 : (integral LED module):

17 (non-repairable LED luminaire):

()

()

2

18 f_{pjm} : °C (rated maximum performance temperature f_c):

1 .

1 (m , , gg ,
60000 .
2 , .
3 (.

19 Q. °C (rated maximum temperature f_c):
(, ,) , -
, , -
/ / /
/ / .

20 f_{qnn} : °C (rated maximum performance ambient temperature f_{qnn}):

1 r_{qnn} , r_{qgg} , 60000 .
2 f_{qm} ,

21 (rated value): , -

22 (rated life): , -
F_y , -

23 (ageing): -

24 (failure): .

1 — , — .
2 — , — .
25 F_d (heat output to the luminaire P_d): ,
t_c (.

1 F_d .
2 F_d = 0 , t_c.

26 ; (peak wavelength):

27 (forward direction): , -
, -
— -

54814—2018

28	U_F (forward voltage $U_{e,y}$),	-
	25 °C.	
29	f_p , °C (performance temperature f_p):	-
	1 .	
30	. °C (ambient performance temperature):	-
31	(LED luminaire):	-
32	(luminous efficacy q_v, η_j):	-
33	(luminous flux . .):	-
1	» $J \langle W \rangle_e(X)WA - V(X)dZ$.	-
	- 683 / ; ' -1700 / ; () / / —	-
2		-
34	; (light emitting diode; LED):	-
1	()	-
2		-
3		-
4		-
5		-
35	; (LED lamp):	-
1		-
2		-
36	; (retrofit LED lamp):	-
37	; (non-integrated LED lamp; LEDni lamp):	-
38	; (integrated LED lamp: LEDi lamp):	-
4		-

39 (semi-integrated LEO lamp; LEDsi lamp); -

40 (LED array): -

41 (LED tight source); -

42 (LED module): -

1 (1), (2) (3).
2

43 (semi-integrated LED module; LEDsi module): -

44 (non-integrated LED module; LEDni module): -

45 (integrated LED module; LEDi module): -

46 (family); -

47 (luminous life time of LED package)): -

48 $L_x(f_p)^4$ life time of LED module related to t_p temperature -

49 , °C (board temperature f_b): -

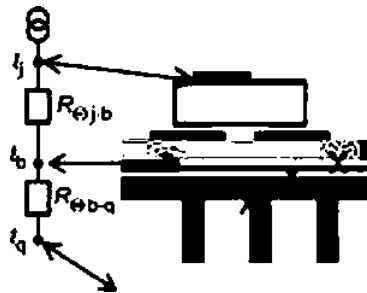
50 t_d , °C (heat transfer temperature f_d): -

54814—2018

51 t_j °C (junction temperature ()): k_{ev} / (temperature coefficient of the forward voltage kf_V):

52 R_{j-c} / (thermal resistance of a LED module R^A):

53



q — leunenpaiypa ; — ; X —

54 (type):

55 (angular subtense «>):

1

2

3 380 1400

56 (beam angle): 50 %

57 (power supply of the controlgear):

58 (control unit of the controlgear):

59
controlgear):

(controlgear for LED module. LED

1
2
3

60 (light colour designation):

R_a

()

54814—2018

2

4

, ()

()

7
10
26
8
9
21
11
3
3
41
60
13
52
35
36
37
38
39
40
1
42
16
44
45
43
14
27
15
28
32
23
24
33
55
31
17
34
12
34
41
12
35
36
37
38
39
40
42
1
5

16

44
45
43
46
53
47
22
46
19
16
20
49
29
30
50
51
25
54
56
57
56
59
59

f_p

54814—2018

ageing	23
angle beam	56
angular subtense	55
apparent source	3
bin	2
coefficient temperature of the (onward voltage	52
control unit of the oontrotgear	58
controlgear for LED module	59
designation light colour	60
direction forward	27
efficacy luminous	32
factor luminous Rux maintenance	13
failure	24
failure fraction	8
failure fraction at rated ffe	9
family	46
heat output to the luminaire	25
independent LED module	1
LED	34
LED array	40
LED controlgear	59
LED lamp	35
LED lamp integrated	38
LED lamp non-integrated	37
LED lamp retrofit	36
LED tamp semi-integrated	39
LED light source	41
LED luminaire	31
LED luminaire non-repairable	17
LED module	42
LED module built-in	5
LED module integral	16
LED module integrated	45
LED module non-integrated	44
LED module semi-integrated	43
LED package	12
LEDi lamp	38
LEDi module	45
LEDni lamp	37
LEDni module	44
LEDsi tamp	39
LEDsi module	43
life rated	22
light emitting diode	34
luminous flux	33
luminous life time of LED module related to fp temperature	48
luminous life time of LED package	47
power standby (of the luminare)	14
power supply of the controlgear	57
temperature ambient performance	30
temperature board	49
temperature heat transfer	50

temperature junction	51
temperature performance	29
temperature rated maximum	19
temperature rated maximum performance	18
temperature rated maximum performance ambient	20
temperature storage range	7
thermal resistance of a LED module	53
time stabilization	4
type	54
type test	11
type test sample	6
value rated	21
voltage supply	28
voltage forward	15
wavelength dominant	10
wavelength peak	26

54814—2018

721:535.241.46:006.354

29.140.40

, : , , , , ,

5—2018/76

. .
. .
. .

24.09.2018.

02.10.2018.

60*84'/^.

. . .1.86. . . .1.68.

« .117418 »
- , .31. .2.
www.gostinfo.ru info@gostinfo.ru