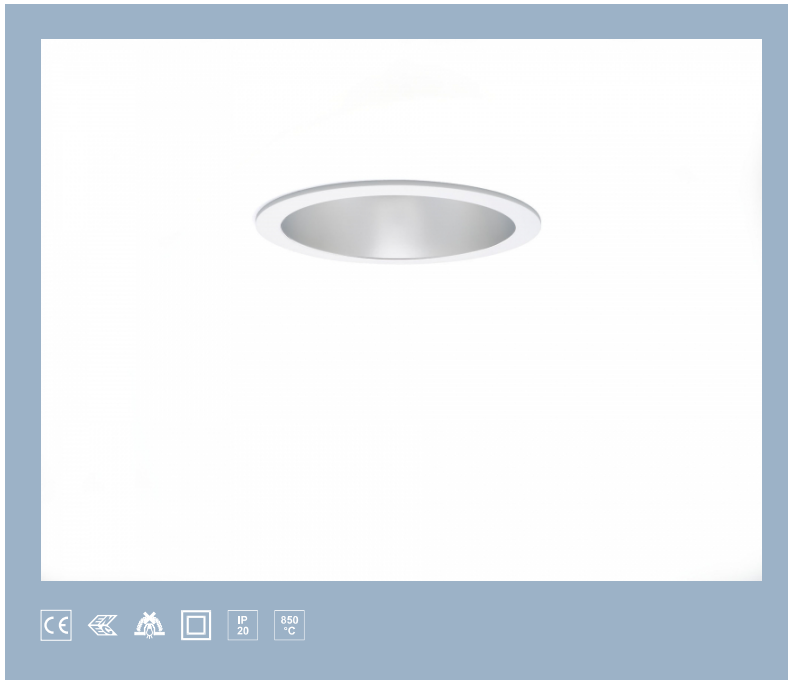


# D90/LEDN10SX1



•  
aplicación : Oficinas, Sector de salud, Enseñanza, Hostelería, Comercio, Ocio

carcasa: policarbonato

fuenta luminosa : 4000 K

clasificación UGR : <=19

flujo luminoso: 1250 lm

flujo luminoso específico : 120 lm/W

LLMF: 99% @ 50khrs (Tq=25°C)

## Product information

### Características mecánicas

dimensiones : 190 mm x 100 mm

medida empotrada : 175 mm x 100 mm

aro: aro plano

IP: IP20

### Equipo eléctrico

controlador: no regulable

consumo de energía : 10.4 W

tensión : 220-240V

frecuencia : 50-60Hz AC/DC

seguridad fotobiológica : EN 62471: RISK GROUP 1 UNLIMITED

## Luminance

flujo luminoso : 1250 lm

flujo luminoso específico : 120 lm/W

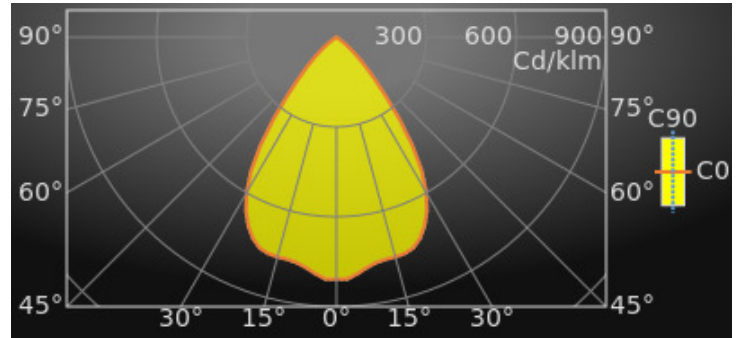
luminancia @ 65° 1000 cd/m<sup>2</sup>

classification UGR <=19

superficie luminoso : 0.02 m<sup>2</sup>

Average Luminances (Cd/m<sup>2</sup>) for 1250lm

Gamma	C0	C30	C45	C60	C90
45°	12588	12588	12588	12588	12588
50°	6215	6215	6215	6215	6215
55°	1111	1111	1111	1111	1111
60°	116	116	116	116	116
65°	22	22	22	22	22
70°	2	2	2	2	2
75°	0	0	0	0	0
80°	0	0	0	0	0
85°	0	0	0	0	0



## Clasificaciones

CIE: 900 / 1000 / 1000 / 1000 / 1000

CIE FLUXCODE : 0.90 / 1.00 / 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 = 0.81

UTE: 1.00 A + 0.00 T

Lifetime Data (Tq=25.0°C)

Time(khrs)	LLMF(%)	Cx(%)
10	100	2
20	100	4
30	100	6
40	99	8
50	99	10
60	99	12

classification UGR

Corrected Glare Ratings for a Total Lamp Flux of 1250lm (S = 0.25H)

Intensidad luminosa en cd

Intensity for 1250lm

Gamma	C0	C45	C90
0°	1010.2	1010.2	1010.2
5°	992.1	992.1	992.1
10°	955.6	955.6	955.6
15°	949.4	949.4	949.4
20°	936.1	936.1	936.1
25°	869.4	869.4	869.4
30°	749.1	749.1	749.1
35°	553.1	553.1	553.1
40°	317.1	317.1	317.1
45°	170.1	170.1	170.1
50°	76.4	76.4	76.4
55°	12.2	12.2	12.2
60°	1.1	1.1	1.1
65°	0.2	0.2	0.2
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

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	17.2	18.6	17.5	18.9	19.1	17.2	18.6	17.5	18.9	19.1
Y = 3H	17.0	18.3	17.4	18.5	18.8	17.0	18.3	17.4	18.5	18.8
Y = 4H	17.0	18.1	17.3	18.4	18.7	17.0	18.1	17.3	18.4	18.7
Y = 6H	16.9	17.9	17.2	18.2	18.6	16.9	17.9	17.2	18.2	18.6
Y = 8H	16.9	17.9	17.2	18.2	18.5	16.9	17.9	17.2	18.2	18.5
Y = 12H	16.8	17.8	17.2	18.1	18.4	16.8	17.8	17.2	18.1	18.4
X = 4H Y = 2H	17.0	18.1	17.3	18.4	18.7	17.0	18.1	17.3	18.4	18.7
Y = 3H	16.8	17.8	17.2	18.1	18.4	16.8	17.8	17.2	18.1	18.4
Y = 4H	16.8	17.6	17.2	17.9	18.3	16.8	17.6	17.2	17.9	18.3
Y = 6H	16.7	17.4	17.1	17.8	18.2	16.7	17.4	17.1	17.8	18.2
Y = 8H	16.7	17.3	17.1	17.7	18.1	16.7	17.3	17.1	17.7	18.1
Y = 12H	16.6	17.2	17.1	17.6	18.1	16.6	17.2	17.1	17.6	18.1
X = 8H Y = 4H	16.7	17.3	17.1	17.7	18.1	16.7	17.3	17.1	17.7	18.1
Y = 6H	16.6	17.1	17.0	17.6	18.0	16.6	17.1	17.0	17.6	18.0
Y = 8H	16.5	17.0	17.0	17.5	18.0	16.5	17.0	17.0	17.5	18.0
Y = 12H	16.5	16.9	17.0	17.4	17.9	16.5	16.9	17.0	17.4	17.9
X = 12H Y = 4H	16.6	17.2	17.1	17.6	18.1	16.6	17.2	17.1	17.6	18.1
Y = 6H	16.5	17.0	17.0	17.5	18.0	16.5	17.0	17.0	17.5	18.0
Y = 8H	16.5	16.9	17.0	17.4	17.9	16.5	16.9	17.0	17.4	17.9
UGR Variations with Observer Position for Luminaire Spacings S										
S = 1.0H	+3.7		-			+3.7		-		
			16.0					16.0		
S = 1.5H	+6.4		-			+6.4		-		
			36.1					36.1		
S = 2.0H	+8.4		-			+8.4		-		
			48.5					48.5		



## Colour properties

Correlated Colour Temperature : 4000

Ra: 80

## Rendimiento

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	110	109	107	104	103	102	100	99	98	93
2	102	99	96	97	94	92	94	92	90	85
3	94	90	87	90	87	84	87	85	82	78
4	87	82	78	84	80	77	81	78	75	72
5	81	75	71	78	73	70	76	72	69	66
6	75	69	65	73	68	64	71	67	64	61
7	70	64	60	68	63	59	67	62	59	56
8	65	59	55	64	58	55	62	58	54	52
9	61	55	51	60	54	51	59	54	50	49
10	57	51	47	56	51	47	55	50	47	45

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	71	65	68	63	69	64	67	62	62	58
0.80	82	75	77	72	79	73	75	71	71	67
1.00	89	82	83	78	85	80	81	77	77	72
1.25	98	92	90	86	94	89	88	85	85	81
1.50	103	97	93	90	97	93	91	89	88	84
2.00	109	104	97	95	102	99	95	93	92	88
2.50	113	108	100	98	105	102	97	96	94	91
3.00	117	113	102	100	108	106	100	98	97	94
4.00	119	116	103	102	110	107	100	99	98	94
5.00	122	119	104	103	112	110	102	101	99	96

# Esquema

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