

D90/LEDW20DEX1

luminária de encastrar • redonda

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

base: policarbonato

fonte de luz : módulo LED • 3000 K

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

classificação UGR : <=19

fluxo luminoso: 2050 lm

fluxo luminoso específico : 113 lm/W

LLMF: 98% @ 50khrs (Tq=25°C)



Medidas

medida encastrável : 175 mm x 100 mm

cor: RAL9003 - branco

moldura: moldura espessa

tipo : luminária individual

IP: IP20

Luminance

fluxo luminoso : 2050 lm

fluxo luminoso específico : 113 lm/W

luminância @ 65° : 1000 cd/m²

classificação UGR: <=19

área luminosa : 0.02 m²

Equipamento eléctrico

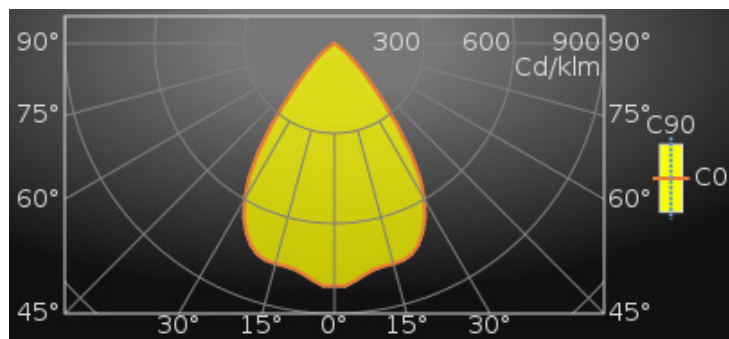
driver: DALI regulável, com sistema de controlo da iluminação em função da luz natural ELS

consumo de corrente : 18.1 W

tensão : 220-240V

frequência : 50-60Hz AC/DC

segurança fotobiológica : EN 62471: RISK GROUP 1 UNLIMITED



Average Luminances (Cd/m²) for 2050lm

Gamma	C0	C30	C45	C60	C90
45°	20644	20644	20644	20644	20644
50°	10192	10192	10192	10192	10192
55°	1821	1821	1821	1821	1821
60°	191	191	191	191	191
65°	37	37	37	37	37
70°	3	3	3	3	3
75°	0	0	0	0	0
80°	0	0	0	0	0
85°	0	0	0	0	0

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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

Intensidades luminosas em cd

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

Intensity for 2050lm

Gamma	C0	C45	C90
0°	1656.8	1656.8	1656.8
5°	1627.0	1627.0	1627.0
10°	1567.3	1567.3	1567.3
15°	1557.0	1557.0	1557.0
20°	1535.2	1535.2	1535.2
25°	1425.9	1425.9	1425.9
30°	1228.6	1228.6	1228.6
35°	907.0	907.0	907.0
40°	520.1	520.1	520.1
45°	279.0	279.0	279.0
50°	125.2	125.2	125.2
55°	20.0	20.0	20.0
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 2050lm (S = 0.25H)

Ceiling Walls Floor	Room Reflection Factors (%)									
	70	70	50	50	30	70	70	50	50	30
	50	30	50	30	30	50	30	50	30	30
	20	20	20	20	20	20	20	20	20	20
Room Dimensions	Viewed Crosswise					Viewed Endwise				
X = 2H Y = 2H	18.9	20.3	19.2	20.6	20.8	18.9	20.3	19.2	20.6	20.8
Y = 3H	18.8	20.0	19.1	20.3	20.5	18.8	20.0	19.1	20.3	20.5
Y = 4H	18.7	19.8	19.0	20.1	20.4	18.7	19.8	19.0	20.1	20.4
Y = 6H	18.6	19.7	19.0	20.0	20.3	18.6	19.7	19.0	20.0	20.3
Y = 8H	18.6	19.6	18.9	19.9	20.2	18.6	19.6	18.9	19.9	20.2
Y = 12H	18.5	19.5	18.9	19.8	20.2	18.5	19.5	18.9	19.8	20.2
X = 4H Y = 2H	18.7	19.8	19.0	20.1	20.4	18.7	19.8	19.0	20.1	20.4
Y = 3H	18.6	19.5	18.9	19.8	20.2	18.6	19.5	18.9	19.8	20.2
Y = 4H	18.5	19.3	18.9	19.6	20.0	18.5	19.3	18.9	19.6	20.0
Y = 6H	18.4	19.1	18.8	19.5	19.9	18.4	19.1	18.8	19.5	19.9
Y = 8H	18.4	19.0	18.8	19.4	19.8	18.4	19.0	18.8	19.4	19.8
Y = 12H	18.3	18.9	18.8	19.4	19.8	18.3	18.9	18.8	19.4	19.8
X = 8H Y = 4H	18.4	19.0	18.8	19.4	19.8	18.4	19.0	18.8	19.4	19.8
Y = 6H	18.3	18.9	18.7	19.3	19.7	18.3	18.9	18.7	19.3	19.7
Y = 8H	18.2	18.7	18.7	19.2	19.7	18.2	18.7	18.7	19.2	19.7
Y = 12H	18.2	18.6	18.7	19.1	19.6	18.2	18.6	18.7	19.1	19.6
X = 12H Y = 4H	18.3	18.9	18.8	19.4	19.8	18.3	18.9	18.8	19.4	19.8
Y = 6H	18.2	18.7	18.7	19.2	19.7	18.2	18.7	18.7	19.2	19.7
Y = 8H	18.2	18.6	18.7	19.1	19.6	18.2	18.6	18.7	19.1	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			

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Colour properties

Correlated Colour Temperature : 3000

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	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 (%)									
	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	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

