

R3118/LEDN650DX1



Anbauleuchte • quadratisch

Anwendung : Arbeitsbereiche, Klassenräume

Gehäuse: Lackiertes Stahlblech

Lichtquelle : LED • 4000 K

Optik : Shielded lens • Polycarbonat (PC)
Aluminium-bedampft • mittelbreit strahlend

UGR-Klassifizierung : ≤ 19

Lichtstrom: 5350 lm

Spezifischer Lichtstrom : 149 lm/W

LLMF: 98% @ 50khrs (T_q=25°C)

Product information

Mechanische Merkmale

Abmessungen : 630 mm x 630 mm x 35 mm

Farbe: RAL9003 - signalweiß (Strukturlack)

Typ : Einzelleuchte

IP: IP20

Elektrische Ausrüstung

Betriebsgerät: DALI dimmbar

Anschlussleistung : 36 W

Spannung : 220-240V

Frequenz : 50-60Hz AC

Fotobiologische Sicherheit : EN 62471: RISK GROUP 1
UNLIMITED

Leuchtdichte

Lichtstrom : 5350 lm

Spezifischer Lichtstrom : 149 lm/W

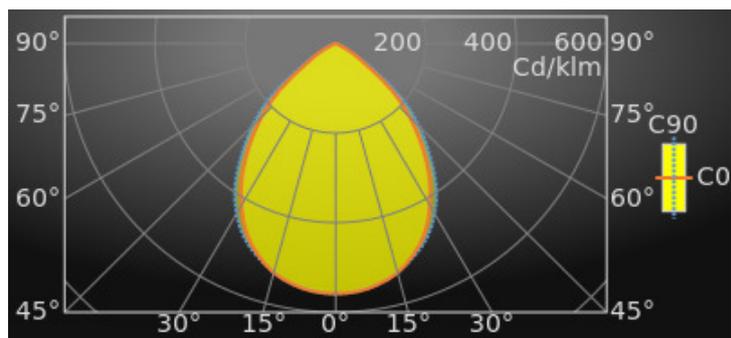
Leuchtdichte @ 65° <= : 3000 cd/m²

UGR-Klassifizierung <= : <=19

leuchtende Fläche : 0.18 m²

Average Luminances (Cd/m²) for 5350lm

Gamma	C0	C30	C45	C60	C90
45°	9852	11229	11839	11441	11066
50°	7602	9477	10211	9891	9015
55°	4291	6820	8461	7993	5570
60°	2679	4176	5848	4426	2652
65°	816	1651	2643	2101	1831
70°	471	599	879	1304	1191
75°	341	392	481	744	980
80°	94	199	278	403	780
85°	1	0	14	80	552



Klassifikationen

CIE: 681 / 963 / 997 / 1000 / 1000

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

BZ: BZ2

CAE: Symmetrical

DIN: A50 (Nach Arbeitsblatt 7)

DIN_U: Phi u = 1.00

DIN_SU: Phi su = 0.70

UTE: 1.00 C + 0.00 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

UGR-Klassifizierung <=

Corrected Glare Ratings for a Total Lamp Flux of 5350lm (S = 0.25H)

Room Dimensions	Room Reflection Factors (%)														
	Ceiling	Walls	Floor	70	70	50	50	30	70	70	50	50	30		
	70	70	50	50	30	70	70	50	50	30	70	70	50	50	30
	50	30	50	30	30	50	30	50	30	50	30	50	30	30	30
	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
Room Dimensions	Viewed Crosswise					Viewed Endwise									
X = 2H Y = 2H	17.9	19.5	18.2	19.7	20.0	18.3	19.9	18.6	20.2	20.4					
Y = 3H	17.7	19.2	18.1	19.4	19.7	18.3	19.7	18.6	20.0	20.3					
Y = 4H	17.6	19.0	18.0	19.3	19.6	18.2	19.5	18.6	19.8	20.1					
Y = 6H	17.6	18.8	17.9	19.1	19.4	18.1	19.4	18.5	19.7	20.0					
Y = 8H	17.5	18.7	17.9	19.0	19.4	18.1	19.3	18.5	19.6	20.0					
Y = 12H	17.5	18.6	17.9	18.9	19.3	18.1	19.2	18.5	19.5	19.9					
X = 4H Y = 2H	18.0	19.4	18.4	19.7	20.0	18.4	19.7	18.8	20.0	20.3					
Y = 3H	17.9	19.0	18.3	19.4	19.7	18.4	19.5	18.8	19.8	20.2					
Y = 4H	17.8	18.8	18.2	19.2	19.5	18.4	19.3	18.8	19.7	20.1					
Y = 6H	17.8	18.6	18.2	19.0	19.4	18.3	19.2	18.8	19.6	20.0					
Y = 8H	17.7	18.5	18.2	18.9	19.3	18.3	19.1	18.7	19.5	19.9					
Y = 12H	17.7	18.4	18.2	18.8	19.3	18.3	19.0	18.7	19.4	19.9					
X = 8H Y = 4H	17.7	18.5	18.2	18.9	19.4	18.3	19.1	18.7	19.5	19.9					
Y = 6H	17.7	18.3	18.2	18.8	19.2	18.3	18.9	18.7	19.3	19.8					
Y = 8H	17.7	18.2	18.1	18.7	19.2	18.2	18.8	18.7	19.3	19.7					
Y = 12H	17.6	18.1	18.1	18.6	19.1	18.2	18.7	18.7	19.2	19.7					
X = 12H Y = 4H	17.7	18.4	18.2	18.9	19.3	18.2	19.0	18.7	19.4	19.8					
Y = 6H	17.7	18.2	18.1	18.7	19.2	18.2	18.8	18.7	19.2	19.7					
Y = 8H	17.6	18.1	18.1	18.6	19.1	18.2	18.7	18.7	19.2	19.7					
UGR Variations with Observer Position for Luminaire Spacings S															
S = 1.0H	+1.0		-2.3		+0.7		-1.4								
S = 1.5H	+2.2		-7.4		+2.1		-6.4								
S = 2.0H	+3.6		-14.2		+3.3		-8.1								

Lichtstärken in cd

Intensity for 5350lm

Gamma	C0	C45	C90
0°	2988.4	2988.4	2988.4
5°	2972.7	2964.9	2962.5
10°	2919.4	2916.0	2916.6
15°	2833.0	2828.6	2824.5
20°	2687.0	2703.6	2706.0
25°	2498.1	2548.2	2559.6
30°	2231.8	2329.7	2345.1
35°	1931.1	2088.2	2074.3
40°	1587.4	1787.9	1729.1
45°	1241.5	1491.7	1394.4
50°	870.7	1169.6	1032.6
55°	438.6	864.8	569.3
60°	238.7	521.1	236.3
65°	61.4	199.0	137.9
70°	28.7	53.5	72.6
75°	15.7	22.2	45.2
80°	2.9	8.6	24.1
85°	0.0	0.2	8.6
90°	0.0	0.0	0.0

Colour properties

Correlated Colour Temperature : 4000

Farbwiedergabeindex Ra: 80



Leuchten-Betriebwirkungsgrad

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	108	106	104	102	100	99	98	97	96	90
2	97	93	90	92	89	87	89	86	84	80
3	88	83	79	83	79	76	81	77	75	71
4	80	74	69	76	71	67	74	70	66	63
5	72	66	61	69	64	60	67	63	59	56
6	66	59	54	64	58	54	62	57	53	50
7	61	54	49	59	53	48	57	52	48	46
8	56	49	44	54	48	44	53	47	43	41
9	52	45	40	50	44	40	49	44	40	38
10	48	41	37	47	41	37	46	40	36	35

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	59	51	56	50	57	50	55	49	49	43
0.80	71	63	67	60	68	61	65	60	59	54
1.00	80	72	74	68	76	69	72	67	66	61
1.25	90	82	82	77	85	79	80	76	75	70
1.50	95	88	87	82	90	84	84	80	79	75
2.00	103	96	92	88	96	91	89	86	85	80
2.50	108	102	96	92	100	96	93	90	89	85
3.00	112	108	98	96	104	101	96	94	92	88
4.00	116	112	100	98	107	104	97	96	94	90
5.00	119	115	102	100	109	106	99	98	96	93

Vermaßte Skizze

