

US01I8/LEDN40D

luminária de encastrar • quadrada

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

base: aço lacada com proteção fechada da lâmpada

fonte de luz : LED LP • 4000 K

óptica : Softlight • extensiva

classificação UGR : <=19

fluxo luminoso: 4050 lm

fluxo luminoso específico : 140 lm/W

LLMF: 96% @ 50khrs (Tq=25°C)



Medidas

dimensões : 620 mm x 620 mm x 120 mm

medida encastrável : 605 mm x 605 mm

módulo do tecto : M625 quadrada

cor: RAL9210-branco

tipo : luminária individual

IP: IP20

Luminance

fluxo luminoso : 4050 lm

fluxo luminoso específico : 140 lm/W

classificação UGR: <=19

área luminosa : 0.33 m²

Equipamento eléctrico

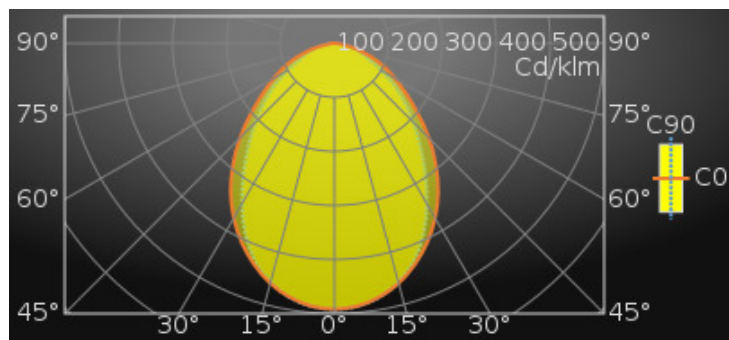
driver: DALI regulável

consumo de corrente : 29 W

tensão : 220-240V

frequência : 50-60Hz AC

segurança fotobiológica : EN 62471: RISK GROUP 0 UNLIMITED



Average Luminances (Cd/m²) for 4050lm

Gamma	C0	C30	C45	C60	C90
45°	4281	4141	3915	3734	3598
50°	3841	3665	3371	3212	3244
55°	3462	3197	2827	2763	2877
60°	3156	2792	2486	2526	2423
65°	2927	2530	2368	2313	2052
70°	2527	2320	2300	2059	1887
75°	2024	1971	2073	1939	1832
80°	1298	1597	1670	1748	1610
85°	616	704	783	1077	1002

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Classificações

CIE: 583 / 860 / 975 / 1000 / 1000

CIE FLUXCODE : 0.58 / 0.86 / 0.97 / 1.00 / 1.00

BZ: BZ3

CAE: Symmetrical

DIN: A50 (Nach Arbeitsblatt 7)

DIN_U: Phi u = 1.00

DIN_SU: Phi su = 0.62

UTE: 1.00 D + 0.00 T

Intensidades luminosas em cd

Lifetime Data (Tq=25.0°C)

Time(khrs)	LLMF(%)	Cx(%)
10	99	2
20	98	4
30	98	6
40	97	8
50	96	10
60	95	12

Intensity for 4050lm

Gamma	C0	C45	C90
0°	1992.0	1992.0	1992.0
5°	1976.8	1977.3	1978.3
10°	1931.6	1938.1	1933.3
15°	1862.3	1861.8	1853.6
20°	1763.7	1753.0	1739.6
25°	1646.9	1620.3	1580.1
30°	1512.0	1462.3	1388.3
35°	1358.7	1286.9	1188.0
40°	1182.3	1108.0	1002.2
45°	1001.0	915.2	841.2
50°	816.4	716.5	689.4
55°	656.6	536.1	545.6
60°	521.7	410.9	400.5
65°	408.9	330.9	286.7
70°	285.7	260.1	213.4
75°	173.2	177.4	156.8
80°	74.5	95.9	92.4
85°	17.8	22.6	28.9
90°	0.2	0.2	0.2

classificação UGR

Corrected Glare Ratings for a Total Lamp Flux of 4050lm (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	16.5	18.2	16.8	18.5	18.7	15.2	16.9	15.5	17.2	17.4
Y = 3H	17.7	19.2	18.1	19.5	19.8	16.1	17.7	16.5	18.0	18.2
Y = 4H	18.1	19.5	18.4	19.8	20.1	16.5	18.0	16.9	18.3	18.6
Y = 6H	18.2	19.6	18.6	19.9	20.2	16.9	18.2	17.2	18.5	18.9
Y = 8H	18.2	19.5	18.6	19.9	20.2	16.9	18.2	17.3	18.6	18.9
Y = 12H	18.2	19.5	18.6	19.8	20.1	17.0	18.2	17.4	18.5	18.9
X = 4H Y = 2H	16.8	18.2	17.1	18.5	18.8	15.7	17.2	16.1	17.5	17.8
Y = 3H	18.2	19.4	18.6	19.8	20.1	16.9	18.1	17.3	18.5	18.8
Y = 4H	18.7	19.8	19.1	20.2	20.5	17.4	18.5	17.8	18.9	19.3
Y = 6H	19.0	19.9	19.4	20.3	20.7	17.9	18.9	18.3	19.2	19.6
Y = 8H	19.0	19.9	19.4	20.3	20.7	18.0	18.9	18.4	19.3	19.7
Y = 12H	19.0	19.8	19.4	20.2	20.7	18.1	18.9	18.5	19.3	19.7
X = 8H Y = 4H	18.9	19.8	19.3	20.2	20.6	17.7	18.6	18.2	19.0	19.4
Y = 6H	19.2	20.0	19.7	20.4	20.9	18.3	19.1	18.8	19.5	20.0
Y = 8H	19.3	19.9	19.8	20.4	20.9	18.5	19.1	19.0	19.6	20.1
Y = 12H	19.3	19.9	19.8	20.3	20.9	18.6	19.1	19.1	19.6	20.1
X = 12H Y = 4H	18.9	19.7	19.3	20.1	20.5	17.7	18.5	18.2	19.0	19.4
Y = 6H	19.2	19.9	19.7	20.4	20.8	18.3	19.0	18.8	19.4	19.9
Y = 8H	19.3	19.9	19.8	20.4	20.9	18.5	19.1	19.0	19.6	20.1
UGR Variations with Observer Position for Luminaire Spacings S										
S = 1.0H	+0.3		-0.3		+0.2		-0.3			
S = 1.5H	+0.3		-0.7		+0.3		-0.6			
S = 2.0H	+0.8		-1.0		+0.8		-1.1			

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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	105	103	101	99	97	95	95	93	92	87
2	93	88	85	88	84	81	84	81	79	74
3	83	77	72	78	73	70	76	71	68	64
4	74	67	62	70	65	61	68	63	60	56
5	67	60	54	64	58	53	62	57	53	50
6	61	54	48	58	52	47	57	51	47	44
7	56	48	43	54	47	42	52	46	42	40
8	52	44	39	49	43	38	48	42	38	36
9	48	40	35	46	39	35	45	39	35	33
10	44	37	32	43	36	32	42	36	32	30

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	54	46	51	44	52	45	50	44	43	37
0.80	65	56	61	54	62	55	59	53	53	46
1.00	74	65	68	62	70	63	66	60	60	54
1.25	83	75	76	70	78	72	74	69	68	62
1.50	90	81	81	76	84	78	79	74	73	67
2.00	98	90	87	82	91	85	84	80	79	74
2.50	104	97	92	87	96	91	89	85	84	79
3.00	108	103	95	91	100	96	92	89	88	83
4.00	113	108	98	95	103	100	95	92	91	86
5.00	117	112	100	98	106	103	97	95	93	89

Esboço

