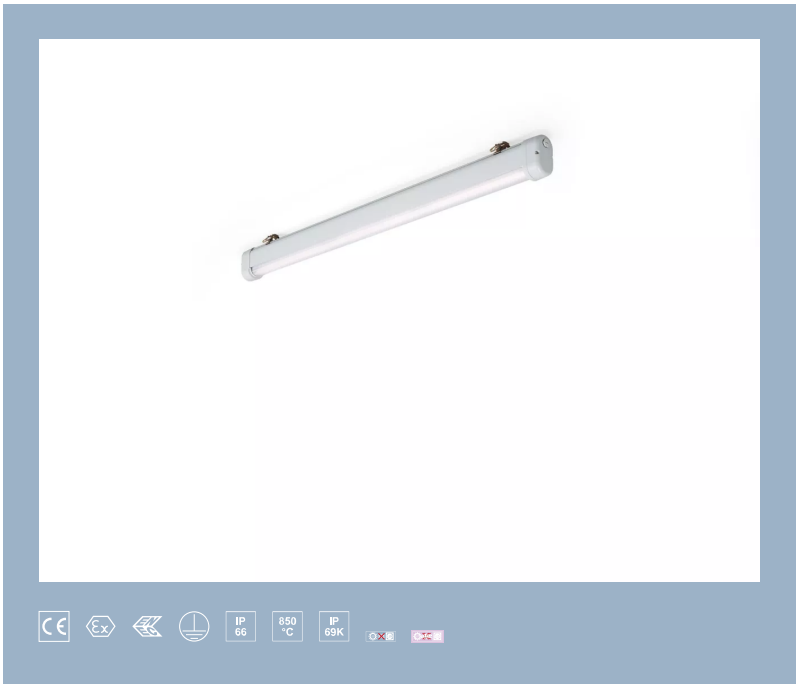
E21/LED6N090D5-ATEX1



surface-mounted luminaire • linear

Application : ATEX environments

housing: lacquered aluminium

light source : LED • K

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

UGR classification : <=28

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

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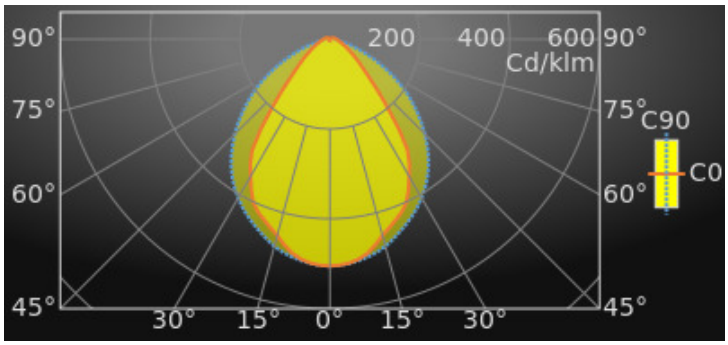
Luminance

luminous flux : 9950 lm

luminous efficacy : 133 lm/W

UGR classification =: <=28

luminous area : 0.1 m²



Average Luminances (Cd/m²) for 9950lm

Gamma	C0	C30	C45	C60	C90
45°	12751	17427	24977	31682	42366
50°	9192	12018	17924	27424	39533
55°	7074	8851	12694	21754	36361
60°	5557	6947	9377	16400	31994
65°	4665	5562	7302	12049	26426
70°	3853	4772	6028	8986	20599
75°	3375	4162	5064	6870	15394
80°	3159	3649	4461	5456	10779
85°	3024	3371	3985	4454	5230

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 9950lm

Gamma	C0	C45	C90	Gamma	C0	C45	C90
0°	5024.2	5024.2	5024.2	90°	140.2	123.5	2.2
5°	4976.3	4963.1	4985.4	95°	118.4	90.6	0.1
10°	4813.9	4893.2	4896.0	100°	109.6	70.2	0.0
15°	4500.3	4662.3	4749.1	105°	95.8	52.9	0.1
20°	4262.0	4353.4	4535.9	110°	76.0	39.9	0.0
25°	4001.5	4126.6	4315.6	115°	59.1	30.2	0.0
30°	3506.5	3895.7	4062.0	120°	44.9	21.6	0.0
35°	2996.2	3390.3	3758.4	125°	32.1	14.2	0.0
40°	2005.9	2966.4	3392.3	130°	22.2	7.7	0.0
45°	1297.0	2310.5	2976.6	135°	14.5	0.5	0.0
50°	900.4	1576.8	2524.9	140°	7.4	0.0	0.0
55°	661.0	1050.6	2072.3	145°	0.1	0.0	0.1
60°	490.2	721.3	1589.5	150°	0.0	0.0	0.1
65°	384.0	514.8	1109.7	155°	0.0	0.0	0.2
70°	292.0	383.1	700.0	160°	0.0	0.0	0.3
75°	231.9	284.1	395.9	165°	0.2	0.0	0.2
80°	192.9	215.2	186.0	170°	1.1	0.8	0.5
85°	160.2	159.4	45.3	175°	2.6	2.3	1.9
90°	140.2	123.5	2.2	180°	2.4	2.4	2.4

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	18.6	20.2	18.9	20.5	20.8	24.2	25.8	24.5	26.1	26.4
Y = 3H	18.9	20.4	19.3	20.7	21.0	25.1	26.5	25.4	26.9	27.2
Y = 4H	19.1	20.5	19.5	20.8	21.2	25.3	26.7	25.7	27.0	27.4
Y = 6H	19.3	20.6	19.7	20.9	21.3	25.4	26.7	25.8	27.1	27.4
Y = 8H	19.4	20.6	19.8	21.0	21.4	25.4	26.7	25.8	27.0	27.4
Y = 12H	19.5	20.7	19.9	21.1	21.4	25.4	26.6	25.8	27.0	27.3
X = 4H Y = 2H	19.2	20.6	19.6	20.9	21.2	24.1	25.4	24.4	25.8	26.1
Y = 3H	19.7	20.8	20.1	21.2	21.6	25.1	26.3	25.5	26.6	27.0
Y = 4H	19.9	21.0	20.4	21.4	21.8	25.4	26.5	25.9	26.9	27.3
Y = 6H	20.2	21.2	20.7	21.6	22.0	25.6	26.6	26.1	27.0	27.4
Y = 8H	20.4	21.2	20.9	21.7	22.1	25.7	26.5	26.1	27.0	27.4
Y = 12H	20.5	21.3	21.0	21.8	22.3	25.7	26.4	26.1	26.9	27.4
X = 8H Y = 4H	20.2	21.1	20.7	21.5	21.9	25.4	26.2	25.9	26.7	27.1
Y = 6H	20.6	21.3	21.1	21.8	22.3	25.7	26.4	26.1	26.8	27.3
Y = 8H	20.9	21.5	21.4	22.0	22.5	25.7	26.4	26.2	26.8	27.4
Y = 12H	21.1	21.7	21.7	22.2	22.7	25.8	26.3	26.3	26.8	27.4
X = 12H Y = 4H	20.2	21.0	20.7	21.5	21.9	25.4	26.1	25.8	26.6	27.1
Y = 6H	20.7	21.3	21.2	21.8	22.3	25.6	26.3	26.2	26.8	27.3
Y = 8H	21.0	21.5	21.5	22.1	22.6	25.7	26.3	26.3	26.8	27.3

	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

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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

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