

U23F1/LEDW35D

recessed luminaire • linear

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

housing: lacquered sheet steel

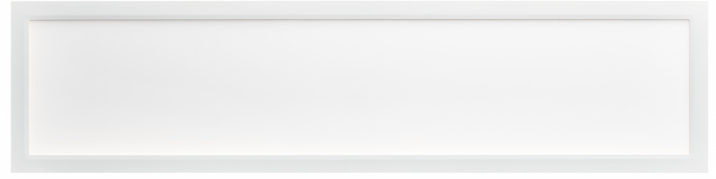
light source : LED LP • 3000 K

optics : Diffuser • opal acrylic • medium wide-angle

UGR classification : <=22

luminous flux: 3400 lm

luminous efficacy : 106 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 : 3400 lm

luminous efficacy : 106 lm/W

UGR classification: <=22

luminous area : 0.26 m²

Electrical properties

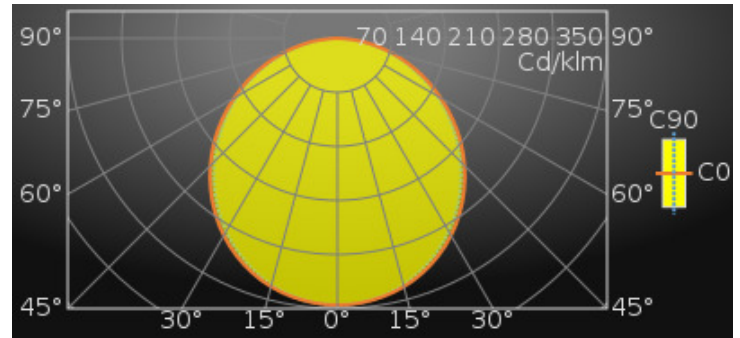
driver: DALI dimmable

power : 32 W

voltage : 220-240V

frequency : 50-60Hz AC

photobiological safety : IEC/TR 62778: RG 0



Average Luminances (Cd/m²) for 3400lm

Gamma	C0	C30	C45	C60	C90
45°	4318	4294	4270	4242	4182
50°	4250	4222	4193	4161	4091
55°	4160	4134	4105	4072	4001
60°	4052	4032	4002	3967	3895
65°	3934	3907	3876	3845	3761
70°	3793	3764	3732	3696	3585
75°	3657	3615	3575	3532	3392
80°	3434	3406	3367	3323	3139
85°	3069	3060	2988	2968	2686

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Classifications

CIE: 465 / 778 / 950 / 1000 / 1000

CIE FLUXCODE : 0.46 / 0.78 / 0.95 / 1.00 / 1.00

BZ: BZ5/1.25/BZ4/1.5/BZ5

CAE: Symmetrical

DIN: A40 (Nach Arbeitsblatt 7)

DIN_U: Phi u = 1.00

DIN_SU: Phi su = 0.54

UTE: 1.00 E + 0.00 T

Intensity for 3400lm

Gamma	C0	C45	C90
0°	1174.2	1174.2	1174.2
5°	1170.0	1169.3	1168.3
10°	1155.3	1154.1	1151.4
15°	1132.5	1129.2	1124.4
20°	1098.5	1094.2	1086.4
25°	1055.5	1049.2	1038.9
30°	1003.4	995.4	982.3
35°	940.7	932.5	918.0
40°	870.3	861.2	846.3
45°	793.6	784.7	768.6
50°	710.0	700.5	683.5
55°	620.2	611.9	596.5
60°	526.6	520.0	506.2
65°	432.1	425.7	413.1
70°	337.2	331.8	318.7
75°	246.0	240.5	228.2
80°	155.0	151.9	141.7
85°	69.5	67.7	60.8
90°	0.7	1.0	0.0

UGR classification

Corrected Glare Ratings for a Total Lamp Flux of 3400lm (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	50
Floor	20	20	20	20	20	20	20	20	20	20	20
Room Dimensions	Viewed Crosswise					Viewed Endwise					
X = 2H Y = 2H	17.5	19.3	17.8	19.5	19.8	17.3	19.1	17.6	19.4	19.7	
Y = 3H	19.1	20.7	19.4	21.0	21.3	18.9	20.5	19.2	20.8	21.1	
Y = 4H	19.7	21.3	20.1	21.6	21.9	19.5	21.1	19.9	21.4	21.7	
Y = 6H	20.2	21.7	20.6	22.1	22.4	20.0	21.4	20.4	21.8	22.1	
Y = 8H	20.4	21.9	20.8	22.2	22.5	20.1	21.6	20.5	21.9	22.2	
Y = 12H	20.5	21.9	20.9	22.2	22.6	20.2	21.6	20.6	21.9	22.3	
X = 4H Y = 2H	18.1	19.7	18.5	20.0	20.3	18.0	19.6	18.3	19.9	20.2	
Y = 3H	19.9	21.3	20.3	21.6	22.0	19.8	21.1	20.2	21.5	21.8	
Y = 4H	20.7	22.0	21.1	22.3	22.7	20.5	21.8	20.9	22.1	22.5	
Y = 6H	21.4	22.5	21.8	22.9	23.3	21.2	22.3	21.6	22.6	23.1	
Y = 8H	21.6	22.6	22.1	23.0	23.5	21.4	22.4	21.8	22.8	23.2	
Y = 12H	21.8	22.7	22.2	23.1	23.6	21.5	22.4	22.0	22.9	23.3	
X = 8H Y = 4H	21.0	22.1	21.5	22.5	22.9	20.9	21.9	21.3	22.3	22.7	
Y = 6H	21.9	22.7	22.3	23.2	23.6	21.7	22.5	22.1	23.0	23.4	
Y = 8H	22.2	23.0	22.7	23.4	23.9	22.0	22.7	22.5	23.2	23.7	
Y = 12H	22.4	23.1	22.9	23.6	24.1	22.2	22.9	22.7	23.3	23.9	
X = 12H Y = 4H	21.1	22.0	21.5	22.4	22.9	20.9	21.8	21.4	22.3	22.7	
Y = 6H	22.0	22.7	22.4	23.2	23.7	21.8	22.5	22.2	23.0	23.5	
Y = 8H	22.3	23.0	22.8	23.5	24.0	22.1	22.8	22.6	23.2	23.8	
UGR Variations with Observer Position for Luminaire Spacings S											
S = 1.0H	+0.1		-0.1		+0.1		-0.1				
S = 1.5H	+0.2		-0.3		+0.2		-0.3				
S = 2.0H	+0.3		-0.5		+0.3		-0.6				

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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	102	99	97	96	93	91	92	90	88	83
2	88	83	79	83	79	75	80	76	73	69
3	77	70	65	73	67	63	70	65	62	58
4	68	61	55	64	58	53	62	57	53	49
5	61	53	47	58	51	46	56	50	45	43
6	55	47	41	52	45	40	51	44	40	37
7	50	42	36	48	41	36	46	40	35	33
8	46	38	32	44	37	32	42	36	31	29
9	42	34	29	40	33	28	39	33	28	26
10	39	31	26	37	30	26	36	30	26	24

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	47	38	45	37	45	37	43	36	36	29
0.80	58	49	55	47	55	47	53	46	45	38
1.00	67	57	62	54	63	55	60	53	52	45
1.25	77	67	70	63	72	64	67	61	60	54
1.50	83	74	76	69	78	70	73	67	66	60
2.00	92	84	82	76	85	79	79	74	73	67
2.50	99	91	87	82	91	85	84	80	79	73
3.00	104	98	91	87	96	91	88	84	83	78
4.00	110	104	95	91	100	96	91	88	87	82
5.00	114	109	98	94	103	100	94	92	90	85

Available accessories

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

U23H3 surface mounted rim M300

Dimensional drawing

