

US3140/LEDN35D

recessed luminaire • linear

application : Office, Healthcare, Education, Horeca, Retail, Leisure

housing: lacquered sheet steel

light source : low power LED • 4000 K

optics : Softlight • Closed lamp shielding • wide-angle

UGR classification : <=22

luminous flux: 3700 lm

luminous efficacy : 109 lm/W

LLMF: 97% @ 50khrs (Tq=25°C)



Mechanical properties

dimensions : 1195 mm x 295 mm x 95 mm

cut-out size : 1180 mm x 280 mm

ceiling modulation : M300

colour: specular white

type : individual luminaire

IP: IP20

Luminance

luminous flux : 3700 lm

luminous efficacy : 109 lm/W

UGR classification: <=22

luminous area : 0.32 m²

Electrical properties

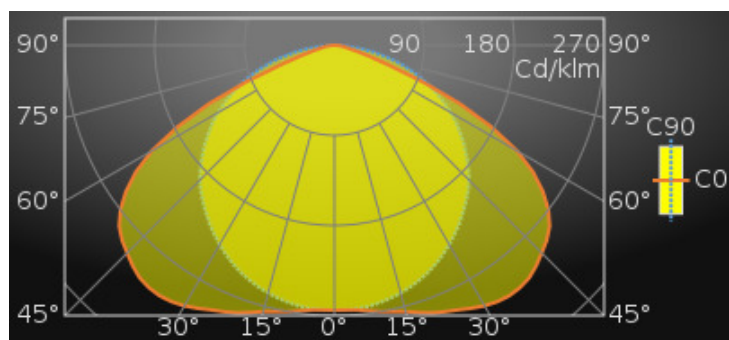
driver: DALI dimmable

power : 34 W

voltage : 220-240V

frequency : 50-60Hz AC

photobiological safety : EN 62471: RISK GROUP 0 UNLIMITED



Average Luminances (Cd/m²) for 3700lm

Gamma	C0	C30	C45	C60	C90
45°	4751	4542	4247	3758	3086
50°	5008	4747	4467	4001	3076
55°	5090	4956	4684	4241	3080
60°	4834	4969	4839	4433	3082
65°	3775	4425	4745	4578	3043
70°	1934	2840	3959	4512	2999
75°	1041	1312	2006	3644	2890
80°	722	793	965	1528	2670
85°	642	648	668	702	2046

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Classifications

CIE: 416 / 781 / 969 / 1000 / 1000

CIE FLUXCODE : 0.42 / 0.78 / 0.97 / 1.00 / 1.00

BZ: BZ10/1.25/BZ4/1.5/BZ10/2.5/BZ5

CAE: CAE 1/75°/CAE 2

DIN: A40 (Nach Arbeitsblatt 7)

DIN_U: Phi u = 1.00

DIN_SU: Phi su = 0.52

UTE: 1.00 E + 0.00 T

Luminous intensities in cd

Lifetime Data (Tq=25.0°C)

Time(khrs)	LLMF(%)	Cx(%)
10	100	2
20	99	4
30	99	6
40	98	8
50	98	10
60	97	12

Intensity for 3700lm

Gamma	C0	C45	C90
0°	978.9	978.9	978.9
5°	982.4	981.0	977.5
10°	999.4	982.9	966.5
15°	1018.9	983.4	947.8
20°	1052.8	983.3	922.8
25°	1079.9	994.4	890.5
30°	1112.0	994.4	850.5
35°	1130.1	993.6	805.3
40°	1122.0	988.5	756.9
45°	1085.6	970.4	705.0
50°	1040.2	927.7	638.8
55°	943.4	868.1	570.8
60°	780.9	781.7	498.0
65°	515.4	648.0	415.6
70°	213.8	437.5	331.5
75°	87.0	167.7	241.7
80°	40.5	54.2	149.8
85°	18.1	18.8	57.6
90°	0.0	0.0	0.0

UGR classification

Corrected Glare Ratings for a Total Lamp Flux of 3700lm (S = 0.25H)

Ceiling Walls Floor	Room Reflection Factors (%)									
	70	70	50	50	30	70	70	50	50	30
	50	30	50	30	30	50	30	50	30	30
	20	20	20	20	20	20	20	20	20	20
Room Dimensions	Viewed Crosswise					Viewed Endwise				
X = 2H Y = 2H	18.9	20.8	19.2	21.1	21.3	17.2	19.1	17.6	19.4	19.6
Y = 3H	19.6	21.3	19.9	21.6	21.9	19.0	20.7	19.4	21.0	21.3
Y = 4H	19.6	21.2	19.9	21.5	21.8	19.7	21.4	20.1	21.7	22.0
Y = 6H	19.5	21.0	19.9	21.3	21.7	20.2	21.7	20.6	22.1	22.4
Y = 8H	19.5	20.9	19.9	21.3	21.6	20.3	21.8	20.7	22.1	22.5
Y = 12H	19.4	20.8	19.8	21.2	21.5	20.4	21.8	20.8	22.1	22.5
X = 4H Y = 2H	19.6	21.2	19.9	21.5	21.8	18.4	20.0	18.8	20.4	20.7
Y = 3H	20.3	21.7	20.7	22.1	22.4	20.4	21.8	20.8	22.1	22.5
Y = 4H	20.3	21.6	20.8	22.0	22.3	21.2	22.5	21.6	22.8	23.2
Y = 6H	20.3	21.4	20.8	21.8	22.2	21.8	22.9	22.2	23.3	23.7
Y = 8H	20.3	21.3	20.8	21.8	22.2	22.0	23.0	22.4	23.4	23.8
Y = 12H	20.3	21.2	20.8	21.7	22.1	22.0	23.0	22.5	23.4	23.8
X = 8H Y = 4H	20.5	21.5	21.0	22.0	22.4	21.3	22.3	21.8	22.7	23.2
Y = 6H	20.5	21.4	21.0	21.8	22.3	22.0	22.8	22.4	23.3	23.7
Y = 8H	20.5	21.3	21.0	21.7	22.2	22.2	22.9	22.6	23.4	23.8
Y = 12H	20.6	21.2	21.1	21.7	22.2	22.3	22.9	22.8	23.4	23.9
X = 12H Y = 4H	20.5	21.5	21.0	21.9	22.3	21.3	22.2	21.7	22.7	23.1
Y = 6H	20.5	21.3	21.0	21.7	22.2	22.0	22.7	22.4	23.1	23.6
Y = 8H	20.6	21.2	21.1	21.7	22.2	22.2	22.8	22.7	23.3	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	+0.6		-0.7		+0.4		-0.5			
S = 2.0H	+1.5		-2.4		+1.0		-1.4			

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Colour properties

Correlated Colour Temperature : 4000

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	103	100	97	96	94	92	92	90	89	84
2	88	83	78	83	78	75	80	76	73	69
3	76	69	64	72	66	62	69	64	61	57
4	67	59	53	63	57	52	61	55	51	48
5	59	51	45	56	49	44	54	48	43	40
6	53	45	39	50	43	38	49	42	37	35
7	48	39	33	45	38	33	44	37	33	30
8	44	35	29	41	34	29	40	34	29	27
9	40	32	26	38	31	26	37	30	26	24
10	37	29	23	35	28	23	34	28	23	21

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	44	35	42	34	42	34	40	33	32	26
0.80	56	46	52	44	52	44	50	43	42	35
1.00	65	55	60	52	61	53	58	51	50	43
1.25	75	65	69	61	70	62	66	60	59	52
1.50	82	73	75	68	76	69	72	66	65	58
2.00	92	83	82	76	85	78	79	74	72	66
2.50	99	91	87	82	91	85	84	80	78	73
3.00	104	98	91	87	96	91	88	85	83	78
4.00	110	104	95	91	100	96	92	89	87	82
5.00	114	109	98	95	104	100	94	92	90	86

Available accessories

US01H010/1200 *Mountingframe for plaster-board, wooden,... ceiling*

Dimensional drawing

