

# D21R1/LEDW20DX2



**Anbauleuchte • rund**

Anwendung : Sonstiges

Gehäuse: lackiertes Aluminium

Lichtquelle : LED • 3000 K

Optik : Reflektor • Aluminium, seidenmattes • breit strahlend

UGR-Klassifizierung :  $\leq 22$

Lichtstrom: 2200 lm

Spezifischer Lichtstrom : 110 lm/W

LLMF: 98% @ 50khrs (Tq=25°C)

## Product information

### Mechanische Merkmale

Abmessungen : 200 mm x 212 mm

Farbe: RAL9006 - weißaluminium (Strukturlack)

Typ : Einzelleuchte

### Elektrische Ausrüstung

Betriebsgerät: DALI dimmbar

Anschlussleistung : 20 W

Spannung : 230-240V

Frequenz : 50Hz AC

Fotobiologische Sicherheit : EN 62471: RISK GROUP 1 UNLIMITED

current : 4 A

## Leuchtdichte

Lichtstrom : 2200 lm

Spezifischer Lichtstrom : 110 lm/W

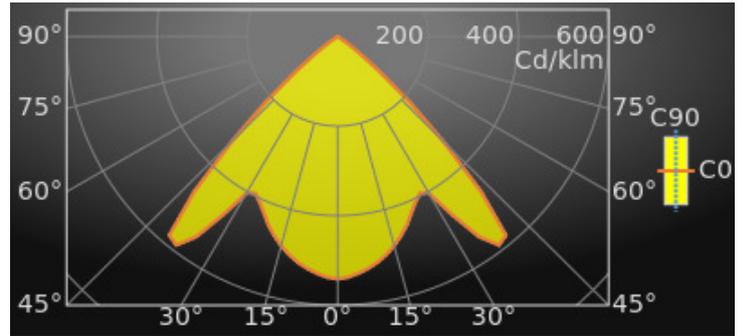
Leuchtdichte @ 65° = : 1000 cd/m<sup>2</sup>

UGR-Klassifizierung =: <=22

leuchtende Fläche : 0.02 m<sup>2</sup>

Average Luminances (Cd/m<sup>2</sup>) for 2200lm

Gamma	C0	C30	C45	C60	C90
45°	43543	43543	43543	43543	43543
50°	17017	17017	17017	17017	17017
55°	3915	3915	3915	3915	3915
60°	71	71	71	71	71
65°	8	8	8	8	8
70°	0	0	0	0	0
75°	0	0	0	0	0
80°	0	0	0	0	0
85°	0	0	0	0	0



## Klassifikationen

CIE: 746 / 1000 / 1000 / 1000 / 1000

CIE FLUXCODE : 0.75 / 1.00 / 1.00 / 1.00 / 1.00

BZ: BZ2/3/BZ1/4/BZ2

CAE: Symmetrical

DIN: A60 (Nach Arbeitsblatt 7)

DIN\_U: Phi u = 1.00

DIN\_SU: Phi su = 0.72

UTE: 1.00 B + 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

UGR-Klassifizierung =

Corrected Glare Ratings for a Total Lamp Flux of 2200lm (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	22.4	24.0	22.7	24.2	24.5	22.4	24.0	22.7	24.2	24.5
Y = 3H	22.2	23.6	22.5	23.9	24.2	22.2	23.6	22.5	23.9	24.2
Y = 4H	22.1	23.4	22.5	23.7	24.0	22.1	23.4	22.5	23.7	24.0
Y = 6H	22.0	23.2	22.4	23.5	23.9	22.0	23.2	22.4	23.5	23.9
Y = 8H	22.0	23.1	22.4	23.5	23.8	22.0	23.1	22.4	23.5	23.8
Y = 12H	22.0	23.1	22.4	23.4	23.7	22.0	23.1	22.4	23.4	23.7
X = 4H Y = 2H	22.1	23.4	22.5	23.7	24.0	22.1	23.4	22.5	23.7	24.0
Y = 3H	22.0	23.1	22.4	23.4	23.7	22.0	23.1	22.4	23.4	23.7
Y = 4H	21.9	22.8	22.3	23.2	23.6	21.9	22.8	22.3	23.2	23.6
Y = 6H	21.8	22.7	22.3	23.0	23.4	21.8	22.7	22.3	23.0	23.4
Y = 8H	21.8	22.6	22.2	23.0	23.4	21.8	22.6	22.2	23.0	23.4
Y = 12H	21.8	22.5	22.2	22.9	23.3	21.8	22.5	22.2	22.9	23.3
X = 8H Y = 4H	21.8	22.6	22.2	23.0	23.4	21.8	22.6	22.2	23.0	23.4
Y = 6H	21.7	22.4	22.2	22.8	23.3	21.7	22.4	22.2	22.8	23.3
Y = 8H	21.7	22.3	22.2	22.7	23.2	21.7	22.3	22.2	22.7	23.2
Y = 12H	21.7	22.2	22.1	22.6	23.2	21.7	22.2	22.1	22.6	23.2
X = 12H Y = 4H	21.8	22.5	22.2	22.9	23.3	21.8	22.5	22.2	22.9	23.3
Y = 6H	21.7	22.3	22.2	22.7	23.2	21.7	22.3	22.2	22.7	23.2
Y = 8H	21.7	22.2	22.1	22.6	23.2	21.7	22.2	22.1	22.6	23.2
UGR Variations with Observer Position for Luminaire Spacings S										
S = 1.0H	+2.9		-13.9			+2.9		-13.9		
S = 1.5H	+5.6		+0.0			+5.6		+0.0		
S = 2.0H	+7.6		+0.0			+7.6		+0.0		

Lichtstärken in cd

Intensity for 2200lm

Gamma	C0	C45	C90
0°	1190.5	1190.5	1190.5
5°	1166.6	1166.6	1166.6
10°	1124.6	1124.6	1124.6
15°	1062.8	1062.8	1062.8
20°	985.2	985.2	985.2
25°	898.2	898.2	898.2
30°	885.6	885.6	885.6
35°	1200.0	1200.0	1200.0
40°	1274.0	1274.0	1274.0
45°	723.8	723.8	723.8
50°	257.1	257.1	257.1
55°	52.8	52.8	52.8
60°	0.8	0.8	0.8
65°	0.1	0.1	0.1
70°	0.0	0.0	0.0
75°	0.0	0.0	0.0
80°	0.0	0.0	0.0
85°	0.0	0.0	0.0
90°	0.0	0.0	0.0

Colour properties

Correlated Colour Temperature : 3000

Farbwiedergabeindex Ra: CRI (Ra) 80



## Leuchten-Betriebwirkungsgrad

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	109	107	105	103	101	100	99	98	97	91
2	99	95	93	94	91	89	91	88	86	82
3	90	85	81	86	82	79	83	80	77	73
4	82	76	72	78	73	70	76	72	69	66
5	75	68	64	71	66	62	70	65	62	59
6	68	61	57	65	60	56	64	59	55	53
7	62	56	51	60	54	50	59	54	50	47
8	57	50	46	55	49	45	54	49	45	43
9	53	46	41	51	45	41	50	45	41	39
10	49	42	38	48	42	37	47	41	37	35

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	59	51	56	50	57	50	55	49	49	43
0.80	73	65	69	63	70	64	67	62	61	56
1.00	82	74	76	70	78	72	74	69	68	63
1.25	91	84	83	78	86	81	81	77	76	72
1.50	97	90	88	84	91	86	86	82	81	77
2.00	104	97	93	89	97	92	90	87	86	82
2.50	109	104	96	93	101	97	94	91	90	86
3.00	113	109	99	97	105	102	97	95	93	90
4.00	117	113	101	99	107	104	98	96	95	91
5.00	120	116	103	101	109	107	100	98	97	93

## Vermaßte Skizze

