R3110/LEDW430DX1



surface-mounted luminaire • linear

Application : Workspaces, Classrooms

housing: lacquered sheet steel

light source : LED • 3000 K

optics : Shielded lens • polycarbonate (PC) with aluminium thin film • medium wide-angle

UGR classification : <=19

luminous flux: 3000 lm

luminous efficacy : 143 lm/W

LLMF: 98% @ 50khrs (Tq=25°C)

Product information

Mechanical properties

dimensions : 1380 mm x 260 mm x 35 mm

colour: RAL9003 - white (textured)

type : individual luminaire

IP: IP20

Electrical properties

driver: DALI dimmable

power : 21 W

voltage : 220-240V

frequency : 50-60Hz AC

photobiological safety : EN 62471: RISK GROUP 1 UNLIMITED

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Luminance

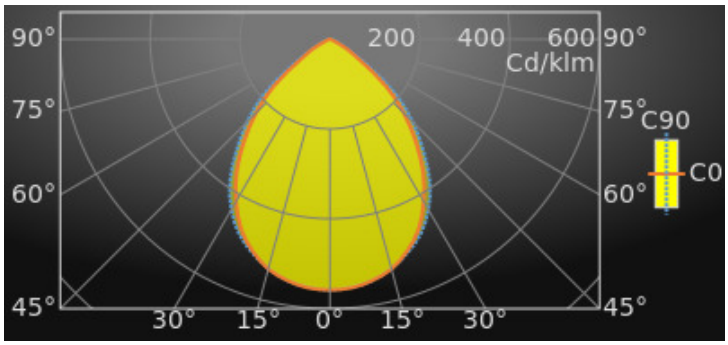
luminous flux : 3000 lm

luminous efficacy : 143 lm/W

luminance @ 65° = : 3000 cd/m²

UGR classification =: <=19

luminous area : 0.12 m²



Average Luminances (Cd/m²) for 3000lm

Gamma	C0	C30	C45	C60	C90
45°	8287	9445	9958	9624	9308
50°	6394	7971	8588	8319	7583
55°	3609	5736	7117	6723	4685
60°	2254	3512	4919	3722	2231
65°	686	1389	2223	1767	1540
70°	396	503	739	1097	1001
75°	287	330	405	626	824
80°	79	168	234	339	656
85°	1	0	12	67	464

Classifications

CIE: 681 / 963 / 997 / 1000 / 1000

CIE FLUXCODE : 0.68 / 0.96 / 1.00 / 1.00 / 1.00

BZ: BZ2

CAE: Symmetrical

DIN: A50 (Nach Arbeitsblatt 7)

DIN_U: Phi u = 1.00

DIN_SU: Phi su = 0.70

UTE: 1.00 C + 0.00 T

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Lifetime Data (Tq=25.0°C)

Time(khrs)	LLMF(%)	Cx(%)
10	99	1
20	99	2
30	99	3
40	98	4
50	98	5
60	98	6

Luminous intensities in cd

Intensity for 3000lm

Gamma	C0	C45	C90
0°	1675.7	1675.7	1675.7
5°	1666.9	1662.6	1661.2
10°	1637.1	1635.2	1635.5
15°	1588.6	1586.1	1583.8
20°	1506.8	1516.1	1517.4
25°	1400.8	1428.9	1435.3
30°	1251.5	1306.4	1315.0
35°	1082.9	1171.0	1163.2
40°	890.1	1002.5	969.6
45°	696.1	836.5	781.9
50°	488.3	655.8	579.0
55°	245.9	485.0	319.2
60°	133.9	292.2	132.5
65°	34.4	111.6	77.3
70°	16.1	30.0	40.7
75°	8.8	12.4	25.3
80°	1.6	4.8	13.5
85°	0.0	0.1	4.8
90°	0.0	0.0	0.0

UGR classification =

Corrected Glare Ratings for a Total Lamp Flux of 3000lm (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	17.3	18.9	17.6	19.1	19.4	17.7	19.3	18.0	19.6	19.8
Y = 3H	17.1	18.6	17.5	18.8	19.1	17.7	19.1	18.0	19.4	19.7
Y = 4H	17.0	18.4	17.4	18.7	19.0	17.6	18.9	18.0	19.2	19.5
Y = 6H	17.0	18.2	17.3	18.5	18.8	17.5	18.8	17.9	19.1	19.4
Y = 8H	16.9	18.1	17.3	18.4	18.8	17.5	18.7	17.9	19.0	19.4
Y = 12H	16.9	18.0	17.3	18.3	18.7	17.5	18.6	17.9	18.9	19.3
X = 4H Y = 2H	17.4	18.8	17.8	19.1	19.4	17.8	19.1	18.2	19.4	19.7
Y = 3H	17.3	18.4	17.7	18.8	19.1	17.8	18.9	18.2	19.2	19.6
Y = 4H	17.2	18.2	17.6	18.6	18.9	17.8	18.7	18.2	19.1	19.5
Y = 6H	17.2	18.0	17.6	18.4	18.8	17.7	18.6	18.2	19.0	19.4
Y = 8H	17.1	17.9	17.6	18.3	18.7	17.7	18.5	18.1	18.9	19.3
Y = 12H	17.1	17.8	17.5	18.2	18.7	17.7	18.4	18.1	18.8	19.3
X = 8H Y = 4H	17.1	17.9	17.6	18.3	18.8	17.7	18.5	18.1	18.9	19.3
Y = 6H	17.1	17.7	17.5	18.2	18.6	17.7	18.3	18.1	18.7	19.2
Y = 8H	17.1	17.6	17.5	18.1	18.6	17.6	18.2	18.1	18.7	19.1
Y = 12H	17.0	17.5	17.5	18.0	18.5	17.6	18.1	18.1	18.6	19.1
X = 12H Y = 4H	17.1	17.8	17.6	18.3	18.7	17.6	18.4	18.1	18.8	19.2
Y = 6H	17.1	17.6	17.5	18.1	18.6	17.6	18.2	18.1	18.6	19.1
Y = 8H	17.0	17.5	17.5	18.0	18.5	17.6	18.1	18.1	18.6	19.1
	UGR Variations with Observer Position for Luminaire Spacings S									
S = 1.0H	+1.0		-2.3			+0.7		-1.4		
S = 1.5H	+2.2		-7.4			+2.1		-6.4		
S = 2.0H	+3.6		-14.2			+3.3		-8.1		

Colour properties

Correlated Colour Temperature : 3000

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	108	106	104	102	100	99	98	97	96	90
2	97	93	90	92	89	87	89	86	84	80
3	88	83	79	83	79	76	81	77	75	71
4	80	74	69	76	71	67	74	70	66	63
5	72	66	61	69	64	60	67	63	59	56
6	66	59	54	64	58	54	62	57	53	50
7	61	54	49	59	53	48	57	52	48	46
8	56	49	44	54	48	44	53	47	43	41
9	52	45	40	50	44	40	49	44	40	38
10	48	41	37	47	41	37	46	40	36	35

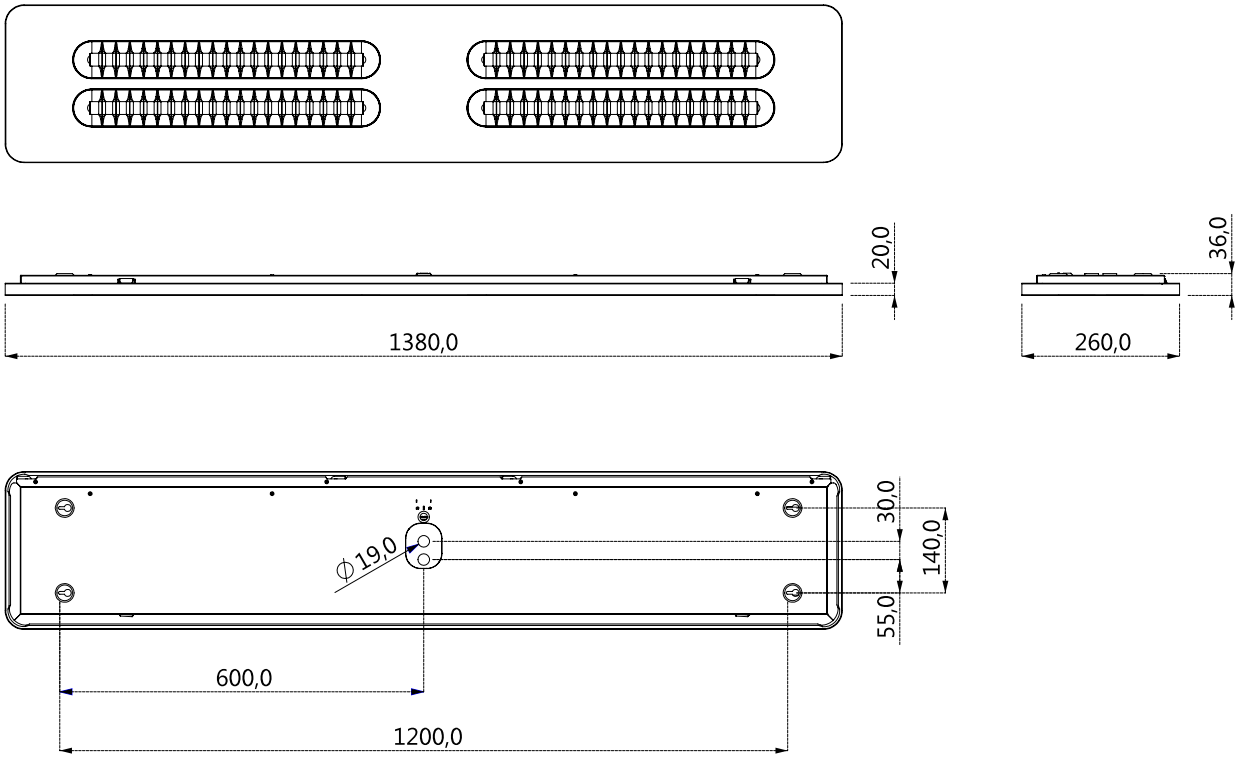
Utilisation Factors according to LiTG (%)

	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	59	51	56	50	57	50	55	49	49	43
0.80	71	63	67	60	68	61	65	60	59	54
1.00	80	72	74	68	76	69	72	67	66	61
1.25	90	82	82	77	85	79	80	76	75	70
1.50	95	88	87	82	90	84	84	80	79	75
2.00	103	96	92	88	96	91	89	86	85	80
2.50	108	102	96	92	100	96	93	90	89	85
3.00	112	108	98	96	104	101	96	94	92	88
4.00	116	112	100	98	107	104	97	96	94	90
5.00	119	115	102	100	109	106	99	98	96	93

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Dimensional drawing



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