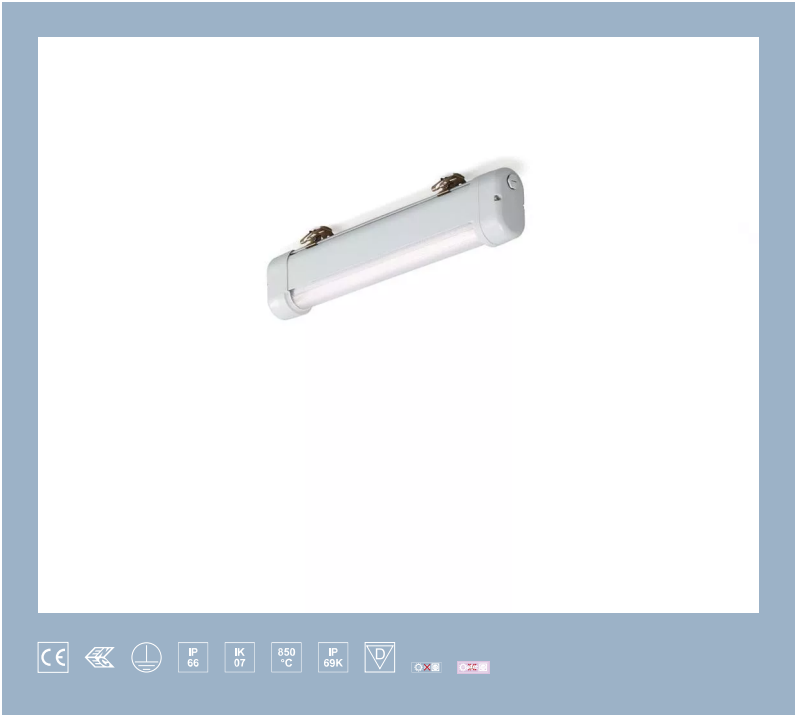


E21/LED2N030D



surface-mounted luminaire • linear

Application : Harsh environments

housing: lacquered aluminium

light source : LED • 4000 K

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

UGR classification : <=25

luminous flux: 2900 lm

luminous efficacy : 121 lm/W

LLMF: 97% @ 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

IK: IK07

ambient temperature: -25°C - 35°C •

Electrical properties

driver: DALI dimmable

power : 24 W

voltage : 220-240V

frequency : 50-60Hz AC

photobiological safety : EN 62471: RISK GROUP 1
UNLIMITED

Luminance

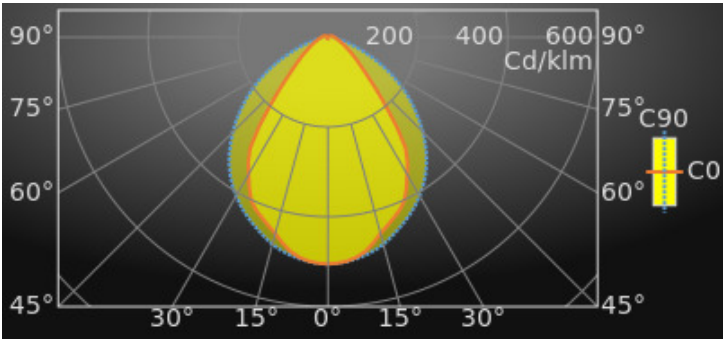
luminous flux : 2900 lm

luminous efficacy : 121 lm/W

UGR classification =: <=25

luminous area : 0.03 m²

Gamma	Average Luminances (Cd/m²) for 2900lm				
	C0	C30	C45	C60	C90
45°	11411	15595	22352	28352	37913
50°	8226	10755	16040	24542	35378
55°	6331	7920	11360	19468	32539
60°	4973	6217	8391	14676	28631
65°	4175	4977	6534	10782	23648
70°	3448	4271	5394	8041	18433
75°	3021	3724	4531	6148	13776
80°	2827	3265	3992	4882	9646
85°	2706	3017	3566	3986	4680



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	2
20	99	4
30	98	6
40	98	8
50	97	10
60	97	12

Luminous intensities in cd

Intensity for 2900lm

Gamma	C0	C45	C90	Gamma	C0	C45	C90
0°	1464.3	1464.3	1464.3	90°	40.9	36.0	0.6
5°	1450.4	1446.5	1453.0	95°	34.5	26.4	0.0
10°	1403.1	1426.2	1427.0	100°	31.9	20.5	0.0
15°	1311.6	1358.9	1384.2	105°	27.9	15.4	0.0
20°	1242.2	1268.8	1322.0	110°	22.2	11.6	0.0
25°	1166.3	1202.7	1257.8	115°	17.2	8.8	0.0
30°	1022.0	1135.4	1183.9	120°	13.1	6.3	0.0
35°	873.3	988.1	1095.4	125°	9.4	4.1	0.0
40°	584.6	864.6	988.7	130°	6.5	2.2	0.0
45°	378.0	673.4	867.5	135°	4.2	0.1	0.0
50°	262.4	459.6	735.9	140°	2.2	0.0	0.0
55°	192.6	306.2	604.0	145°	0.0	0.0	0.0
60°	142.9	210.2	463.3	150°	0.0	0.0	0.0
65°	111.9	150.0	323.4	155°	0.0	0.0	0.1
70°	85.1	111.6	204.0	160°	0.0	0.0	0.1
75°	67.6	82.8	115.4	165°	0.1	0.0	0.1
80°	56.2	62.7	54.2	170°	0.3	0.2	0.1
85°	46.7	46.5	13.2	175°	0.8	0.7	0.6
90°	40.9	36.0	0.6	180°	0.7	0.7	0.7

UGR classification =

Corrected Glare Ratings for a Total Lamp Flux of 2900lm (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	18.2	19.8	18.5	20.1	20.4	23.8	25.4	24.1	25.7	26.0
Y = 3H	18.6	20.0	18.9	20.3	20.7	24.7	26.2	25.1	26.5	26.8
Y = 4H	18.7	20.1	19.1	20.4	20.8	24.9	26.3	25.3	26.6	27.0
Y = 6H	18.9	20.2	19.3	20.5	20.9	25.0	26.3	25.4	26.7	27.0
Y = 8H	19.0	20.2	19.4	20.6	21.0	25.0	26.3	25.4	26.6	27.0
Y = 12H	19.1	20.3	19.5	20.7	21.0	25.0	26.2	25.4	26.6	26.9
X = 4H Y = 2H	18.8	20.2	19.2	20.5	20.8	23.7	25.1	24.1	25.4	25.7
Y = 3H	19.3	20.5	19.7	20.8	21.2	24.7	25.9	25.1	26.2	26.6
Y = 4H	19.5	20.6	20.0	21.0	21.4	25.0	26.1	25.5	26.5	26.9
Y = 6H	19.8	20.8	20.3	21.2	21.6	25.2	26.2	25.7	26.6	27.0
Y = 8H	20.0	20.9	20.5	21.3	21.7	25.3	26.1	25.8	26.6	27.0
Y = 12H	20.2	20.9	20.6	21.4	21.9	25.3	26.1	25.8	26.5	27.0
X = 8H Y = 4H	19.8	20.7	20.3	21.1	21.6	25.0	25.9	25.5	26.3	26.7
Y = 6H	20.2	21.0	20.7	21.4	21.9	25.3	26.0	25.8	26.5	26.9
Y = 8H	20.5	21.1	21.0	21.6	22.1	25.3	26.0	25.9	26.5	27.0
Y = 12H	20.7	21.3	21.3	21.8	22.4	25.4	25.9	25.9	26.4	27.0
X = 12H Y = 4H	19.8	20.6	20.3	21.1	21.6	25.0	25.8	25.5	26.2	26.7
Y = 6H	20.3	21.0	20.8	21.4	22.0	25.3	25.9	25.8	26.4	26.9
Y = 8H	20.6	21.2	21.1	21.7	22.2	25.4	25.9	25.9	26.4	27.0
	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

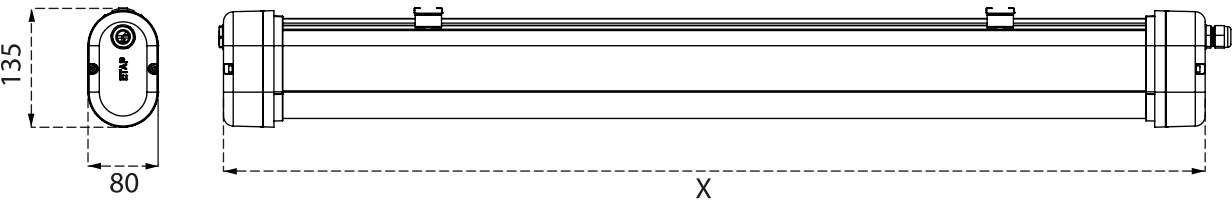
Ra: CRI (Ra) 80

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