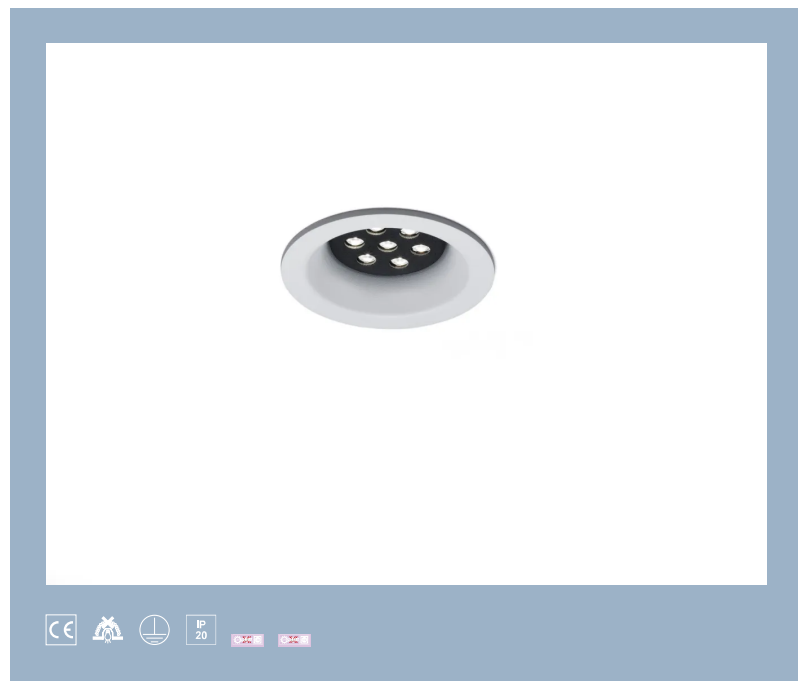


FLARE-11/LEDN10S



recessed luminaire • round

Application : Toilet, Offices ? Reception, Offices ? Meeting room

housing: injection-moulded aluminium

light source : LED • 4000 K

optics : LED+LENS™ Flare • polycarbonate (PC)
lens • fixed medium wide-angle

UGR classification : <=16

luminous flux: 1350 lm

luminous efficacy : 113 lm/W

LLMF: 96% @ 50khrs (Tq=25°C)

Product information

Mechanical properties

dimensions : 98 mm x 63 mm

cut-out size : 81 mm x 63 mm

shape : individual round

colour: RAL9003 - white

type : individual luminaire

IP: IP20

Electrical properties

driver: not dimmable

power : 12 W

voltage : 220-240V

frequency : 50/60Hz AC

photobiological safety : EN 62471: RISK GROUP 1
UNLIMITED

current : 4 A

Luminance

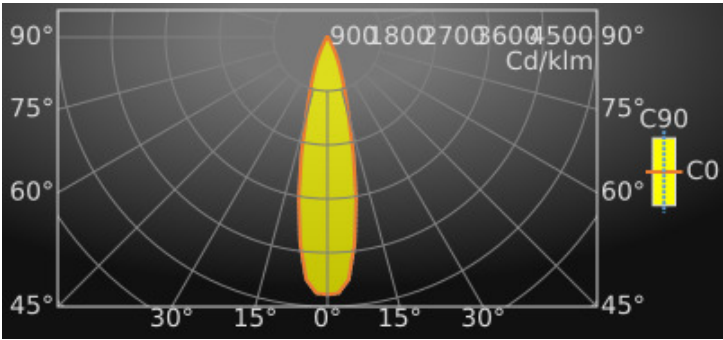
luminous flux : 1350 lm

luminous efficacy : 113 lm/W

luminance @ 65° = : 3000 cd/m²

UGR classification =: <=16

Gamma	Average Luminances (Cd/m²) for 1350lm				
	C0	C30	C45	C60	C90
45°	22586	22586	22586	22586	22586
50°	15495	15495	15495	15495	15495
55°	7260	7260	7260	7260	7260
60°	3637	3637	3637	3637	3637
65°	2617	2617	2617	2617	2617
70°	2153	2153	2153	2153	2153
75°	2471	2471	2471	2471	2471
80°	4079	4079	4079	4079	4079
85°	7660	7660	7660	7660	7660



Classifications

CIE: 984 / 998 / 999 / 1000 / 1000

CIE FLUXCODE : 0.98 / 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 = 0.96

UTE: 1.00 A + 0.00 T

Lifetime Data (Tq=25.0°C)

Time(hrs)	LLMF(%)	Cx(%)
10000	99	2
20000	98	4
30000	98	6
40000	97	8
50000	96	9
60000	96	11
70000	95*	13
80000	95*	15
90000	94*	17
100000	93*	18

Luminous intensities in cd

Intensity for 1350lm

Gamma	C0	C45	C90
0°	5802.7	5802.7	5802.7
5°	5483.3	5483.3	5483.3
10°	3709.1	3709.1	3709.1
15°	1840.7	1840.7	1840.7
20°	971.2	971.2	971.2
25°	505.5	505.5	505.5
30°	184.9	184.9	184.9
35°	75.7	75.7	75.7
40°	36.4	36.4	36.4
45°	20.1	20.1	20.1
50°	12.5	12.5	12.5
55°	5.2	5.2	5.2
60°	2.3	2.3	2.3
65°	1.4	1.4	1.4
70°	0.9	0.9	0.9
75°	0.8	0.8	0.8
80°	0.9	0.9	0.9
85°	0.8	0.8	0.8
90°	0.8	0.8	0.8

UGR classification =

Corrected Glare Ratings for a Total Lamp Flux of 1350lm (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	13.2	14.0	13.4	14.2	14.4	13.2	14.0	13.4	14.2	14.4
Y = 3H	13.1	13.8	13.4	14.1	14.3	13.1	13.8	13.4	14.1	14.3
Y = 4H	13.0	13.7	13.3	14.0	14.3	13.0	13.7	13.3	14.0	14.3
Y = 6H	13.0	13.7	13.3	13.9	14.2	13.0	13.7	13.3	13.9	14.2
Y = 8H	13.0	13.7	13.4	13.9	14.3	13.0	13.7	13.4	13.9	14.3
Y = 12H	13.1	13.7	13.4	14.0	14.3	13.1	13.7	13.4	14.0	14.3
X = 4H Y = 2H	13.0	13.7	13.3	14.0	14.2	13.0	13.7	13.3	14.0	14.2
Y = 3H	12.9	13.5	13.3	13.8	14.1	12.9	13.5	13.3	13.8	14.1
Y = 4H	12.9	13.4	13.3	13.7	14.1	12.9	13.4	13.3	13.7	14.1
Y = 6H	12.9	13.4	13.3	13.7	14.1	12.9	13.4	13.3	13.7	14.1
Y = 8H	13.0	13.4	13.4	13.8	14.2	13.0	13.4	13.4	13.8	14.2
Y = 12H	13.1	13.5	13.5	13.9	14.3	13.1	13.5	13.5	13.9	14.3
X = 8H Y = 4H	12.8	13.2	13.2	13.6	14.0	12.8	13.2	13.2	13.6	14.0
Y = 6H	12.9	13.2	13.3	13.6	14.1	12.9	13.2	13.3	13.6	14.1
Y = 8H	13.0	13.3	13.5	13.7	14.2	13.0	13.3	13.5	13.7	14.2
Y = 12H	13.2	13.5	13.7	13.9	14.5	13.2	13.5	13.7	13.9	14.5
X = 12H Y = 4H	12.8	13.1	13.2	13.5	14.0	12.8	13.1	13.2	13.5	14.0
Y = 6H	12.9	13.2	13.3	13.6	14.1	12.9	13.2	13.3	13.6	14.1
Y = 8H	13.0	13.3	13.5	13.7	14.3	13.0	13.3	13.5	13.7	14.3
	UGR Variations with Observer Position for Luminaire Spacings S									
S = 1.0H	+4.1		-4.1			+4.1		-4.1		
S = 1.5H	+6.7		-5.1			+6.7		-5.1		
S = 2.0H	+8.7		-5.3			+8.7		-5.3		

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	113	112	111	107	106	105	103	102	102	96
2	108	106	104	103	101	100	100	99	98	93
3	103	100	98	99	97	95	97	95	94	90
4	99	96	93	96	93	91	94	92	90	87
5	95	92	89	92	90	87	91	88	87	84
6	92	88	85	89	86	84	88	85	83	81
7	89	85	82	87	83	81	86	83	81	78
8	86	82	79	84	81	78	83	80	78	76
9	83	79	76	82	78	76	81	78	76	74
10	80	77	74	79	76	74	79	76	73	72

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	98	94	93	91	97	93	93	91	91	89
0.80	101	97	95	93	99	95	94	92	92	90
1.00	106	101	98	96	102	99	97	96	95	93
1.25	111	106	101	100	106	103	100	99	98	96
1.50	113	108	102	101	107	104	100	99	99	97
2.00	116	113	104	103	110	107	102	101	100	98
2.50	119	115	105	104	111	109	103	102	101	98
3.00	120	117	105	105	112	110	103	102	101	99
4.00	123	120	106	105	113	111	103	103	101	99
5.00	124	122	107	106	114	112	104	103	102	99

Dimensional drawing

