

# US01I1/LEDN30D

luminaire à encastrer • carré

*application* : bureaux, soins de santé, enseignement, horeca, vente au détail, loisirs

*caisson*: aluminium laqué avec protection de lampe fermée

*source lumineuse* : LED LP • 4000 K

*optique* : softlight • microprisme en acrylate avec film diffuseur • extensive

*classification UGR* :  $\leq 19$

*flux lumineux*: 3100 lm

*flux lumineux spécifique* : 148 lm/W

*LLMF*: 97% @ 50khrs (Tq=25°C)



## Caractéristiques mécaniques

*dimensions* : 595 mm x 595 mm x 120 mm

*dimensions encastrées* : 580 mm x 580 mm

*modulation de plafond* : M600

*couleur*: RAL9210-blanc

*type* : luminaire individuel

## Luminance

*flux lumineux* : 3100 lm

*flux lumineux spécifique* : 148 lm/W

*luminance @ 65°* : 3000 cd/m<sup>2</sup>

*classification UGR*:  $\leq 19$

*surface lumineuse* : 0.33 m<sup>2</sup>

## Equipement électrique

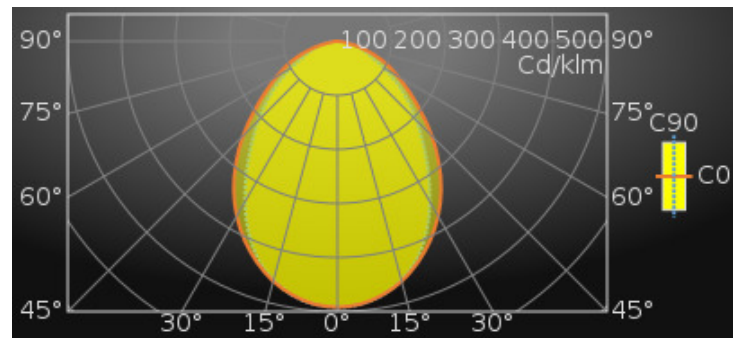
*driver*: DALI gradable

*consommation de courant* : 21 W

*tension* : 220-240V

*fréquence* : 50-60Hz AC

*sécurité photobiologique* : IEC/TR 62778 : RG 0



Average Luminances (Cd/m<sup>2</sup>) for 3100lm

Gamma	C0	C30	C45	C60	C90
45°	3277	3170	2997	2858	2754
50°	2940	2805	2581	2459	2483
55°	2650	2447	2164	2115	2202
60°	2416	2137	1903	1934	1854
65°	2240	1937	1813	1771	1571
70°	1934	1776	1761	1576	1445
75°	1549	1509	1587	1484	1402
80°	994	1222	1279	1338	1232
85°	472	539	600	824	767

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## Classifications

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

## Intensités lumineuses en cd

Lifetime Data (Tq=25.0°C)

Time (khrs)	LLMF	LSF
10.0	0.99	0.98
20.0	0.99	0.96
30.0	0.98	0.94
40.0	0.98	0.92
50.0	0.97	0.90
60.0	0.97	0.88

Intensity for 3100lm

Gamma	C0	C45	C90
0°	1524.7	1524.7	1524.7
5°	1513.1	1513.5	1514.3
10°	1478.5	1483.5	1479.8
15°	1425.5	1425.1	1418.8
20°	1350.0	1341.8	1331.5
25°	1260.6	1240.2	1209.4
30°	1157.3	1119.3	1062.6
35°	1040.0	985.0	909.4
40°	905.0	848.1	767.1
45°	766.2	700.6	643.9
50°	624.9	548.4	527.7
55°	502.6	410.4	417.6
60°	399.3	314.5	306.5
65°	313.0	253.3	219.4
70°	218.7	199.1	163.3
75°	132.5	135.8	120.0
80°	57.0	73.4	70.7
85°	13.6	17.3	22.1
90°	0.2	0.2	0.2

## classification UGR

Corrected Glare Ratings for a Total Lamp Flux of 3100lm (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	50	30
		Floor	20	20	20	20	20	20	20	20	20	20	20	20
Room Dimensions		Viewed Crosswise					Viewed Endwise							
X = 2H	Y = 2H	15.6	17.3	15.9	17.5	17.8	14.3	16.0	14.6	16.3	16.5			
	Y = 3H	16.8	18.3	17.1	18.6	18.9	15.2	16.7	15.5	17.0	17.3			
	Y = 4H	17.2	18.6	17.5	18.9	19.2	15.6	17.1	16.0	17.4	17.7			
	Y = 6H	17.3	18.6	17.7	19.0	19.3	15.9	17.3	16.3	17.6	17.9			
	Y = 8H	17.3	18.6	17.7	18.9	19.3	16.0	17.3	16.4	17.6	18.0			
X = 4H	Y = 12H	17.3	18.5	17.7	18.9	19.2	16.0	17.3	16.4	17.6	18.0			
	Y = 2H	15.9	17.3	16.2	17.6	17.9	14.8	16.3	15.2	16.6	16.9			
	Y = 3H	17.3	18.5	17.7	18.8	19.2	16.0	17.2	16.3	17.5	17.9			
	Y = 4H	17.8	18.9	18.2	19.2	19.6	16.5	17.6	16.9	18.0	18.3			
	Y = 6H	18.0	19.0	18.5	19.4	19.8	16.9	17.9	17.4	18.3	18.7			
X = 8H	Y = 8H	18.1	19.0	18.5	19.4	19.8	17.1	18.0	17.5	18.4	18.8			
	Y = 12H	18.1	18.9	18.5	19.3	19.7	17.1	17.9	17.6	18.4	18.8			
	Y = 4H	17.9	18.8	18.4	19.2	19.7	16.8	17.7	17.2	18.1	18.5			
	Y = 6H	18.3	19.0	18.8	19.5	19.9	17.4	18.1	17.8	18.6	19.0			
	Y = 8H	18.4	19.0	18.8	19.5	20.0	17.6	18.2	18.0	18.7	19.2			
X = 12H	Y = 12H	18.4	18.9	18.9	19.4	19.9	17.6	18.2	18.1	18.7	19.2			
	Y = 4H	17.9	18.8	18.4	19.2	19.6	16.8	17.6	17.2	18.0	18.5			
	Y = 6H	18.3	19.0	18.8	19.4	19.9	17.4	18.1	17.9	18.5	19.0			
	Y = 8H	18.4	19.0	18.9	19.4	20.0	17.6	18.2	18.1	18.7	19.2			
UGR Variations with Observer Position for Luminaire Spacings S														
S = 1.0H		+0.3					-0.3							
S = 1.5H		+0.3					-0.7							
S = 2.0H		+0.8					-1.0							

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## Colour properties

Correlated Colour Temperature : 4000

Ra: 80

## Rendement

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

## Accessoires

US01H010/600 cadre d'encastrement pour plafonds en plaques de plâtre, de bois ...

## Esquisse

