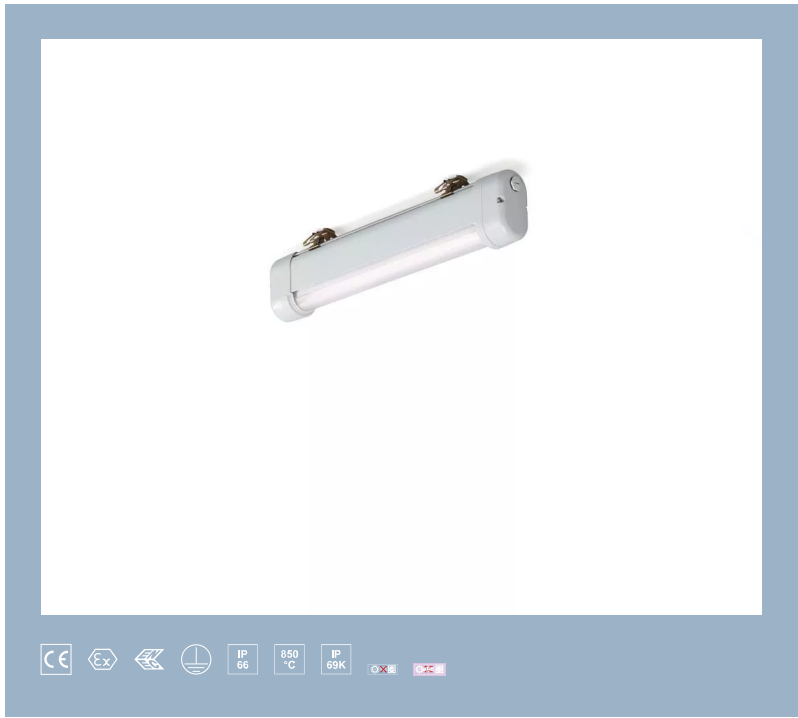


E21/LED2N030D-ATEX1



surface-mounted luminaire • linear

Application : ATEX environments

housing: lacquered aluminium

light source : LED • 4000 K

optics : linear lens • polycarbonate (PC) • medium wide-angle

UGR classification : <=28

luminous flux: 3300 lm

luminous efficacy : 122 lm/W

LLMF: 96% @ 50khrs (Tq=25°C)

Product information

Mechanical properties

dimensions : 620 mm x 80 mm x 135 mm

colour: RAL7035 - light grey

type : individual luminaire

IP: IP66, IP69K

ambient temperature: -20°C - 40°C •

ATEX : II 2D Ex tb IIIC T80°C Db, II 3G Ex ec IIC T4 Gc

Electrical properties

driver: DALI dimmable

power : 27 W

voltage : 220-240V

frequency : 50-60Hz AC

photobiological safety : EN 62471: RISK GROUP 1 UNLIMITED

Luminance

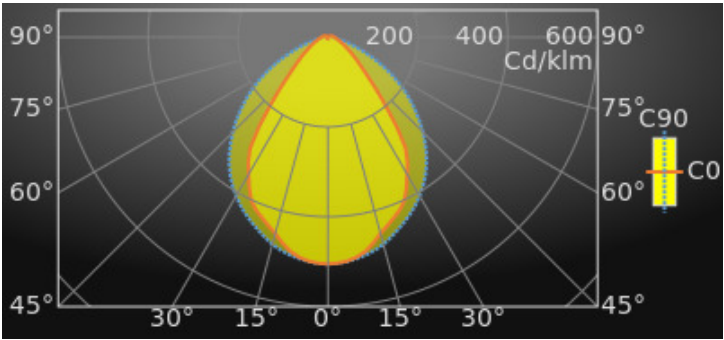
luminous flux : 3300 lm

luminous efficacy : 122 lm/W

UGR classification =: <=28

luminous area : 0.03 m²

Average Luminances (Cd/m²) for 3300lm					
Gamma	C0	C30	C45	C60	C90
45°	12985	17746	25435	32263	43142
50°	9360	12238	18253	27927	40258
55°	7204	9013	12927	22153	37028
60°	5659	7074	9549	16700	32580
65°	4751	5664	7435	12270	26910
70°	3923	4860	6138	9151	20976
75°	3437	4238	5156	6996	15676
80°	3217	3716	4543	5556	10977
85°	3079	3433	4058	4536	5326



Classifications

CIE: 607 / 867 / 954 / 983 / 1002

CIE FLUXCODE : 0.62 / 0.88 / 0.97 / 0.98 / 1.00

BZ: BZ2/1/BZ3/1.25/BZ2/1.5/BZ3

CAE: CAE 3/5°/CAE 2/55°/CAE 3

DIN: A50 (Nach Arbeitsblatt 7 und 8)

DIN_U: Phi u = 0.98

DIN_SU: Phi su = 0.64

UTE: 0.98 C + 0.02 T



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Lifetime Data (Tq=25.0°C)

Time(khrs)	LLMF(%)	Cx(%)
10	99	1
20	98	2
30	98	3
40	97	4
50	96	5
60	96	6

Luminous intensities in cd

Intensity for 3300lm

Gamma	C0	C45	C90	Gamma	C0	C45	C90
0°	1666.3	1666.3	1666.3	90°	46.5	41.0	0.7
5°	1650.4	1646.1	1653.4	95°	39.3	30.1	0.0
10°	1596.6	1622.9	1623.8	100°	36.3	23.3	0.0
15°	1492.5	1546.3	1575.1	105°	31.8	17.5	0.0
20°	1413.5	1443.8	1504.4	110°	25.2	13.2	0.0
25°	1327.1	1368.6	1431.3	115°	19.6	10.0	0.0
30°	1163.0	1292.1	1347.2	120°	14.9	7.2	0.0
35°	993.7	1124.4	1246.5	125°	10.6	4.7	0.0
40°	665.3	983.8	1125.1	130°	7.4	2.6	0.0
45°	430.2	766.3	987.2	135°	4.8	0.2	0.0
50°	298.6	522.9	837.4	140°	2.5	0.0	0.0
55°	219.2	348.4	687.3	145°	0.0	0.0	0.0
60°	162.6	239.2	527.2	150°	0.0	0.0	0.0
65°	127.4	170.7	368.0	155°	0.0	0.0	0.1
70°	96.8	127.0	232.2	160°	0.0	0.0	0.1
75°	76.9	94.2	131.3	165°	0.1	0.0	0.1
80°	64.0	71.4	61.7	170°	0.4	0.3	0.2
85°	53.1	52.9	15.0	175°	0.9	0.8	0.6
90°	46.5	41.0	0.7	180°	0.8	0.8	0.8

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	18.6	20.3	19.0	20.6	20.9	24.2	25.9	24.6	26.2	26.5
Y = 3H	19.0	20.5	19.4	20.8	21.1	25.1	26.6	25.5	26.9	27.2
Y = 4H	19.2	20.6	19.6	20.9	21.2	25.4	26.8	25.8	27.1	27.4
Y = 6H	19.4	20.6	19.8	21.0	21.3	25.5	26.8	25.9	27.1	27.5
Y = 8H	19.5	20.7	19.9	21.1	21.4	25.5	26.7	25.9	27.1	27.4
Y = 12H	19.6	20.7	20.0	21.1	21.5	25.5	26.6	25.9	27.0	27.4
X = 4H Y = 2H	19.2	20.6	19.6	20.9	21.3	24.1	25.5	24.5	25.8	26.2
Y = 3H	19.7	20.9	20.2	21.3	21.7	25.1	26.3	25.6	26.7	27.1
Y = 4H	20.0	21.0	20.4	21.4	21.8	25.5	26.5	25.9	26.9	27.3
Y = 6H	20.3	21.2	20.7	21.6	22.1	25.7	26.6	26.1	27.0	27.5
Y = 8H	20.4	21.3	20.9	21.7	22.2	25.7	26.6	26.2	27.0	27.5
Y = 12H	20.6	21.4	21.1	21.8	22.3	25.7	26.5	26.2	27.0	27.4
X = 8H Y = 4H	20.3	21.1	20.7	21.6	22.0	25.4	26.3	25.9	26.7	27.2
Y = 6H	20.7	21.4	21.2	21.9	22.4	25.7	26.4	26.2	26.9	27.4
Y = 8H	20.9	21.6	21.4	22.0	22.6	25.8	26.4	26.3	26.9	27.4
Y = 12H	21.2	21.7	21.7	22.2	22.8	25.8	26.4	26.4	26.9	27.4
X = 12H Y = 4H	20.3	21.1	20.8	21.5	22.0	25.4	26.2	25.9	26.7	27.1
Y = 6H	20.8	21.4	21.3	21.9	22.4	25.7	26.3	26.2	26.8	27.3
Y = 8H	21.1	21.6	21.6	22.1	22.7	25.8	26.4	26.3	26.9	27.4
	UGR Variations with Observer Position for Luminaire Spacings S									
S = 1.0H	+1.0		-1.0			+0.2		-0.3		
S = 1.5H	+1.4		-1.5			+0.7		-0.9		
S = 2.0H	+2.2		-1.9			+1.9		-2.0		

Colour properties

Correlated Colour Temperature : 4000

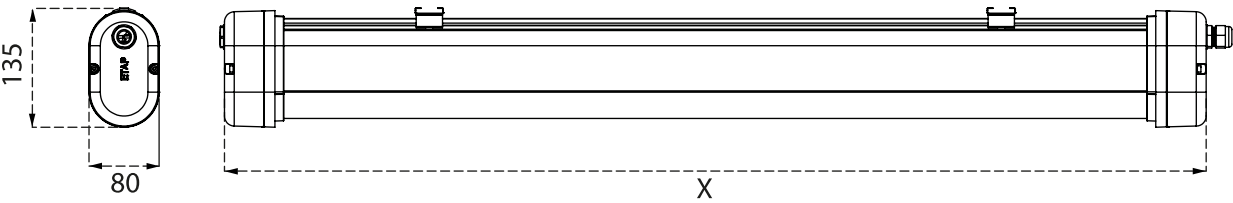
Ra: CRI (Ra) 80

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	105	103	101	98	96	95	94	93	91	86
2	94	89	86	88	84	82	84	81	79	74
3	84	78	73	79	74	71	76	72	69	65
4	75	69	64	71	66	62	69	64	61	57
5	68	61	56	65	59	55	63	58	54	51
6	62	55	50	59	53	49	58	52	48	45
7	57	50	45	55	48	44	53	47	43	41
8	53	45	40	50	44	40	49	43	39	37
9	49	41	37	47	40	36	46	40	36	34
10	45	38	33	44	37	33	42	37	33	31

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	55	47	52	46	53	46	51	45	44	38
0.80	67	58	62	56	63	56	60	55	54	48
1.00	75	66	70	63	71	64	67	62	61	55
1.25	85	76	77	72	79	73	75	70	69	63
1.50	91	83	82	77	85	79	79	75	74	68
2.00	98	91	88	83	91	86	85	81	79	74
2.50	104	98	92	88	96	91	89	85	84	79
3.00	109	103	95	92	100	96	92	89	87	83
4.00	113	108	98	95	103	99	94	92	90	85
5.00	117	112	100	98	106	103	96	94	92	88

Dimensional drawing



E2*/LED2*	620 mm
E2*/LED4*	1120 mm
E2*/LED6*	1620 mm