

E5M000/LEDN030D



renovation module • linear

Application : Production sites

housing: lacquered aluminium

light source : LED • 4000 K

optics : DUAL?LENS • polycarbonate (PC) • narrow-angle

UGR classification : <=22

luminous efficacy : 130 lm/W

LLMF: 98% @ 50khrs (Tq=25°C)

Product information

Mechanical properties

dimensions : 1518 mm x 60 mm x 100 mm

colour: RAL9016 - traffic white (textured)

type : individual luminaire

IP: IP20

IK: IK06

Electrical properties

driver: DALI dimmable

power : 25 W

voltage : 220-240V

frequency : 50-60Hz AC

photobiological safety : EN 62471: RISK GROUP 1
UNLIMITED

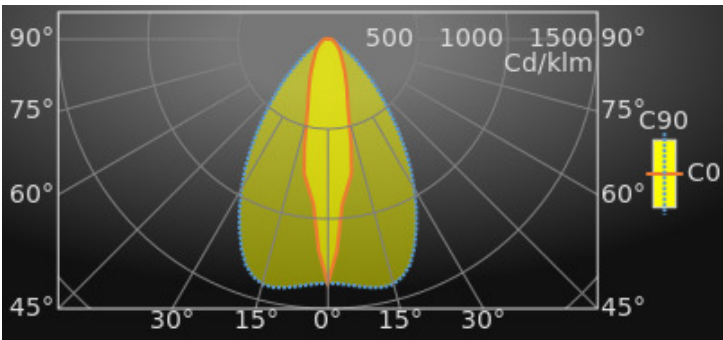
Luminance

luminous efficacy : 130 lm/W

UGR classification =: <=22

luminous area : 0.09 m²

Average Luminances (Cd/m²) for 3250lm					
Gamma	C0	C30	C45	C60	C90
45°	3175	3633	4556	6804	19576
50°	2727	3049	3694	5258	14198
55°	2366	2596	2994	4026	10386
60°	2078	2261	2415	3124	7596
65°	1831	1986	1982	2524	5829
70°	1647	1743	1667	2116	4836
75°	1508	1532	1439	1774	4671
80°	1408	1351	1226	1432	4424
85°	1331	1180	1003	1133	3810



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

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

Luminous intensities in cd

Intensity for 3250lm

Gamma	C0	C45	C90	Gamma	C0	C45	C90
0°	4414.2	4414.2	4414.2	90°	57.6	26.7	1.2
5°	3000.7	3539.1	4462.2	95°	47.0	16.4	0.0
10°	2467.2	2643.6	4562.8	100°	36.4	8.3	0.0
15°	1451.1	2200.7	4586.6	105°	26.1	2.9	0.0
20°	1016.0	1492.7	4340.5	110°	16.5	0.7	0.0
25°	763.0	1098.9	3778.3	115°	8.5	0.1	0.0
30°	569.7	845.0	3121.3	120°	2.8	0.0	0.0
35°	446.8	656.0	2437.2	125°	0.6	0.0	0.0
40°	365.6	506.9	1771.3	130°	0.1	0.0	0.0
45°	302.7	391.9	1244.1	135°	0.0	0.0	0.0
50°	251.4	303.3	820.2	140°	0.0	0.0	0.0
55°	209.0	232.3	535.4	145°	0.0	0.0	0.0
60°	174.3	175.0	341.4	150°	0.0	0.0	0.0
65°	144.1	132.4	221.4	155°	0.0	0.0	0.0
70°	120.2	101.0	148.7	160°	0.0	0.0	0.0
75°	100.5	77.6	108.6	165°	0.0	0.0	0.0
80°	84.3	57.5	69.0	170°	0.0	0.0	0.0
85°	70.0	39.6	29.8	175°	0.0	0.0	0.0
90°	57.6	26.7	1.2	180°	0.0	0.0	0.0

UGR classification =

Corrected Glare Ratings for a Total Lamp Flux of 3250lm (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	12.8	14.2	13.1	14.5	14.8	18.6	20.1	18.9	20.3	20.6
Y = 3H	13.9	15.2	14.2	15.5	15.8	19.1	20.5	19.5	20.7	21.0
Y = 4H	14.4	15.7	14.8	16.0	16.3	19.4	20.7	19.8	21.0	21.3
Y = 6H	15.0	16.1	15.4	16.4	16.8	19.7	20.8	20.1	21.1	21.5
Y = 8H	15.2	16.3	15.6	16.7	17.0	19.8	20.9	20.2	21.2	21.5
Y = 12H	15.5	16.5	15.9	16.9	17.2	19.8	20.9	20.2	21.2	21.6
X = 4H Y = 2H	13.3	14.5	13.7	14.8	15.2	18.5	19.7	18.9	20.0	20.4
Y = 3H	14.6	15.7	15.0	16.0	16.4	19.1	20.2	19.5	20.5	20.9
Y = 4H	15.3	16.3	15.7	16.6	17.0	19.5	20.4	19.9	20.8	21.2
Y = 6H	16.0	16.9	16.5	17.3	17.7	19.9	20.7	20.3	21.1	21.5
Y = 8H	16.4	17.1	16.8	17.6	18.0	20.0	20.8	20.5	21.2	21.6
Y = 12H	16.7	17.4	17.2	17.9	18.3	20.1	20.8	20.6	21.2	21.7
X = 8H Y = 4H	15.5	16.3	16.0	16.7	17.2	19.5	20.3	19.9	20.7	21.1
Y = 6H	16.4	17.1	16.9	17.5	18.0	19.9	20.6	20.4	21.0	21.5
Y = 8H	16.9	17.5	17.4	17.9	18.4	20.1	20.7	20.6	21.1	21.6
Y = 12H	17.4	17.9	17.9	18.4	18.9	20.2	20.7	20.8	21.2	21.8
X = 12H Y = 4H	15.6	16.3	16.0	16.7	17.2	19.5	20.2	19.9	20.6	21.1
Y = 6H	16.5	17.0	17.0	17.5	18.0	19.9	20.5	20.4	21.0	21.5
Y = 8H	17.0	17.5	17.5	18.0	18.5	20.1	20.6	20.6	21.1	21.6
	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		

Colour properties

Correlated Colour Temperature : 4000

Efficiency

Utilisation Factors according to IES (%)										
	Room Reflection Factors (%)									
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 (%)									
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

Available accessories

E5C11/0100 Cover profile E5 in-line mountingLength: 100 mm

E5C11/0200 Cover profile E5 in-line mountingLength: 200 mm

E5C11/0300 Cover profile E5 in-line mountingLength: 300 mm

E5C11/0400 Cover profile E5 in-line mountingLength: 400 mm

E5C11/0500 Cover profile E5 in-line mountingLength: 500 mm

E5C11/1000 Cover profile E5 in-line mountingLength: 1000 mm

E5C11/1500 Cover profile E5 in-line mountingLength: 1500 mm

E5C11/2000 Cover profile E5 in-line mountingLength: 2000 mm

E5C11/2500 Cover profile E5 in-line mountingLength: 2500 mm

E3H115 Coupling piece

E3H116 Line end piece

E3H117 Connector (1 per line), 5-pole connector (1 per line), 7-pole with dimming (analog or DALI)

E3H118 Connector for 9-pole through wiring with dimming and emergency unit or non-maintained emergency lighting

E3H119 Connector for 7-pole through wiring with emergency unit or non-maintained emergency lighting

E3H128 Connector for 8-pole through wiring with emergency lighting, per piece connector for 10-pole through wiring with dimming (analog or DALI) and emergency lighting

E3H129 Connector for 9-/11-pole through wiring

E3H120 Mounting bracket for ceiling mounting

E3H121 Mounting bracket for threaded rod

E3H122 Mounting bracket for Telemecanique Canalis KLE

E3H123 Mounting bracket for chain

E3H124 Roll of chain (30 m)

E3H125 Mounting bracket for steel wire, bracket with quick adjustment system, ceiling attachment and 3m steel wire, per set

Dimensional drawing

