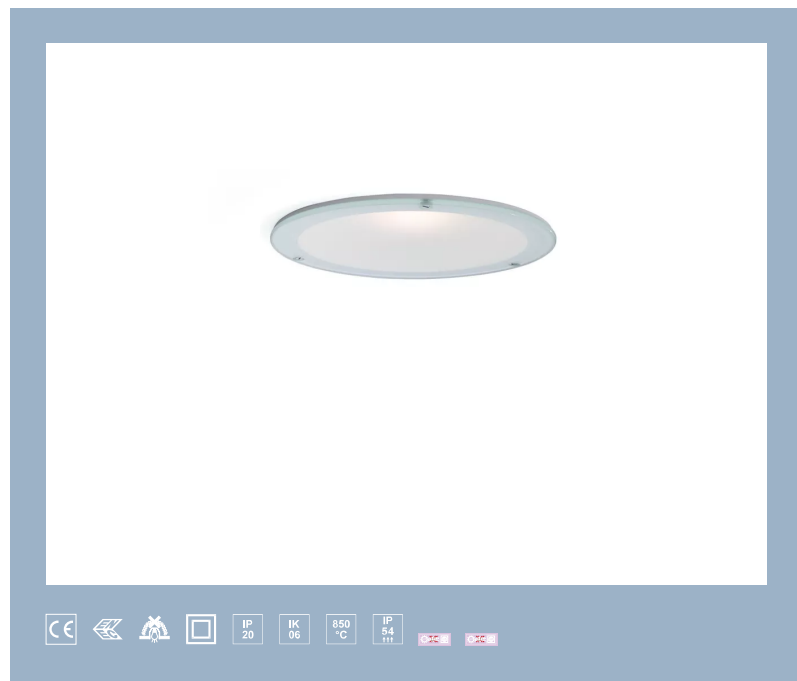


D90/LEDN20DX1T1



luminária de encastrar • redonda

aplicação : Áreas de escritório gerais, Auditórios, Áreas de educação gerais, Salas de pacientes, Áreas de saúde gerais

base: policarbonato

fonte de luz : LED • 4000 K

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

classificação UGR : <=19

fluxo luminoso: 2000 lm

fluxo luminoso específico : 111 lm/W

LLMF: 98% @ 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

potência : 18.1 W

tensão : 220-240V

frequência : 50-60Hz AC/DC

segurança fotobiológica : EN 62471: RISK GROUP 1 UNLIMITED

Luminance

fluxo luminoso : 2000 lm

fluxo luminoso específico : 111 lm/W

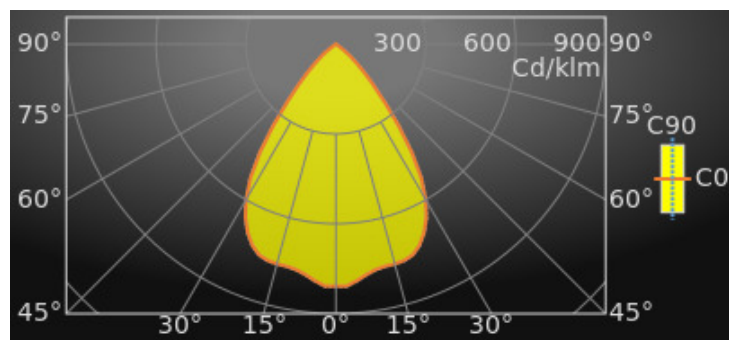
luminância @ 65° = : 1000 cd/m²

classificação UGR =: <=19

área luminosa : 0.02 m²

Average Luminances (Cd/m²) for 2000lm

Gamma	C0	C30	C45	C60	C90
45°	20140	20140	20140	20140	20140
50°	9944	9944	9944	9944	9944
55°	1777	1777	1777	1777	1777
60°	186	186	186	186	186
65°	36	36	36	36	36
70°	3	3	3	3	3
75°	0	0	0	0	0
80°	0	0	0	0	0
85°	0	0	0	0	0



Classificações

CIE: 900 / 1000 / 1000 / 1000 / 1000

CIE FLUXCODE : 0.90 / 1.00 / 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 = 0.81

UTE: 1.00 A + 0.00 T

Lifetime Data (Tq=25.0°C)

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

Intensidades luminosas em cd

Intensity for 2000lm

Gamma	C0	C45	C90
0°	1616.4	1616.4	1616.4
5°	1587.3	1587.3	1587.3
10°	1529.0	1529.0	1529.0
15°	1519.1	1519.1	1519.1
20°	1497.7	1497.7	1497.7
25°	1391.1	1391.1	1391.1
30°	1198.6	1198.6	1198.6
35°	884.9	884.9	884.9
40°	507.4	507.4	507.4
45°	272.2	272.2	272.2
50°	122.2	122.2	122.2
55°	19.5	19.5	19.5
60°	1.8	1.8	1.8
65°	0.3	0.3	0.3
70°	0.0	0.0	0.0
75°	0.0	0.0	0.0
80°	0.0	0.0	0.0
85°	0.0	0.0	0.0
90°	0.0	0.0	0.0

classificação UGR =

Corrected Glare Ratings for a Total Lamp Flux of 2000lm (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	18.8	20.2	19.1	20.5	20.7	18.8	20.2	19.1	20.5	20.7	
Y = 3H	18.7	19.9	19.0	20.2	20.5	18.7	19.9	19.0	20.2	20.5	
Y = 4H	18.6	19.7	18.9	20.0	20.3	18.6	19.7	18.9	20.0	20.3	
Y = 6H	18.5	19.6	18.9	19.9	20.2	18.5	19.6	18.9	19.9	20.2	
Y = 8H	18.5	19.5	18.9	19.8	20.1	18.5	19.5	18.9	19.8	20.1	
Y = 12H	18.5	19.4	18.8	19.7	20.1	18.5	19.4	18.8	19.7	20.1	
X = 4H Y = 2H	18.6	19.8	18.9	20.0	20.3	18.6	19.8	18.9	20.0	20.3	
Y = 3H	18.5	19.4	18.8	19.7	20.1	18.5	19.4	18.8	19.7	20.1	
Y = 4H	18.4	19.2	18.8	19.6	19.9	18.4	19.2	18.8	19.6	19.9	
Y = 6H	18.3	19.0	18.7	19.4	19.8	18.3	19.0	18.7	19.4	19.8	
Y = 8H	18.3	18.9	18.7	19.3	19.8	18.3	18.9	18.7	19.3	19.8	
Y = 12H	18.2	18.9	18.7	19.3	19.7	18.2	18.9	18.7	19.3	19.7	
X = 8H Y = 4H	18.3	18.9	18.7	19.3	19.8	18.3	18.9	18.7	19.3	19.8	
Y = 6H	18.2	18.8	18.7	19.2	19.7	18.2	18.8	18.7	19.2	19.7	
Y = 8H	18.2	18.7	18.6	19.1	19.6	18.2	18.7	18.6	19.1	19.6	
Y = 12H	18.1	18.6	18.6	19.0	19.6	18.1	18.6	18.6	19.0	19.6	
X = 12H Y = 4H	18.2	18.9	18.7	19.3	19.7	18.2	18.9	18.7	19.3	19.7	
Y = 6H	18.2	18.7	18.6	19.1	19.6	18.2	18.7	18.6	19.1	19.6	
Y = 8H	18.1	18.6	18.6	19.0	19.6	18.1	18.6	18.6	19.0	19.6	
	UGR Variations with Observer Position for Luminaire Spacings S										
S = 1.0H	+3.7				-16.0		+3.7				-16.0
S = 1.5H	+6.4				-36.1		+6.4				-36.1
S = 2.0H	+8.4				-48.5		+8.4				-48.5

Colour properties

Correlated Colour Temperature : 4000

Ra: CRI (Ra) 80

Eficiência

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	110	109	107	104	103	102	100	99	98	93
2	102	99	96	97	94	92	94	92	90	85
3	94	90	87	90	87	84	87	85	82	78
4	87	82	78	84	80	77	81	78	75	72
5	81	75	71	78	73	70	76	72	69	66
6	75	69	65	73	68	64	71	67	64	61
7	70	64	60	68	63	59	67	62	59	56
8	65	59	55	64	58	55	62	58	54	52
9	61	55	51	60	54	51	59	54	50	49
10	57	51	47	56	51	47	55	50	47	45

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	71	65	68	63	69	64	67	62	62	58
0.80	82	75	77	72	79	73	75	71	71	67
1.00	89	82	83	78	85	80	81	77	77	72
1.25	98	92	90	86	94	89	88	85	85	81
1.50	103	97	93	90	97	93	91	89	88	84
2.00	109	104	97	95	102	99	95	93	92	88
2.50	113	108	100	98	105	102	97	96	94	91
3.00	117	113	102	100	108	106	100	98	97	94
4.00	119	116	103	102	110	107	100	99	98	94
5.00	122	119	104	103	112	110	102	101	99	96

Esboço

