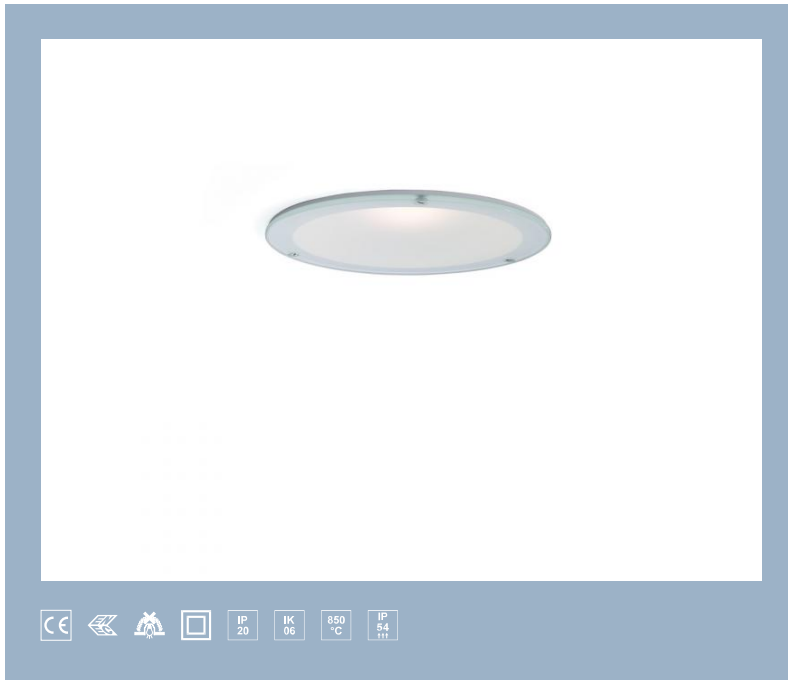


# D91/LEDN10DX1T1



## luminária de encastrar • redonda

aplicação : Escritório, Saúde, Ensino, Horeca, Retalho, Lazer

base: policarbonato

fonte de luz : módulo LED • 4000 K

óptica : Reflector e lente • polycarbonate (PC) with aluminium thin film, satin look • extensiva

classificação UGR : <=19

fluxo luminoso: 1200 lm

fluxo luminoso específico : 117 lm/W

LLMF: 99% @ 50khrs (Tq=25°C)

## Product information

### Medidas

dimensões : 190 mm x 107 mm

medida encastrável : 175 mm x 107 mm

cor: RAL9003 - branco

moldura: moldura espessa

tipo : luminária individual

IP: IP20, IP54 a partir de baixo

IK: IK06

### Equipamento eléctrico

driver: DALI regulável

consumo de corrente : 10.3 W

tensão : 220-240V

frequência : 50-60Hz AC/DC

segurança fotobiológica : EN 62471: RISK GROUP 1 UNLIMITED

## Luminance

fluxo luminoso : 1200 lm

fluxo luminoso específico : 117 lm/W

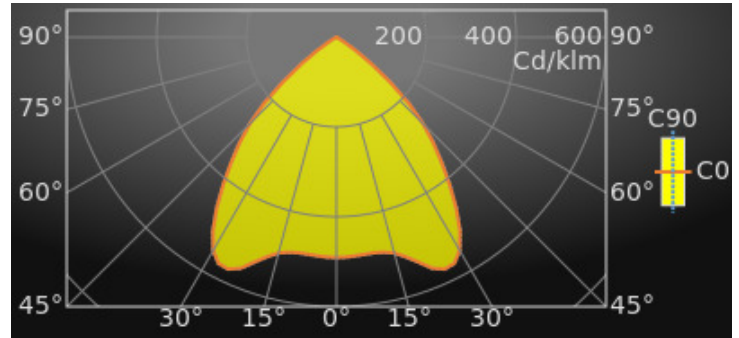
luminância @ 65° : 1000 cd/m<sup>2</sup>

classificação UGR <=19

área luminosa : 0.02 m<sup>2</sup>

Average Luminances (Cd/m<sup>2</sup>) for 1200lm

Gamma	C0	C30	C45	C60	C90
45°	24197	24197	24197	24197	24197
50°	15367	15367	15367	15367	15367
55°	5755	5755	5755	5755	5755
60°	805	805	805	805	805
65°	339	339	339	339	339
70°	229	229	229	229	229
75°	146	146	146	146	146
80°	92	92	92	92	92
85°	102	102	102	102	102



## Classificações

CIE: 771 / 997 / 1000 / 1000 / 1000

CIE FLUXCODE : 0.77 / 1.00 / 1.00 / 1.00 / 1.00

BZ: BZ2/0.8/BZ1

CAE: Symmetrical

DIN: A60 (Nach Arbeitsblatt 7)

DIN\_U: Phi u = 1.00

DIN\_SU: Phi su = 0.74

UTE: 1.00 B + 0.00 T

Lifetime Data (Tq=25.0°C)

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

Intensidades luminosas em cd

Intensity for 1200lm

Gamma	C0	C45	C90
0°	588.3	588.3	588.3
5°	586.3	586.3	586.3
10°	585.1	585.1	585.1
15°	596.9	596.9	596.9
20°	639.5	639.5	639.5
25°	683.5	683.5	683.5
30°	657.2	657.2	657.2
35°	557.6	557.6	557.6
40°	437.0	437.0	437.0
45°	327.0	327.0	327.0
50°	188.8	188.8	188.8
55°	63.1	63.1	63.1
60°	7.7	7.7	7.7
65°	2.7	2.7	2.7
70°	1.5	1.5	1.5
75°	0.7	0.7	0.7
80°	0.3	0.3	0.3
85°	0.2	0.2	0.2
90°	0.0	0.0	0.0

classificação UGR

Corrected Glare Ratings for a Total Lamp Flux of 1200lm (S = 0.25H)

Ceiling Walls Floor	Room Reflection Factors (%)									
	70	70	50	50	30	70	70	50	50	30
Room Dimensions	Viewed Crosswise					Viewed Endwise				
X = 2H Y = 2H	19.9	21.5	20.2	21.7	22.0	19.9	21.5	20.2	21.7	22.0
Y = 3H	19.7	21.1	20.0	21.4	21.7	19.7	21.1	20.0	21.4	21.7
Y = 4H	19.6	20.9	20.0	21.2	21.5	19.6	20.9	20.0	21.2	21.5
Y = 6H	19.5	20.7	19.9	21.0	21.4	19.5	20.7	19.9	21.0	21.4
Y = 8H	19.5	20.6	19.9	21.0	21.3	19.5	20.6	19.9	21.0	21.3
Y = 12H	19.5	20.6	19.9	20.9	21.2	19.5	20.6	19.9	20.9	21.2
X = 4H Y = 2H	19.7	21.0	20.0	21.2	21.5	19.7	21.0	20.0	21.2	21.5
Y = 3H	19.5	20.6	19.9	20.9	21.3	19.5	20.6	19.9	20.9	21.3
Y = 4H	19.4	20.4	19.8	20.7	21.1	19.4	20.4	19.8	20.7	21.1
Y = 6H	19.4	20.2	19.8	20.6	21.0	19.4	20.2	19.8	20.6	21.0
Y = 8H	19.3	20.1	19.8	20.5	20.9	19.3	20.1	19.8	20.5	20.9
Y = 12H	19.3	20.0	19.8	20.4	20.9	19.3	20.0	19.8	20.4	20.9
X = 8H Y = 4H	19.3	20.1	19.8	20.5	20.9	19.3	20.1	19.8	20.5	20.9
Y = 6H	19.3	19.9	19.7	20.3	20.8	19.3	19.9	19.7	20.3	20.8
Y = 8H	19.2	19.8	19.7	20.2	20.7	19.2	19.8	19.7	20.2	20.7
Y = 12H	19.2	19.7	19.7	20.2	20.7	19.2	19.7	19.7	20.2	20.7
X = 12H Y = 4H	19.3	20.0	19.8	20.4	20.9	19.3	20.0	19.8	20.4	20.9
Y = 6H	19.2	19.8	19.7	20.2	20.7	19.2	19.8	19.7	20.2	20.7
Y = 8H	19.2	19.7	19.7	20.2	20.7	19.2	19.7	19.7	20.2	20.7
UGR Variations with Observer Position for Luminaire Spacings S										
S = 1.0H	+1.8		-7.0			+1.8		-7.0		
S = 1.5H	+3.6		21.5			+3.6		21.5		
S = 2.0H	+5.6		23.3			+5.6		23.3		



## Colour properties

Correlated Colour Temperature : 4000

Ra: 80

## Eficiência

Utilisation Factors according to IES (%)

	Room Reflection Factors (%)									
	80	80	80	50	50	50	30	30	30	0
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	99	96	93	94	91	89	91	89	87	82
3	90	85	82	86	82	79	83	80	78	74
4	82	77	73	79	74	71	77	73	70	66
5	75	69	65	72	67	63	70	66	63	60
6	69	62	58	66	61	57	65	60	56	54
7	63	57	52	61	56	51	60	55	51	49
8	59	52	47	57	51	47	55	50	46	44
9	54	47	43	52	47	42	51	46	42	40
10	50	44	39	49	43	39	48	42	39	37

Utilisation Factors according to LiTG (%)

	Room Reflection Factors (%)									
	80	80	80	50	50	50	50	50	30	0
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	61	54	58	52	59	53	57	52	51	46
0.80	74	67	70	64	71	65	68	63	63	57
1.00	83	75	77	71	79	73	75	70	69	65
1.25	93	85	85	80	88	82	83	79	78	74
1.50	98	91	89	85	93	88	87	83	82	78
2.00	105	99	94	90	98	94	91	88	87	83
2.50	110	105	97	94	102	99	95	92	91	87
3.00	114	110	100	98	106	103	97	95	94	91
4.00	117	113	101	99	108	105	99	97	96	92
5.00	120	117	103	101	110	108	100	99	97	94

# Esboço

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