

# US01I8/LEDN40D

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*: 4050 lm

*flux lumineux spécifique* : 135 lm/W

*LLMF*: 96% @ 50khrs (Tq=25°C)



## Caractéristiques mécaniques

*dimensions* : 620 mm x 620 mm x 120 mm

*dimensions encastrées* : 605 mm x 605 mm

*modulation de plafond* : M625 carré

*couleur*: RAL9210-blanc

*type* : luminaire individuel

## Luminance

*flux lumineux* : 4050 lm

*flux lumineux spécifique* : 135 lm/W

*classification UGR*:  $\leq 19$

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

## Equipement électrique

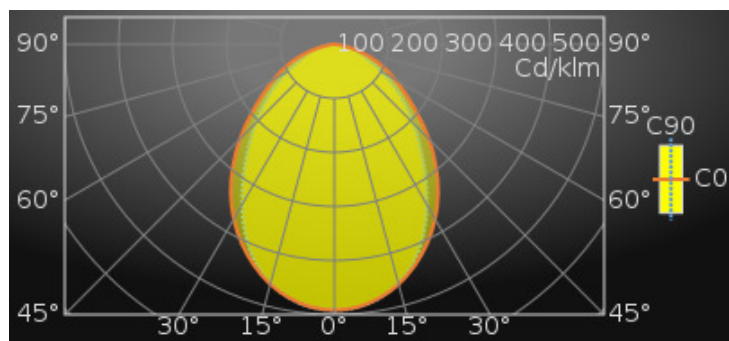
*driver*: DALI gradable

*consommation de courant* : 30 W

*tension* : 220-240V

*fréquence* : 50-60Hz AC

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



Average Luminances (Cd/m<sup>2</sup>) 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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## 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	0.98	0.96
30.0	0.98	0.94
40.0	0.97	0.92
50.0	0.96	0.90
60.0	0.95	0.88

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

## classification UGR

Corrected Glare Ratings for a Total Lamp Flux of 4050lm (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	30
		Floor	20	20	20	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				
X = 4H	Y = 12H	18.2	19.5	18.6	19.8	20.1	17.0	18.2	17.4	18.5	18.9				
	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				
X = 8H	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				
	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				
X = 12H	Y = 12H	19.3	19.9	19.8	20.3	20.9	18.6	19.1	19.1	19.6	20.1				
	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

## 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

## Esquisse

