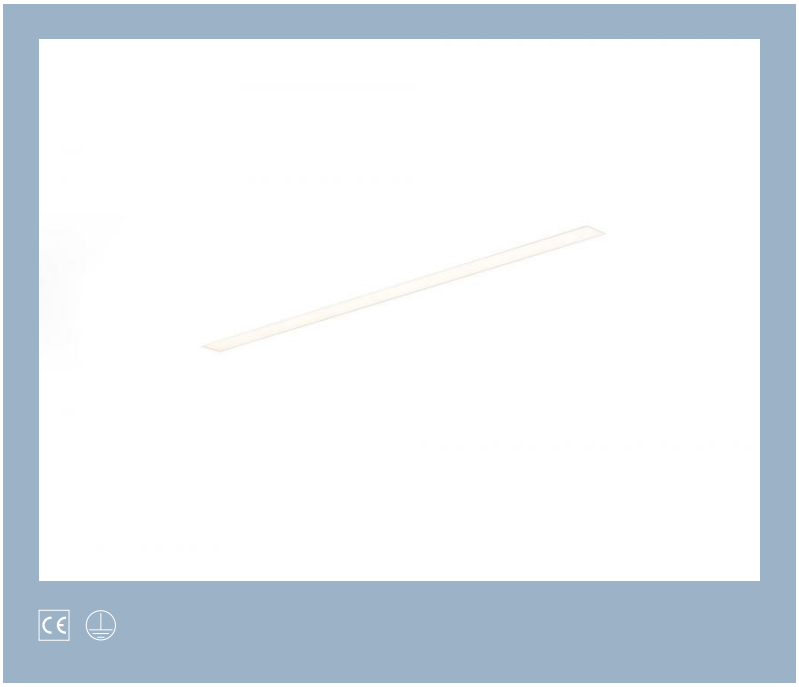
V2M1B1/LEDN21S



módulo • rectangular

aplicación : Oficinas, Comercio, Hostelería, Enseñanza, Ocio

fuenta luminosa : low power LED • 4000 K

óptica : Difusor • Acrílico (PMMA) HaloOptics® • extensiva extrema

clasificación UGR : <=25

flujo luminoso: 2150 lm

flujo luminoso específico : 154 lm/W

LLMF: 98% @ 50khrs (Tq=25°C)

Product information

Características mecánicas

dimensiones : 900 mm x 55 mm x 50 mm

tipo : montaje en línea: luminaria final

Equipo eléctrico

controlador: no regulable

consumo de energía : 14 W

tensión : 220-240V

frecuencia : 50-60Hz AC

seguridad fotobiológica : EN 62471: RISK GROUP 0 UNLIMITED

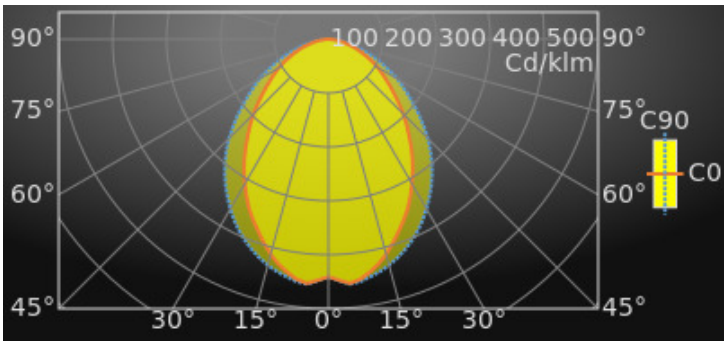
Luminance

flujo luminoso : 2150 lm

flujo luminoso específico : 154 lm/W

classification UGR <=25

superficie luminoso : 0.05 m²



Average Luminances (Cd/m²) for 2150lm

Gamma	C0	C30	C45	C60	C90
45°	12045	12744	14101	14591	16013
50°	10860	11661	12984	13529	14825
55°	9906	10677	11916	12529	13648
60°	9220	9573	10804	11374	12756
65°	8282	8668	10045	10190	11455
70°	7446	7841	9053	8967	10168
75°	6432	6710	7935	7769	8923
80°	5714	5411	6833	6208	7526
85°	2774	3346	5390	3881	4881

Clasificaciones

CIE: 550 / 842 / 970 / 1000 / 1000

CIE FLUXCODE : 0.55 / 0.84 / 0.97 / 1.00 / 1.00

BZ: BZ3/1.5/BZ4

CAE: Symmetrical

DIN: A50 (Nach Arbeitsblatt 7)

DIN_U: Phi u = 1.00

DIN_SU: Phi su = 0.60

UTE: 1.00 D + 0.00 T

Lifetime Data (Tq=25.0°C)

Time(khrs)	LLMF(%)	Cx(%)
10	100	2
20	99	4
30	99	6
40	99	8
50	98	10
60	98	12

Intensidad luminosa en cd

Intensity for 2150lm

Gamma	C0	C45	C90
0°	947.8	947.8	947.8
5°	977.7	982.0	980.3
10°	944.6	960.0	961.9
15°	888.7	923.2	933.1
20°	816.5	871.1	893.2
25°	747.3	805.4	843.2
30°	665.8	733.7	781.8
35°	584.2	652.9	714.2
40°	499.3	570.0	641.3
45°	421.6	493.6	560.5
50°	345.5	413.1	471.7
55°	281.2	338.3	387.5
60°	228.2	267.4	315.7
65°	173.3	210.1	239.6
70°	126.1	153.3	172.1
75°	82.4	101.7	114.3
80°	49.1	58.7	64.7
85°	12.0	23.3	21.1
90°	1.2	1.1	0.8

classification UGR

Corrected Glare Ratings for a Total Lamp Flux of 2150lm (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
Floor	20	20	20	20	20	20	20	20	20	20
Room Dimensions	Viewed Crosswise					Viewed Endwise				
X = 2H Y = 2H	20.0	21.7	20.3	21.9	22.2	21.5	23.2	21.8	23.5	23.8
Y = 3H	21.1	22.6	21.4	22.9	23.2	22.7	24.3	23.1	24.6	24.9
Y = 4H	21.5	22.9	21.8	23.2	23.6	23.2	24.7	23.6	25.0	25.3
Y = 6H	21.7	23.1	22.1	23.4	23.8	23.5	24.9	23.9	25.2	25.5
Y = 8H	21.8	23.1	22.2	23.5	23.8	23.6	24.9	24.0	25.2	25.6
Y = 12H	21.8	23.1	22.2	23.4	23.8	23.6	24.9	24.0	25.2	25.5
X = 4H Y = 2H	20.6	22.1	20.9	22.4	22.7	21.8	23.3	22.2	23.6	23.9
Y = 3H	21.9	23.1	22.2	23.5	23.8	23.3	24.5	23.6	24.9	25.2
Y = 4H	22.4	23.5	22.8	23.9	24.2	23.8	25.0	24.3	25.3	25.7
Y = 6H	22.8	23.8	23.2	24.2	24.6	24.3	25.3	24.7	25.7	26.1
Y = 8H	22.9	23.8	23.3	24.2	24.6	24.4	25.3	24.9	25.7	26.2
Y = 12H	22.9	23.8	23.4	24.2	24.6	24.5	25.3	24.9	25.7	26.2
X = 8H Y = 4H	22.6	23.6	23.1	24.0	24.4	24.0	24.9	24.4	25.3	25.7
Y = 6H	23.1	23.9	23.6	24.3	24.8	24.5	25.3	25.0	25.7	26.2
Y = 8H	23.3	24.0	23.8	24.4	24.9	24.7	25.4	25.2	25.8	26.3
Y = 12H	23.4	24.0	23.9	24.4	25.0	24.8	25.4	25.3	25.9	26.4
X = 12H Y = 4H	22.7	23.5	23.1	23.9	24.4	24.0	24.8	24.4	25.3	25.7
Y = 6H	23.2	23.9	23.7	24.3	24.8	24.5	25.2	25.0	25.7	26.2
Y = 8H	23.4	24.0	23.9	24.4	25.0	24.7	25.3	25.2	25.8	26.3

	UGR Variations with Observer Position for Luminaire Spacings S			
S = 1.0H	+0.2	-0.3	+0.2	-0.2
S = 1.5H	+0.4	-0.6	+0.3	-0.5
S = 2.0H	+0.6	-1.1	+0.7	-0.9

Colour properties

Correlated Colour Temperature : 4000

Ra: 80

Rendimiento

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	102	100	98	96	94	94	93	91	86
2	92	87	83	86	83	80	83	80	78	73
3	81	75	70	77	72	68	74	70	67	63
4	73	66	60	69	63	59	67	62	58	55
5	66	58	53	62	56	51	60	55	51	48
6	60	52	46	57	50	46	55	49	45	42
7	54	47	41	52	45	41	51	45	40	38
8	50	42	37	48	41	37	47	41	36	34
9	46	39	33	44	38	33	43	37	33	31
10	43	35	31	41	35	30	40	34	30	28

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	52	44	50	42	50	43	48	42	41	35
0.80	63	54	59	52	60	53	57	51	51	44
1.00	72	63	67	60	68	61	64	58	58	51
1.25	82	73	75	68	77	70	72	67	66	60
1.50	88	80	80	74	82	76	77	72	71	65
2.00	96	89	86	81	89	84	83	79	78	72
2.50	103	96	91	86	95	90	88	84	83	78
3.00	107	101	94	90	99	95	91	88	87	82
4.00	112	107	97	94	103	99	94	91	90	85
5.00	116	111	99	97	106	102	96	94	92	88