

R3111/LEDW445DX1



luminária suspensa • linear

aplicação : Espaços de trabalho, Salas de aulas

base: aço lacada

fonte de luz : LED • 3000 K

óptica : Shielded lens • polycarbonate (PC) with aluminium thin film • extensiva média

classificação UGR : <=16

fluxo luminoso: 4200 lm

fluxo luminoso específico : 145 lm/W

LLMF: 98% @ 50khrs (Tq=25°C)

Product information

Medidas

dimensões : 1380 mm x 260 mm x 35 mm

cor: RAL9003 - branco (texturado)

tipo : luminária individual

IP: IP20

Equipamento eléctrico

driver: DALI regulável

potência : 29 W

tensão : 220-240V

frequência : 50-60Hz AC

segurança fotobiológica : EN 62471: RISK GROUP 1 UNLIMITED

Luminance

fluxo luminoso : 4200 lm

fluxo luminoso específico : 145 lm/W

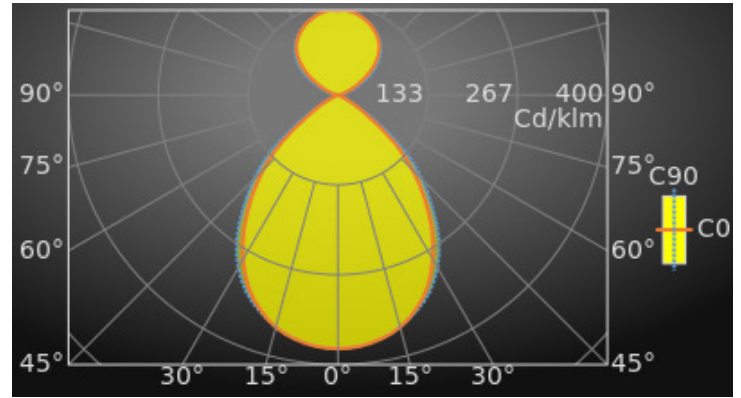
luminância @ 65° <= : 3000 cd/m²

classificação UGR <= : <=16

área luminosa : 0.12 m²

Average Luminances (Cd/m²) for 4200lm

Gamma	C0	C30	C45	C60	C90
45°	7810	8902	9386	9068	8772
50°	6016	7505	8089	7832	7136
55°	3381	5384	6689	6308	4389
60°	2099	3272	4592	3457	2074
65°	619	1264	2032	1623	1431
70°	363	449	653	1003	920
75°	257	296	360	556	752
80°	58	137	195	283	576
85°	0	0	0	30	361



Classificações

CIE: 459 / 648 / 671 / 672 / 1000

CIE FLUXCODE : 0.68 / 0.96 / 1.00 / 0.67 / 1.00

BZ: BZ2

CAE: Symmetrical

DIN: B52 (Nach Arbeitsblatt 7 und 8)

DIN_U: Phi u = 0.67

DIN_SU: Phi su = 0.70

UTE: 0.67 C + 0.33 T

Lifetime Data (Tq=25.0°C)

Time(khrs)	LLMF(%)	Cx(%)
10	99	1
20	99	2
30	99	3
40	98	4
50	98	5
60	98	6

classificação UGR <=

Corrected Glare Ratings for a Total Lamp Flux of 4200lm (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	50	30	50	30
	20	20	20	20	20	20	20	20	20	20	20	20	20
	Viewed Crosswise					Viewed Endwise							
X = 2H Y = 2H	15.0	16.1	15.7	16.9	17.5	15.5	16.6	16.2	17.3	18.0			
Y = 3H	14.8	15.8	15.5	16.5	17.2	15.3	16.3	16.1	17.0	17.7			
Y = 4H	14.7	15.6	15.4	16.3	17.0	15.2	16.1	16.0	16.9	17.6			
Y = 6H	14.5	15.4	15.3	16.1	16.9	15.1	15.9	15.9	16.7	17.4			
Y = 8H	14.5	15.3	15.3	16.1	16.8	15.1	15.9	15.9	16.6	17.4			
Y = 12H	14.4	15.2	15.2	16.0	16.7	15.0	15.8	15.8	16.6	17.3			
X = 4H Y = 2H	15.1	15.9	15.8	16.7	17.4	15.4	16.3	16.2	17.1	17.8			
Y = 3H	14.8	15.6	15.6	16.4	17.1	15.3	16.1	16.1	16.9	17.6			
Y = 4H	14.7	15.3	15.5	16.2	16.9	15.2	15.9	16.0	16.7	17.4			
Y = 6H	14.6	15.1	15.4	16.0	16.8	15.1	15.7	16.0	16.5	17.3			
Y = 8H	14.5	15.0	15.4	15.9	16.7	15.1	15.6	15.9	16.4	17.2			
Y = 12H	14.5	14.9	15.3	15.8	16.6	15.0	15.5	15.9	16.3	17.2			
X = 8H Y = 4H	14.5	15.0	15.4	15.9	16.7	15.0	15.6	15.9	16.4	17.2			
Y = 6H	14.4	14.8	15.3	15.7	16.5	15.0	15.4	15.8	16.2	17.1			
Y = 8H	14.3	14.7	15.2	15.6	16.4	14.9	15.3	15.8	16.1	17.0			
Y = 12H	14.3	14.6	15.2	15.5	16.4	14.8	15.1	15.7	16.0	16.9			
X = 12H Y = 4H	14.5	14.9	15.3	15.8	16.6	15.0	15.4	15.8	16.3	17.1			
Y = 6H	14.3	14.7	15.2	15.6	16.4	14.9	15.2	15.8	16.1	17.0			
Y = 8H	14.3	14.6	15.2	15.5	16.4	14.8	15.1	15.7	16.0	16.9			
	UGR Variations with Observer Position for Luminaire Spacings S												
S = 1.0H	+1.1		-2.3		+0.7		-1.5						
S = 1.5H	+2.3		-7.5		+2.1		-6.6						
S = 2.0H	+3.6		-14.7		+3.3		-8.3						

Intensidades luminosas em cd

Intensity for 4200lm

Gamma	C0	C45	C90	Gamma	C0	C45	C90
0°	1580.2	1580.2	1580.2	90°	0.2	0.3	1.3
5°	1571.9	1567.8	1566.6	95°	3.4	4.7	8.2
10°	1543.8	1542.0	1542.3	100°	12.8	17.9	25.4
15°	1498.1	1495.7	1493.6	105°	30.2	39.7	53.5
20°	1420.9	1429.6	1430.9	110°	59.0	75.0	95.6
25°	1320.9	1347.4	1353.4	115°	104.5	127.0	149.9
30°	1180.1	1231.9	1239.9	120°	167.5	191.8	215.5
35°	1021.1	1104.2	1096.7	125°	237.5	259.3	280.9
40°	839.2	945.2	914.1	130°	304.1	315.5	333.3
45°	656.0	788.4	736.9	135°	358.2	360.8	376.4
50°	459.4	617.7	545.0	140°	402.4	399.0	410.5
55°	230.4	455.8	299.1	145°	433.9	433.6	439.3
60°	124.7	272.7	123.2	150°	459.4	457.4	463.2
65°	31.1	102.0	71.8	155°	481.9	480.6	482.8
70°	14.7	26.5	37.4	160°	498.5	498.1	498.4
75°	7.9	11.1	23.1	165°	513.2	517.3	516.3
80°	1.2	4.0	11.9	170°	525.3	521.9	524.7
85°	0.0	0.0	3.7	175°	530.7	531.6	531.2
90°	0.2	0.3	1.3	180°	524.8	524.8	524.8

Colour properties

Correlated Colour Temperature : 3000

Ra: 80



Eficiência

Utilisation Factors according to IES (%)

	Room Reflection Factors (%)										
	Ceiling	Walls	Floor	1	2	3	4	5	6	7	8
RCR = 1	101	99	97	85	83	82	75	74	73	61	
2	91	87	84	76	74	72	68	66	65	54	
3	81	76	73	69	66	63	62	59	57	48	
4	73	67	63	63	58	55	56	53	50	42	
5	66	60	55	57	52	49	51	48	45	38	
6	60	53	49	52	47	43	47	43	40	34	
7	55	48	43	48	42	39	43	39	36	31	
8	50	43	39	44	39	35	40	36	32	28	
9	46	39	35	40	35	32	37	33	30	25	
10	43	36	31	37	32	29	34	30	27	23	

Utilisation Factors according to LiTG (%)

	Room Reflection Factors (%)										
	Ceiling	Walls	Floor	1	2	3	4	5	6	7	8
k = 0.60	51	43	49	42	45	39	43	38	36	29	
0.80	62	54	58	52	54	48	52	47	44	36	
1.00	70	62	65	59	61	55	58	53	49	41	
1.25	79	72	73	67	68	63	64	60	56	47	
1.50	85	78	77	72	73	68	68	64	60	50	
2.00	92	86	83	78	78	74	72	69	64	54	
2.50	98	92	86	83	82	78	76	73	67	57	
3.00	102	97	89	86	85	82	78	76	70	59	
4.00	106	102	92	89	88	85	80	78	72	61	
5.00	109	105	94	92	90	88	82	80	73	62	

Acessórios

R3H1200/150-5X1 *Conjunto de suspensão - caixa de suspensão (RAL9003-branco) - 5 pólos - max. 1 m*

R3H1100/150-5 *Conjunto de suspensão para montagem minimalista - 5 pólos - max. 1 m*

Esboço

