D7R6RBB/W2CHD



recessed luminaire • linear, round edges

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

light source : LED • 3000 K

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

UGR classification : <=22

luminous flux: 2100 lm

luminous efficacy : 96 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: RAL9005 - jetblack (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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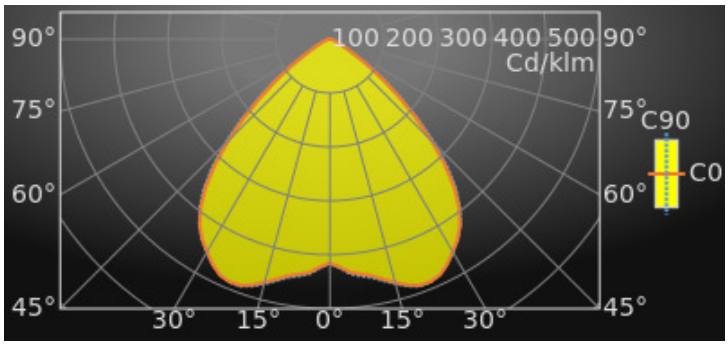
Luminance

luminous flux : 2100 lm

luminous efficacy : 96 lm/W

UGR classification =: <=22

luminous area : 0.03 m²



Average Luminances (Cd/m²) for 2100lm

Gamma	C0	C30	C45	C60	C90
45°	26918	28248	29214	27803	27828
50°	18706	19553	20747	19838	19329
55°	11034	11729	12957	11997	11525
60°	5603	5952	6369	6048	5806
65°	3535	3649	3921	3721	3593
70°	2612	2772	2901	2719	2668
75°	2037	2152	2265	2160	2189
80°	1831	1699	1861	1737	1659
85°	1115	1105	1337	1135	1166

Classifications

CIE: 690 / 964 / 995 / 1000 / 1000

CIE FLUXCODE : 0.69 / 0.96 / 0.99 / 1.00 / 1.00

BZ: BZ2

CAE: Symmetrical

DIN: A50 (Nach Arbeitsblatt 7)

DIN_U: Phi u = 1.00

DIN_SU: Phi su = 0.69

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 2100lm

Gamma	C0	C45	C90
0°	872.3	872.3	872.3
5°	912.0	912.6	916.9
10°	936.0	935.2	941.9
15°	981.4	977.4	985.5
20°	1020.6	1013.9	1023.3
25°	1013.4	1013.3	1011.0
30°	956.6	963.1	956.3
35°	884.1	892.9	883.4
40°	752.9	783.4	763.7
45°	559.6	607.3	578.5
50°	353.5	392.1	365.3
55°	186.1	218.5	194.3
60°	82.4	93.6	85.3
65°	43.9	48.7	44.6
70°	26.3	29.2	26.8
75°	15.5	17.2	16.7
80°	9.3	9.5	8.5
85°	2.9	3.4	3.0
90°	0.6	0.8	0.5

UGR classification =

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	21.0	22.6	21.3	22.9	23.2	21.1	22.7	21.4	23.0	23.2
Y = 3H	20.9	22.4	21.3	22.7	23.0	21.0	22.5	21.3	22.7	23.0
Y = 4H	20.9	22.2	21.2	22.5	22.8	21.0	22.3	21.3	22.6	22.9
Y = 6H	20.8	22.1	21.2	22.4	22.7	20.9	22.1	21.3	22.5	22.8
Y = 8H	20.8	22.0	21.2	22.3	22.6	20.9	22.1	21.3	22.4	22.7
Y = 12H	20.8	21.9	21.1	22.2	22.6	20.8	22.0	21.2	22.3	22.7
X = 4H Y = 2H	20.9	22.3	21.2	22.5	22.9	21.0	22.3	21.3	22.6	22.9
Y = 3H	20.9	22.0	21.3	22.3	22.7	20.9	22.1	21.3	22.4	22.8
Y = 4H	20.9	21.9	21.3	22.2	22.6	20.9	21.9	21.3	22.3	22.7
Y = 6H	20.8	21.7	21.3	22.1	22.5	20.9	21.8	21.3	22.2	22.6
Y = 8H	20.8	21.6	21.3	22.0	22.4	20.9	21.7	21.3	22.1	22.5
Y = 12H	20.8	21.5	21.2	21.9	22.4	20.9	21.6	21.3	22.0	22.5
X = 8H Y = 4H	20.8	21.6	21.2	22.0	22.4	20.9	21.7	21.3	22.1	22.5
Y = 6H	20.8	21.5	21.2	21.9	22.4	20.9	21.5	21.3	22.0	22.4
Y = 8H	20.8	21.4	21.3	21.8	22.3	20.8	21.4	21.3	21.9	22.4
Y = 12H	20.8	21.3	21.3	21.7	22.3	20.8	21.3	21.3	21.8	22.3
X = 12H Y = 4H	20.8	21.5	21.2	21.9	22.4	20.8	21.6	21.3	22.0	22.4
Y = 6H	20.8	21.3	21.2	21.8	22.3	20.8	21.4	21.3	21.9	22.4
Y = 8H	20.8	21.3	21.2	21.7	22.3	20.8	21.3	21.3	21.8	22.3
	UGR Variations with Observer Position for Luminaire Spacings S									
S = 1.0H	+1.4		-2.9			+1.3		-2.8		
S = 1.5H	+2.8		-6.3			+2.8		-6.3		
S = 2.0H	+4.7		-7.6			+4.7		-7.6		

Colour properties

Correlated Colour Temperature : 3000

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	108	106	104	101	100	99	98	96	95	90
2	97	93	90	92	89	86	89	86	84	80
3	88	82	78	83	79	76	81	77	74	71
4	79	73	69	76	71	67	73	69	66	63
5	72	65	61	69	63	59	67	62	59	56
6	66	59	54	63	57	53	62	56	52	50
7	60	53	48	58	52	48	57	51	47	45
8	55	48	43	53	47	43	52	47	43	41
9	51	44	39	49	43	39	48	43	39	37
10	47	40	36	46	40	36	45	39	35	34

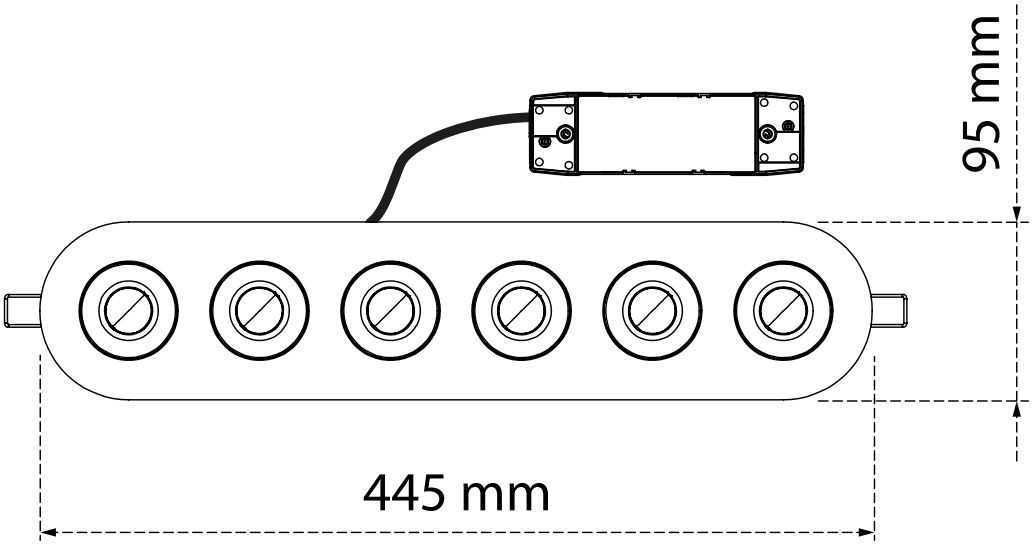
Utilisation Factors according to LiTG (%)

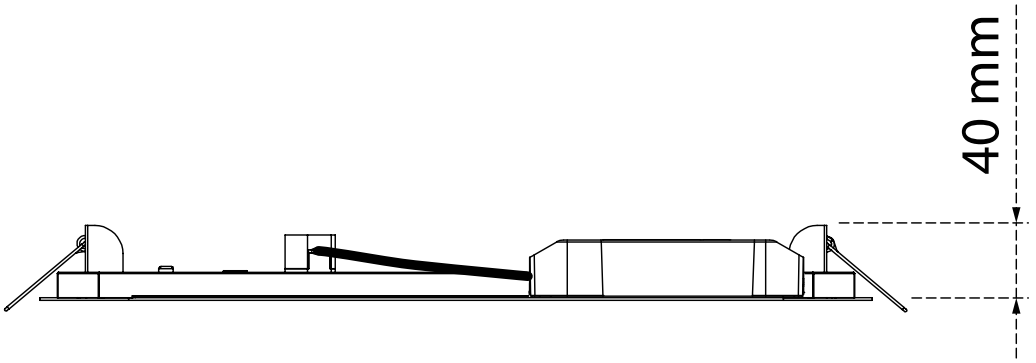
	Room Reflection Factors (%)									
Ceiling	80	80	80	50	50	50	50	50	30	0
Walls	50	30	50	30	50	30	50	30	30	0
Floor	30	30	10	10	30	30	10	10	10	0
k = 0.60	58	50	55	48	56	49	53	48	47	42
0.80	70	62	66	60	67	61	64	59	58	53
1.00	79	71	73	67	75	69	71	66	66	60
1.25	89	81	82	76	84	78	79	75	74	69
1.50	95	88	86	81	89	84	84	80	79	74
2.00	102	96	91	87	95	91	89	86	84	80
2.50	108	102	95	92	100	96	93	90	89	84
3.00	112	107	98	96	104	100	96	93	92	88
4.00	116	111	100	98	106	103	97	95	94	90
5.00	119	115	102	100	109	106	99	98	96	92

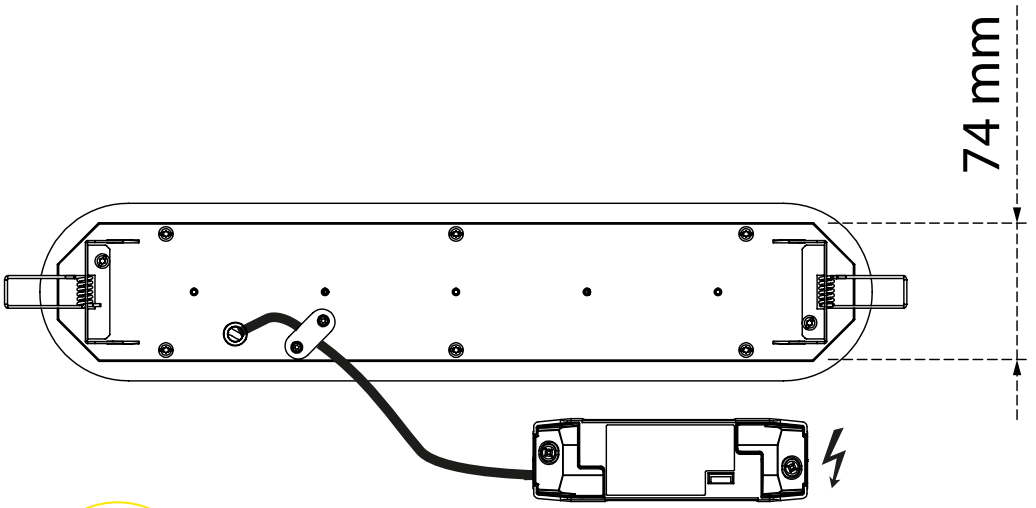
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Dimensional drawing







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