

E22/LED3N045S-ATEX1



surface-mounted luminaire • linear

Application : Industry ? ATEX environments

housing: lacquered aluminium

light source : LED • 4000 K

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

UGR classification : <=25

luminous flux: 5000 lm

luminous efficacy : 128 lm/W

LLMF: 96% @ 50khrs (Tq=25°C)

Product information

Mechanical properties

dimensions : 870 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: not dimmable

power : 39 W

voltage : 220-240V

frequency : 50-60Hz AC

photobiological safety : EN 62471: RISK GROUP 1 UNLIMITED

Luminance

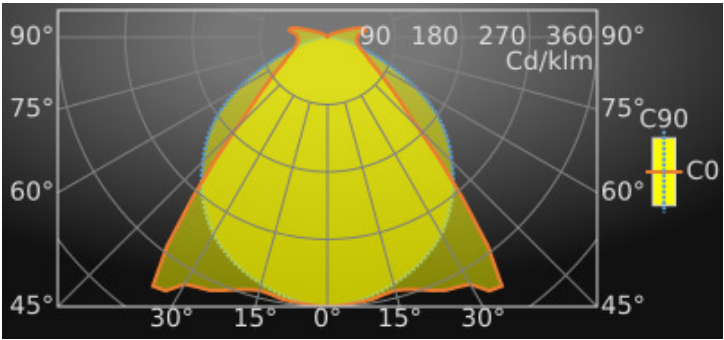
luminous flux : 5000 lm

luminous efficacy : 128 lm/W

UGR classification =: <=25

luminous area : 0.05 m²

Gamma	Average Luminances (Cd/m²) for 5000lm				
	C0	C30	C45	C60	C90
45°	16966	21870	30105	34279	33826
50°	12191	14703	20294	29008	33030
55°	9509	10933	14190	21975	31475
60°	7801	8795	10667	16339	28050
65°	6989	7402	8542	12164	22950
70°	6400	6786	7362	9333	17613
75°	6340	6399	6655	7517	13057
80°	6684	6283	6357	6458	9196
85°	7472	6677	6309	5865	4586



Classifications

CIE: 528 / 803 / 898 / 942 / 1001

CIE FLUXCODE : 0.56 / 0.85 / 0.95 / 0.94 / 1.00

BZ: BZ4/0.8/BZ3/1/BZ4/1.25/BZ3/1.5/BZ4

CAE: CAE 3/5°/CAE 2/15°/CAE 1/35°/CAE 2/65°/CAE 3

DIN: A40 (Nach Arbeitsblatt 7 und 8)

DIN_U: Phi u = 0.94

DIN_SU: Phi su = 0.60

UTE: 0.94 D + 0.06 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 5000lm

Gamma	C0	C45	C90	Gamma	C0	C45	C90
0°	1799.4	1799.4	1799.4	90°	201.3	108.5	1.2
5°	1788.6	1779.5	1783.1	95°	208.1	92.0	0.0
10°	1775.2	1774.5	1750.8	100°	258.6	88.5	0.0
15°	1750.8	1734.1	1705.9	105°	235.6	86.2	0.0
20°	1795.4	1689.0	1656.4	110°	143.3	85.1	0.0
25°	1865.6	1702.6	1594.4	115°	86.5	69.8	0.0
30°	1905.1	1737.4	1520.6	120°	56.1	42.1	0.0
35°	2030.5	1722.1	1419.7	125°	37.0	21.9	0.0
40°	1401.7	1779.9	1306.6	130°	23.8	7.0	0.0
45°	853.0	1376.5	1174.7	135°	14.1	0.7	0.0
50°	590.2	882.4	1042.7	140°	1.5	0.0	0.0
55°	439.1	580.4	886.6	145°	0.0	0.0	0.0
60°	340.1	405.6	688.8	150°	0.0	0.0	0.0
65°	284.4	297.7	476.3	155°	0.0	0.0	0.0
70°	239.7	231.2	295.8	160°	0.0	0.0	0.0
75°	215.2	184.5	166.0	165°	0.0	0.0	0.0
80°	201.7	151.6	78.4	170°	0.1	0.0	0.2
85°	195.7	124.7	19.6	175°	0.0	0.0	0.0
90°	201.3	108.5	1.2	180°	0.0	0.0	0.0

UGR classification =

Corrected Glare Ratings for a Total Lamp Flux of 5000lm (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	20.1	21.7	20.5	22.1	22.4	23.5	25.1	23.8	25.4	25.8
Y = 3H	20.7	22.2	21.1	22.5	22.9	24.2	25.7	24.7	26.1	26.5
Y = 4H	21.1	22.4	21.5	22.9	23.2	24.5	25.8	24.9	26.2	26.6
Y = 6H	21.5	22.8	22.0	23.3	23.7	24.5	25.8	25.0	26.2	26.6
Y = 8H	21.9	23.1	22.3	23.5	23.9	24.5	25.8	25.0	26.2	26.6
Y = 12H	22.2	23.4	22.7	23.8	24.2	24.5	25.7	25.0	26.1	26.6
X = 4H Y = 2H	20.5	21.9	20.9	22.3	22.7	23.4	24.8	23.8	25.2	25.6
Y = 3H	21.2	22.4	21.7	22.9	23.3	24.3	25.5	24.8	25.9	26.4
Y = 4H	21.8	22.8	22.3	23.3	23.7	24.6	25.7	25.1	26.1	26.6
Y = 6H	22.4	23.4	23.0	23.9	24.3	24.8	25.8	25.3	26.2	26.7
Y = 8H	22.8	23.7	23.4	24.2	24.7	24.9	25.7	25.4	26.2	26.7
Y = 12H	23.3	24.1	23.9	24.6	25.1	24.9	25.6	25.4	26.2	26.7
X = 8H Y = 4H	22.0	22.8	22.5	23.3	23.9	24.6	25.5	25.2	26.0	26.5
Y = 6H	22.8	23.6	23.4	24.1	24.6	24.9	25.7	25.5	26.2	26.7
Y = 8H	23.4	24.0	24.0	24.6	25.1	25.0	25.7	25.6	26.2	26.8
Y = 12H	24.0	24.6	24.6	25.2	25.8	25.1	25.6	25.7	26.2	26.8
X = 12H Y = 4H	22.0	22.8	22.5	23.3	23.8	24.6	25.4	25.2	26.0	26.5
Y = 6H	22.9	23.6	23.5	24.1	24.7	25.0	25.6	25.5	26.2	26.7
Y = 8H	23.5	24.1	24.1	24.7	25.3	25.1	25.6	25.7	26.2	26.8
	UGR Variations with Observer Position for Luminaire Spacings S									
S = 1.0H	+0.6		-0.6			+0.4		-0.3		
S = 1.5H	+0.9		-0.9			+0.6		-0.8		
S = 2.0H	+1.5		-1.1			+1.5		-1.8		

Colour properties

Correlated Colour Temperature : 4000

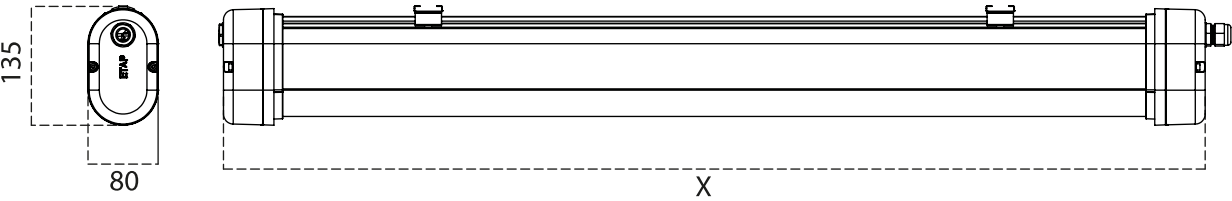
Ra: CRI (Ra) 80

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	103	100	98	95	93	91	90	88	87	80
2	91	86	82	84	80	77	80	76	74	68
3	80	74	70	74	70	66	71	67	64	59
4	72	65	60	67	61	57	64	59	55	51
5	65	57	52	60	54	50	58	53	49	45
6	59	51	45	55	49	44	53	47	43	40
7	53	46	40	50	44	39	48	42	38	35
8	49	41	36	46	39	35	44	38	34	32
9	45	37	32	42	36	31	41	35	31	29
10	41	34	29	39	33	29	38	32	28	26

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	50	41	48	40	47	40	45	39	38	32
0.80	62	53	58	51	58	51	55	49	48	41
1.00	70	61	65	58	65	58	62	56	55	48
1.25	80	71	73	67	74	67	70	64	63	56
1.50	86	78	78	72	79	73	74	70	68	61
2.00	94	87	84	79	86	80	80	76	74	67
2.50	101	94	89	84	91	86	84	81	78	72
3.00	105	99	92	88	95	91	88	85	82	76
4.00	110	105	95	92	99	95	90	88	85	79
5.00	114	109	98	95	102	98	93	90	88	82

Dimensional drawing



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