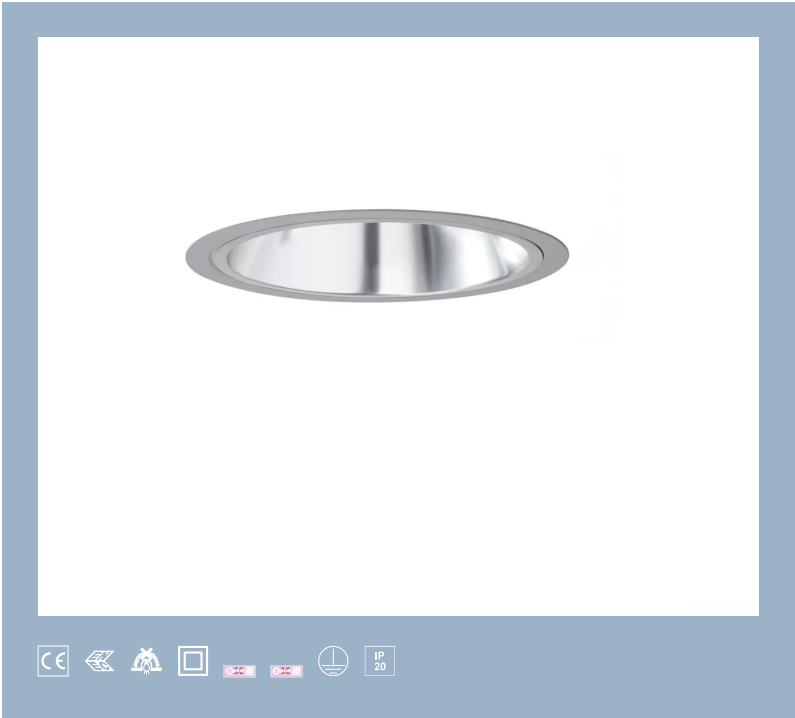


D11R1/LEDN10SX2



recessed luminaire • round

Application	: General office area's, Auditoria, General education area's
housing	: injection-moulded aluminium
light source	: LED • 4000 K
optics	: reflector • aluminium, satin anodised • wide-angle
UGR classification	: <=22
luminous flux	: 1250 lm
luminous efficacy	: 125 lm/W
LLMF	: 99% @ 50khrs (Tq=25°C)

Product information

Mechanical properties

dimensions	: 220 mm x 120 mm
cut-out size	: 205 mm x 120 mm
colour	: RAL9006 - white aluminium
trim	: wafer trim
type	: individual luminaire
IP	: IP20

Electrical properties

driver	: not dimmable
power	: 10 W
voltage	: 230-240V
frequency	: 50Hz AC
photobiological safety	: EN 62471: RISK GROUP 1 UNLIMITED

Luminance

luminous flux : 1250 lm

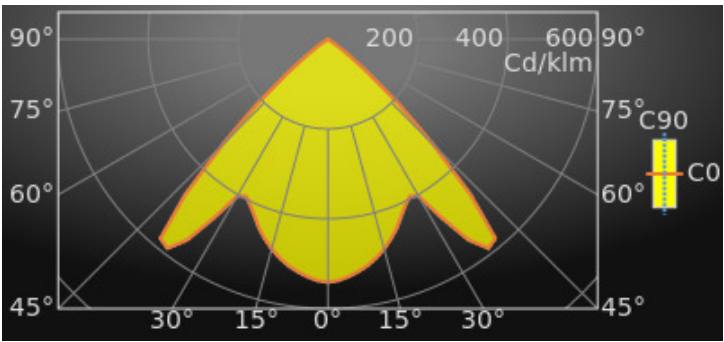
luminous efficacy : 125 lm/W

luminance @ 65° = : 1000 cd/m²

UGR classification =: <=22

luminous area : 0.02 m²

Gamma	Average Luminances (Cd/m²) for 1250lm				
	C0	C30	C45	C60	C90
45°	24741	24741	24741	24741	24741
50°	9669	9669	9669	9669	9669
55°	2224	2224	2224	2224	2224
60°	40	40	40	40	40
65°	4	4	4	4	4
70°	0	0	0	0	0
75°	0	0	0	0	0
80°	0	0	0	0	0
85°	0	0	0	0	0



Classifications

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



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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

Luminous intensities in cd

Intensity for 1250lm

Gamma	C0	C45	C90
0°	676.4	676.4	676.4
5°	662.9	662.9	662.9
10°	639.0	639.0	639.0
15°	603.9	603.9	603.9
20°	559.8	559.8	559.8
25°	510.3	510.3	510.3
30°	503.2	503.2	503.2
35°	681.8	681.8	681.8
40°	723.9	723.9	723.9
45°	411.2	411.2	411.2
50°	146.1	146.1	146.1
55°	30.0	30.0	30.0
60°	0.5	0.5	0.5
65°	0.0	0.0	0.0
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

UGR classification =

Corrected Glare Ratings for a Total Lamp Flux of 1250lm (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	20.4	22.0	20.7	22.3	22.5	20.4	22.0	20.7	22.3	22.5
Y = 3H	20.2	21.6	20.6	21.9	22.2	20.2	21.6	20.6	21.9	22.2
Y = 4H	20.2	21.5	20.5	21.7	22.0	20.2	21.5	20.5	21.7	22.0
Y = 6H	20.1	21.3	20.4	21.6	21.9	20.1	21.3	20.4	21.6	21.9
Y = 8H	20.0	21.2	20.4	21.5	21.8	20.0	21.2	20.4	21.5	21.8
Y = 12H	20.0	21.1	20.4	21.4	21.8	20.0	21.1	20.4	21.4	21.8
X = 4H Y = 2H	20.2	21.5	20.5	21.8	22.1	20.2	21.5	20.5	21.8	22.1
Y = 3H	20.0	21.1	20.4	21.4	21.8	20.0	21.1	20.4	21.4	21.8
Y = 4H	19.9	20.9	20.3	21.2	21.6	19.9	20.9	20.3	21.2	21.6
Y = 6H	19.9	20.7	20.3	21.1	21.5	19.9	20.7	20.3	21.1	21.5
Y = 8H	19.8	20.6	20.3	21.0	21.4	19.8	20.6	20.3	21.0	21.4
Y = 12H	19.8	20.5	20.3	20.9	21.4	19.8	20.5	20.3	20.9	21.4
X = 8H Y = 4H	19.8	20.6	20.3	21.0	21.4	19.8	20.6	20.3	21.0	21.4
Y = 6H	19.8	20.4	20.2	20.8	21.3	19.8	20.4	20.2	20.8	21.3
Y = 8H	19.7	20.3	20.2	20.7	21.2	19.7	20.3	20.2	20.7	21.2
Y = 12H	19.7	20.2	20.2	20.7	21.2	19.7	20.2	20.2	20.7	21.2
X = 12H Y = 4H	19.8	20.5	20.3	20.9	21.4	19.8	20.5	20.3	20.9	21.4
Y = 6H	19.7	20.3	20.2	20.7	21.2	19.7	20.3	20.2	20.7	21.2
Y = 8H	19.7	20.2	20.2	20.7	21.2	19.7	20.2	20.2	20.7	21.2
	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		

Colour properties

Correlated Colour Temperature : 4000

Ra: CRI (Ra) 80

Efficiency

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

Dimensional drawing

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