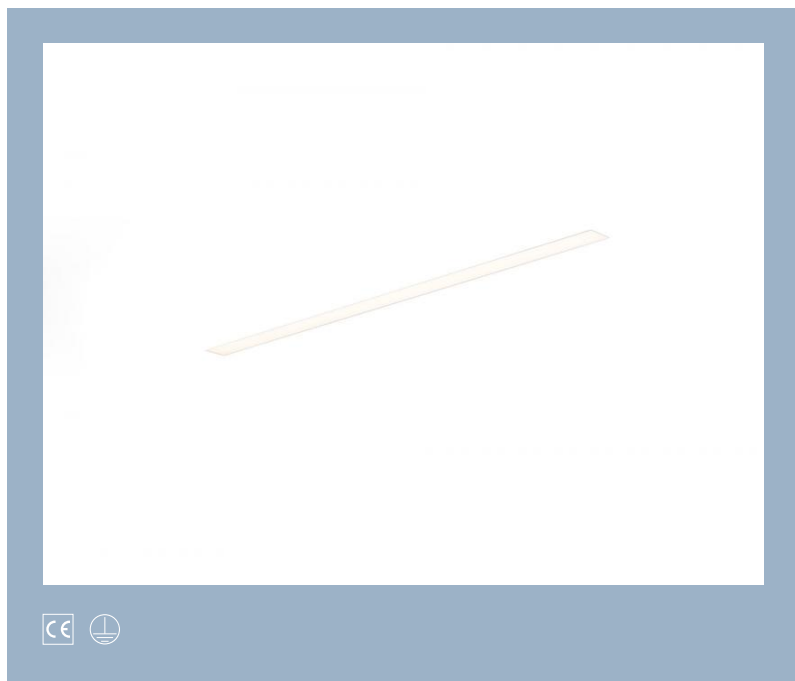


V2M1B1/LEDN21S



módulo • linear

aplicação : Escritório, Retalho, Horeca, Ensino, Lazer

fonte de luz : low power LED • 4000 K

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

classificação UGR : <=25

fluxo luminoso: 2150 lm

fluxo luminoso específico : 154 lm/W

LLMF: 98% @ 50khrs (Tq=25°C)

Product information

Medidas

dimensões : 900 mm x 55 mm x 50 mm

tipo : montagem em linha: luminária de extremidade

Equipamento eléctrico

driver: não regulável

consumo de corrente : 14 W

tensão : 220-240V

frequência : 50-60Hz AC

segurança fotobiológica : EN 62471: RISK GROUP 0 UNLIMITED



Luminance

fluxo luminoso : 2150 lm

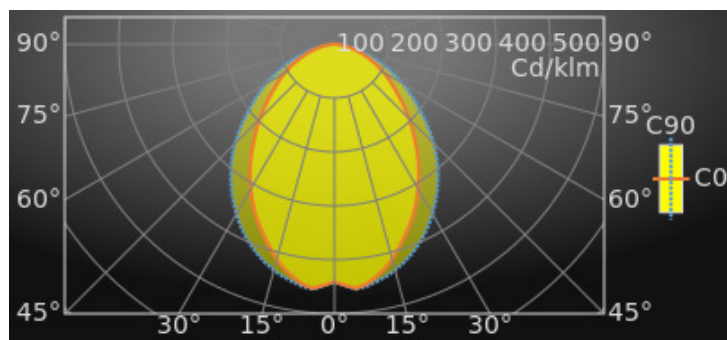
fluxo luminoso específico : 154 lm/W

classificação UGR ≤ 25

área luminosa : 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



Classificações

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



Intensidades luminosas em cd

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

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

classificação UGR

Corrected Glare Ratings for a Total Lamp Flux of 2150lm (S = 0.25H)

Ceiling Walls Floor	Room Reflection Factors (%)									
	70	70	50	50	30	70	70	50	50	30
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

Eficiência

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	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 (%)									
	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	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

