

U25M1/LEDN25D

recessed luminaire • linear

<i>application</i> :	Office, Healthcare, Education, Horeca, Retail, Leisure
<i>housing</i> :	lacquered sheet steel
<i>light source</i> :	LED LP • 4000 K
<i>optics</i> :	Diffuser • wide-angle
<i>UGR classification</i> :	<=16
<i>luminous flux</i> :	2750 lm
<i>luminous efficacy</i> :	145 lm/W
<i>LLMF</i> :	98% @ 50khrs (Tq=25°C)



Mechanical properties

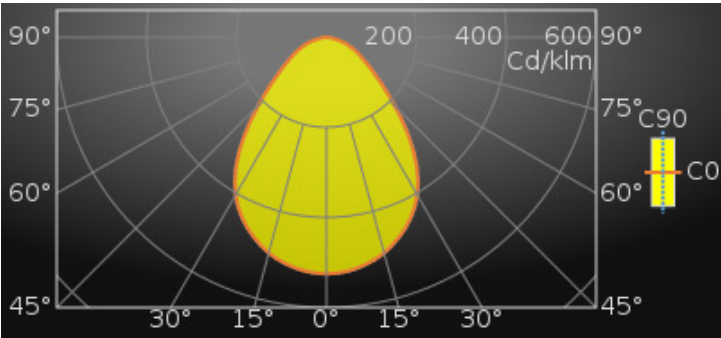
<i>dimensions</i> :	1196 mm x 296 mm x 85 mm
<i>ceiling modulation</i> :	M300
<i>colour</i> :	RAL9210-white
<i>type</i> :	individual luminaire
<i>IP</i> :	IP20

Luminance

<i>luminous flux</i> :	2750 lm
<i>luminous efficacy</i> :	145 lm/W
<i>luminance @ 65°</i> :	3000 cd/m²
<i>UGR classification</i> :	<=16
<i>luminous area</i> :	0.3 m²

Electrical properties

<i>driver</i> :	DALI dimmable
<i>power</i> :	19 W
<i>voltage</i> :	220-240V
<i>frequency</i> :	50-60Hz AC
<i>photobiological safety</i> :	EN 62471: RISK GROUP 0 UNLIMITED



Average Luminances (Cd/m²) for 2750lm

Gamma	C0	C30	C45	C60	C90
45°	2765	2765	2765	2765	2765
50°	2257	2257	2257	2257	2257
55°	1907	1907	1907	1907	1907
60°	1678	1678	1678	1678	1678
65°	1520	1520	1520	1520	1520
70°	1383	1383	1383	1383	1383
75°	1201	1201	1201	1201	1201
80°	912	912	912	912	912
85°	435	435	435	435	435

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Classifications

CIE: 636 / 886 / 980 / 1000 / 1000
CIE FLUXCODE : 0.64 / 0.89 / 0.98 / 1.00 / 1.00
BZ: BZ2/2/BZ3/2.5/BZ2/3/BZ3
CAE: Symmetrical
DIN: A50 (Nach Arbeitsblatt 7)
DIN_U: Phi u = 1.00
DIN_SU: Phi su = 0.65
UTE: 1.00 C + 0.00 T

Luminous intensities in cd

Lifetime Data (Tq=25.0°C)		
Time(khrs)	LLMF(%)	Cx(%)
10	99	2
20	99	4
30	99	6
40	99	8
50	98	9
60	98	11

Intensity for 2750lm			
Gamma	C0	C45	C90
0°	1443.3	1443.3	1443.3
5°	1434.1	1434.1	1434.1
10°	1406.0	1406.0	1406.0
15°	1363.4	1363.4	1363.4
20°	1298.2	1298.2	1298.2
25°	1218.5	1218.5	1218.5
30°	1110.6	1110.6	1110.6
35°	965.2	965.2	965.2
40°	777.8	777.8	777.8
45°	589.6	589.6	589.6
50°	437.5	437.5	437.5
55°	329.9	329.9	329.9
60°	253.0	253.0	253.0
65°	193.7	193.7	193.7
70°	142.7	142.7	142.7
75°	93.8	93.8	93.8
80°	47.7	47.7	47.7
85°	11.4	11.4	11.4
90°	0.8	0.8	0.8

UGR classification

Corrected Glare Ratings for a Total Lamp Flux of 2750lm (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	14.0	15.7	14.3	15.9	16.2	14.0	15.7	14.3	15.9	16.2
Y = 3H	14.9	16.4	15.3	16.7	17.0	14.9	16.4	15.3	16.7	17.0
Y = 4H	15.3	16.7	15.6	17.0	17.3	15.3	16.7	15.6	17.0	17.3
Y = 6H	15.5	16.8	15.8	17.1	17.4	15.5	16.8	15.8	17.1	17.4
Y = 8H	15.5	16.7	15.9	17.1	17.4	15.5	16.7	15.9	17.1	17.4
Y = 12H	15.5	16.7	15.9	17.0	17.4	15.5	16.7	15.9	17.0	17.4
X = 4H Y = 2H	14.4	15.8	14.7	16.1	16.4	14.4	15.8	14.7	16.1	16.4
Y = 3H	15.5	16.7	15.9	17.0	17.4	15.5	16.7	15.9	17.0	17.4
Y = 4H	16.0	17.0	16.4	17.4	17.8	16.0	17.0	16.4	17.4	17.8
Y = 6H	16.3	17.2	16.7	17.6	18.0	16.3	17.2	16.7	17.6	18.0
Y = 8H	16.3	17.2	16.8	17.6	18.0	16.3	17.2	16.8	17.6	18.0
Y = 12H	16.3	17.1	16.8	17.5	18.0	16.3	17.1	16.8	17.5	18.0
X = 8H Y = 4H	16.1	17.0	16.6	17.4	17.8	16.1	17.0	16.6	17.4	17.8
Y = 6H	16.5	17.3	17.0	17.7	18.2	16.5	17.3	17.0	17.7	18.2
Y = 8H	16.6	17.3	17.1	17.7	18.2	16.6	17.3	17.1	17.7	18.2
Y = 12H	16.6	17.2	17.1	17.7	18.2	16.6	17.2	17.1	17.7	18.2
X = 12H Y = 4H	16.1	16.9	16.6	17.4	17.8	16.1	16.9	16.6	17.4	17.8
Y = 6H	16.5	17.2	17.0	17.6	18.1	16.5	17.2	17.0	17.6	18.1
Y = 8H	16.6	17.2	17.1	17.7	18.2	16.6	17.2	17.1	17.7	18.2
	UGR Variations with Observer Position for Luminaire Spacings S									
S = 1.0H	+0.3		-0.5			+0.3		-0.5		
S = 1.5H	+0.6		-0.9			+0.6		-0.9		
S = 2.0H	+1.3		-1.3			+1.3		-1.3		

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Colour properties

Correlated Colour Temperature : 4000

Ra: 80

Efficiency

Utilisation Factors according to IES (%)											Utilisation Factors according to LiTG (%)										
Room Reflection Factors (%)											Room Reflection Factors (%)										
Ceiling	80	80	80	50	50	50	30	30	30	0	Ceiling	80	80	80	50	50	50	50	50	30	0
Walls	50	30	10	50	30	10	50	30	10	0	Walls	50	30	50	30	50	30	50	30	30	0
Floor	20	20	20	20	20	20	20	20	20	0	Floor	30	30	10	10	30	30	10	10	10	0
RCR = 1	106	104	102	100	98	96	96	94	93	88	k = 0.60	56	48	54	47	54	47	52	46	46	40
2	94	90	87	89	86	83	86	83	81	76	0.80	68	59	64	57	65	58	62	56	55	50
3	85	79	75	80	76	72	77	74	71	67	1.00	76	68	71	64	72	65	68	63	62	56
4	76	70	65	73	67	63	70	66	62	59	1.25	86	78	79	73	81	75	76	71	71	65
5	69	62	57	66	60	56	64	59	55	52	1.50	92	84	83	78	86	80	81	76	75	70
6	63	56	51	61	54	50	59	54	50	47	2.00	100	92	89	84	93	87	86	82	81	76
7	58	51	46	56	50	45	54	49	45	42	2.50	105	99	93	89	97	93	90	87	86	81
8	54	46	41	52	45	41	50	45	41	38	3.00	110	104	96	93	101	97	93	91	89	85
9	50	42	38	48	42	37	47	41	37	35	4.00	114	109	99	96	104	101	96	93	92	88
10	46	39	34	45	38	34	44	38	34	32	5.00	117	113	101	98	107	104	98	96	94	90

Available accessories

U2H1 Recessed mounting frame for plaster-board and wooden ceilings M300

Dimensional drawing

