

D7R6RBB/W3CHD



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 • very 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

Luminance

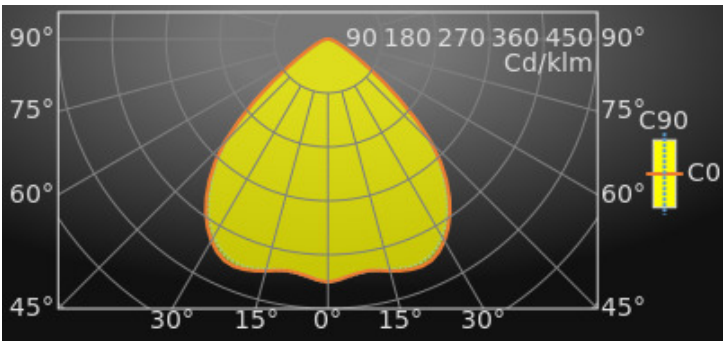
luminous flux : 2100 lm

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°	24700	36927	41808	36252	24199
50°	17361	31417	36513	30879	17354
55°	10209	18784	22166	18539	9522
60°	6026	8374	9399	8137	5501
65°	4135	4839	4943	4643	3897
70°	3278	3355	3355	3124	2856
75°	2843	2690	2453	2267	2149
80°	2144	2018	1639	1413	1286
85°	977	588	518	586	596



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 2100lm

Gamma	C0	C45	C90
0°	852.0	852.0	852.0
5°	834.0	832.6	833.7
10°	823.9	825.0	823.9
15°	841.2	848.9	834.9
20°	859.1	888.4	850.3
25°	857.3	930.2	841.1
30°	816.5	962.0	801.8
35°	745.5	972.9	731.4
40°	645.9	946.5	630.3
45°	513.5	869.1	503.1
50°	328.1	690.0	328.0
55°	172.2	373.8	160.6
60°	88.6	138.2	80.9
65°	51.4	61.4	48.4
70°	33.0	33.7	28.7
75°	21.6	18.7	16.4
80°	10.9	8.4	6.6
85°	2.5	1.3	1.5
90°	0.0	0.0	0.0

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	22.0	23.7	22.3	24.0	24.2	21.9	23.6	22.2	23.8	24.1
Y = 3H	21.9	23.5	22.3	23.7	24.0	21.8	23.3	22.1	23.6	23.9
Y = 4H	21.9	23.3	22.3	23.6	23.9	21.7	23.1	22.1	23.4	23.8
Y = 6H	21.8	23.1	22.2	23.5	23.8	21.7	23.0	22.0	23.3	23.6
Y = 8H	21.8	23.1	22.2	23.4	23.7	21.6	22.9	22.0	23.2	23.5
Y = 12H	21.8	23.0	22.2	23.3	23.7	21.6	22.8	22.0	23.1	23.5
X = 4H Y = 2H	22.0	23.4	22.4	23.7	24.0	21.9	23.3	22.2	23.6	23.9
Y = 3H	22.0	23.2	22.4	23.5	23.9	21.8	23.0	22.2	23.4	23.7
Y = 4H	22.0	23.0	22.4	23.4	23.7	21.8	22.8	22.2	23.2	23.6
Y = 6H	21.9	22.9	22.4	23.2	23.6	21.8	22.7	22.2	23.1	23.5
Y = 8H	21.9	22.8	22.4	23.2	23.6	21.7	22.6	22.2	23.0	23.4
Y = 12H	21.9	22.7	22.4	23.1	23.5	21.7	22.5	22.2	22.9	23.3
X = 8H Y = 4H	21.9	22.7	22.3	23.1	23.6	21.7	22.6	22.2	23.0	23.4
Y = 6H	21.9	22.6	22.4	23.0	23.5	21.7	22.4	22.2	22.8	23.3
Y = 8H	21.9	22.5	22.4	22.9	23.4	21.7	22.3	22.2	22.7	23.2
Y = 12H	21.9	22.4	22.4	22.9	23.4	21.7	22.2	22.2	22.7	23.2
X = 12H Y = 4H	21.9	22.6	22.3	23.1	23.5	21.7	22.5	22.2	22.9	23.3
Y = 6H	21.9	22.5	22.4	22.9	23.4	21.7	22.3	22.2	22.7	23.2
Y = 8H	21.9	22.4	22.4	22.9	23.4	21.7	22.2	22.2	22.7	23.2
	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 : 3000

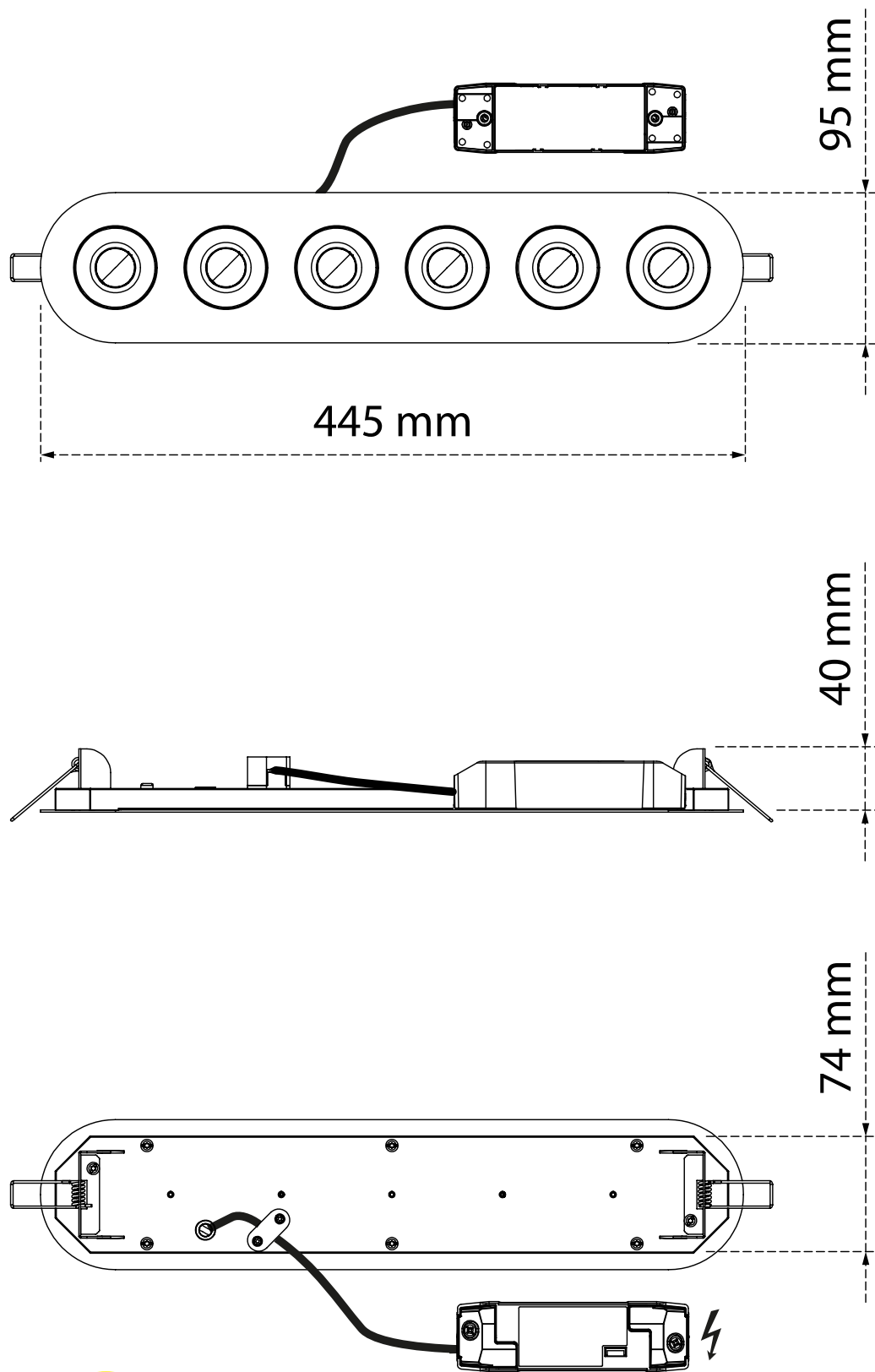
Ra: CRI (Ra) 80

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	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

Dimensional drawing



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