

# US01I1/LEDW40S

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 • 3000 K

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

*classification UGR* :  $\leq 19$

*flux lumineux*: 3900 lm

*flux lumineux spécifique* : 139 lm/W

*LLMF*: 96% @ 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* : 3900 lm

*flux lumineux spécifique* : 139 lm/W

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

*classification UGR*:  $\leq 19$

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

Average Luminances (Cd/m<sup>2</sup>) for 3900lm

Gamma	C0	C30	C45	C60	C90
45°	4123	3988	3770	3596	3465
50°	3699	3529	3247	3093	3124
55°	3334	3078	2722	2661	2770
60°	3039	2689	2394	2433	2333
65°	2818	2436	2281	2228	1976
70°	2433	2234	2215	1982	1817
75°	1949	1898	1996	1868	1764

## Equipement électrique

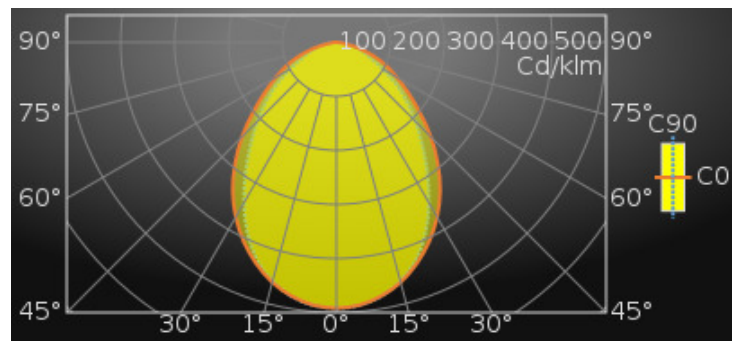
*driver*: non gradable

*consommation de courant* : 28 W

*tension* : 220-240V

*fréquence* : 50-60Hz AC

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



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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	0.97	0.94
40.0	0.96	0.92
50.0	0.96	0.90
60.0	0.95	0.88

Intensity for 3900lm

Gamma	C0	C45	C90
0°	1918.2	1918.2	1918.2
5°	1903.6	1904.1	1905.0
10°	1860.1	1866.3	1861.7
15°	1793.3	1792.8	1784.9
20°	1698.3	1688.0	1675.1
25°	1585.9	1560.3	1521.5
30°	1456.0	1408.1	1336.8
35°	1308.4	1239.2	1144.0
40°	1138.5	1067.0	965.1
45°	963.9	881.3	810.1
50°	786.1	690.0	663.9
55°	632.3	516.3	525.4
60°	502.4	395.7	385.6
65°	393.8	318.7	276.1
70°	275.1	250.5	205.5
75°	166.7	170.8	151.0
80°	71.8	92.3	89.0
85°	17.1	21.7	27.8
90°	0.2	0.2	0.2

## classification UGR

Corrected Glare Ratings for a Total Lamp Flux of 3900lm

		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	
		Floor	20	20	20	20	20	20	20	20	20	20	
Room Dimensions		Viewed Crosswise					Viewed Endwise						
X = 2H	Y = 2H	16.4	18.1	16.7	18.3	18.6	15.1	16.8	15.4	17.0	17.3		
	Y = 3H	17.6	19.1	17.9	19.4	19.7	16.0	17.5	16.3	17.8	18.1		
	Y = 4H	18.0	19.4	18.3	19.7	20.0	16.4	17.9	16.8	18.2	18.5		
	Y = 6H	18.1	19.4	18.5	19.8	20.1	16.7	18.1	17.1	18.4	18.7		
	Y = 8H	18.1	19.4	18.5	19.7	20.1	16.8	18.1	17.2	18.4	18.8		
X = 4H	Y = 12H	18.1	19.3	18.5	19.7	20.0	16.8	18.1	17.2	18.4	18.8		
	Y = 2H	16.7	18.1	17.0	18.4	18.7	15.6	17.1	16.0	17.4	17.7		
	Y = 3H	18.1	19.3	18.5	19.6	20.0	16.8	18.0	17.1	18.3	18.7		
	Y = 4H	18.6	19.7	19.0	20.0	20.4	17.3	18.4	17.7	18.8	19.1		
	Y = 6H	18.8	19.8	19.3	20.2	20.6	17.7	18.7	18.2	19.1	19.5		
X = 8H	Y = 8H	18.9	19.8	19.3	20.2	20.6	17.9	18.8	18.3	19.2	19.6		
	Y = 12H	18.9	19.7	19.3	20.1	20.5	17.9	18.7	18.4	19.2	19.6		
	Y = 4H	18.7	19.6	19.2	20.0	20.5	17.6	18.5	18.0	18.9	19.3		
	Y = 6H	19.1	19.8	19.5	20.3	20.7	18.2	18.9	18.6	19.4	19.8		
	Y = 8H	19.2	19.8	19.6	20.3	20.8	18.4	19.0	18.8	19.5	20.0		
X = 12H	Y = 12H	19.2	19.7	19.7	20.2	20.7	18.4	19.0	18.9	19.5	20.0		
	Y = 4H	18.7	19.5	19.2	20.0	20.4	17.6	18.4	18.0	18.8	19.3		
	Y = 6H	19.1	19.8	19.6	20.2	20.7	18.2	18.9	18.7	19.3	19.8		
	Y = 8H	19.2	19.8	19.7	20.2	20.8	18.4	19.0	18.9	19.5	20.0		
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 : 3000

Ra: 80

## Rendement

Utilisation Factors according to IES (%)

	Room Reflection Factors (%)									
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 (%)									
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 ...