D7R6RWW/W1CHS



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™ • white cups, polycarbonate • medium wide-angle

UGR classification : <=19

luminous flux: 2100 lm

luminous efficacy : 98 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: 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

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Luminance

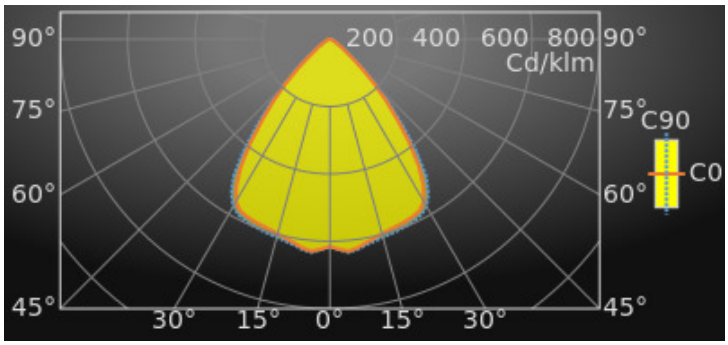
luminous flux : 2100 lm

luminous efficacy : 98 lm/W

luminance @ 65° = : 3000 cd/m²

UGR classification =: <=19

luminous area : 0.03 m²



Average Luminances (Cd/m²) for 2100lm

Gamma	C0	C30	C45	C60	C90
45°	18611	19721	18522	19940	19960
50°	9153	9719	9097	9995	10648
55°	4920	4850	4647	5090	5361
60°	2871	2999	2836	3068	3069
65°	2024	2121	1980	2117	2197
70°	1606	1661	1584	1665	1734
75°	1359	1405	1345	1455	1462
80°	1147	1237	1142	1253	1347
85°	786	981	786	986	1111

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

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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°	1292.9	1292.9	1292.9
5°	1327.0	1326.1	1332.9
10°	1288.9	1295.0	1300.8
15°	1256.2	1266.9	1278.0
20°	1235.8	1244.9	1263.2
25°	1220.6	1231.6	1245.9
30°	1170.1	1203.5	1203.2
35°	965.5	1014.4	1042.4
40°	649.4	670.8	706.9
45°	386.9	385.1	415.0
50°	173.0	171.9	201.2
55°	83.0	78.4	90.4
60°	42.2	41.7	45.1
65°	25.1	24.6	27.3
70°	16.1	15.9	17.4
75°	10.3	10.2	11.1
80°	5.9	5.8	6.9
85°	2.0	2.0	2.8
90°	0.3	0.5	0.8

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	18.9	20.4	19.2	20.7	20.9	19.0	20.5	19.3	20.7	21.0
Y = 3H	18.8	20.1	19.1	20.4	20.7	18.9	20.2	19.2	20.5	20.7
Y = 4H	18.7	20.0	19.1	20.3	20.6	18.8	20.0	19.1	20.3	20.6
Y = 6H	18.7	19.8	19.0	20.1	20.5	18.7	19.9	19.1	20.2	20.5
Y = 8H	18.7	19.7	19.0	20.1	20.4	18.7	19.8	19.1	20.1	20.5
Y = 12H	18.6	19.7	19.0	20.0	20.3	18.7	19.7	19.1	20.1	20.4
X = 4H Y = 2H	18.7	20.0	19.1	20.3	20.6	18.8	20.0	19.1	20.3	20.6
Y = 3H	18.7	19.7	19.0	20.0	20.4	18.7	19.7	19.1	20.1	20.4
Y = 4H	18.6	19.5	19.0	19.9	20.3	18.7	19.6	19.1	19.9	20.3
Y = 6H	18.6	19.4	19.0	19.8	20.2	18.6	19.4	19.1	19.8	20.2
Y = 8H	18.6	19.3	19.0	19.7	20.1	18.6	19.4	19.1	19.8	20.2
Y = 12H	18.5	19.2	19.0	19.6	20.1	18.6	19.3	19.0	19.7	20.1
X = 8H Y = 4H	18.5	19.3	19.0	19.7	20.1	18.6	19.3	19.0	19.7	20.1
Y = 6H	18.5	19.1	19.0	19.6	20.0	18.6	19.2	19.0	19.6	20.1
Y = 8H	18.5	19.1	19.0	19.5	20.0	18.6	19.1	19.0	19.5	20.0
Y = 12H	18.5	19.0	19.0	19.4	20.0	18.5	19.0	19.0	19.5	20.0
X = 12H Y = 4H	18.5	19.2	19.0	19.6	20.0	18.6	19.2	19.0	19.6	20.1
Y = 6H	18.5	19.0	19.0	19.5	20.0	18.5	19.1	19.0	19.5	20.0
Y = 8H	18.5	19.0	19.0	19.4	20.0	18.5	19.0	19.0	19.5	20.0
	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 : 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	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

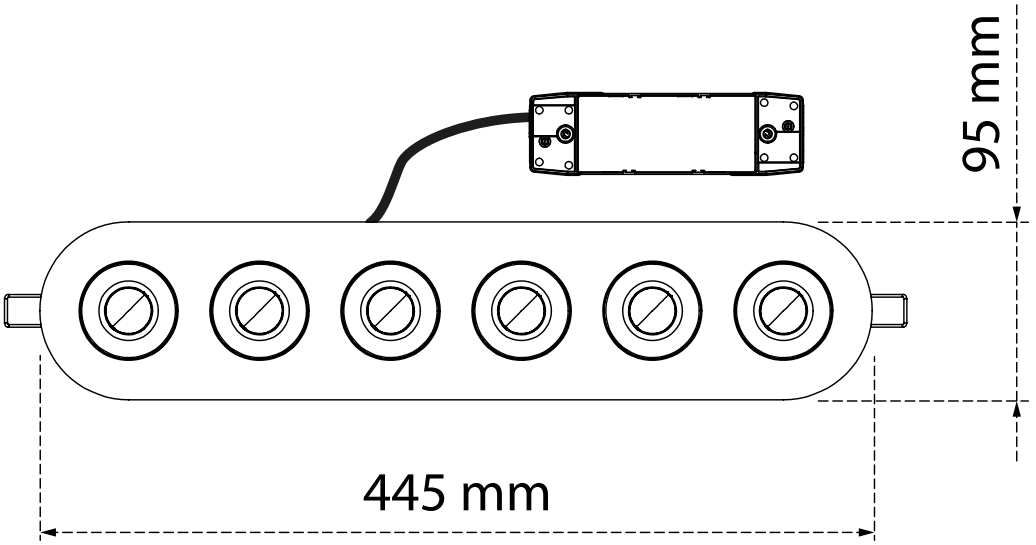
Utilisation Factors according to LiTG (%)

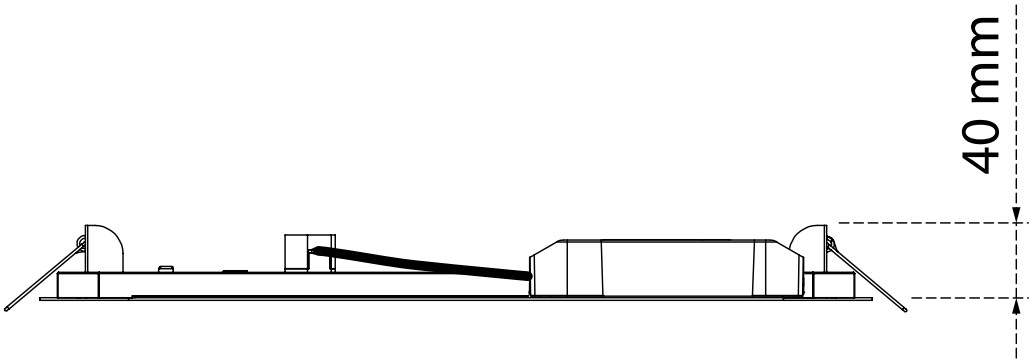
	Room Reflection Factors (%)									
Ceiling	80	80	80	50	50	50	50	50	30	0
Walls	50	30	50	30	50	30	50	30	30	0
Floor	30	30	10	10	30	30	10	10	10	0
k = 0.60	65	57	62	56	63	56	60	55	55	50
0.80	77	69	72	66	74	68	70	66	65	60
1.00	84	77	78	73	81	75	76	72	71	67
1.25	94	87	86	82	89	84	84	80	80	75
1.50	99	93	90	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

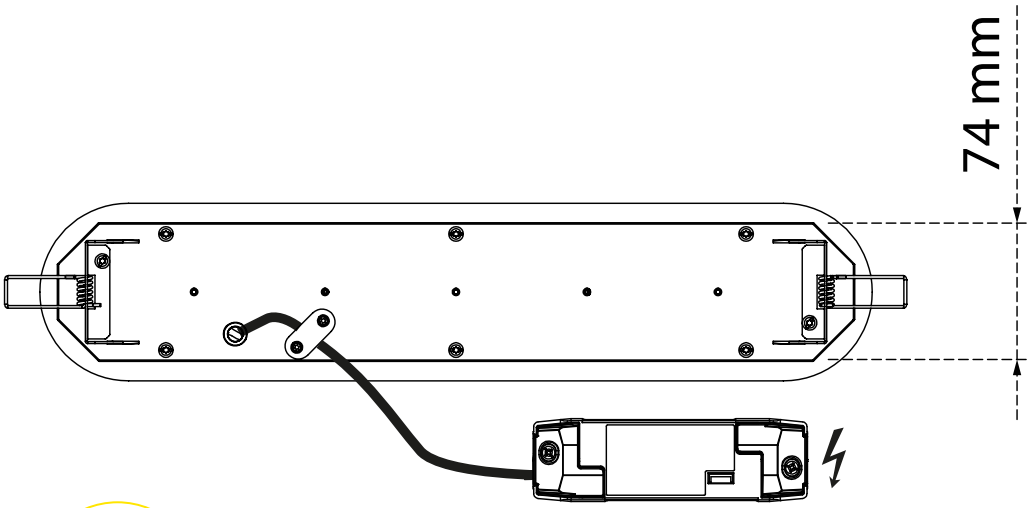
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Dimensional drawing







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