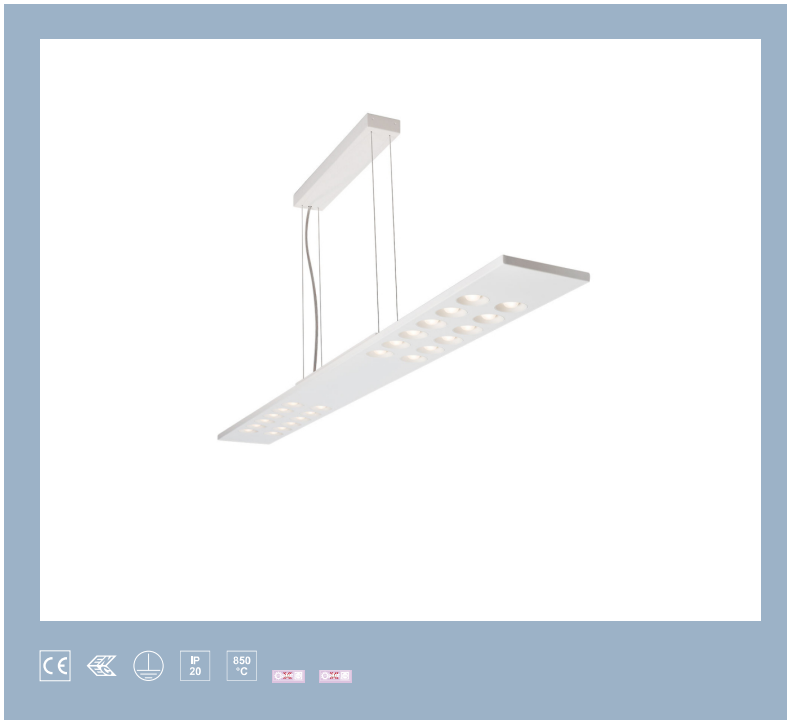


R711R1/LEDN2435DX1



suspended 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: 3600 lm

luminous efficacy : 133 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: DALI dimmable

power : 27 W

voltage : 220-240V

frequency : 50-60Hz AC

photobiological safety : EN 62471: RISK GROUP 1
UNLIMITED

Luminance

luminous flux : 3600 lm

luminous efficacy : 133 lm/W

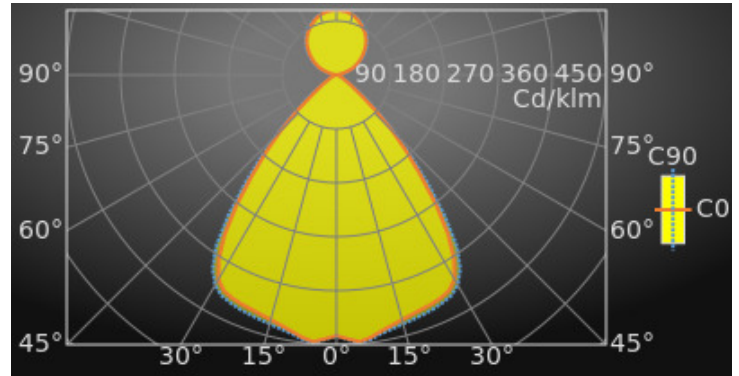
luminance @ 65° ≤ : 1000 cd/m²

UGR classification ≤: ≤16

luminous area : 0.12 m²

Average Luminances (Cd/m²) for 3600lm

Gamma	C0	C30	C45	C60	C90
45°	5636	5972	5609	6039	6045
50°	2772	2943	2755	3027	3225
55°	1490	1469	1407	1541	1624
60°	870	908	859	929	929
65°	613	642	599	641	665
70°	486	503	480	504	525
75°	412	426	407	440	443
80°	347	375	346	379	408
85°	238	297	238	299	337



Classifications

CIE: 578 / 692 / 704 / 707 / 1000

CIE FLUXCODE : 0.82 / 0.98 / 1.00 / 0.71 / 1.00

BZ: BZ1

CAE: Symmetrical

DIN: B62 (Nach Arbeitsblatt 7 und 8)

DIN_U: Phi u = 0.71

DIN_SU: Phi su = 0.75

UTE: 0.71 B + 0.29 T

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

UGR classification <=

Corrected Glare Ratings for a Total Lamp Flux of 3600lm (S = 0.25H)

Room Dimensions	Room Reflection Factors (%)														
	Ceiling	Walls	Floor	70	70	50	50	30	30	70	70	50	50	30	
	70	70	50	50	30	70	70	50	50	30	70	70	50	50	30
	50	30	50	30	30	50	30	50	30	50	30	50	30	30	50
	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
	Viewed Crosswise					Viewed Endwise									
X = 2H Y = 2H	13.0	14.0	13.6	14.7	15.3	13.0	14.1	13.7	14.8	15.4					
Y = 3H	12.8	13.7	13.5	14.4	15.1	12.8	13.8	13.5	14.5	15.1					
Y = 4H	12.7	13.6	13.4	14.3	14.9	12.7	13.6	13.5	14.3	15.0					
Y = 6H	12.6	13.4	13.3	14.1	14.8	12.6	13.4	13.4	14.2	14.8					
Y = 8H	12.5	13.3	13.3	14.0	14.7	12.6	13.4	13.3	14.1	14.8					
Y = 12H	12.5	13.2	13.2	14.0	14.7	12.5	13.3	13.3	14.0	14.7					
X = 4H Y = 2H	12.7	13.5	13.4	14.3	14.9	12.7	13.6	13.4	14.3	15.0					
Y = 3H	12.5	13.2	13.3	14.0	14.7	12.6	13.3	13.3	14.0	14.7					
Y = 4H	12.4	13.0	13.2	13.8	14.5	12.5	13.1	13.2	13.9	14.6					
Y = 6H	12.3	12.9	13.1	13.7	14.4	12.4	12.9	13.2	13.7	14.5					
Y = 8H	12.3	12.8	13.1	13.6	14.4	12.3	12.8	13.1	13.6	14.4					
Y = 12H	12.2	12.7	13.0	13.5	14.3	12.3	12.7	13.1	13.6	14.3					
X = 8H Y = 4H	12.3	12.8	13.1	13.6	14.3	12.3	12.8	13.1	13.6	14.4					
Y = 6H	12.2	12.6	13.0	13.4	14.2	12.2	12.6	13.1	13.5	14.3					
Y = 8H	12.1	12.5	13.0	13.3	14.2	12.2	12.5	13.0	13.4	14.2					
Y = 12H	12.1	12.4	12.9	13.3	14.1	12.1	12.4	13.0	13.3	14.2					
X = 12H Y = 4H	12.2	12.6	13.0	13.5	14.3	12.2	12.7	13.1	13.5	14.3					
Y = 6H	12.1	12.5	13.0	13.3	14.1	12.2	12.5	13.0	13.4	14.2					
Y = 8H	12.1	12.4	12.9	13.3	14.1	12.1	12.4	13.0	13.3	14.2					
	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								

Luminous intensities in cd

Intensity for 3600lm

Gamma	C0	C45	C90	Gamma	C0	C45	C90
0°	1566.1	1566.1	1566.1	90°	0.4	0.6	0.9
5°	1607.5	1606.4	1614.6	95°	10.2	7.8	4.9
10°	1561.3	1568.7	1575.7	100°	9.7	28.5	27.2
15°	1521.7	1534.7	1548.1	105°	45.6	61.7	57.8
20°	1497.0	1508.0	1530.2	110°	87.5	93.0	90.1
25°	1478.6	1491.9	1509.2	115°	121.0	126.8	123.9
30°	1417.4	1457.8	1457.5	120°	153.9	160.6	158.4
35°	1169.6	1228.8	1262.7	125°	186.3	194.8	194.3
40°	786.6	812.6	856.2	130°	216.6	227.0	226.2
45°	468.7	466.4	502.7	135°	249.0	257.9	258.3
50°	209.5	208.2	243.8	140°	276.7	284.3	285.2
55°	100.5	94.9	109.5	145°	301.5	308.8	311.3
60°	51.1	50.5	54.6	150°	322.8	330.6	330.4
65°	30.5	29.8	33.1	155°	341.2	349.5	348.4
70°	19.6	19.3	21.1	160°	358.8	364.1	363.4
75°	12.5	12.4	13.5	165°	372.8	375.9	374.6
80°	7.1	7.1	8.3	170°	382.2	382.9	382.5
85°	2.4	2.4	3.5	175°	386.9	387.6	387.4
90°	0.4	0.6	0.9	180°	388.5	388.5	388.5

Colour properties

Correlated Colour Temperature : 4000

Ra: 80



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	102	100	99	87	86	85	78	77	77	65
2	93	89	87	80	77	76	72	70	69	58
3	84	80	76	73	70	67	66	64	62	53
4	77	71	67	67	63	60	61	58	55	48
5	70	64	60	61	57	54	56	53	50	43
6	64	58	53	56	52	48	52	48	45	40
7	59	52	48	52	47	44	48	44	41	36
8	54	48	43	48	43	40	45	40	37	33
9	50	43	39	45	40	36	42	37	34	30
10	46	40	36	42	37	33	39	35	32	28

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	56	49	53	47	50	45	48	44	42	35
0.80	67	59	63	57	60	54	57	53	50	43
1.00	75	67	69	64	66	60	62	58	55	47
1.25	83	76	76	71	73	68	69	65	61	53
1.50	89	82	80	76	77	72	72	69	64	56
2.00	96	89	85	82	82	78	76	74	68	60
2.50	101	95	89	86	86	82	79	77	71	62
3.00	105	100	92	89	89	85	81	80	74	64
4.00	108	104	94	91	91	88	83	81	75	65
5.00	111	108	96	94	93	91	84	83	77	67

Available accessories

R7H11/100-3 *Suspension set for minimalist mounting - 3 pole - max. 1 m*

R7H11/100-5 *Suspension set for minimalist mounting - 5 pole - max. 1 m*

R7H11/100-7 *Suspension set for minimalist mounting - 7 pole - max. 1 m*

R7H12/100-3X1 *Suspension set with ceiling cap (RAL9003-white) - 3 pole - max. 1 m*

R7H12/100-3X2 *Suspension set with ceiling cap (RAL9006-white aluminium) - 3 pole - max. 1 m*

R7H12/100-5X1 *Suspension set with ceiling cap (RAL9003-white) - 5 pole - max. 1 m*

R7H12/100-5X2 *Suspension set with ceiling cap (RAL9006-white aluminium) - 5 pole - max. 1 m*

R7H12/100-7X1 *Suspension set with ceiling cap (RAL9003-white) - 7 pole - max. 1 m*

R7H12/100-7X2 *Suspension set with ceiling cap (RAL9006-white aluminium) - 7 pole - max. 1 m*

R7H12/200-3X1 *Suspension set with ceiling cap (RAL9003-white) - 3 pole - max. 2 m*

Dimensional drawing

