D7R6RWW/N3CHD



recessed luminaire • linear, round edges

Application : General office area’s, Auditoria, General education area’s, General healthcare area’s, Patient rooms

light source : LED • 4000 K

optics : LED+LENS™ • white cups, polycarbonate • very wide-angle

UGR classification : <=22

luminous flux: 2200 lm

luminous efficacy : 100 lm/W

LLMF: 94% @ 50khrs (Tq=25°C)

Product information

Mechanical properties

dimensions : 445 mm x 95 mm x 40 mm

cut-out size : 433 mm x 83 mm x 40 mm

colour: RAL9003 - white (textured)

type : individual luminaire

IP: IP20

Electrical properties

driver: DALI dimmable

power : 22 W

voltage : 220-240V

frequency : 50-60Hz AC/DC

photobiological safety : EN 62471: RISK GROUP 1 UNLIMITED

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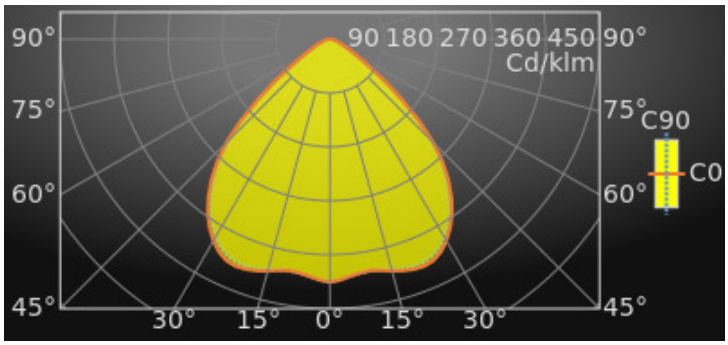
Luminance

luminous flux : 2200 lm

luminous efficacy : 100 lm/W

UGR classification =: <=22

luminous area : 0.03 m²



Average Luminances (Cd/m²) for 2200lm

Gamma	C0	C30	C45	C60	C90
45°	25877	38685	43798	37978	25351
50°	18187	32913	38252	32349	18180
55°	10695	19678	23222	19422	9975
60°	6313	8772	9846	8525	5763
65°	4332	5070	5178	4864	4082
70°	3434	3515	3515	3273	2992
75°	2978	2819	2570	2375	2251
80°	2246	2114	1717	1480	1348
85°	1024	616	543	614	624

Classifications

CIE: 632 / 959 / 995 / 1000 / 1000

CIE FLUXCODE : 0.63 / 0.96 / 1.00 / 1.00 / 1.00

BZ: BZ2

CAE: Symmetrical

DIN: A50 (Nach Arbeitsblatt 7)

DIN_U: Phi u = 1.00

DIN_SU: Phi su = 0.67

UTE: 1.00 C + 0.00 T

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Lifetime Data (Tq=25.0°C)

Time(hrs)	LLMF(%)	Cx(%)
10000	98	2
20000	97	4
30000	96	6
40000	95	8
50000	94	9
60000	93	11
70000	92*	13
80000	91*	15
90000	90*	17
100000	89*	18

Luminous intensities in cd

Intensity for 2200lm

Gamma	C0	C45	C90
0°	892.6	892.6	892.6
5°	873.7	872.2	873.4
10°	863.2	864.3	863.2
15°	881.2	889.3	874.6
20°	900.0	930.8	890.8
25°	898.1	974.5	881.1
30°	855.3	1007.8	840.0
35°	781.0	1019.2	766.2
40°	676.6	991.6	660.3
45°	537.9	910.5	527.0
50°	343.7	722.9	343.6
55°	180.4	391.6	168.2
60°	92.8	144.7	84.7
65°	53.8	64.3	50.7
70°	34.5	35.3	30.1
75°	22.7	19.6	17.1
80°	11.5	8.8	6.9
85°	2.6	1.4	1.6
90°	0.0	0.0	0.0

UGR classification =

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	22.2	23.9	22.5	24.1	24.4	22.1	23.7	22.4	24.0	24.3
Y = 3H	22.1	23.6	22.4	23.9	24.2	22.0	23.5	22.3	23.8	24.0
Y = 4H	22.1	23.5	22.4	23.8	24.1	21.9	23.3	22.3	23.6	23.9
Y = 6H	22.0	23.3	22.4	23.6	24.0	21.8	23.1	22.2	23.4	23.8
Y = 8H	22.0	23.2	22.4	23.6	23.9	21.8	23.0	22.2	23.4	23.7
Y = 12H	21.9	23.1	22.3	23.5	23.8	21.8	22.9	22.1	23.3	23.6
X = 4H Y = 2H	22.2	23.6	22.5	23.9	24.2	22.0	23.4	22.4	23.7	24.1
Y = 3H	22.1	23.3	22.5	23.7	24.0	22.0	23.2	22.4	23.5	23.9
Y = 4H	22.1	23.2	22.5	23.5	23.9	22.0	23.0	22.4	23.4	23.7
Y = 6H	22.1	23.0	22.5	23.4	23.8	21.9	22.8	22.3	23.2	23.6
Y = 8H	22.1	22.9	22.5	23.3	23.8	21.9	22.7	22.3	23.1	23.6
Y = 12H	22.1	22.8	22.5	23.2	23.7	21.9	22.6	22.3	23.0	23.5
X = 8H Y = 4H	22.1	22.9	22.5	23.3	23.7	21.9	22.7	22.3	23.1	23.6
Y = 6H	22.1	22.8	22.5	23.2	23.7	21.9	22.6	22.3	23.0	23.5
Y = 8H	22.1	22.7	22.5	23.1	23.6	21.9	22.5	22.3	22.9	23.4
Y = 12H	22.0	22.6	22.5	23.0	23.6	21.8	22.3	22.3	22.8	23.3
X = 12H Y = 4H	22.0	22.8	22.5	23.2	23.7	21.9	22.6	22.3	23.1	23.5
Y = 6H	22.0	22.6	22.5	23.1	23.6	21.9	22.5	22.3	22.9	23.4
Y = 8H	22.0	22.5	22.5	23.0	23.5	21.8	22.3	22.3	22.8	23.3
	UGR Variations with Observer Position for Luminaire Spacings S									
S = 1.0H	+1.8		-3.3			+1.9		-3.5		
S = 1.5H	+3.6		-6.4			+3.7		-7.1		
S = 2.0H	+4.1		-7.6			+4.2		-8.4		

Colour properties

Correlated Colour Temperature : 4000

Ra: CRI (Ra) 80

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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	107	105	103	101	99	98	97	96	95	89
2	96	92	89	91	88	85	88	85	83	78
3	86	81	77	82	77	74	79	75	73	69
4	78	71	66	74	69	65	72	67	64	60
5	70	63	58	67	61	57	65	60	56	53
6	64	56	51	61	55	50	59	54	50	47
7	58	51	45	56	49	45	54	49	45	42
8	53	46	41	51	45	40	50	44	40	38
9	49	41	37	47	41	36	46	40	36	34
10	45	38	33	44	37	33	43	37	33	31

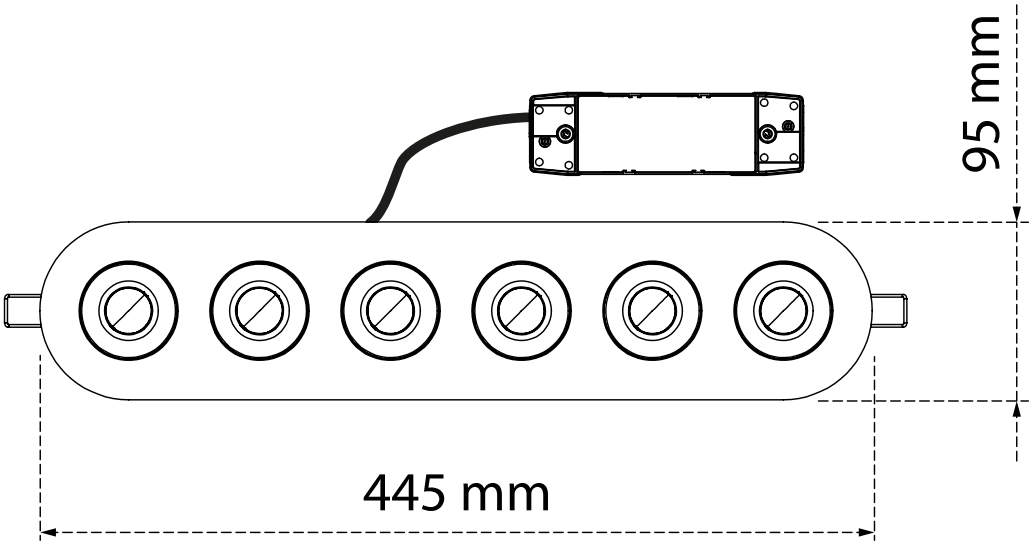
Utilisation Factors according to LiTG (%)

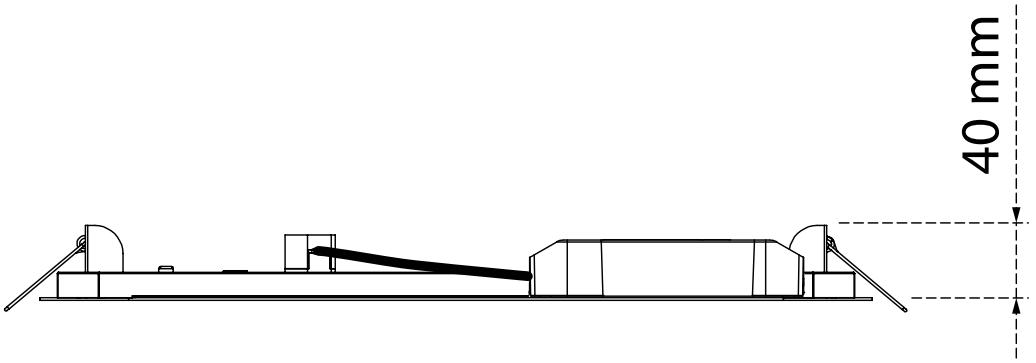
	Room Reflection Factors (%)									
Ceiling	80	80	80	50	50	50	50	50	30	0
Walls	50	30	50	30	50	30	50	30	30	0
Floor	30	30	10	10	30	30	10	10	10	0
k = 0.60	55	46	52	45	52	45	50	44	44	38
0.80	68	59	64	57	65	58	62	56	55	50
1.00	77	68	71	65	73	66	69	64	63	57
1.25	87	79	80	74	82	76	77	73	72	67
1.50	93	86	85	80	88	82	82	78	77	72
2.00	101	94	90	86	94	89	87	84	83	78
2.50	107	101	94	91	99	95	91	89	87	83
3.00	111	106	97	95	103	99	95	92	91	87
4.00	115	111	100	97	106	102	97	95	93	89
5.00	118	115	102	100	108	105	99	97	95	92

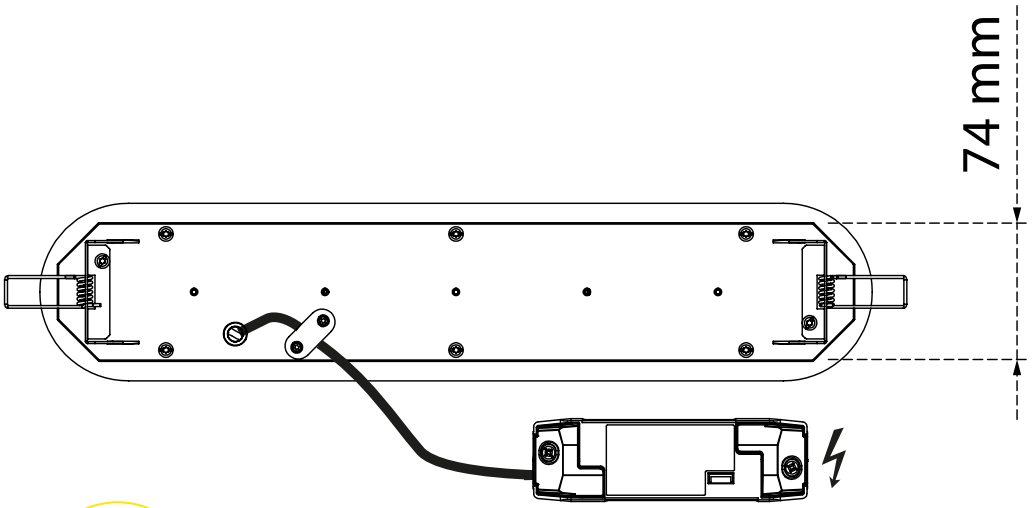
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Dimensional drawing







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