

E5M000/LEDW030D

module • linear

application : Industry, Logistics

housing: lacquered aluminium

light source : LED LP • 3000 K

optics : narrow-angle

UGR classification : <=22

luminous flux: 3350 lm

luminous efficacy : 120 lm/W

LLMF: 98% @ 50khrs (Tq=25°C)



Mechanical properties

dimensions : 1518 mm x 60 mm x 100 mm

colour: RAL9016-traffic white (textured)

type : individual luminaire

IP: IP20

Luminance

luminous flux : 3350 lm

luminous efficacy : 120 lm/W

UGR classification: <=22

luminous area : 0.09 m²

Electrical properties

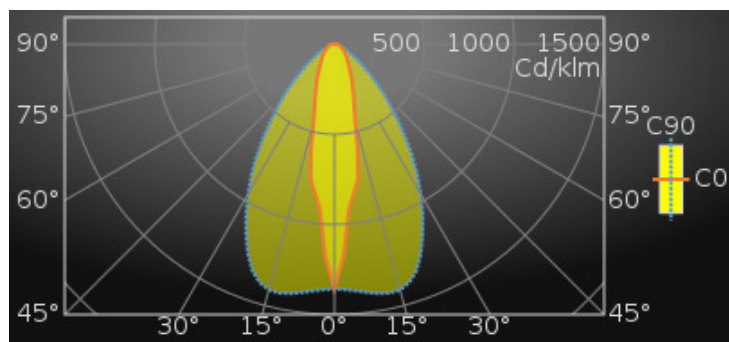
driver: DALI dimmable

power : 28 W

voltage : 220-240V

frequency : 50-60Hz AC

photobiological safety : EN 62471: RISK GROUP 1 UNLIMITED



Average Luminances (Cd/m²) for 3350lm

Gamma	C0	C30	C45	C60	C90
45°	3273	3745	4696	7013	20178
50°	2811	3143	3808	5420	14634
55°	2439	2676	3086	4150	10705
60°	2142	2331	2490	3221	7830
65°	1887	2047	2043	2602	6009
70°	1698	1796	1718	2182	4985
75°	1554	1579	1483	1829	4814
80°	1452	1393	1263	1476	4560
85°	1372	1217	1034	1168	3927

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Classifications

CIE: 710 / 894 / 961 / 989 / 1000

CIE FLUXCODE : 0.72 / 0.90 / 0.97 / 0.99 / 1.00

BZ: BZ1/0.8/BZ2

CAE: CAE 1/15°/CAE 2/25°/CAE 4/75°/CAE 3

DIN: A60 (Nach Arbeitsblatt 7 und 8)

DIN_U: Phi u = 0.99

DIN_SU: Phi su = 0.72

UTE: 0.99 B + 0.01 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	99	8
50	98	10
60	98	12

Intensity for 3350lm

Gamma	C0	C45	C90	Gamma	C0	C45	C90
0°	4550.1	4550.1	4550.1	90°	59.4	27.5	1.3
5°	3093.0	3648.0	4599.5	95°	48.5	16.9	0.0
10°	2543.1	2724.9	4703.2	100°	37.6	8.5	0.0
15°	1495.8	2268.4	4727.7	105°	26.9	3.0	0.0
20°	1047.2	1538.6	4474.1	110°	17.0	0.7	0.0
25°	786.5	1132.7	3894.5	115°	8.8	0.1	0.0
30°	587.2	871.0	3217.3	120°	2.8	0.0	0.0
35°	460.6	676.2	2512.2	125°	0.6	0.0	0.0
40°	376.8	522.5	1825.8	130°	0.1	0.0	0.0
45°	312.0	404.0	1282.4	135°	0.0	0.0	0.0
50°	259.1	312.7	845.5	140°	0.0	0.0	0.0
55°	215.5	239.4	551.9	145°	0.0	0.0	0.0
60°	179.6	180.4	351.9	150°	0.0	0.0	0.0
65°	148.6	136.4	228.2	155°	0.0	0.0	0.0
70°	123.9	104.1	153.2	160°	0.0	0.0	0.0
75°	103.6	80.0	112.0	165°	0.0	0.0	0.0
80°	86.9	59.3	71.2	170°	0.0	0.0	0.0
85°	72.2	40.8	30.8	175°	0.0	0.0	0.0
90°	59.4	27.5	1.3	180°	0.0	0.0	0.0

UGR classification

Corrected Glare Ratings for a Total Lamp Flux of 3350lm (S = 0.25H)

Room Dimensions	Room Reflection Factors (%)														
	Ceiling	Walls	Floor	70	70	50	50	30	70	70	50	50	30		
	70	70	50	50	30	70	70	50	50	30	70	70	50	50	30
	50	30	50	30	30	50	30	50	30	30	50	30	50	30	30
	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
Room Dimensions	Viewed Crosswise					Viewed Endwise									
X = 2H Y = 2H	12.9	14.3	13.2	14.6	14.9	18.7	20.2	19.0	20.4	20.7					
Y = 3H	14.0	15.3	14.3	15.6	15.9	19.3	20.6	19.6	20.9	21.2					
Y = 4H	14.5	15.8	14.9	16.1	16.4	19.5	20.8	19.9	21.1	21.4					
Y = 6H	15.1	16.2	15.5	16.6	16.9	19.8	20.9	20.2	21.2	21.6					
Y = 8H	15.3	16.4	15.7	16.8	17.1	19.9	21.0	20.3	21.3	21.7					
Y = 12H	15.6	16.6	16.0	17.0	17.4	19.9	21.0	20.3	21.3	21.7					
X = 4H Y = 2H	13.4	14.6	13.8	15.0	15.3	18.6	19.8	19.0	20.1	20.5					
Y = 3H	14.7	15.8	15.1	16.1	16.5	19.3	20.3	19.7	20.6	21.0					
Y = 4H	15.4	16.4	15.9	16.7	17.1	19.6	20.5	20.0	20.9	21.3					
Y = 6H	16.1	17.0	16.6	17.4	17.8	20.0	20.8	20.4	21.2	21.6					
Y = 8H	16.5	17.2	16.9	17.7	18.1	20.1	20.9	20.6	21.3	21.7					
Y = 12H	16.8	17.5	17.3	18.0	18.4	20.2	20.9	20.7	21.4	21.8					
X = 8H Y = 4H	15.7	16.4	16.1	16.8	17.3	19.6	20.4	20.0	20.8	21.2					
Y = 6H	16.5	17.2	17.0	17.6	18.1	20.0	20.7	20.5	21.1	21.6					
Y = 8H	17.0	17.6	17.5	18.0	18.5	20.2	20.8	20.7	21.2	21.7					
Y = 12H	17.5	18.0	18.0	18.5	19.0	20.4	20.8	20.9	21.3	21.9					
X = 12H Y = 4H	15.7	16.4	16.1	16.8	17.3	19.6	20.3	20.0	20.7	21.2					
Y = 6H	16.6	17.1	17.1	17.6	18.1	20.0	20.6	20.5	21.1	21.6					
Y = 8H	17.1	17.6	17.6	18.1	18.6	20.2	20.7	20.7	21.2	21.8					
UGR Variations with Observer Position for Luminaire Spacings S															
S = 1.0H	+0.3		-0.3		+1.0		-0.9								
S = 1.5H	+0.4		-0.6		+2.6		-1.7								
S = 2.0H	+0.4		-0.9		+4.0		-2.4								

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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	107	105	103	100	98	97	96	95	94	88
2	97	93	90	91	88	86	88	85	83	78
3	88	83	79	83	79	76	81	77	75	71
4	81	75	71	77	72	69	75	70	67	64
5	75	68	64	71	66	62	69	65	61	58
6	69	63	58	66	61	57	65	60	56	54
7	64	58	53	62	56	52	61	56	52	50
8	60	54	49	58	52	49	57	52	48	46
9	57	50	46	55	49	45	54	49	45	43
10	53	47	43	52	46	42	51	46	42	40

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	65	58	62	56	63	57	61	56	55	50
0.80	75	67	70	64	72	65	68	63	63	58
1.00	82	75	76	71	78	72	74	70	69	64
1.25	91	83	83	78	86	80	81	77	76	71
1.50	96	89	87	82	90	85	84	81	79	75
2.00	103	96	92	88	95	91	89	86	84	80
2.50	107	102	95	91	99	95	92	89	88	83
3.00	111	106	97	95	103	99	94	92	91	86
4.00	115	110	99	97	105	102	96	94	93	88
5.00	118	114	101	99	107	105	98	96	94	90

Dimensional drawing

