

U23I1/LEDW35D

recessed luminaire • linear

application : office, healthcare, education, horeca, retail, leisure

housing: lacquered sheet steel

light source : LED LP • 3000 K

optics : Microprism diffuser • acrylate microprism with diffuser foil • medium wide-angle

UGR classification : <=19

luminous flux: 3200 lm

luminous efficacy : 100 lm/W



Mechanical properties

dimensions : 1196 mm x 296 mm x 14 mm

ceiling modulation : M300

colour: RAL9016-traffic white (textured)

type : individual luminaire

IP: IP20 • IP40 from below

Luminance

luminous flux : 3200 lm

luminous efficacy : 100 lm/W

luminance @ 65° : 3000 cd/m²

UGR classification: <=19

luminous area : 0.26 m²

Electrical properties

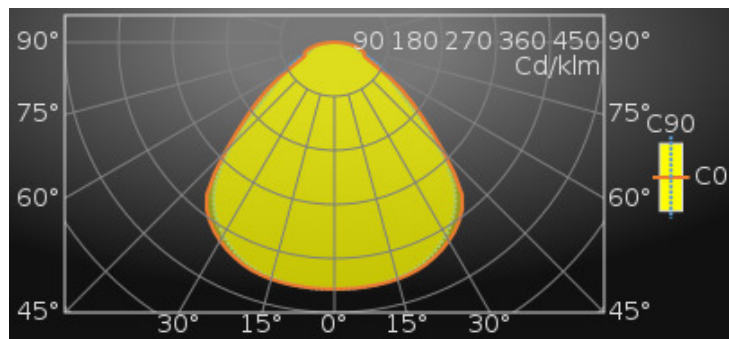
driver: DALI dimmable

power : 32 W

voltage : 220-240V

frequency : 50-60Hz AC

photobiological safety : IEC/TR 62778: RG 0



Average Luminances (Cd/m²) for 3200lm

Gamma	C0	C30	C45	C60	C90
45°	4471	4281	4432	4577	4258
50°	3606	3089	3531	3805	3181
55°	2926	2506	2912	3204	2505
60°	2024	2267	2492	2294	2374
65°	1603	1865	2145	1621	2021
70°	1924	1590	1917	1802	1579
75°	2106	1912	1912	2141	1812
80°	2232	2111	2061	2073	1944
85°	2271	2396	2336	2247	1968

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Classifications

CIE: 585 / 871 / 967 / 1000 / 1000

CIE FLUXCODE : 0.58 / 0.87 / 0.97 / 1.00 / 1.00

BZ: BZ3

CAE: Symmetrical

DIN: A50 (Nach Arbeitsblatt 7)

DIN_U: Phi u = 1.00

DIN_SU: Phi su = 0.62

UTE: 1.00 D + 0.00 T

Intensity for 3200lm

Gamma	C0	C45	C90
0°	1315.0	1315.0	1315.0
5°	1314.3	1313.9	1314.9
10°	1312.0	1309.8	1309.0
15°	1306.2	1301.5	1299.3
20°	1291.8	1284.0	1279.6
25°	1264.0	1252.3	1243.6
30°	1221.1	1205.0	1188.8
35°	1161.0	1138.0	1112.9
40°	1060.1	1030.2	992.9
45°	821.6	814.6	782.6
50°	602.4	589.9	531.4
55°	436.2	434.1	373.4
60°	263.0	323.9	308.5
65°	176.1	235.6	222.0
70°	171.0	170.4	140.4
75°	141.7	128.6	121.9
80°	100.7	93.0	87.7
85°	51.4	52.9	44.6
90°	0.2	0.7	0.0

UGR classification

Corrected Glare Ratings for a Total Lamp Flux of 3200lm (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	15.5	17.2	15.8	17.5	17.7	15.8	17.5	16.1	17.7	18.0	
Y = 3H	16.3	17.8	16.6	18.1	18.4	16.5	18.0	16.8	18.3	18.6	
Y = 4H	16.8	18.2	17.1	18.5	18.8	16.8	18.3	17.2	18.6	18.9	
Y = 6H	17.3	18.6	17.6	18.9	19.3	17.2	18.6	17.6	18.9	19.2	
Y = 8H	17.5	18.8	17.9	19.1	19.5	17.4	18.7	17.8	19.0	19.3	
Y = 12H	17.7	18.9	18.0	19.2	19.6	17.5	18.7	17.9	19.1	19.4	
X = 4H Y = 2H	15.8	17.3	16.2	17.6	17.9	16.0	17.5	16.3	17.8	18.1	
Y = 3H	16.8	18.0	17.2	18.4	18.7	16.9	18.2	17.3	18.5	18.9	
Y = 4H	17.4	18.5	17.8	18.9	19.3	17.5	18.6	17.9	19.0	19.4	
Y = 6H	18.1	19.1	18.6	19.5	19.9	18.1	19.1	18.5	19.4	19.9	
Y = 8H	18.5	19.4	18.9	19.8	20.2	18.3	19.2	18.8	19.6	20.1	
Y = 12H	18.7	19.5	19.2	20.0	20.4	18.5	19.3	19.0	19.8	20.2	
X = 8H Y = 4H	17.7	18.6	18.1	19.0	19.4	17.8	18.7	18.2	19.1	19.5	
Y = 6H	18.6	19.4	19.1	19.8	20.3	18.5	19.3	19.0	19.7	20.2	
Y = 8H	19.0	19.7	19.5	20.2	20.6	18.9	19.6	19.4	20.0	20.5	
Y = 12H	19.4	20.0	19.9	20.5	21.0	19.2	19.8	19.7	20.3	20.8	
X = 12H Y = 4H	17.7	18.6	18.2	19.0	19.4	17.8	18.6	18.3	19.1	19.5	
Y = 6H	18.7	19.4	19.2	19.8	20.3	18.6	19.3	19.1	19.7	20.2	
Y = 8H	19.2	19.8	19.7	20.2	20.8	19.0	19.6	19.5	20.1	20.6	
UGR Variations with Observer Position for Luminaire Spacings S											
S = 1.0H	+0.3		-0.3		+0.4		-0.4				
S = 1.5H	+0.5		-0.8		+0.6		-0.7				
S = 2.0H	+1.3		-1.1		+1.2		-1.1				

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Colour properties

Correlated Colour Temperature : 3000

Ra: 80

Efficiency

Utilisation Factors according to IES (%)

	Room Reflection Factors (%)									
	80	80	80	50	50	50	30	30	30	0
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	105	102	100	98	96	95	95	93	92	86
2	93	88	84	87	84	81	84	81	79	74
3	82	76	72	78	73	70	75	71	68	64
4	74	67	62	70	65	60	68	63	59	56
5	67	59	54	64	57	53	62	56	52	49
6	61	53	48	58	52	47	56	51	46	44
7	55	48	42	53	47	42	52	46	42	39
8	51	43	38	49	42	38	48	42	37	35
9	47	39	34	45	39	34	44	38	34	32
10	43	36	31	42	35	31	41	35	31	29

Utilisation Factors according to LiTG (%)

	Room Reflection Factors (%)									
	80	80	80	50	50	50	50	50	30	0
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	53	44	50	43	50	43	49	42	42	36
0.80	65	56	61	54	62	54	59	53	52	46
1.00	73	64	68	61	69	62	66	60	59	53
1.25	83	74	76	70	78	71	74	68	67	62
1.50	89	81	81	75	84	77	78	74	73	67
2.00	97	90	87	82	90	85	84	80	79	73
2.50	103	97	91	87	95	91	88	85	83	78
3.00	108	102	95	91	100	95	92	89	87	83
4.00	113	107	97	94	103	99	94	92	90	86
5.00	116	112	100	97	106	103	96	94	93	89

Available accessories

U23H1 recessed mounting frame for plaster-board and wooden ceilings M300

U23H3 surface mounted rim M300

Dimensional drawing

