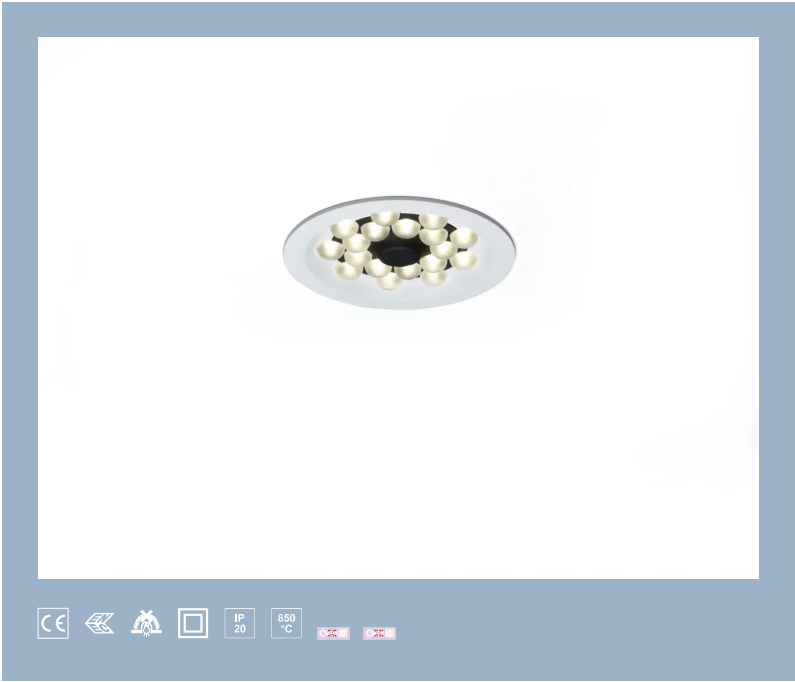


D42R1/LEDW1820D



luminaria empotrada • redonda

- aplicación : Espacios de oficina en general, Espacios de enseñanza en general
- carcasa: aluminio lacado
- fuenta luminosa : LED • 3000 K
- óptica : LED+LENS™ • Lente de policarbonato (PC) • extensiva
- clasificación UGR : <=22
- flujo luminoso: 2100 lm
- flujo luminoso específico : 117 lm/W
- LLMF: 98% @ 50khrs (Tq=25°C)

Product information

Características mecánicas

- dimensiones : 200 mm x 70 mm
- medida empotrada : 180 mm x 70 mm
- color: RAL9003 - blanco señales
- aro: aro plano
- tipo : luminaria individual
- IP: IP20

Equipo eléctrico

- controlador: DALI regulable
- potencia : 18 W
- tensión : 220-240V
- frecuencia : 50-60Hz AC
- seguridad fotobiológica : EN 62471: RISK GROUP 1 UNLIMITED
- current : 12 A

Luminance

flujo luminoso : 2100 lm

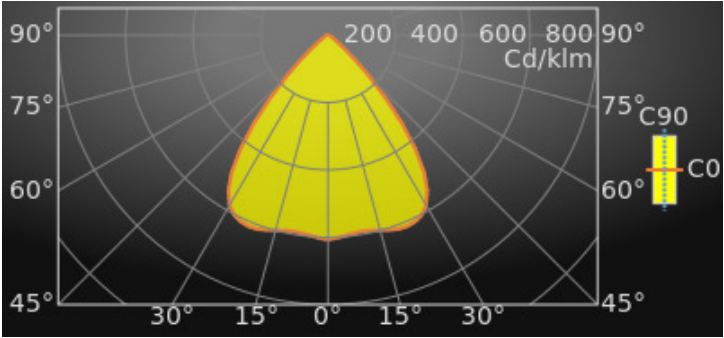
flujo luminoso específico : 117 lm/W

luminancia @ 65° = : 3000 cd/m²

classification UGR =: <=22

superficie luminoso : 0.02 m²

Gamma	Average Luminances (Cd/m²) for 2100lm				
	C0	C30	C45	C60	C90
45°	25653	25653	25653	25653	25653
50°	11031	11031	11031	11031	11031
55°	5537	5537	5537	5537	5537
60°	3481	3481	3481	3481	3481
65°	2653	2653	2653	2653	2653
70°	2250	2250	2250	2250	2250
75°	1956	1956	1956	1956	1956
80°	1681	1681	1681	1681	1681
85°	1324	1324	1324	1324	1324



Clasificaciones

CIE: 835 / 982 / 997 / 1000 / 1000

CIE FLUXCODE : 0.84 / 0.98 / 1.00 / 1.00 / 1.00

BZ: BZ1

CAE: Symmetrical

DIN: A60 (Nach Arbeitsblatt 7)

DIN_U: Phi u = 1.00

DIN_SU: Phi su = 0.76

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

Intensidad luminosa en cd

Intensity for 2100lm

Gamma	C0	C45	C90
0°	1273.9	1273.9	1273.9
5°	1254.1	1254.1	1254.1
10°	1240.8	1240.8	1240.8
15°	1257.9	1257.9	1257.9
20°	1285.5	1285.5	1285.5
25°	1283.5	1283.5	1283.5
30°	1223.4	1223.4	1223.4
35°	1044.4	1044.4	1044.4
40°	717.0	717.0	717.0
45°	364.7	364.7	364.7
50°	142.6	142.6	142.6
55°	63.9	63.9	63.9
60°	35.0	35.0	35.0
65°	22.5	22.5	22.5
70°	15.5	15.5	15.5
75°	10.2	10.2	10.2
80°	5.9	5.9	5.9
85°	2.3	2.3	2.3
90°	0.7	0.7	0.7

classification UGR =

Corrected Glare Ratings for a Total Lamp Flux of 2100lm (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	20.1	21.6	20.4	21.9	22.1	20.1	21.6	20.4	21.9	22.1
Y = 3H	20.0	21.4	20.3	21.6	21.9	20.0	21.4	20.3	21.6	21.9
Y = 4H	20.0	21.2	20.3	21.5	21.8	20.0	21.2	20.3	21.5	21.8
Y = 6H	19.9	21.0	20.3	21.3	21.7	19.9	21.0	20.3	21.3	21.7
Y = 8H	19.9	21.0	20.3	21.3	21.6	19.9	21.0	20.3	21.3	21.6
Y = 12H	19.9	20.9	20.2	21.2	21.5	19.9	20.9	20.2	21.2	21.5
X = 4H Y = 2H	19.9	21.2	20.3	21.5	21.8	19.9	21.2	20.3	21.5	21.8
Y = 3H	19.9	20.9	20.2	21.2	21.6	19.9	20.9	20.2	21.2	21.6
Y = 4H	19.8	20.7	20.2	21.1	21.4	19.8	20.7	20.2	21.1	21.4
Y = 6H	19.8	20.6	20.2	21.0	21.4	19.8	20.6	20.2	21.0	21.4
Y = 8H	19.8	20.5	20.2	20.9	21.3	19.8	20.5	20.2	20.9	21.3
Y = 12H	19.7	20.4	20.2	20.8	21.3	19.7	20.4	20.2	20.8	21.3
X = 8H Y = 4H	19.7	20.5	20.2	20.9	21.3	19.7	20.5	20.2	20.9	21.3
Y = 6H	19.7	20.3	20.2	20.8	21.2	19.7	20.3	20.2	20.8	21.2
Y = 8H	19.7	20.2	20.2	20.7	21.2	19.7	20.2	20.2	20.7	21.2
Y = 12H	19.7	20.2	20.2	20.6	21.2	19.7	20.2	20.2	20.6	21.2
X = 12H Y = 4H	19.7	20.4	20.2	20.8	21.2	19.7	20.4	20.2	20.8	21.2
Y = 6H	19.7	20.2	20.2	20.7	21.2	19.7	20.2	20.2	20.7	21.2
Y = 8H	19.7	20.1	20.2	20.6	21.1	19.7	20.1	20.2	20.6	21.1
	UGR Variations with Observer Position for Luminaire Spacings S									
S = 1.0H	+2.8		-6.6			+2.8		-6.6		
S = 1.5H	+5.1		-8.2			+5.1		-8.2		
S = 2.0H	+7.1		-8.9			+7.1		-8.9		

Colour properties

Correlated Colour Temperature : 3000

Ra: CRI (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	109	107	106	103	101	100	99	98	97	92
2	100	96	94	95	92	90	92	89	88	83
3	91	87	83	87	83	81	85	81	79	75
4	84	78	74	80	76	73	78	74	72	68
5	77	71	67	74	69	66	72	68	65	62
6	71	65	60	69	63	60	67	62	59	56
7	66	59	55	64	58	54	62	57	54	52
8	61	55	50	59	54	50	58	53	49	47
9	57	50	46	55	50	46	54	49	45	43
10	53	47	42	52	46	42	51	45	42	40

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	65	58	62	56	63	57	61	56	55	50
0.80	77	70	72	67	74	68	71	66	66	61
1.00	85	77	79	73	81	75	77	72	72	67
1.25	94	88	86	82	90	84	84	81	80	76
1.50	99	93	90	86	94	89	88	85	84	80
2.00	106	100	95	91	99	95	92	90	89	85
2.50	111	106	98	95	103	99	95	93	92	88
3.00	115	110	100	98	106	103	98	96	95	91
4.00	118	114	102	100	108	106	99	98	96	93
5.00	121	117	103	102	110	108	100	99	98	94

Esquema

