

D7R6RBB/N1CHS



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™ • black cups, polycarbonate • medium wide-angle

UGR classification : <=19

luminous flux: 2200 lm

luminous efficacy : 102 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: not dimmable

power : 21.5 W

voltage : 220-240V

frequency : 50-60Hz AC/DC

photobiological safety : EN 62471: RISK GROUP 1 UNLIMITED

current : 1050 A

Luminance

luminous flux : 2200 lm

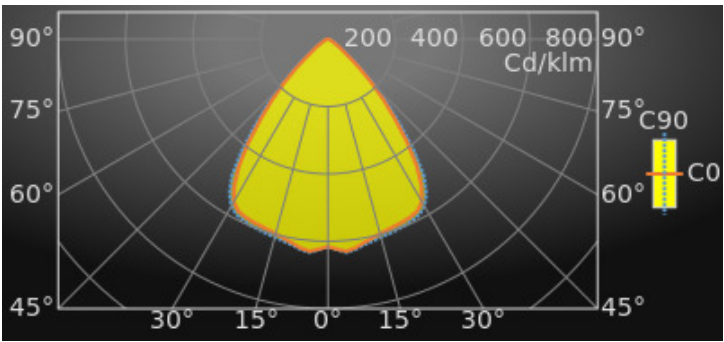
luminous efficacy : 102 lm/W

luminance @ 65° = : 3000 cd/m²

UGR classification =: <=19

luminous area : 0.03 m²

Gamma	Average Luminances (Cd/m²) for 2200lm				
	C0	C30	C45	C60	C90
45°	19497	20660	19404	20890	20911
50°	9589	10181	9530	10471	11155
55°	5154	5081	4869	5332	5616
60°	3008	3142	2971	3214	3215
65°	2120	2222	2074	2218	2301
70°	1682	1740	1660	1744	1817
75°	1424	1472	1409	1524	1531
80°	1202	1295	1196	1312	1411
85°	824	1027	824	1033	1164



Classifications

CIE: 818 / 980 / 997 / 1000 / 1000

CIE FLUXCODE : 0.82 / 0.98 / 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 = 0.75

UTE: 1.00 B + 0.00 T



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°	1354.4	1354.4	1354.4
5°	1390.2	1389.3	1396.4
10°	1350.3	1356.7	1362.7
15°	1316.0	1327.3	1338.9
20°	1294.7	1304.2	1323.3
25°	1278.8	1290.3	1305.2
30°	1225.8	1260.8	1260.5
35°	1011.5	1062.7	1092.0
40°	680.3	702.8	740.5
45°	405.3	403.4	434.7
50°	181.2	180.1	210.8
55°	86.9	82.1	94.7
60°	44.2	43.7	47.3
65°	26.3	25.8	28.6
70°	16.9	16.7	18.3
75°	10.8	10.7	11.7
80°	6.1	6.1	7.2
85°	2.1	2.1	3.0
90°	0.4	0.5	0.8

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	19.1	20.6	19.4	20.8	21.1	19.1	20.6	19.4	20.9	21.1
Y = 3H	19.0	20.3	19.3	20.6	20.9	19.0	20.4	19.3	20.6	20.9
Y = 4H	18.9	20.2	19.3	20.4	20.7	19.0	20.2	19.3	20.5	20.8
Y = 6H	18.8	20.0	19.2	20.3	20.6	18.9	20.0	19.3	20.3	20.7
Y = 8H	18.8	19.9	19.2	20.2	20.6	18.9	20.0	19.3	20.3	20.6
Y = 12H	18.8	19.8	19.2	20.2	20.5	18.9	19.9	19.2	20.2	20.6
X = 4H Y = 2H	18.9	20.1	19.2	20.4	20.7	18.9	20.2	19.3	20.5	20.8
Y = 3H	18.8	19.9	19.2	20.2	20.5	18.9	19.9	19.2	20.2	20.6
Y = 4H	18.8	19.7	19.2	20.0	20.4	18.8	19.7	19.2	20.1	20.5
Y = 6H	18.8	19.5	19.2	19.9	20.3	18.8	19.6	19.2	20.0	20.4
Y = 8H	18.7	19.5	19.2	19.9	20.3	18.8	19.5	19.2	19.9	20.3
Y = 12H	18.7	19.4	19.1	19.8	20.2	18.8	19.4	19.2	19.8	20.3
X = 8H Y = 4H	18.7	19.4	19.1	19.8	20.3	18.8	19.5	19.2	19.9	20.3
Y = 6H	18.7	19.3	19.1	19.7	20.2	18.7	19.4	19.2	19.8	20.2
Y = 8H	18.7	19.2	19.1	19.7	20.1	18.7	19.3	19.2	19.7	20.2
Y = 12H	18.6	19.1	19.1	19.6	20.1	18.7	19.2	19.2	19.6	20.2
X = 12H Y = 4H	18.7	19.3	19.1	19.8	20.2	18.7	19.4	19.2	19.8	20.3
Y = 6H	18.6	19.2	19.1	19.6	20.1	18.7	19.2	19.2	19.7	20.2
Y = 8H	18.6	19.1	19.1	19.6	20.1	18.7	19.2	19.2	19.6	20.2
	UGR Variations with Observer Position for Luminaire Spacings S									
S = 1.0H	+2.6		-5.6			+2.5		-5.8		
S = 1.5H	+4.7		-7.7			+4.7		-7.6		
S = 2.0H	+6.6		-8.6			+6.7		-8.6		

Colour properties

Correlated Colour Temperature : 4000

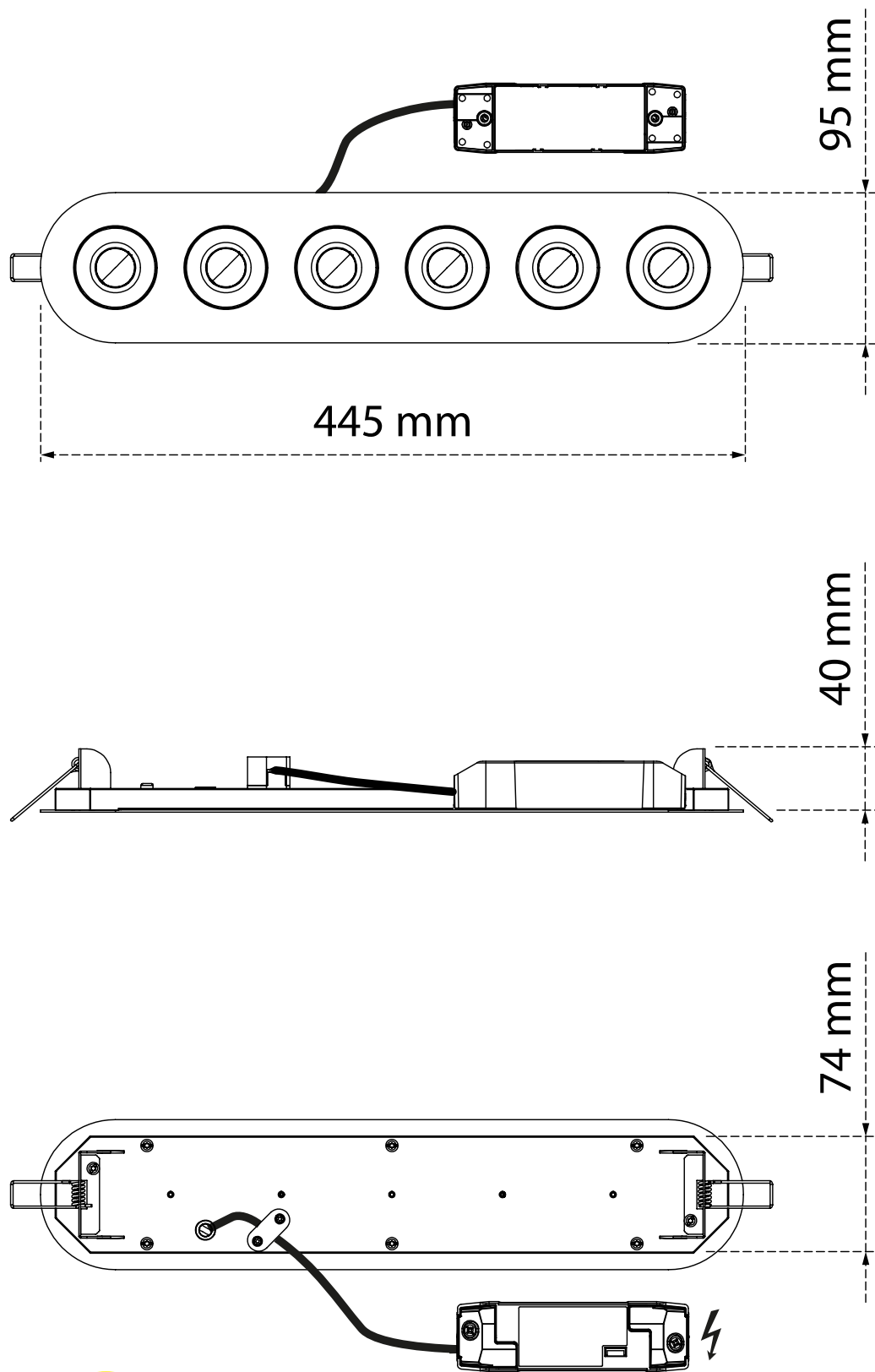
Ra: CRI (Ra) 80

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	106	103	101	100	99	98	97	91
2	100	96	93	94	92	90	91	89	87	83
3	91	86	83	87	83	80	84	81	79	75
4	84	78	74	80	76	72	78	74	71	68
5	77	71	66	74	69	65	72	68	64	62
6	71	64	60	68	63	59	67	62	59	56
7	66	59	54	63	58	54	62	57	53	51
8	61	54	50	59	53	49	58	53	49	47
9	57	50	46	55	49	45	54	49	45	43
10	53	46	42	51	46	42	50	45	42	40

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	65	57	62	56	63	56	60	55	55	50
0.80	77	69	72	66	74	68	70	66	65	60
1.00	84	77	78	73	81	75	76	72	71	67
1.25	94	87	86	82	89	84	84	80	80	75
1.50	99	93	90	86	94	89	88	84	84	79
2.00	106	100	94	91	99	95	92	89	88	84
2.50	111	105	98	95	103	99	95	93	92	88
3.00	115	110	100	98	106	103	98	96	95	91
4.00	118	114	102	100	108	105	99	97	96	92
5.00	120	117	103	102	110	108	100	99	98	94

Dimensional drawing



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