

# US01K1/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 • extensive

*classification UGR* : <=19

*flux lumineux*: 3000 lm

*flux lumineux spécifique* : 120 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

*IP*: IP20

## Luminance

*flux lumineux* : 3000 lm

*flux lumineux spécifique* : 120 lm/W

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

*classification UGR*: <=19

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

## Equipement électrique

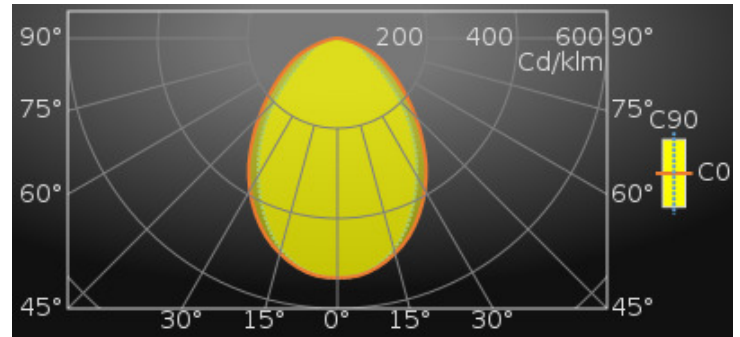
*driver*: DALI gradable

*consommation de courant* : 25 W

*tension* : 220-240V

*fréquence* : 50-60Hz AC

*sécurité photobiologique* : EN 62471: RISK GROUP 0 UNLIMITED



Average Luminances (Cd/m<sup>2</sup>) for 3000lm

Gamma	C0	C30	C45	C60	C90
45°	3146	3001	2759	2568	2533
50°	2831	2595	2299	2119	2105
55°	2563	2227	1960	1818	1732
60°	2347	1965	1767	1666	1462
65°	2177	1799	1670	1528	1397
70°	1826	1634	1613	1419	1315
75°	1441	1335	1413	1366	1230
80°	990	1071	1112	1170	1096
85°	448	517	565	731	699

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## Classifications

CIE: 607 / 870 / 976 / 1000 / 1000

CIE FLUXCODE : 0.61 / 0.87 / 0.98 / 1.00 / 1.00

BZ: BZ3/1.25/BZ2/1.5/BZ3

CAE: Symmetrical

DIN: A50 (Nach Arbeitsblatt 7)

DIN\_U: Phi u = 1.00

DIN\_SU: Phi su = 0.64

UTE: 1.00 D + 0.00 T

## Intensités lumineuses en cd

Lifetime Data (Tq=25.0°C)

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

Intensity for 3000lm

Gamma	C0	C45	C90
0°	1594.9	1594.9	1594.9
5°	1587.2	1586.1	1583.3
10°	1547.8	1545.6	1537.1
15°	1483.8	1475.1	1456.3
20°	1401.1	1375.7	1342.4
25°	1292.7	1254.8	1206.3
30°	1168.7	1117.4	1055.0
35°	1031.1	969.4	907.8
40°	881.3	813.4	751.5
45°	735.5	645.0	592.2
50°	601.6	488.6	447.4
55°	486.0	371.7	328.5
60°	387.9	292.0	241.6
65°	304.2	233.3	195.2
70°	206.5	182.4	148.7
75°	123.3	120.9	105.3
80°	56.9	63.9	62.9
85°	12.9	16.3	20.1
90°	0.2	0.2	0.2

## classification UGR

Corrected Glare Ratings for a Total Lamp Flux of 3000lm (S = 0.25H)

Room Dimensions	Room Reflection Factors (%)												
	Ceiling	Walls	Floor	70	50	30	70	50	30	70	50	30	
	70	70	50	50	30	70	70	50	50	30	70	50	30
	50	30	50	30	30	50	30	50	30	30	50	30	30
	20	20	20	20	20	20	20	20	20	20	20	20	20
	Viewed Crosswise					Viewed Endwise							
X = 2H Y = 2H	15.3	17.0	15.6	17.3	17.5	13.5	15.1	13.8	15.4	15.6			
Y = 3H	16.5	18.0	16.9	18.3	18.6	14.4	15.9	14.7	16.1	16.4			
Y = 4H	16.9	18.3	17.2	18.6	18.9	14.8	16.2	15.1	16.5	16.8			
Y = 6H	17.0	18.3	17.4	18.7	19.0	15.1	16.4	15.5	16.7	17.1			
Y = 8H	17.0	18.3	17.4	18.6	19.0	15.2	16.5	15.6	16.8	17.1			
Y = 12H	17.0	18.2	17.4	18.6	18.9	15.2	16.4	15.6	16.8	17.1			
X = 4H Y = 2H	15.6	17.0	15.9	17.3	17.6	14.0	15.5	14.4	15.8	16.1			
Y = 3H	17.0	18.2	17.3	18.5	18.9	15.2	16.4	15.6	16.7	17.1			
Y = 4H	17.4	18.5	17.8	18.9	19.2	15.7	16.8	16.1	17.2	17.5			
Y = 6H	17.7	18.7	18.1	19.0	19.4	16.2	17.1	16.6	17.5	17.9			
Y = 8H	17.7	18.6	18.2	19.0	19.5	16.3	17.2	16.7	17.6	18.0			
Y = 12H	17.7	18.5	18.2	19.0	19.4	16.4	17.2	16.8	17.6	18.0			
X = 8H Y = 4H	17.6	18.5	18.0	18.9	19.3	16.0	16.9	16.5	17.3	17.7			
Y = 6H	17.9	18.7	18.4	19.1	19.6	16.6	17.3	17.1	17.8	18.2			
Y = 8H	18.0	18.6	18.5	19.1	19.6	16.8	17.4	17.3	17.9	18.4			
Y = 12H	18.0	18.6	18.5	19.0	19.6	16.9	17.4	17.4	17.9	18.4			
X = 12H Y = 4H	17.6	18.4	18.0	18.8	19.2	16.0	16.8	16.5	17.3	17.7			
Y = 6H	17.9	18.6	18.4	19.0	19.5	16.6	17.3	17.1	17.7	18.2			
Y = 8H	18.0	18.6	18.5	19.1	19.6	16.8	17.4	17.3	17.9	18.4			
	UGR Variations with Observer Position for Luminaire Spacings S												
S = 1.0H	+0.3		-0.3		+0.3		-0.3						
S = 1.5H	+0.4		-0.7		+0.5		-0.7						
S = 2.0H	+0.8		-1.0		+1.0		-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	106	103	101	99	97	96	95	94	92	87
2	94	89	86	88	85	82	85	82	80	75
3	84	78	73	79	74	71	76	72	69	66
4	75	68	64	71	66	62	69	65	61	58
5	68	61	56	65	59	55	63	58	54	51
6	62	55	50	60	53	49	58	52	48	46
7	57	50	44	55	48	44	53	48	44	41
8	53	45	40	51	44	40	49	44	39	37
9	49	41	37	47	41	36	46	40	36	34
10	45	38	34	44	38	33	43	37	33	31

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	55	47	53	46	53	46	51	45	45	39
0.80	67	58	63	56	64	56	61	55	54	48
1.00	75	66	70	63	71	64	67	62	61	55
1.25	85	76	77	71	80	73	75	70	69	64
1.50	91	83	82	77	85	79	80	75	74	69
2.00	99	91	88	83	92	86	85	81	80	75
2.50	104	98	92	88	97	92	89	86	85	80
3.00	109	103	96	92	101	96	93	90	88	84
4.00	113	108	98	95	104	100	95	93	91	87
5.00	117	113	100	98	107	104	97	95	94	90

## Accessoires

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

## Esquisse

