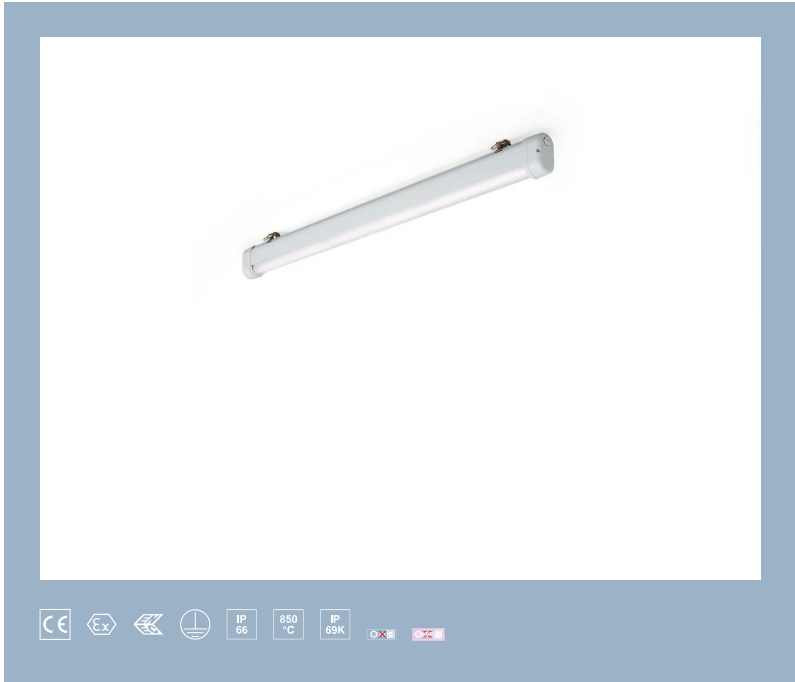


E22/LED6N090D5-ATEX1



surface-mounted luminaire • linear

Application : Industry ? ATEX environments

housing: lacquered aluminium

light source : LED • K

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

UGR classification : <=25

luminous flux: 9950 lm

luminous efficacy : 133 lm/W

LLMF: 96% @ 50khrs (Tq=25°C)

Product information

Mechanical properties

dimensions : 1620 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 : 75 W

voltage : 220-240V

frequency : 50-60Hz AC

photobiological safety : EN 62471: RISK GROUP 1 UNLIMITED

Luminance

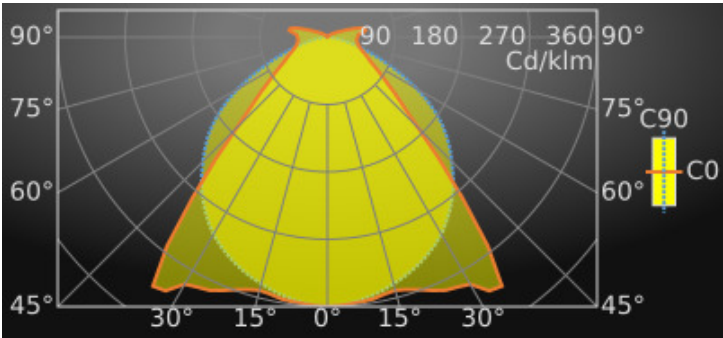
luminous flux : 9950 lm

luminous efficacy : 133 lm/W

UGR classification =: <=25

luminous area : 0.1 m²

Gamma	Average Luminances (Cd/m²) for 9950lm				
	C0	C30	C45	C60	C90
45°	16687	21511	29612	33717	33271
50°	11991	14462	19961	28532	32488
55°	9353	10753	13957	21615	30959
60°	7673	8650	10492	16071	27590
65°	6875	7281	8402	11964	22574
70°	6295	6674	7241	9180	17324
75°	6236	6294	6546	7393	12842
80°	6574	6180	6253	6352	9045
85°	7349	6567	6205	5769	4511



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

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 9950lm

Gamma	C0	C45	C90	Gamma	C0	C45	C90
0°	3580.8	3580.8	3580.8	90°	400.6	216.0	2.4
5°	3559.3	3541.2	3548.3	95°	414.1	183.0	0.0
10°	3532.6	3531.3	3484.1	100°	514.6	176.2	0.0
15°	3484.2	3450.9	3394.7	105°	468.8	171.6	0.0
20°	3572.8	3361.1	3296.3	110°	285.1	169.4	0.0
25°	3712.5	3388.1	3172.9	115°	172.0	139.0	0.0
30°	3791.2	3457.4	3026.1	120°	111.6	83.8	0.0
35°	4040.6	3427.0	2825.1	125°	73.6	43.6	0.0
40°	2789.4	3541.9	2600.2	130°	47.3	13.9	0.0
45°	1697.4	2739.2	2337.6	135°	28.0	1.5	0.0
50°	1174.5	1756.0	2074.9	140°	2.9	0.0	0.0
55°	873.9	1155.1	1764.4	145°	0.0	0.0	0.0
60°	676.8	807.1	1370.7	150°	0.0	0.0	0.1
65°	565.9	592.4	947.9	155°	0.0	0.0	0.0
70°	477.1	460.1	588.7	160°	0.0	0.0	0.0
75°	428.3	367.2	330.3	165°	0.0	0.0	0.0
80°	401.5	301.6	156.1	170°	0.2	0.1	0.4
85°	389.4	248.2	39.1	175°	0.0	0.0	0.0
90°	400.6	216.0	2.4	180°	0.0	0.0	0.0

UGR classification =

Corrected Glare Ratings for a Total Lamp Flux of 9950lm (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	20.4	22.0	22.4	23.4	25.0	23.8	25.4	25.7
Y = 3H	20.6	22.1	21.1	22.5	22.9	24.2	25.6	24.6	26.0	26.4
Y = 4H	21.0	22.4	21.4	22.8	23.2	24.4	25.8	24.8	26.2	26.6
Y = 6H	21.5	22.8	22.0	23.2	23.6	24.5	25.7	24.9	26.2	26.6
Y = 8H	21.8	23.0	22.3	23.5	23.9	24.5	25.7	24.9	26.1	26.6
Y = 12H	22.1	23.3	22.6	23.8	24.2	24.4	25.6	24.9	26.1	26.5
X = 4H Y = 2H	20.4	21.8	20.9	22.2	22.6	23.3	24.7	23.8	25.1	25.5
Y = 3H	21.2	22.4	21.7	22.8	23.2	24.3	25.4	24.7	25.9	26.3
Y = 4H	21.7	22.8	22.2	23.2	23.7	24.6	25.6	25.1	26.1	26.5
Y = 6H	22.4	23.3	22.9	23.8	24.3	24.8	25.7	25.3	26.2	26.7
Y = 8H	22.8	23.6	23.3	24.2	24.7	24.8	25.7	25.3	26.2	26.7
Y = 12H	23.3	24.0	23.8	24.6	25.1	24.8	25.6	25.3	26.1	26.6
X = 8H Y = 4H	21.9	22.8	22.5	23.3	23.8	24.6	25.5	25.1	26.0	26.5
Y = 6H	22.8	23.5	23.3	24.0	24.6	24.9	25.6	25.4	26.1	26.7
Y = 8H	23.3	24.0	23.9	24.5	25.1	25.0	25.6	25.5	26.2	26.7
Y = 12H	24.0	24.5	24.6	25.1	25.7	25.0	25.6	25.6	26.1	26.7
X = 12H Y = 4H	21.9	22.7	22.5	23.2	23.8	24.6	25.4	25.1	25.9	26.4
Y = 6H	22.9	23.5	23.4	24.0	24.6	24.9	25.5	25.5	26.1	26.7
Y = 8H	23.5	24.0	24.1	24.6	25.2	25.0	25.6	25.6	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

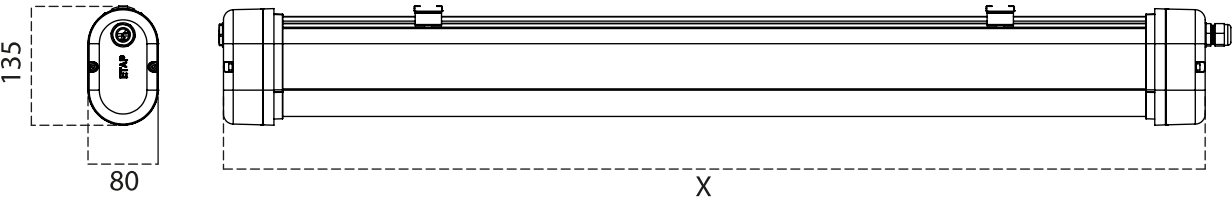
Ra: CRI (Ra) 80

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