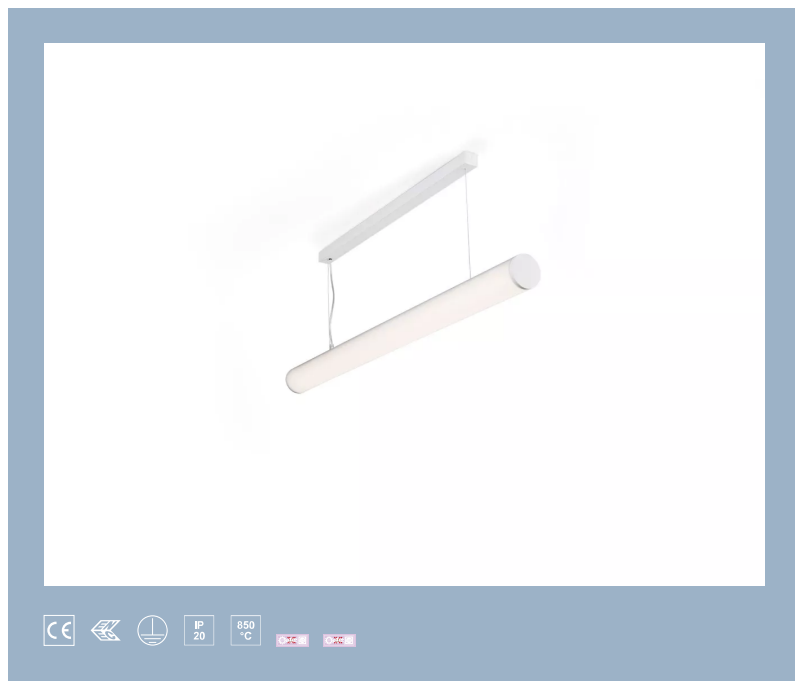


R821R1/LEDN25D



suspended luminaire • linear

Application : General office area's, General education area's, General healthcare area's

light source : LED • 4000 K

optics : HaloOptics diffuser • polycarbonate (PC) HaloOptics® • wide-angle

UGR classification : <=22

luminous flux: 2550 lm

luminous efficacy : 128 lm/W

LLMF: 98% @ 50khrs (Tq=25°C)

Product information

Mechanical properties

dimensions : 1162 mm x 80 mm x 121 mm

colour: RAL9003 - white (textured)

type : individual luminaire

IP: IP20

Electrical properties

driver: DALI dimmable

power : 20 W

voltage : 220-240V

frequency : 50-60Hz AC

photobiological safety : EN 62471: RISK GROUP 0 UNLIMITED

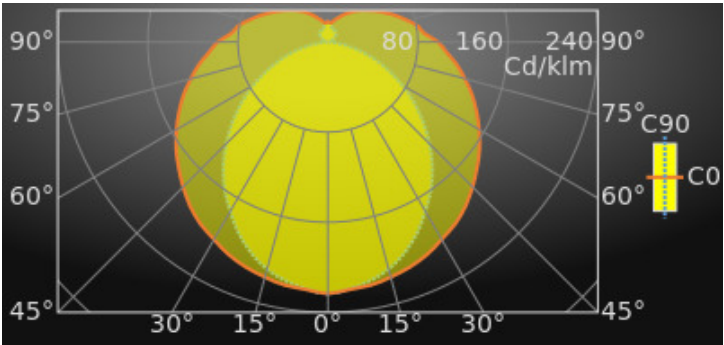
Luminance

luminous flux : 2550 lm

luminous efficacy : 128 lm/W

UGR classification =: <=22

luminous area : 0.09 m²



Average Luminances (Cd/m²) for 2550lm

Gamma	C0	C30	C45	C60	C90
45°	3604	3596	3614	3745	4996
50°	3449	3421	3420	3503	4763
55°	3320	3267	3226	3266	4514
60°	3196	3115	3053	3041	4224
65°	3090	2991	2899	2828	3913
70°	3000	2877	2772	2646	3566
75°	2906	2784	2664	2494	3131
80°	2844	2721	2580	2372	2623
85°	2772	2650	2509	2295	1841

Classifications

CIE: 300 / 522 / 679 / 788 / 1000

CIE FLUXCODE : 0.38 / 0.66 / 0.86 / 0.79 / 1.00

BZ: BZ10/1.25/BZ5/1.5/BZ10

CAE: CAE 4/5°/CAE 3/25°/CAE 2/75°/CAE 3

DIN: B30 (Nach Arbeitsblatt 7 und 8)

DIN_U: Phi u = 0.79

DIN_SU: Phi su = 0.45

UTE: 0.79 H + 0.21 T



Lifetime Data (Tq=25.0°C)

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

Luminous intensities in cd

Intensity for 2550lm

Gamma	C0	C45	C90	Gamma	C0	C45	C90
0°	569.4	569.4	569.4	90°	250.1	162.7	3.1
5°	562.2	561.2	560.9	95°	219.8	140.5	2.8
10°	558.7	553.8	549.1	100°	207.4	130.9	4.6
15°	551.0	542.2	532.4	105°	187.3	118.0	7.1
20°	542.4	526.0	507.9	110°	169.8	106.5	10.4
25°	531.2	504.7	477.6	115°	152.3	96.6	14.0
30°	516.0	481.2	442.1	120°	137.3	88.1	17.4
35°	502.8	455.8	407.4	125°	123.7	80.8	20.1
40°	485.3	427.6	369.1	130°	111.7	74.3	23.6
45°	463.9	397.9	325.5	135°	101.0	68.0	26.9
50°	441.7	369.0	282.1	140°	90.8	62.8	28.8
55°	419.9	338.4	238.6	145°	80.2	58.3	30.2
60°	396.0	308.7	194.7	150°	71.2	53.5	29.7
65°	372.0	279.9	152.4	155°	62.6	49.4	30.4
70°	347.8	252.8	112.4	160°	55.3	45.3	29.5
75°	321.6	227.1	74.7	165°	49.3	41.8	35.0
80°	297.2	202.8	42.0	170°	44.2	41.3	40.7
85°	270.4	179.0	14.8	175°	44.2	43.9	44.3
90°	250.1	162.7	3.1	180°	46.4	46.4	46.4

UGR classification =

Corrected Glare Ratings for a Total Lamp Flux of 2550lm (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	15.9	17.3	16.4	17.9	18.5	14.6	16.0	15.2	16.6	17.2
Y = 3H	17.9	19.2	18.5	19.9	20.5	15.8	17.2	16.5	17.8	18.4
Y = 4H	18.9	20.2	19.6	20.8	21.5	16.3	17.5	16.9	18.2	18.8
Y = 6H	19.9	21.1	20.6	21.8	22.4	16.6	17.7	17.2	18.4	19.0
Y = 8H	20.4	21.6	21.1	22.2	22.9	16.6	17.8	17.3	18.4	19.1
Y = 12H	20.9	22.0	21.6	22.7	23.3	16.6	17.7	17.3	18.4	19.0
X = 4H Y = 2H	16.3	17.6	17.0	18.2	18.9	15.4	16.6	16.0	17.3	17.9
Y = 3H	18.7	19.7	19.3	20.4	21.1	16.9	18.0	17.5	18.6	19.3
Y = 4H	19.9	20.8	20.5	21.5	22.2	17.5	18.5	18.2	19.2	19.8
Y = 6H	21.1	22.0	21.8	22.7	23.4	17.9	18.8	18.6	19.5	20.2
Y = 8H	21.7	22.5	22.4	23.2	23.9	18.0	18.9	18.8	19.6	20.3
Y = 12H	22.2	23.0	22.9	23.7	24.4	18.1	18.9	18.8	19.6	20.3
X = 8H Y = 4H	20.1	21.0	20.9	21.7	22.4	18.1	19.0	18.9	19.7	20.4
Y = 6H	21.6	22.3	22.3	23.1	23.8	18.9	19.6	19.6	20.3	21.1
Y = 8H	22.3	23.0	23.1	23.7	24.5	19.1	19.8	19.9	20.5	21.3
Y = 12H	23.1	23.7	23.9	24.4	25.2	19.3	19.9	20.1	20.7	21.4
X = 12H Y = 4H	20.1	20.9	20.9	21.7	22.4	18.3	19.0	19.0	19.8	20.5
Y = 6H	21.7	22.3	22.4	23.1	23.8	19.2	19.8	19.9	20.6	21.3
Y = 8H	22.5	23.1	23.3	23.8	24.6	19.5	20.1	20.3	20.9	21.7
	UGR Variations with Observer Position for Luminaire Spacings S									
S = 1.0H	+0.1				-0.1		+0.1		-0.1	
S = 1.5H	+0.2				-0.2		+0.1		-0.2	
S = 2.0H	+0.2				-0.3		+0.3		-0.4	

Colour properties

Correlated Colour Temperature : 4000

Ra: CRI (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	94	90	88	81	79	77	74	72	70	60
2	81	75	70	69	65	62	63	59	56	48
3	70	63	58	60	55	51	55	50	47	39
4	62	54	48	53	47	43	48	43	39	33
5	55	47	41	48	41	37	43	38	34	28
6	50	41	35	43	36	32	39	34	29	24
7	45	36	31	39	32	28	36	30	26	22
8	41	33	27	36	29	25	33	27	23	19
9	37	29	24	33	26	22	30	25	21	17
10	34	27	22	30	24	20	28	22	19	15

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	41	32	39	31	36	29	35	28	26	19
0.80	51	41	48	39	44	37	42	36	33	25
1.00	59	49	55	46	51	43	48	42	39	30
1.25	67	57	62	54	58	51	55	49	45	36
1.50	74	64	67	59	63	56	59	54	50	40
2.00	82	73	74	67	70	64	65	60	56	46
2.50	89	80	79	72	76	70	70	65	61	51
3.00	94	86	82	77	80	74	74	69	65	54
4.00	100	93	86	82	84	80	77	74	68	58
5.00	104	98	89	85	88	84	80	77	72	61

Available accessories

R8H10 *Coupling piece for in-line mounting*

Dimensional drawing

