

E5M001/LEDN030S



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 : 127 lm/W

LLMF: 98% @ 50khrs (Tq=25°C)

Product information

Mechanical properties

dimensions : 1498 mm x 60 mm x 100 mm

colour: RAL9016 - traffic white (textured)

type : in-line mounting: intermediate luminaire

IP: IP20

IK: IK06

Electrical properties

driver: not dimmable

power : 26 W

voltage : 220-240V

frequency : 50-60Hz AC

photobiological safety : EN 62471: RISK GROUP 1
UNLIMITED

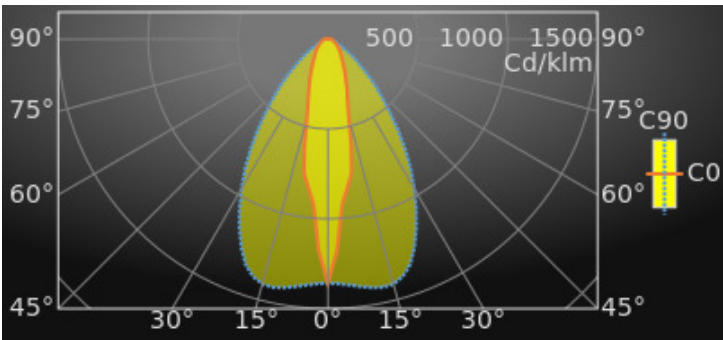
Luminance

luminous efficacy : 127 lm/W

UGR classification =: <=22

luminous area : 0.09 m²

Average Luminances (Cd/m²) for 3300lm					
Gamma	C0	C30	C45	C60	C90
45°	3224	3689	4626	6908	19877
50°	2769	3096	3751	5339	14416
55°	2402	2636	3040	4088	10545
60°	2110	2296	2452	3172	7713
65°	1859	2017	2013	2563	5919
70°	1673	1770	1693	2149	4911
75°	1531	1556	1461	1801	4742
80°	1430	1372	1245	1454	4492
85°	1351	1199	1018	1151	3869



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 3300lm

Gamma	C0	C45	C90	Gamma	C0	C45	C90
0°	4482.2	4482.2	4482.2	90°	58.5	27.1	1.3
5°	3046.9	3593.5	4530.9	95°	47.8	16.7	0.0
10°	2505.2	2684.3	4633.0	100°	37.0	8.4	0.0
15°	1473.4	2234.5	4657.1	105°	26.5	2.9	0.0
20°	1031.6	1515.7	4407.3	110°	16.8	0.7	0.0
25°	774.8	1115.8	3836.4	115°	8.7	0.1	0.0
30°	578.4	858.0	3169.3	120°	2.8	0.0	0.0
35°	453.7	666.1	2474.7	125°	0.6	0.0	0.0
40°	371.2	514.7	1798.5	130°	0.1	0.0	0.0
45°	307.4	397.9	1263.3	135°	0.0	0.0	0.0
50°	255.3	308.0	832.9	140°	0.0	0.0	0.0
55°	212.3	235.9	543.7	145°	0.0	0.0	0.0
60°	176.9	177.7	346.6	150°	0.0	0.0	0.0
65°	146.4	134.4	224.8	155°	0.0	0.0	0.0
70°	122.1	102.6	151.0	160°	0.0	0.0	0.0
75°	102.1	78.8	110.3	165°	0.0	0.0	0.0
80°	85.6	58.4	70.1	170°	0.0	0.0	0.0
85°	71.1	40.2	30.3	175°	0.0	0.0	0.0
90°	58.5	27.1	1.3	180°	0.0	0.0	0.0

UGR classification =

Corrected Glare Ratings for a Total Lamp Flux of 3300lm (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	14.3	13.1	14.5	14.8	18.7	20.1	19.0	20.4	20.7
Y = 3H	13.9	15.3	14.3	15.5	15.8	19.2	20.5	19.5	20.8	21.1
Y = 4H	14.5	15.7	14.9	16.0	16.4	19.5	20.7	19.8	21.0	21.3
Y = 6H	15.0	16.2	15.4	16.5	16.8	19.7	20.9	20.1	21.2	21.5
Y = 8H	15.3	16.4	15.7	16.7	17.1	19.8	20.9	20.2	21.3	21.6
Y = 12H	15.5	16.6	15.9	16.9	17.3	19.9	20.9	20.3	21.3	21.6
X = 4H Y = 2H	13.4	14.6	13.7	14.9	15.2	18.6	19.8	18.9	20.1	20.4
Y = 3H	14.7	15.7	15.1	16.1	16.4	19.2	20.2	19.6	20.6	21.0
Y = 4H	15.4	16.3	15.8	16.7	17.1	19.6	20.5	20.0	20.9	21.3
Y = 6H	16.1	16.9	16.5	17.3	17.7	19.9	20.8	20.4	21.2	21.6
Y = 8H	16.4	17.2	16.9	17.6	18.1	20.1	20.8	20.5	21.3	21.7
Y = 12H	16.8	17.5	17.2	17.9	18.4	20.2	20.9	20.6	21.3	21.8
X = 8H Y = 4H	15.6	16.4	16.0	16.8	17.2	19.5	20.3	20.0	20.7	21.2
Y = 6H	16.5	17.1	17.0	17.6	18.0	20.0	20.6	20.5	21.1	21.5
Y = 8H	16.9	17.5	17.4	18.0	18.5	20.2	20.7	20.7	21.2	21.7
Y = 12H	17.4	17.9	17.9	18.4	19.0	20.3	20.8	20.8	21.3	21.8
X = 12H Y = 4H	15.6	16.3	16.1	16.8	17.2	19.5	20.2	20.0	20.7	21.1
Y = 6H	16.5	17.1	17.0	17.6	18.1	20.0	20.5	20.5	21.0	21.5
Y = 8H	17.0	17.5	17.5	18.0	18.6	20.2	20.7	20.7	21.2	21.7
	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 mounting*Length: 100 mm

E5C11/0200 *Cover profile E5 in-line mounting*Length: 200 mm

E5C11/0300 *Cover profile E5 in-line mounting*Length: 300 mm

E5C11/0400 *Cover profile E5 in-line mounting*Length: 400 mm

E5C11/0500 *Cover profile E5 in-line mounting*Length: 500 mm

E5C11/1000 *Cover profile E5 in-line mounting*Length: 1000 mm

E5C11/1500 *Cover profile E5 in-line mounting*Length: 1500 mm

E5C11/2000 *Cover profile E5 in-line mounting*Length: 2000 mm

E5C11/2500 *Cover profile E5 in-line mounting*Length: 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

