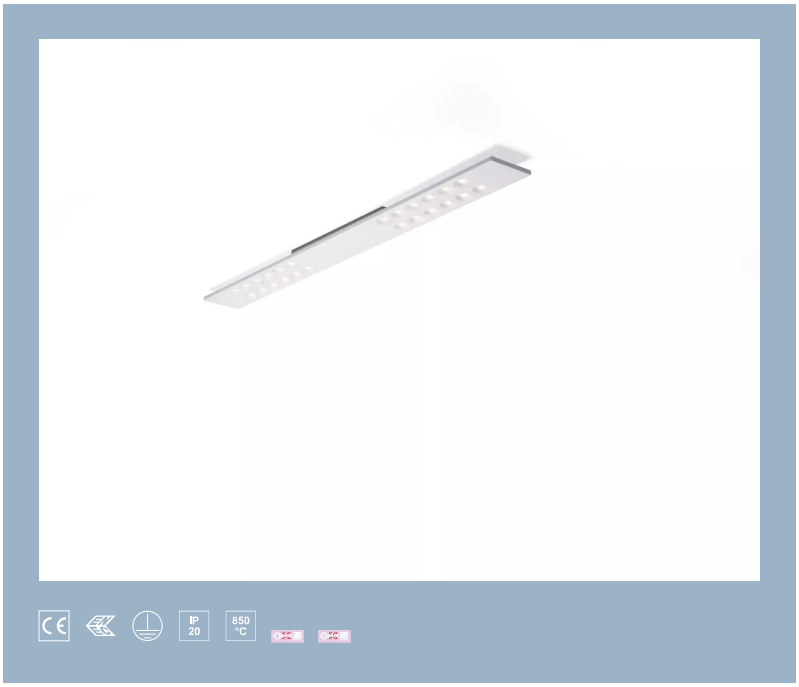
R710R1/LEDN2425SX1



surface-mounted luminaire • linear

Application : Workspaces, Classrooms, Auditoria

housing: lacquered sheet steel

light source : LED • 4000 K

optics : LED+LENS™ • polycarbonate (PC) lens and cup • medium wide-angle

UGR classification : <=16

luminous flux: 2600 lm

luminous efficacy : 130 lm/W

LLMF: 98% @ 50khrs (Tq=25°C)

Product information

Mechanical properties

dimensions : 1500 mm x 150 mm x 50 mm

colour: RAL9003 - white (textured)

type : individual luminaire

IP: IP20

Electrical properties

driver: not dimmable

power : 20 W

voltage : 220-240V

frequency : 50-60Hz AC

photobiological safety : EN 62471: RISK GROUP 1 UNLIMITED

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Luminance

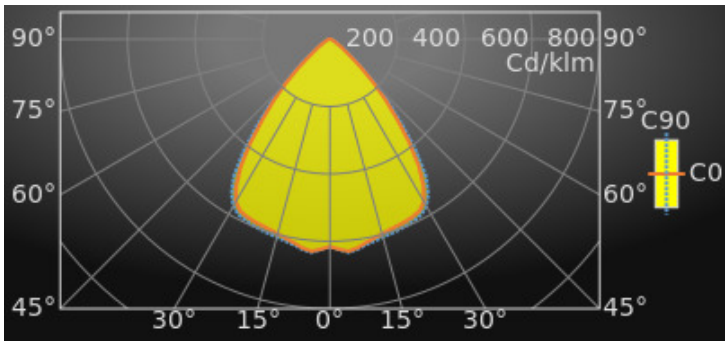
luminous flux : 2600 lm

luminous efficacy : 130 lm/W

luminance @ 65° = : 1000 cd/m²

UGR classification =: <=16

luminous area : 0.12 m²



Average Luminances (Cd/m²) for 2600lm

Gamma	C0	C30	C45	C60	C90
45°	5761	6104	5733	6172	6178
50°	2833	3008	2816	3094	3296
55°	1523	1501	1438	1575	1659
60°	889	928	878	950	950
65°	626	657	613	655	680
70°	497	514	490	515	537
75°	421	435	416	450	452
80°	355	383	353	388	417
85°	243	304	243	305	344

Classifications

CIE: 818 / 980 / 997 / 1000 / 1000

CIE FLUXCODE : 0.82 / 0.98 / 1.00 / 1.00 / 1.00

BZ: BZ1

CAE: Symmetrical

DIN: A60 (Nach Arbeitsblatt 7)

DIN_U: Phi u = 1.00

DIN_SU: Phi su = 0.75

UTE: 1.00 B + 0.00 T

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Lifetime Data (Tq=25.0°C)

Time(khrs)	LLMF(%)	Cx(%)
10	100	2
20	99	4
30	99	6
40	99	8
50	99	10
60	98	12

Luminous intensities in cd

Intensity for 2600lm

Gamma	C0	C45	C90
0°	1600.7	1600.7	1600.7
5°	1643.0	1641.9	1650.2
10°	1595.8	1603.4	1610.5
15°	1555.3	1568.6	1582.3
20°	1530.1	1541.3	1563.9
25°	1511.3	1524.8	1542.5
30°	1448.7	1490.0	1489.7
35°	1195.4	1255.9	1290.6
40°	804.0	830.6	875.2
45°	479.0	476.7	513.8
50°	214.2	212.8	249.1
55°	102.7	97.0	111.9
60°	52.3	51.6	55.8
65°	31.1	30.5	33.8
70°	20.0	19.7	21.6
75°	12.8	12.7	13.8
80°	7.3	7.2	8.5
85°	2.5	2.5	3.5
90°	0.4	0.6	0.9

UGR classification =

Corrected Glare Ratings for a Total Lamp Flux of 2600lm (S = 0.25H)

	Room Reflection Factors (%)									
Ceiling	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor	20	20	20	20	20	20	20	20	20	20
Room Dimensions	**Viewed Crosswise**					**Viewed Endwise**				
X = 2H Y = 2H	14.8	16.3	15.1	16.6	16.9	14.9	16.4	15.2	16.6	16.9
Y = 3H	14.7	16.1	15.1	16.3	16.6	14.8	16.1	15.1	16.4	16.7
Y = 4H	14.7	15.9	15.0	16.2	16.5	14.7	16.0	15.1	16.3	16.6
Y = 6H	14.6	15.7	15.0	16.1	16.4	14.7	15.8	15.0	16.1	16.4
Y = 8H	14.6	15.7	15.0	16.0	16.3	14.6	15.7	15.0	16.0	16.4
Y = 12H	14.6	15.6	14.9	15.9	16.3	14.6	15.6	15.0	16.0	16.3
X = 4H Y = 2H	14.6	15.9	15.0	16.2	16.5	14.7	15.9	15.0	16.2	16.5
Y = 3H	14.6	15.6	15.0	15.9	16.3	14.6	15.7	15.0	16.0	16.3
Y = 4H	14.6	15.5	15.0	15.8	16.2	14.6	15.5	15.0	15.9	16.2
Y = 6H	14.5	15.3	14.9	15.7	16.1	14.6	15.4	15.0	15.7	16.1
Y = 8H	14.5	15.2	14.9	15.6	16.0	14.5	15.3	15.0	15.7	16.1
Y = 12H	14.5	15.1	14.9	15.6	16.0	14.5	15.2	15.0	15.6	16.1
X = 8H Y = 4H	14.5	15.2	14.9	15.6	16.0	14.5	15.3	15.0	15.6	16.1
Y = 6H	14.4	15.1	14.9	15.5	16.0	14.5	15.1	15.0	15.5	16.0
Y = 8H	14.4	15.0	14.9	15.4	15.9	14.5	15.0	15.0	15.5	16.0
Y = 12H	14.4	14.9	14.9	15.4	15.9	14.5	14.9	14.9	15.4	15.9
X = 12H Y = 4H	14.4	15.1	14.9	15.5	16.0	14.5	15.2	14.9	15.6	16.0
Y = 6H	14.4	15.0	14.9	15.4	15.9	14.5	15.0	14.9	15.5	15.9
Y = 8H	14.4	14.9	14.9	15.4	15.9	14.4	14.9	14.9	15.4	15.9
	UGR Variations with Observer Position for Luminaire Spacings S									
S = 1.0H	+2.6		-5.6			+2.5		-5.8		
S = 1.5H	+4.7		-7.7			+4.7		-7.6		
S = 2.0H	+6.6		-8.6			+6.7		-8.6		

Colour properties

Correlated Colour Temperature : 4000

Ra: CRI (Ra) 80

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Efficiency

Utilisation Factors according to IES (%)

	Room Reflection Factors (%)									
Ceiling	80	80	80	50	50	50	30	30	30	0
Walls	50	30	10	50	30	10	50	30	10	0
Floor	20	20	20	20	20	20	20	20	20	0
RCR = 1	109	107	106	103	101	100	99	98	97	91
2	100	96	93	94	92	90	91	89	87	83
3	91	86	83	87	83	80	84	81	79	75
4	84	78	74	80	76	72	78	74	71	68
5	77	71	66	74	69	65	72	68	64	62
6	71	64	60	68	63	59	67	62	59	56
7	66	59	54	63	58	54	62	57	53	51
8	61	54	50	59	53	49	58	53	49	47
9	57	50	46	55	49	45	54	49	45	43
10	53	46	42	51	46	42	50	45	42	40

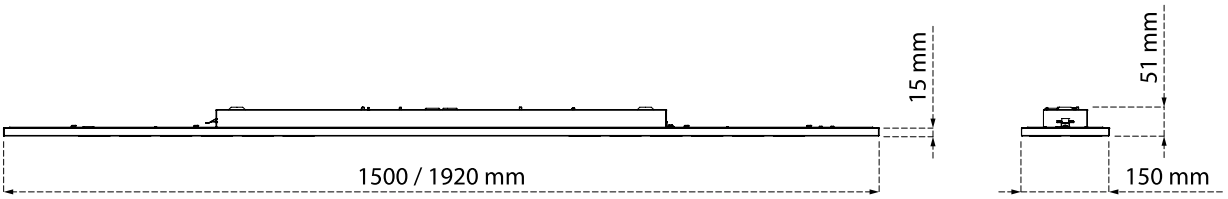
Utilisation Factors according to LiTG (%)

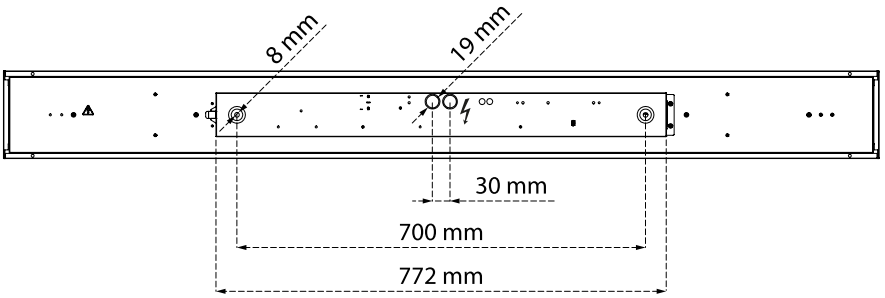
	Room Reflection Factors (%)									
Ceiling	80	80	80	50	50	50	50	50	30	0
Walls	50	30	50	30	50	30	50	30	30	0
Floor	30	30	10	10	30	30	10	10	10	0
k = 0.60	65	57	62	56	63	56	60	55	55	50
0.80	77	69	72	66	74	68	70	66	65	60
1.00	84	77	78	73	81	75	76	72	71	67
1.25	94	87	86	82	89	84	84	80	80	75
1.50	99	93	90	86	94	89	88	84	84	79
2.00	106	100	94	91	99	95	92	89	88	84
2.50	111	105	98	95	103	99	95	93	92	88
3.00	115	110	100	98	106	103	98	96	95	91
4.00	118	114	102	100	108	105	99	97	96	92
5.00	120	117	103	102	110	108	100	99	98	94

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Dimensional drawing





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